SENTON

■ EMV-Prüfzentrum ■ EMI/EMC-Testcenter ■

Straubing, 13 August 2007

T E S T - R E P O R T

No. 56109-061084-2 (Edition 4)

for

KQL-AC4X90-200 (RF Transceiver Module)

1. **AC4490-200M**
2. **AC4490-200M-485**
3. **AC4490LR-200M**
   fully tested in this test report
4. **AC4490LR-200M-485**
5. **AC4790-200M**
6. **AC4790-200M-485**
   see test report no. 56109-061084-1
7. **AC4790LR-200M**
8. **AC4790LR-200M-485**

Applicant:	AEROCOMM, Inc.
Purpose of testing:	To show compliance with FCC Code of Federal Regulations, Part 15 Subpart C, Section 15.247

Table of Contents

1. Administrative Data

Test item (EUT)	
Type designation	KQL-AC4X90-200: 1. AC4490-200M 2. AC4490-200M-485 3. AC4490LR-200M fully tested in this test report 4. AC4490LR-200M-485 5. AC4790-200M 6. AC4790-200M-485 see test report no. 56109-061084-1 7. AC4790LR-200M 8. AC4790LR-200M-485
Serial number(s):	001
Type of equipment:	RF Transceiver
Parts/accessories:	---
FCC-ID:	KQL-4X90200
Technical data	
Frequency range	902 - 928 MHz
Operational frequencies	FHSS
Statement:	The power was set to the maximum possible
Type of modulation	FSK
Pulse frequency	N/A
Pulse width	N/A

Antennae covered by this report:

Part #	Manufacturer	Type	Gain	Coupling
SG101NT-915	Nearson	Omni	5 dBi	N-Reverse thread (Female)
S161AH-915R	Nearson	Dipole	2.5 dBi	RP SMA
GM113	V.TORCH	Omni	3.5 dBi	RP SMA
PC8910NRTN	Cushcraft	Yagi	11 dBd	N-Reverse Polarity TNC
ANT-DB1-RMS	Antenna Factor	Mono-pole	3 dBi	RP SMA

Power supply	3.3 - 5.5 V DC

Applicant: (full address)	AEROCOMM, Inc. Thompson Avenue Lenexa, KS 66219, USA
Contract identification:	---
Contact person:	Daniel Waters
Manufacturer:	Applicant
Application details	
Receipt of EUT:	12 December 2006
Date of test:	December 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. DAT-P-171/94-02
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:	 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,
full TX tests were performed on lowest, middle and highest RF channel. RX mode was tested on the middle channel.

Low channel:	902.20 MHz
Middle channel:	915.30 MHz
Highest Channel:	927.40 MHz

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
- AEROCOMM Test Board - AC Adapter - Notebook PC Dell Latitude D600

5. Measuring Methods

5.1. Maximum Transmitter Power

5.1.1. Conducted Maximum Transmitter Power

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

Measurement Procedure:
A spectrum analyzer / EMI test receiver is connected to the output of the transmitter power amplifier (conducted measurement) via dummy load while EUT was operating in transmit mode using the assigned frequency. The trace mode of the spectrum analyzer was set to max hold with: RBW = 100 kHz, VBW = 100 kHz, span = 1 MHz, sweep = 20 ms (auto mode)

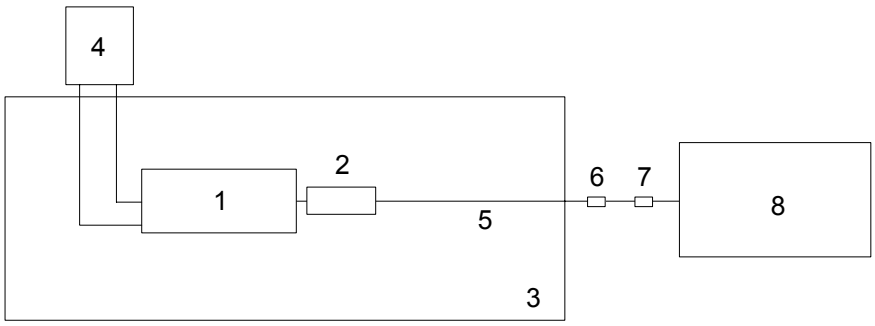


Figure 1: Measurement setup for testing on antenna connector

Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Power Sensor	NRV-Z52	837901/030	Rohde & Schwarz
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda

5.1.2. 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

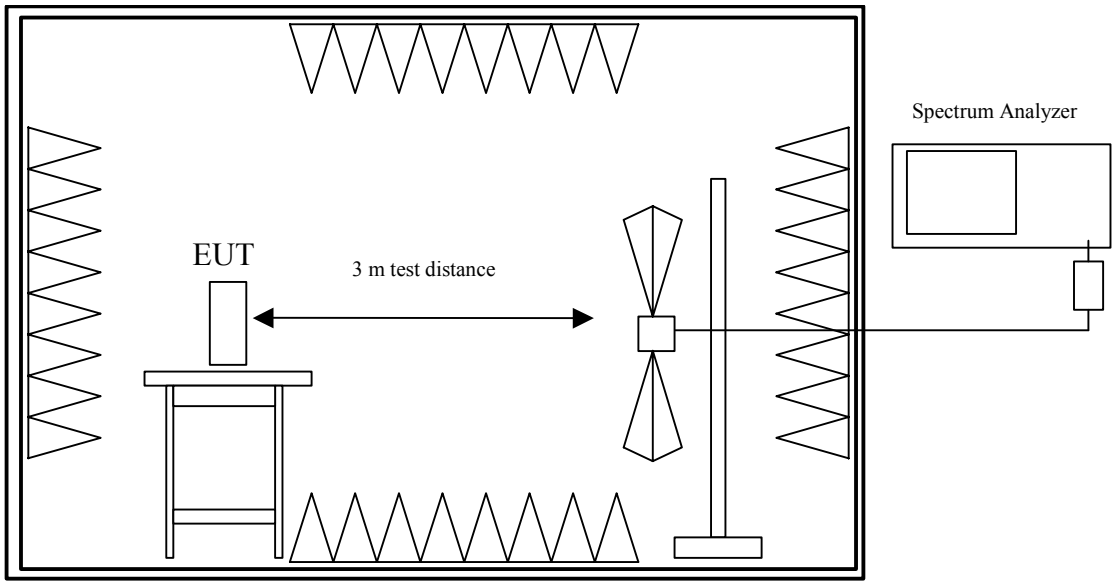
5.2. Radiated Emissions 30 MHz – 1 GHz

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

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

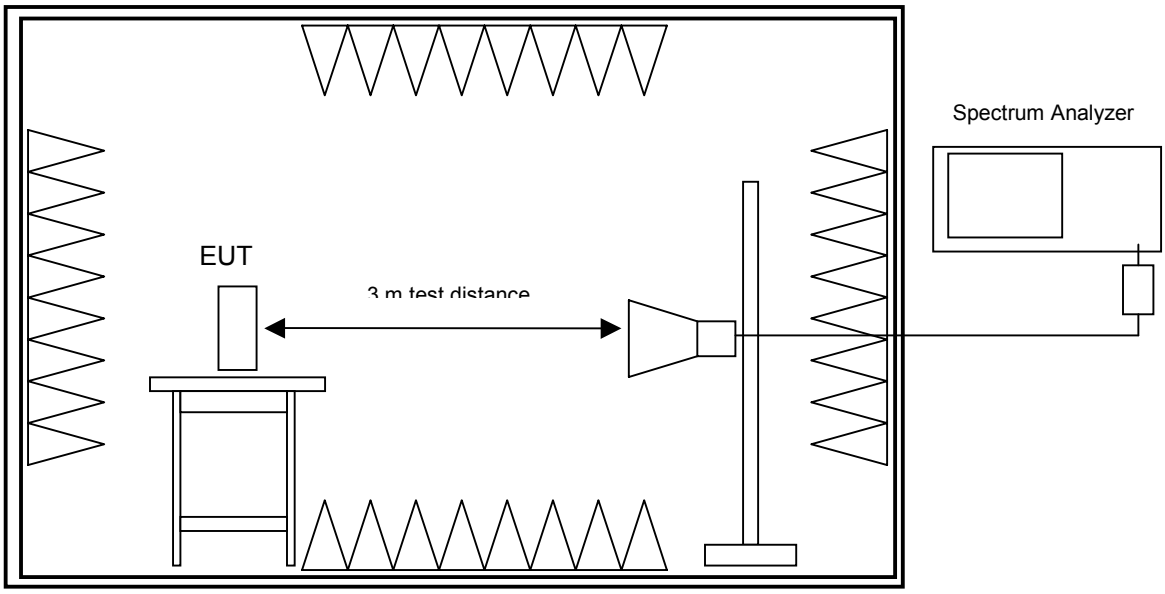
Test instruments used:

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

5.3. Radiated Emission > 1 GHz

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

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).



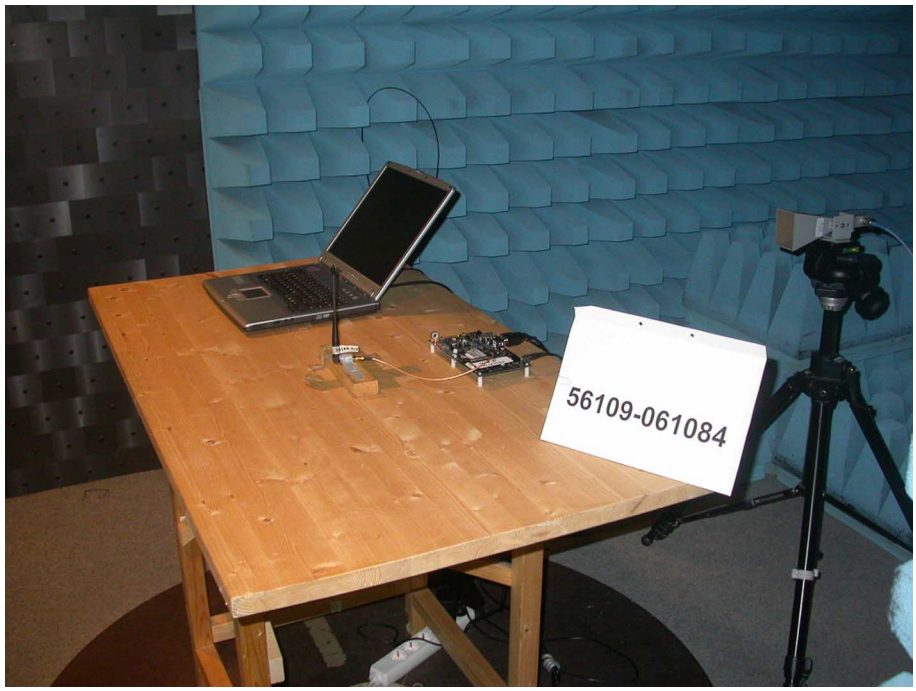
Fully anechoic chamber

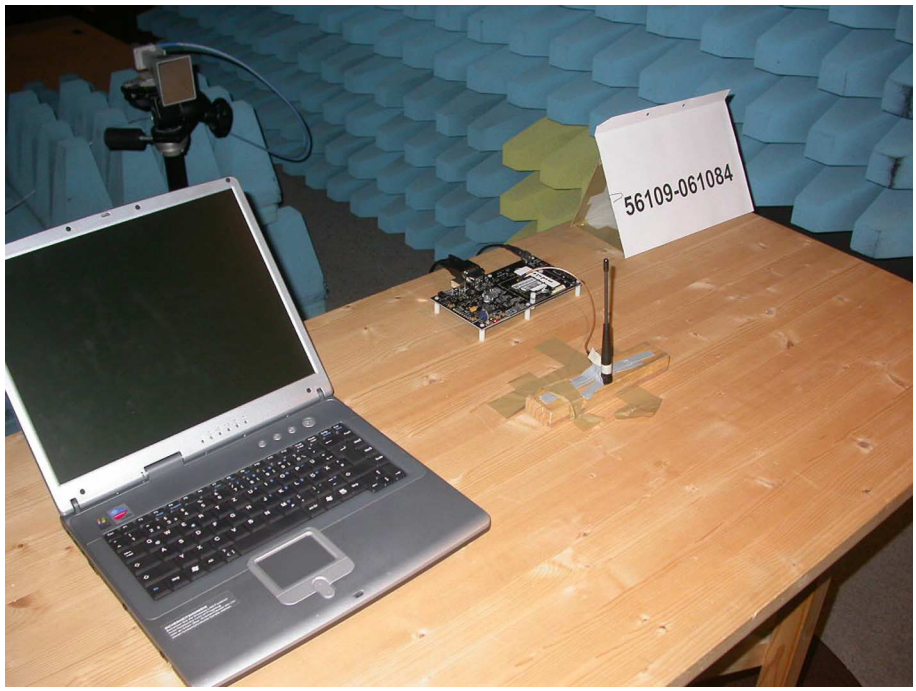
Test instruments used:

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 30 MHz – 25 GHz (fully anechoic room)





Test setup for conducted AC Powerline Emission Mesurement

7. List of Measurements

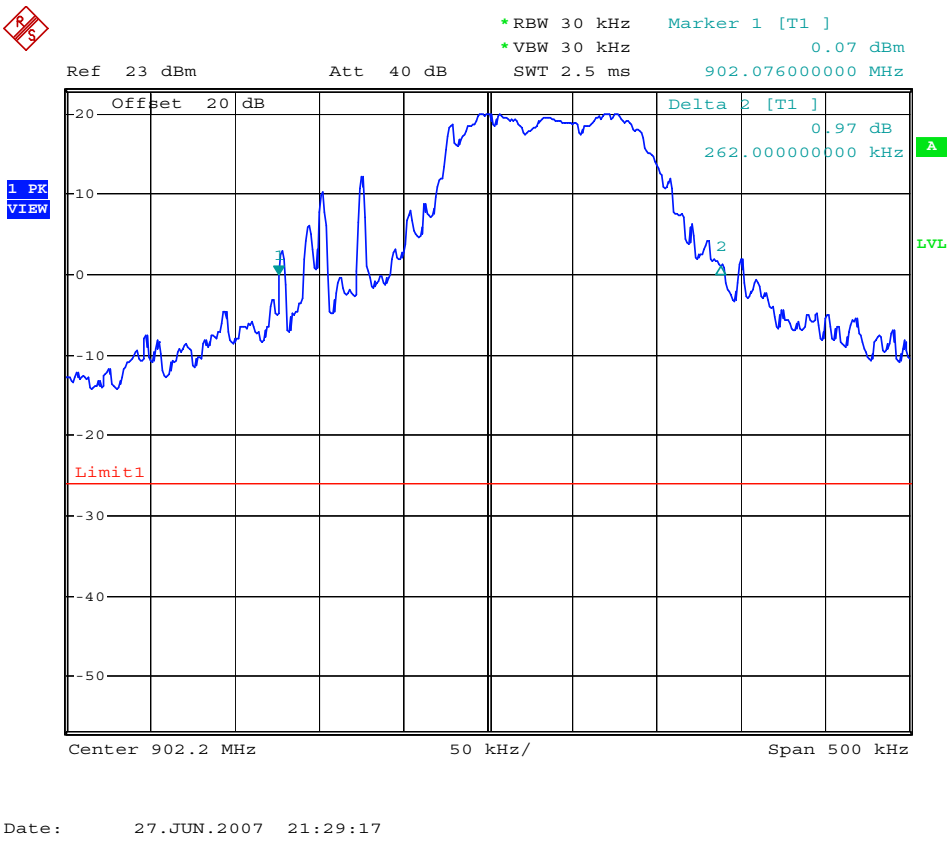
FCC Part 15 Subpart C			
Section(s):	**Test**	**Page(s)**	**Result**
	Transmitter:		
15.205	Restricted Bands	---	Pass
15.247 (a) (1)	Channel Bandwidth	17	Pass
15.247 (a) (1)	Hopping channel separation	19	Pass
15.247 (a) (1) (i)	Number of Hopping Frequencies used	21	Pass
15.247 (a) (1) (i)	Dwell Time of each frequency within a 10 Second Period of Time	23	Pass
15.247 (b) (2)	Maximum Peak Output Power	25	Pass
15.247 (c)	Spurious emissions - conducted	27	Pass
15.205 **15.209**	Radiated emissions 9 kHz to 30 MHz	33	Pass
15.247 (c) **15.209**	Spurious emissions - radiated	31	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	33	
2.1093	RF Exposure Requirement	34	Pass
15.207	Conducted AC Powerline Emissions	35	Pass
	Receiver		
15.111	Spurious emissions on antenna port	---	N/A
15.109	Radiated Emissions	36	Pass

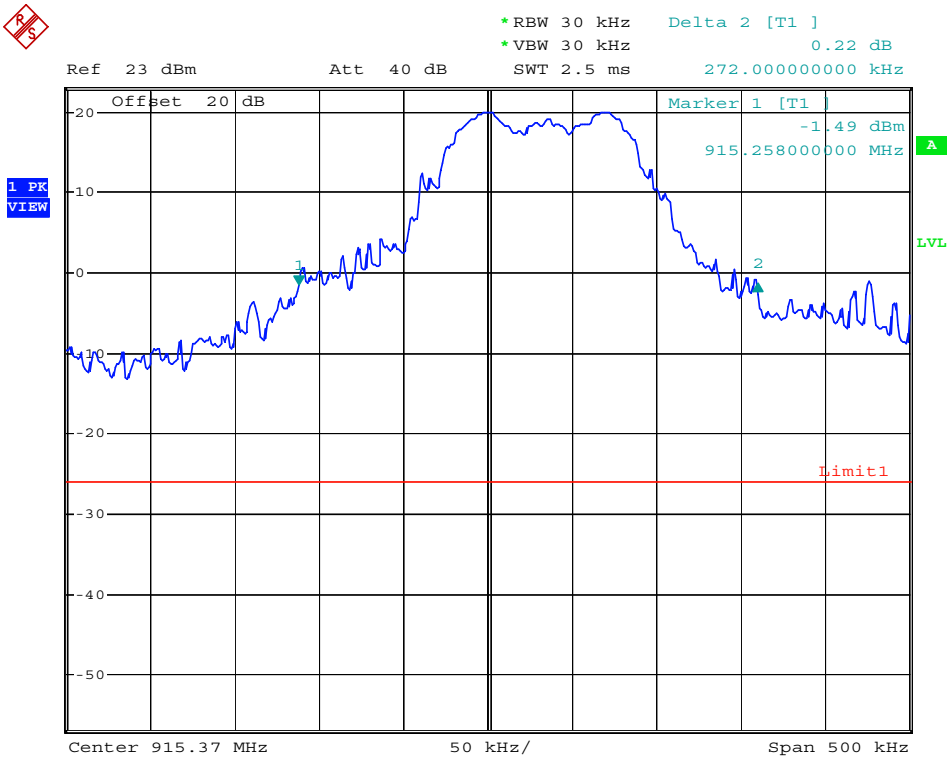
Channel Bandwidth

Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4
Limit:	The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

Frequency	Channel Bandwidth in kHz	Standard	Result
Low (902.2 MHz)	262.0	≤500 kHz	Pass
Middle 915,3 MHz	272.0	≤500 kHz	Pass
High 927.4 MHz	260.0	≤500 kHz	Pass





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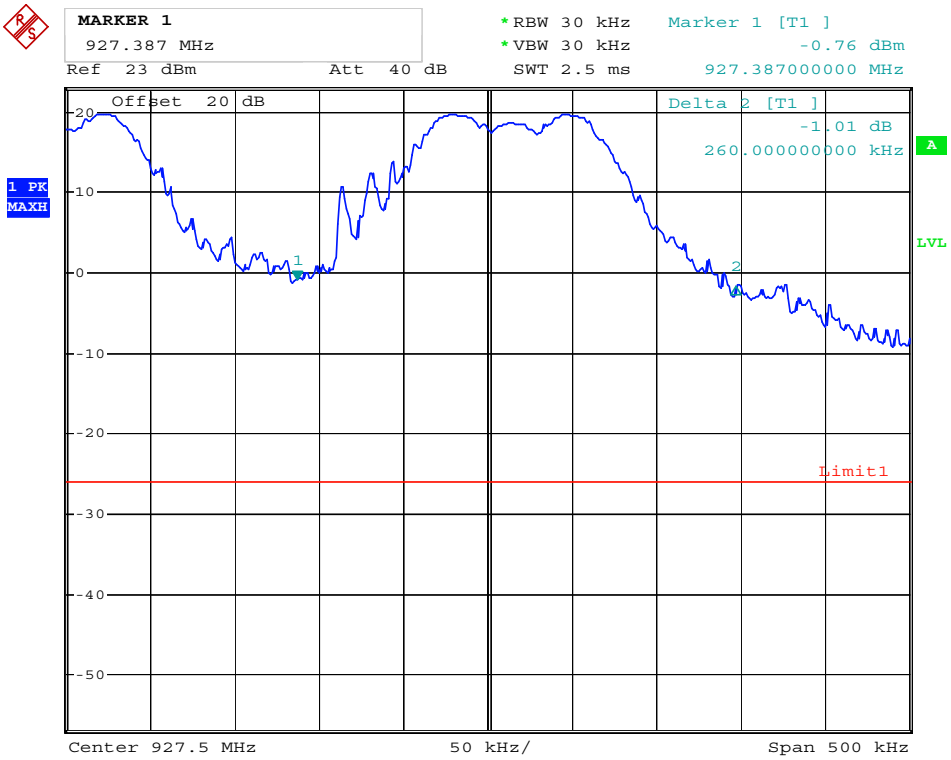

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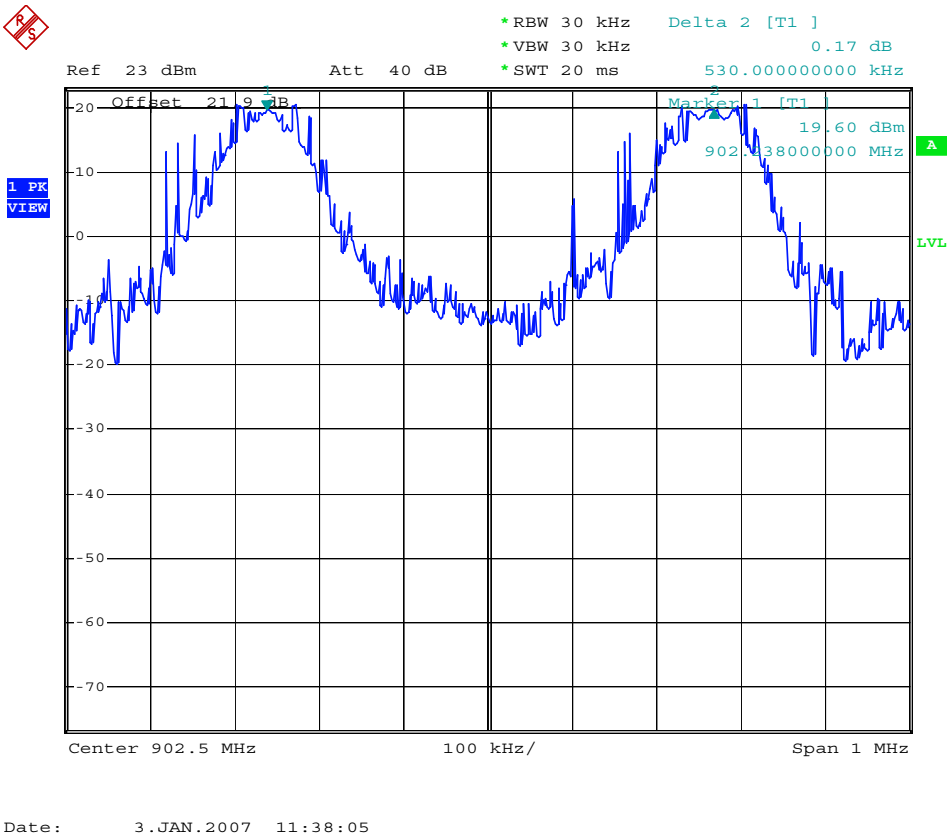
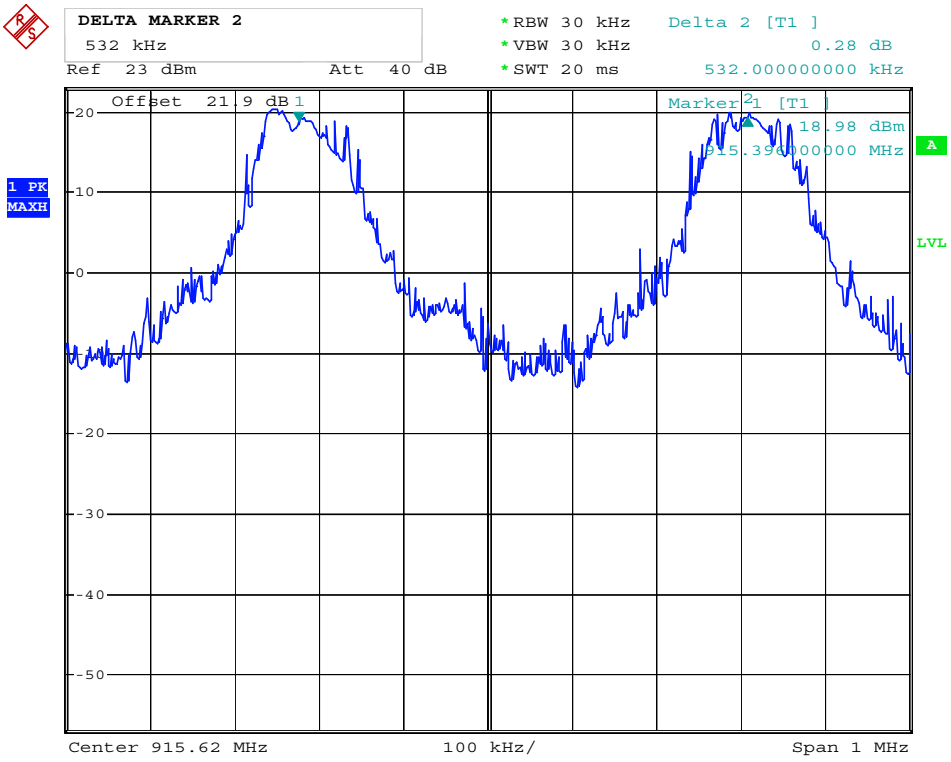
Hopping Channel Separation

Rules and Specifications:	15.247 (a) (1)
Guide:	ANSI C63.4
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth, whichever is greater.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

Channel Frequency	Measured	Required	Result
902.2 MHz	530 kHz	> 262.0 kHz	Pass
915.3 MHz	532 kHz	> 272.0 kHz	Pass
927.4 MHz	532 kHz	> 260.0 kHz	Pass





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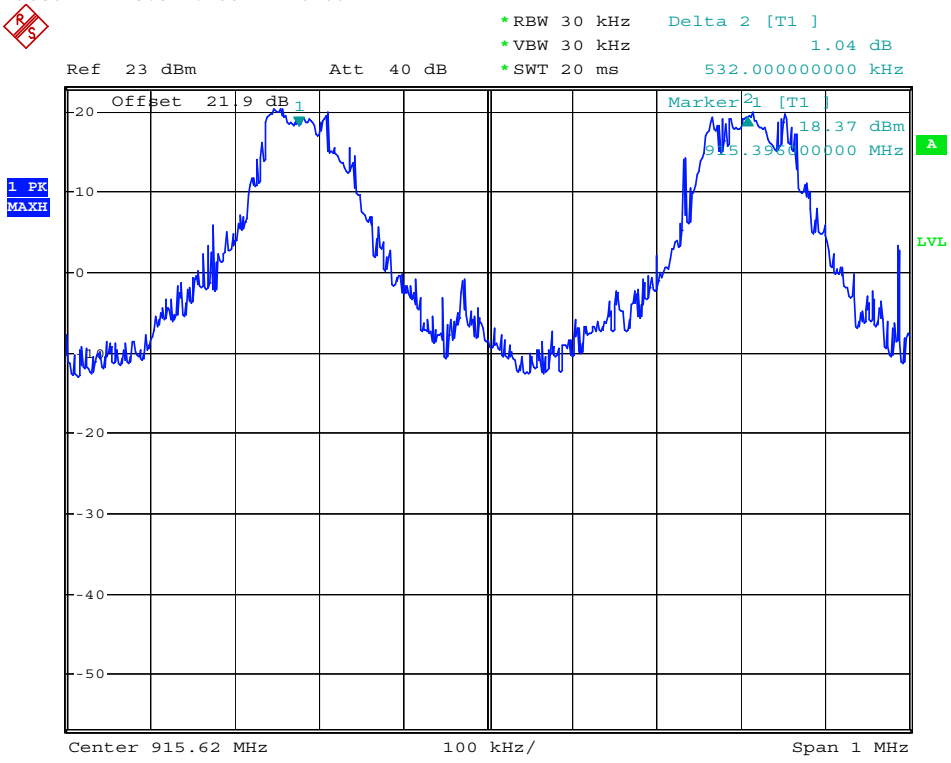

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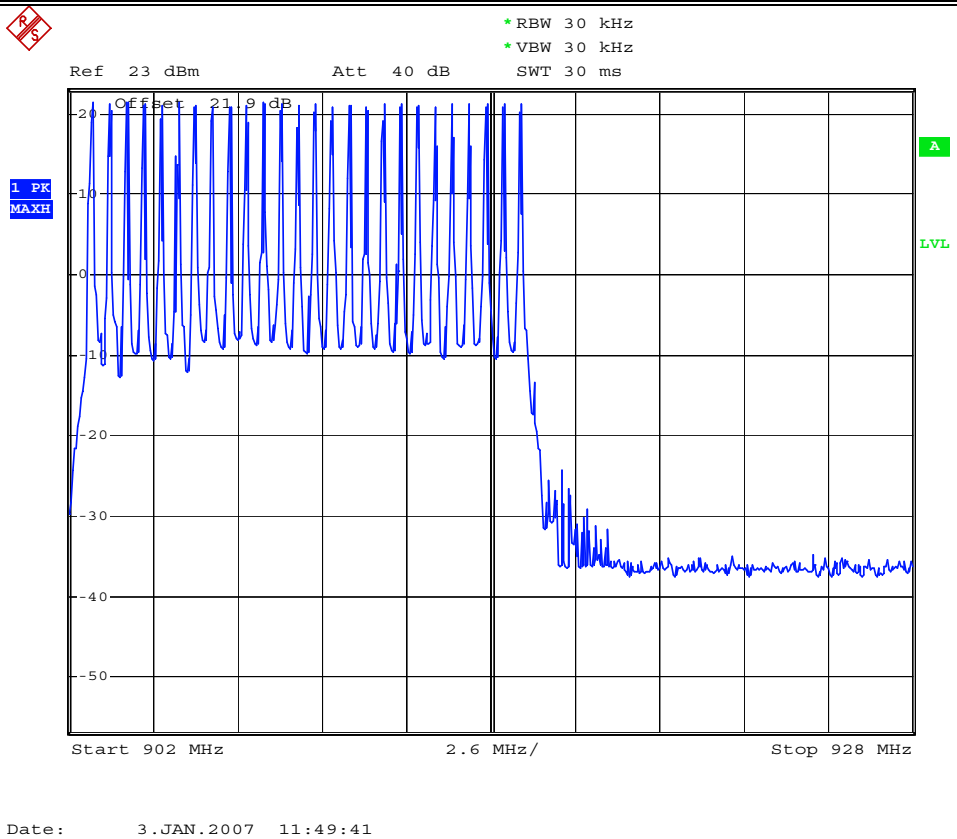
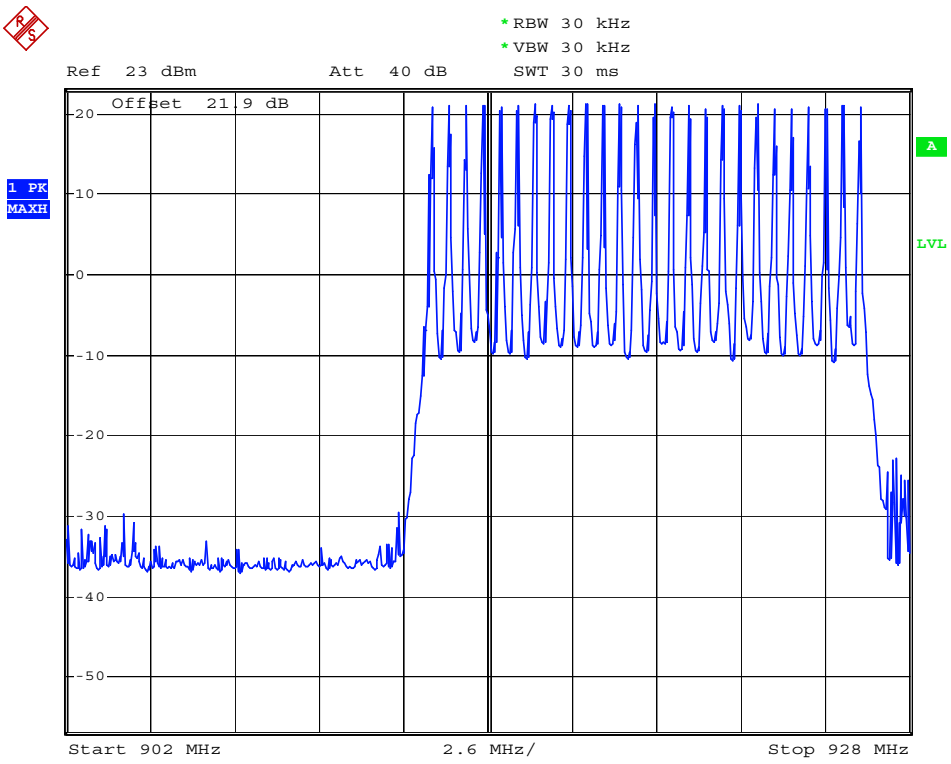
Number of Hopping Frequencies used

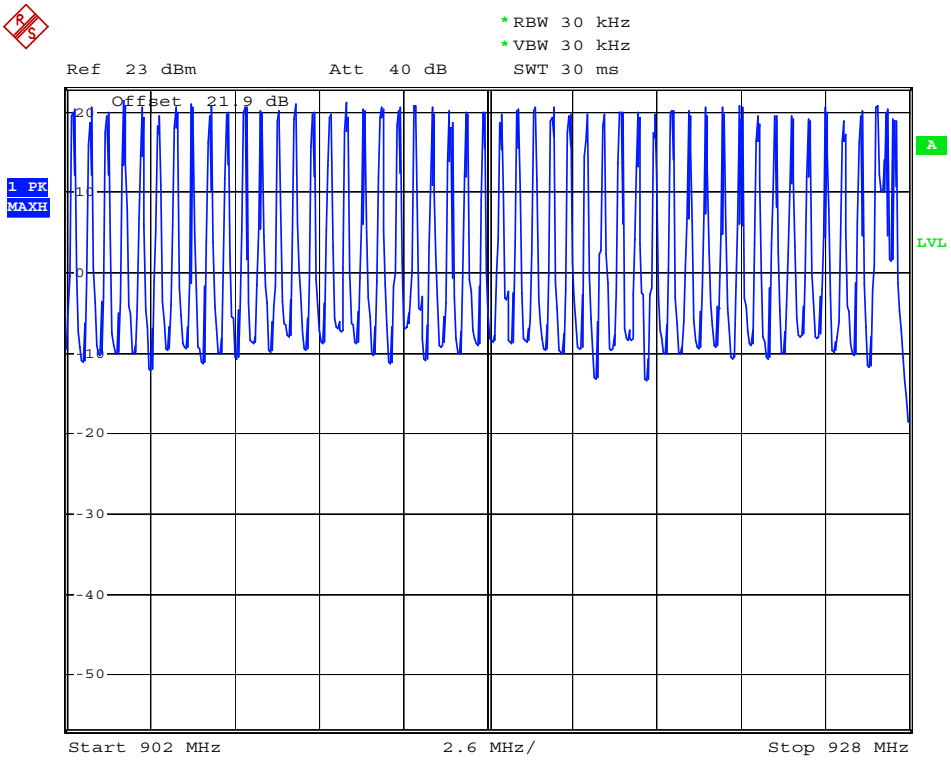
Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4
Limit:	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

Number of Hopping Frequencies	Measured	Required	Result
Low 26 Hop Set	26	25	Pass
High 26 Hop Set	26	25	Pass
50 Hop Set	50	25	Pass







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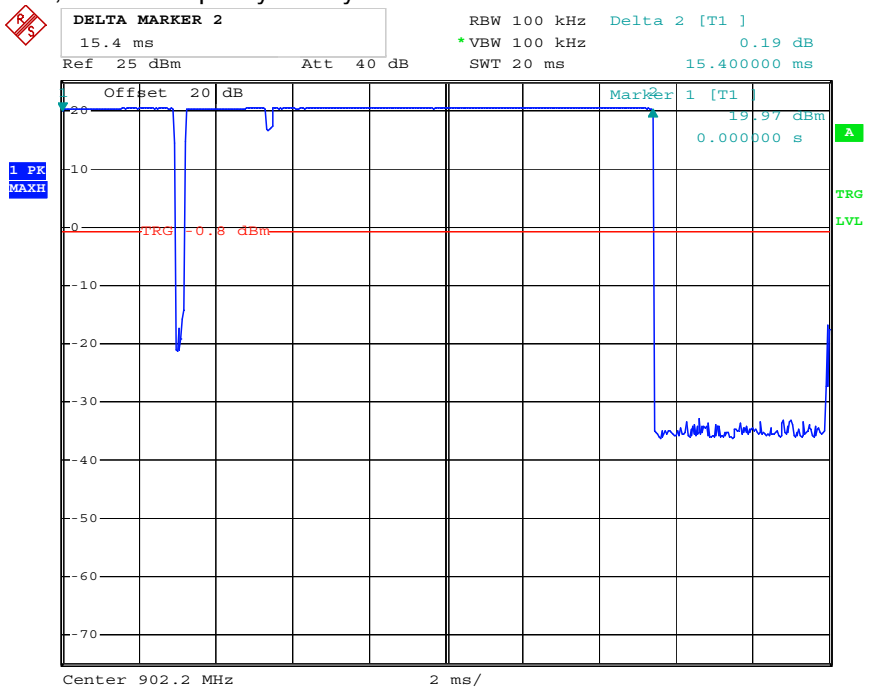
Time Occupancy on any Channel

Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4
Limit:	If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

Time occupancy	Measured	Required	Result
	10 x 15.40 ms = 0.154 s within a 10 second period	< 0.4 seconds within a 10 second period	Pass

AC4490LR-200M, Time Occupancy on any Channel - Low channel



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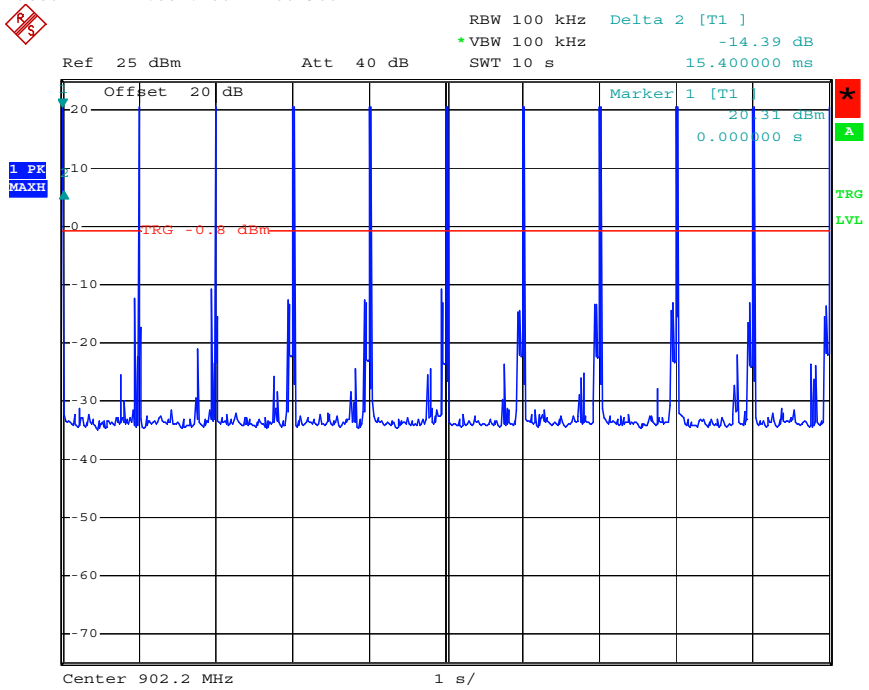

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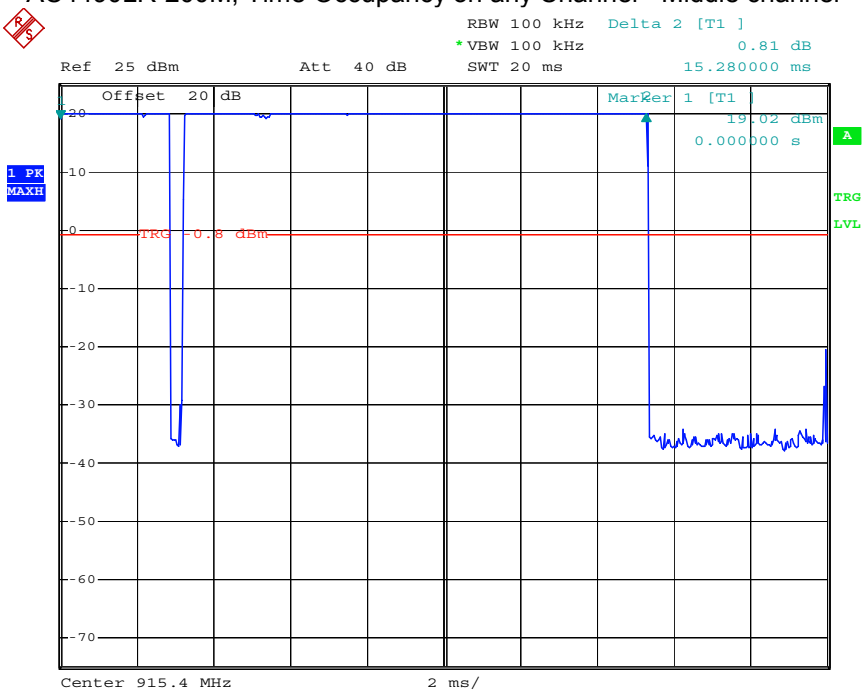
AC4490LR-200M, Time Occupancy on any Channel - Middle channel



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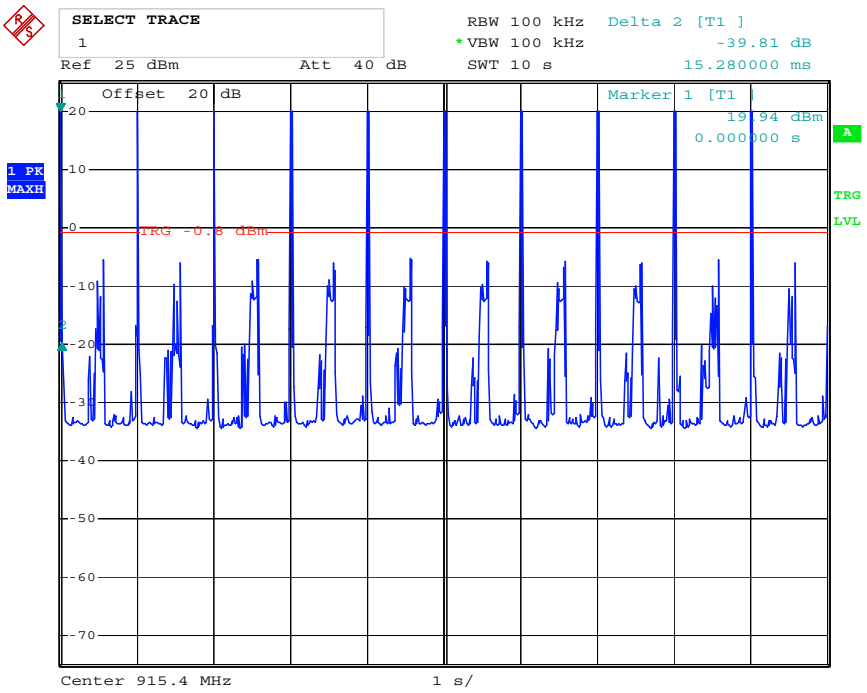

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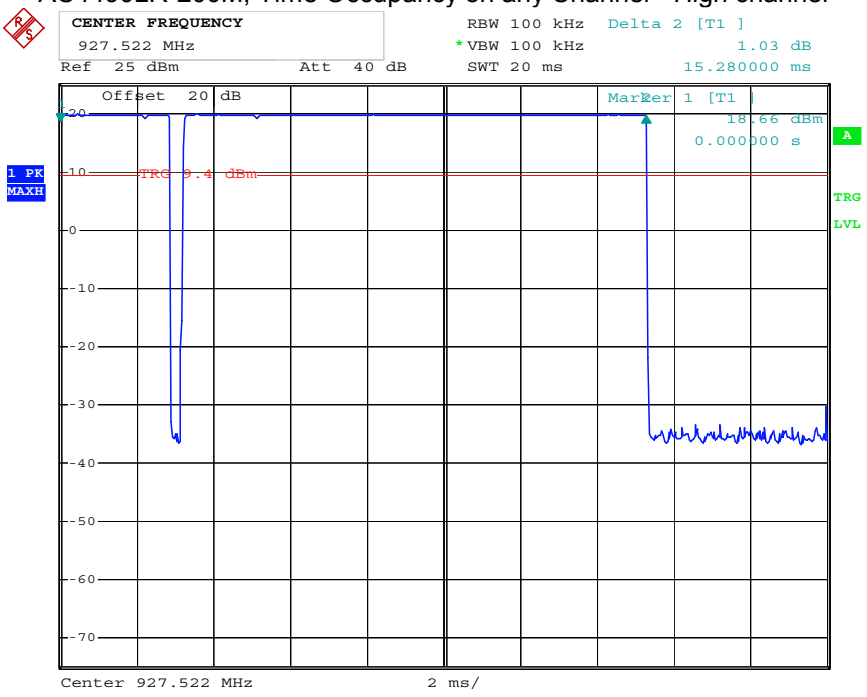
AC4490LR-200M, Time Occupancy on any Channel - High channel



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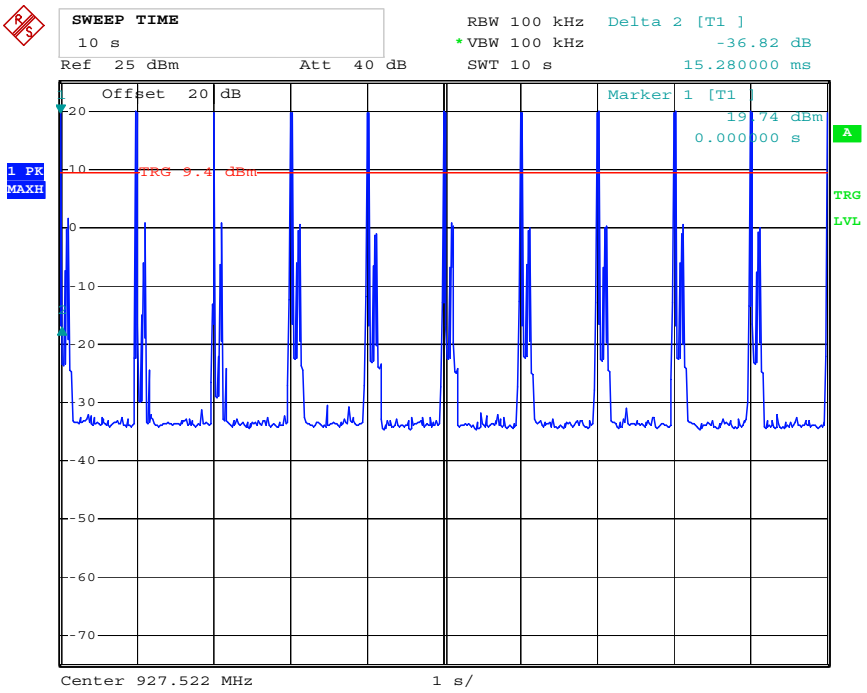

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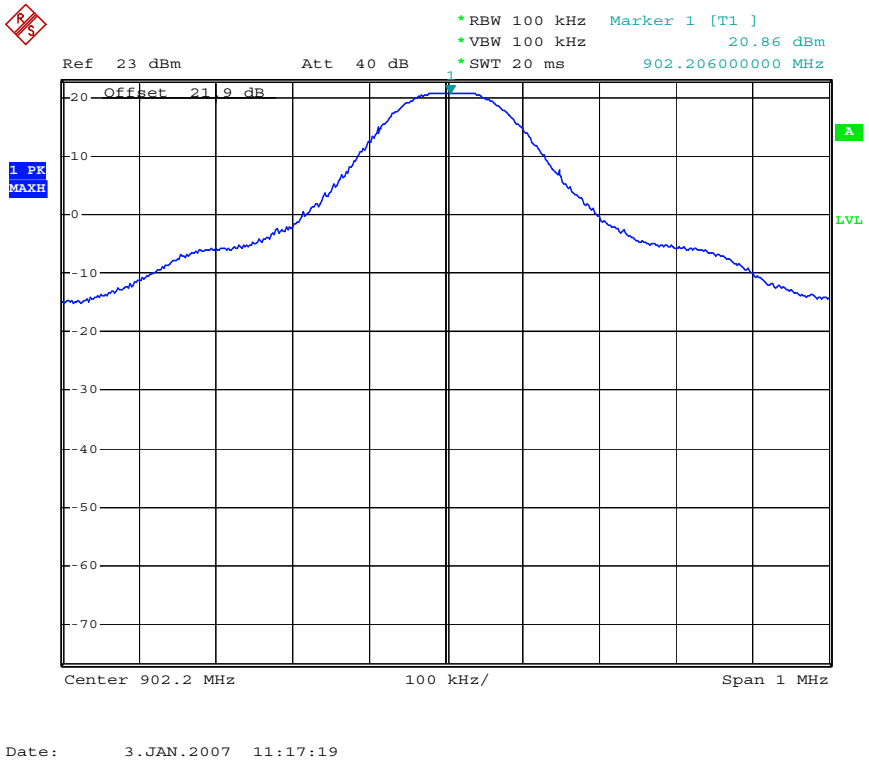
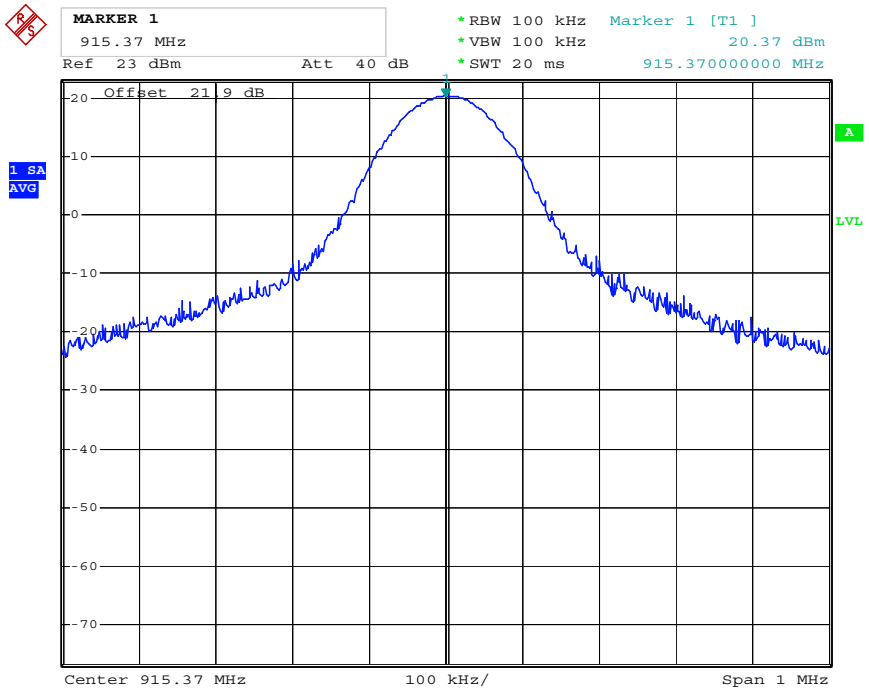
Carrier Power Measurement

Rules and Specifications:	15.247 (b) (2)
Guide:	ANSI C63.4
Limit:	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels;

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

Frequency	Output Power in dBm	Output Power in W	Standard	Result
Low (902.2 MHz)	20.86		≤1.00W	Pass
Middle 915,3 MHz	20.37		≤1.00W	Pass
High 927.4 MHz	20.17		≤1.00W	Pass





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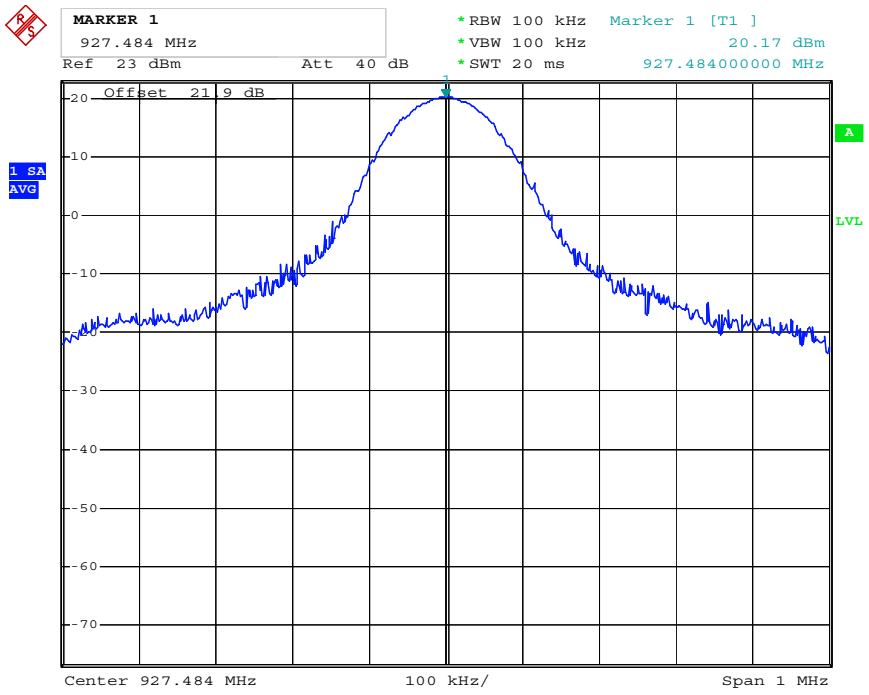

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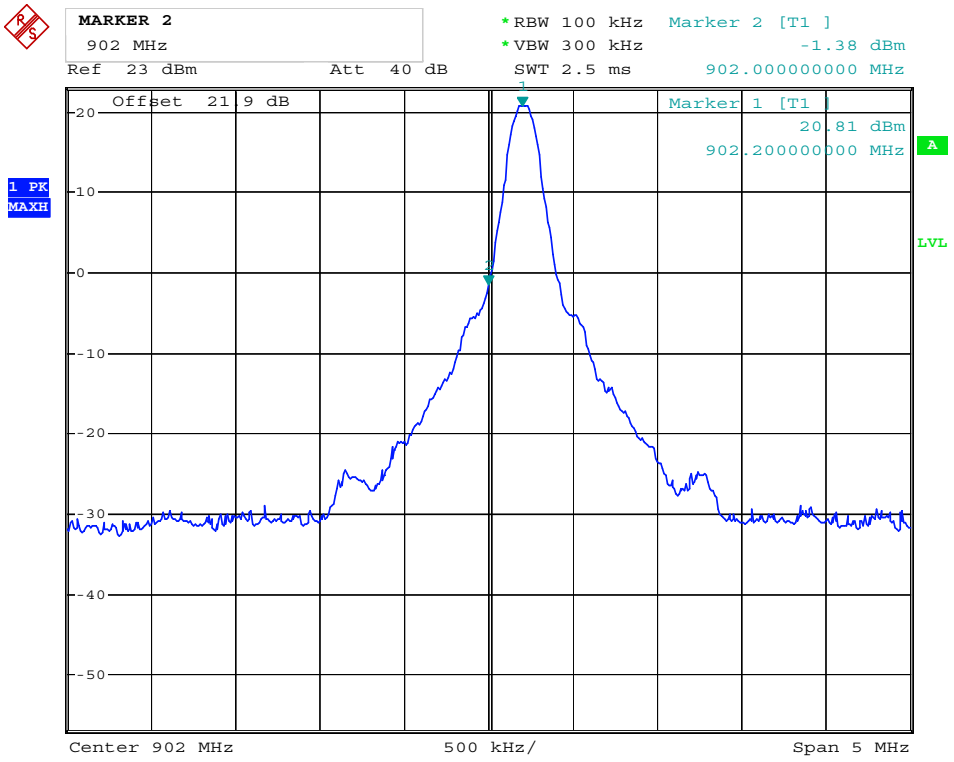
Spurious Emissions

Rules and Specifications:	15.247 (c)
Guide:	ANSI C63.4
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.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)	Result
902.2	20.81	---	---	Fundamental
915.4	20.64	---	---	Fundamental
927.5	20.26	---	---	Fundamental
902.0	-1.38	0.81	-2.19	Pass
928.0	-14.94	0.26	-15.20	Pass
787.4	-26.11	0.81	-33.74	Pass
808.4	-23.83	0.64	-26.43	Pass



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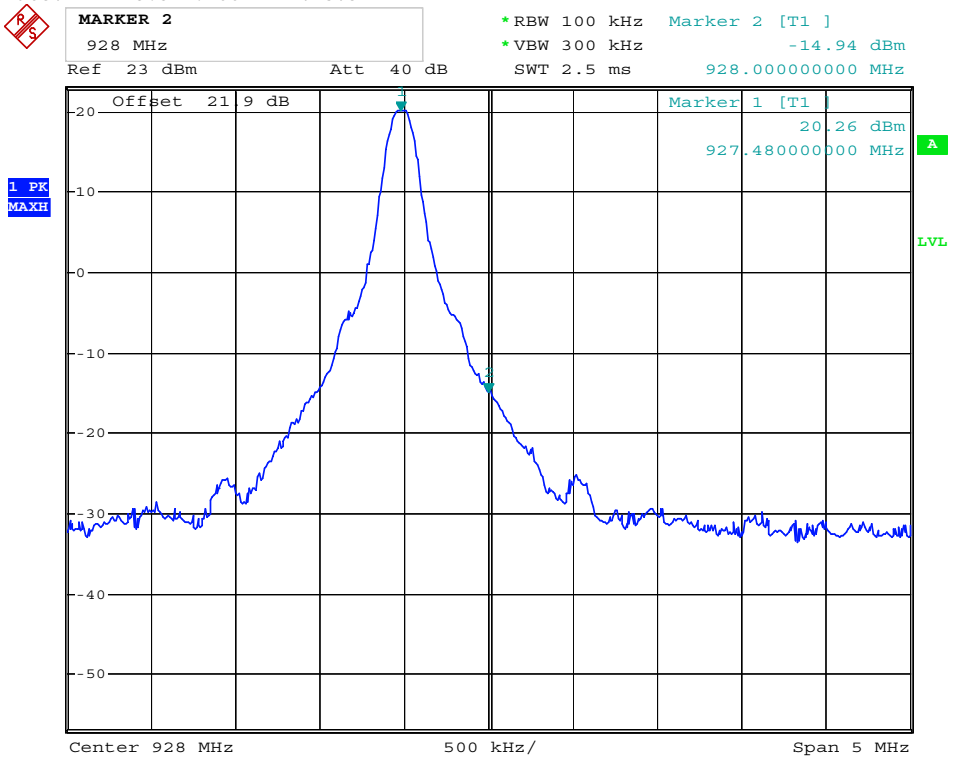

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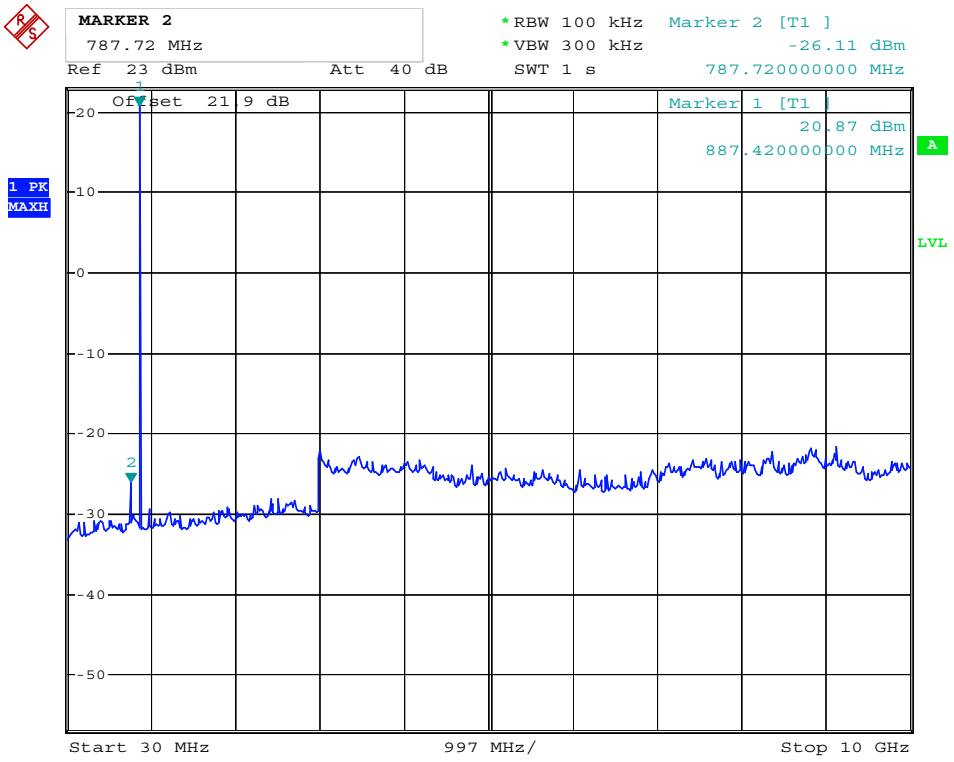

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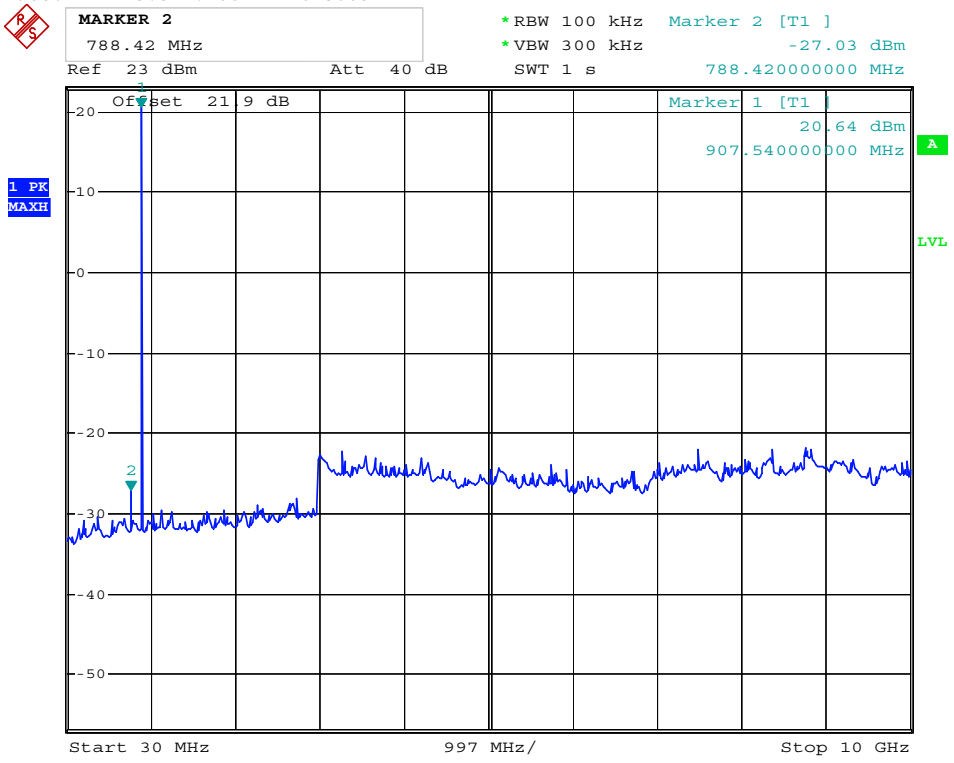

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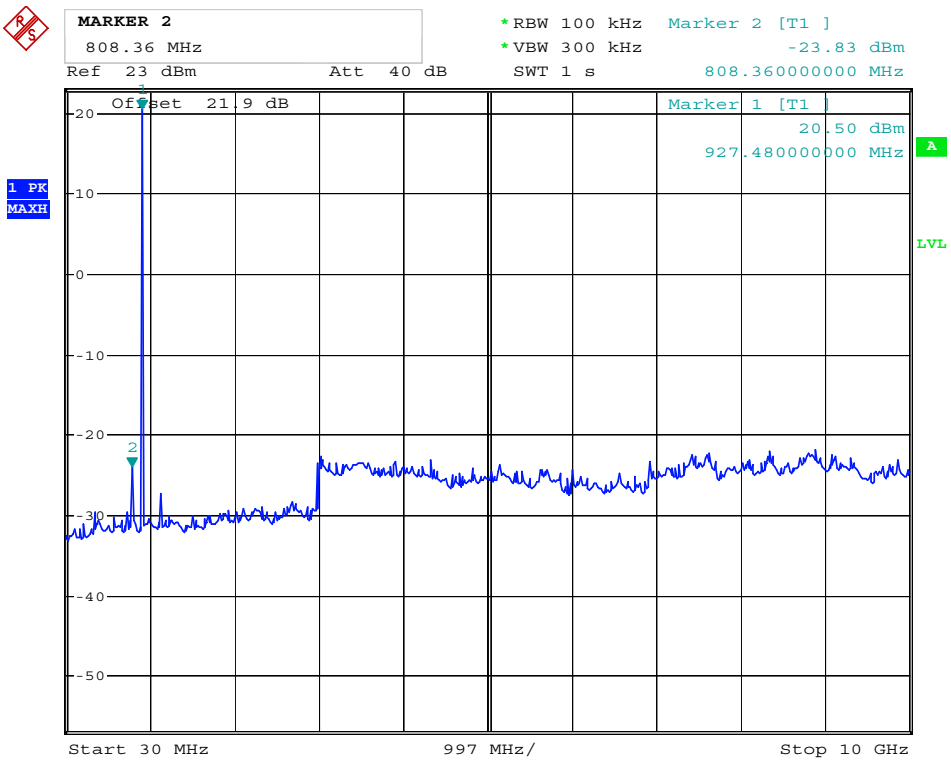

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Radiated Emission Measurement 9 kHz to 30 MHz

Rules and Specifications:	CFR 47 Part 15, sections 15.205 and 15.209			
Guide:	ANSI C63.4-2003			
Limit:	Frequency of Emission (MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance d (meters)
	0.009 - 0.490	2400/F(kHz)	67.6 - 20 · log(F(kHz))	300
	0.490 - 1.705	24000/F(kHz)	87.6 - 20 · log(F(kHz))	30
	1.705 - 30.000	30	29.5	30
	Additionally, the level of any unwanted emissions shall not exceed the level of the fundamental emission.			

Test Result	Pass (No emissions below 30 MHz found)

Spurious Emissions

Rules and Specifications:	15.247 (c)
Guide:	ANSI C63.4
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:	03 January 2007

Frequency (MHz)	Antenna Polarisation	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
902.20	Vertical	94.05	24.19	118.24	Fundamental	---
915.40	Vertical	93.53	24.31	117.84	Fundamental	---
927.50	Vertical	93.46	24.41	117.87	Fundamental	---
Band Edge Compliance						
902.00	Vertical	4.00	24.19	28.19	98.24	N.R.B
928.00	Vertical	4.80	24.41	29.21	98.24	N.R.B
Low Channel						
734.20	Vertical	32.05	22.01	54.06	98.24	N.R.B
790.48	Vertical	32.06	22.79	54.86	98.24	N.R.B
846.74	Vertical	26.56	23.52	50.09	54.00	3.91
1012.00	Vertical	26.10	27.74	53.84	54.00	0.16
1126.00	Vertical	23.82	28.24	52.06	54.00	1.94
1804,00	Vertical	16.50	31.29	47.79	54.00	6.21
2710.00	Vertical	12.21	34.64	46.85	54.00	7.15
3610.00	Vertical	11.75	38.11	49.86	54.00	4.14
4510.00	Vertical	15.61	33.99	49.60	54.00	4.40
5413.00	Vertical	4.77	34.85	39.62	54.00	14.38

Frequency (MHz)	Antenna Polarisation	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
6315.00	Vertical	9.51	38.19	47.70	54.00	6.30
8124.00	Vertical	13.15	39.70	52.85	54.00	1.15
9024.00	Vertical	2.90	43.72	46.62	54.00	7.38
Middle Channel						
743.92	Vertical	35.52	22.15	57.67	97.87	N.R.B.
802.12	Vertical	34.76	22.95	57.71	97.87	N.R.B.
858.38	Vertical	27.13	23.67	50.80	97.87	N.R.B
1030.00	Vertical	24.88	27.82	52.70	54.00	1.30
1084.00	Vertical	24.23	28.06	52.29	54.00	1.71
1144.00	Vertical	23.66	28.31	51.97	54.00	2.03
6409.00	Vertical	12.24	38.27	50.51	54.00	3.49
7325.00	Vertical	14.22	39.07	53.29	54.00	0.61
8239.00	Vertical	9,87	43.17	53.04	54.00	0.96
High Channel						
755.56	Vertical	38.11	22.31	60,42	97.84	N.R.B.
811.82	Vertical	39.19	23.08	62.27	97.84	N.R.B.
1042.00	Vertical	20.90	25.62	46.52	54.00	7.48
1156.00	Vertical	22.50	26.59	49.09	54.00	4.91
1324.00	Vertical	18.98	28.24	47.22	54.00	6.78
4636.00	Vertical	5.87	34.11	39.98	54.00	14.02
5565.00	Vertical	5.33	35.00	40.33	54.00	13.67
6493.00	Vertical	13.44	38.34	51.79	54.00	2.21
7419.00	Vertical	10.74	39.17	49.91	54.00	4.09
8347.00	Vertical	5.27	43.25	48.52	54.00	5.48
9276.00	Vertical	2.03	43.90	45.93	54.00	8.07

N.R.B. = Not in a restricted band

Antenna connector requirement

Rules and Specifications:	15.203
Guide:	---
Limit:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

Test Result	Pass
	The UUT employs a MMCX connector which meets the requirements for an unique antenna coupler

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: **20.64 dBm = 116 mW**
Prediction distance: **20 cm**
Antenna gain: (**Nearson SG101NT-915**) **5.0 dBi = 3,16 (numerical gain)**

Power density at 20 cm: **0.072 mW/cm2**

Test Result:	**Pass**	

Conducted Powerline Emission Measurement

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:	EMC Lab. - Shielded Room 4
Distance:	Conducted Measurement
Date of Test:	29 January 2007

Frequency (MHz)	Detector	Analyzer Reading (dBµV)	Correction Factor (dB)	Final Value (dBµV)	Limit (dBµV)	Margin (dB)
0,240	Average	51,8	0	51,8	52,1	**0,3**
0,475	Average	46,6	0	46,1	46,6	**0,5**
0,715	Average	43,20	0	43,2	46,0	**2,8**
0,235	QP	59,8	0	59,8	62,3	**2,5**
1,135	QP	48,4	0	48,4	56	**7,6**
						0,0

***** = No emissions above noise floor detected**

Sample calculation of Final values:

Final Value (dBµV) = Analyzer Reading (dBµV) + Correction Factor (dB)

Test Results:	Pass	

Spurious Radiation Measurement

Rules and Specifications:	15.109,
Guide:	ANSI C63.4
Limit:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated at least 50 dB below the level of the fundamental or to the general radiated emission limits below, whichever is the lesser attenuation

Frequency of Emission (MHz)	Field Strength (microvolts/meter)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Tested Frequency:	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)
165,800	QP	Horizontal	27,19	10,54	37,73	43,50	**5,8**
171,600	QP	Vertical	26,25	10,80	37,05	43,50	**6,5**
200,720	QP	Horizontal	26,71	12,37	39,08	43,50	**4,4**
1198,000	Peak	Vertical	19,53	28,53	48,06	54,00	**5,9**
1468,000	Peak	Vertical	17,76	29,49	47,25	54,0	**6,8**
1738,000	Peak	Vertical	15,82	30,95	46,77	54,0	**7,2**

***** = 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:

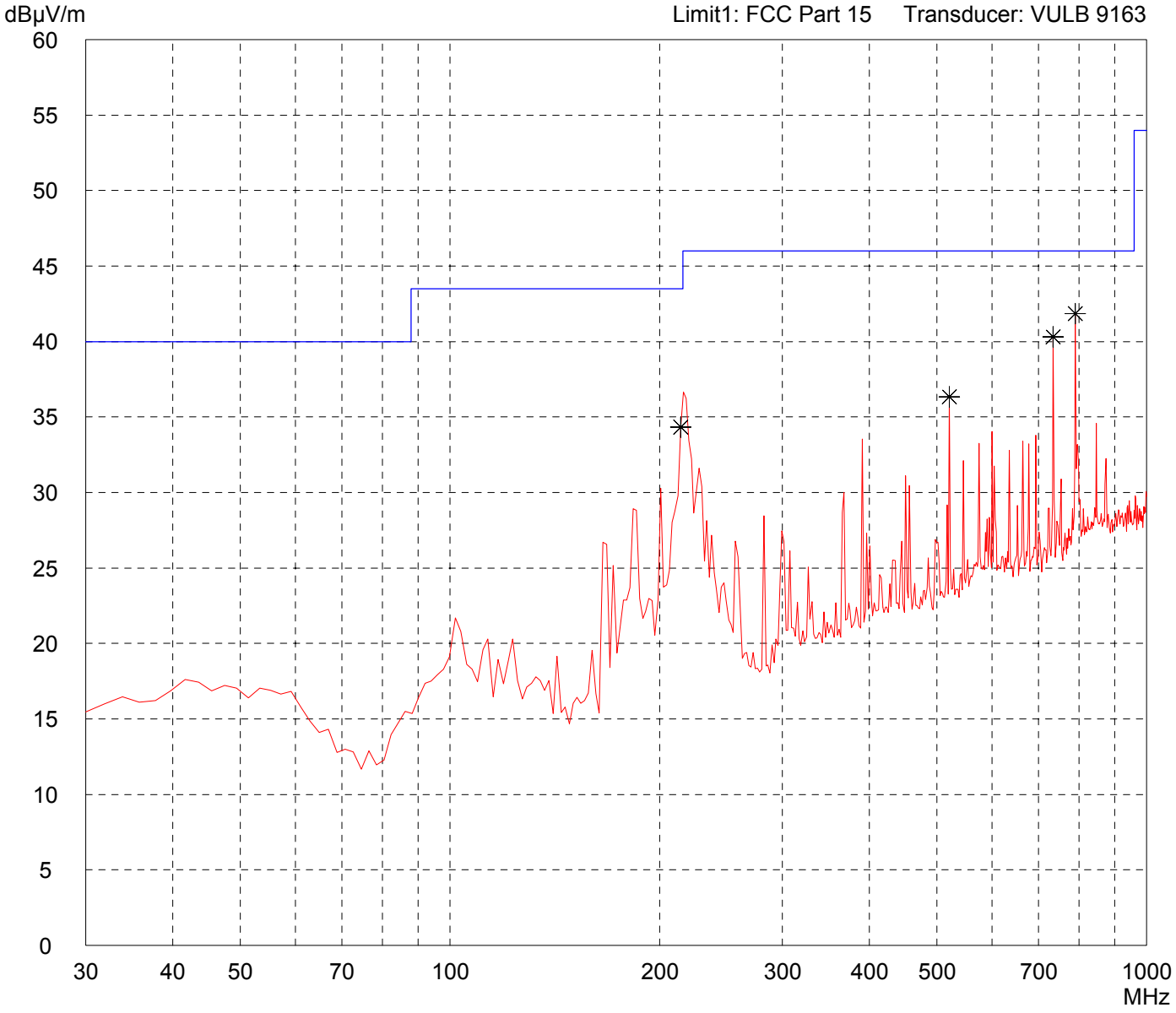
☒	CFR 47 Part 2	Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC)	October 1, 2006
☒	CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	May 4, 2007
☒	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	December 11, 2003 (published on January 30, 2004)
☒	RSS-Gen	Radio Standards Specification RSS-Gen Issue 2 containing General Requirements and Information for the Certification of Radiocommunication Equimpment, published by Industry Canada	June 2007
☒	RSS-210	Radio Standards Specification RSS-210 Issue 7 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, published by Industry Canada	June 2007
☐	RSS-310	Radio Standards Specification RSS-310 Issue 1 for Low Power Licence-Ecempt 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 30 MHz - 1 GHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490LR-200M	Comment: - TX at 902.20 MHz - Antenna: SG101NT-915 - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/30/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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



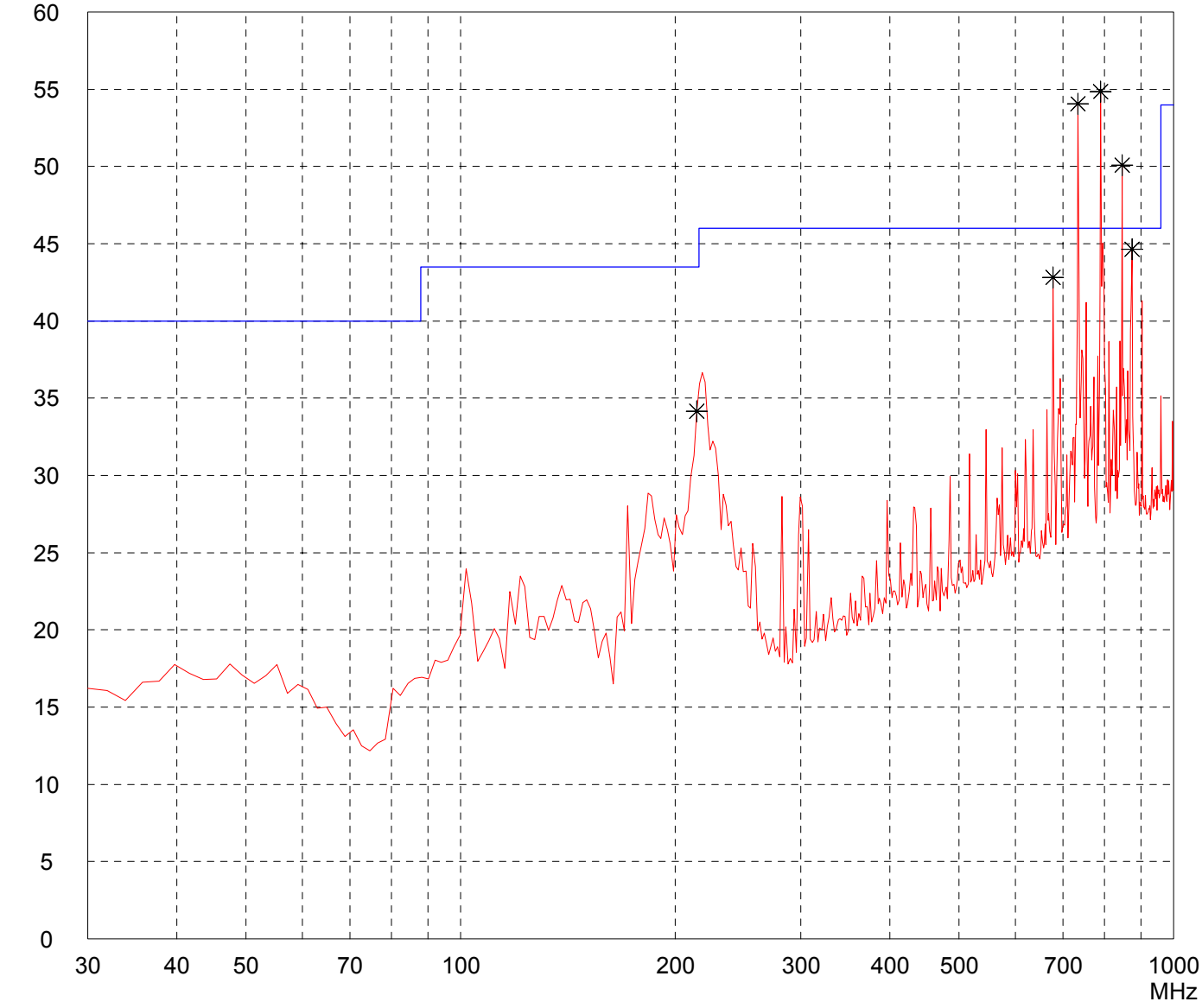
Result: Prescan	Project file: 56109-61084 — Page of Pages

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

Model: AC4490LR-200M	Comment: - TX at 902.20 MHz - Antenna: SG101NT-915 - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/30/2007 — Operator: A. Stübinger	
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

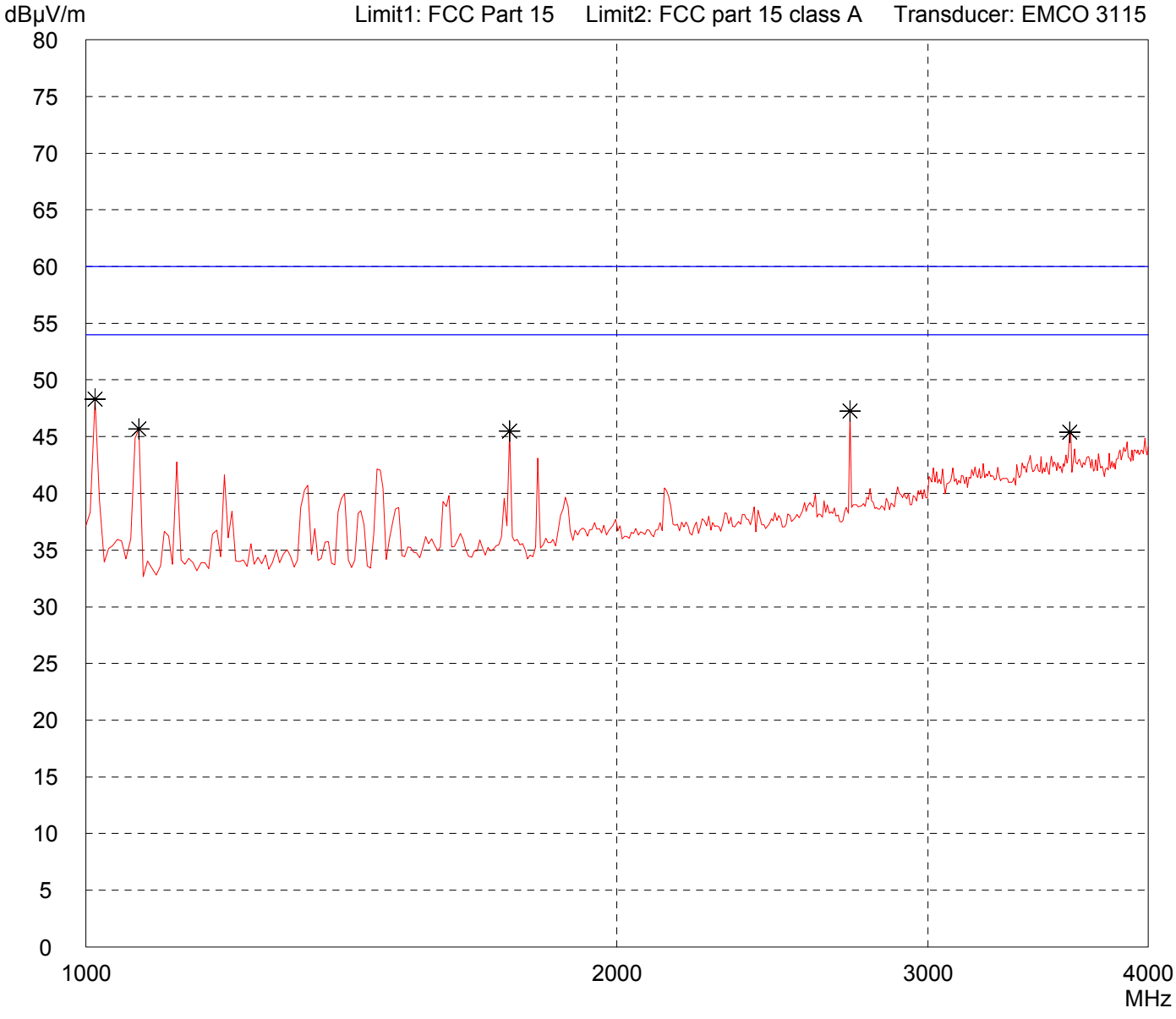


Result: Prescan	Project file: 56109-61084 — Page of Pages

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

Model: AC4490LR-200M	Comment: - TX at 902.20 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 02/01/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

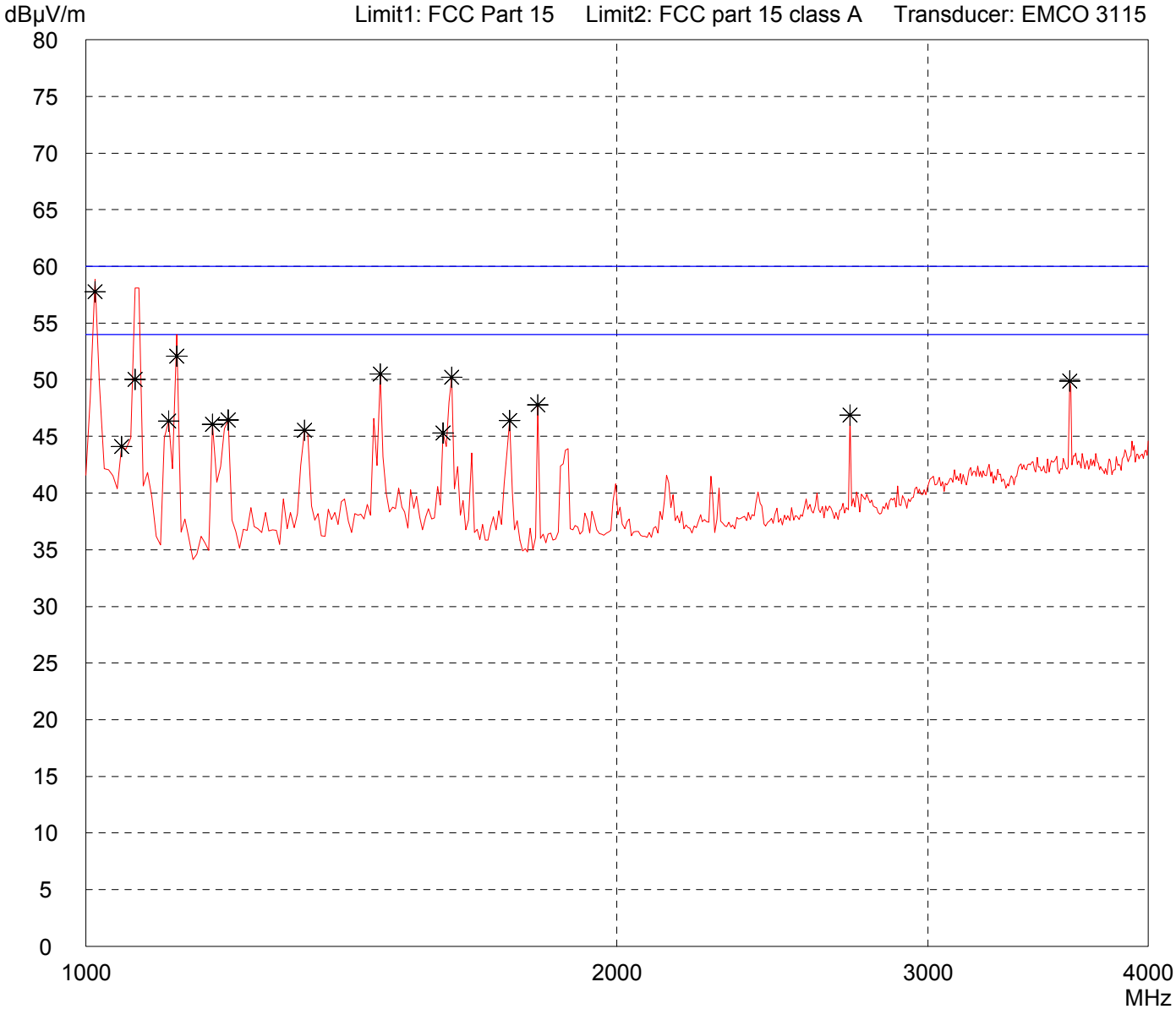


Result: Limit kept	Project file: 56109-61084 Page of Pages

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

Model: AC4490LR-200M	Comment: - TX at 902.20 MHz - Antenna: SG101NT-915 Note: Failing emission retested with notch filter on fundamental -> Pass
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 02/01/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

Detector: Peak	List of values: Selected by hand

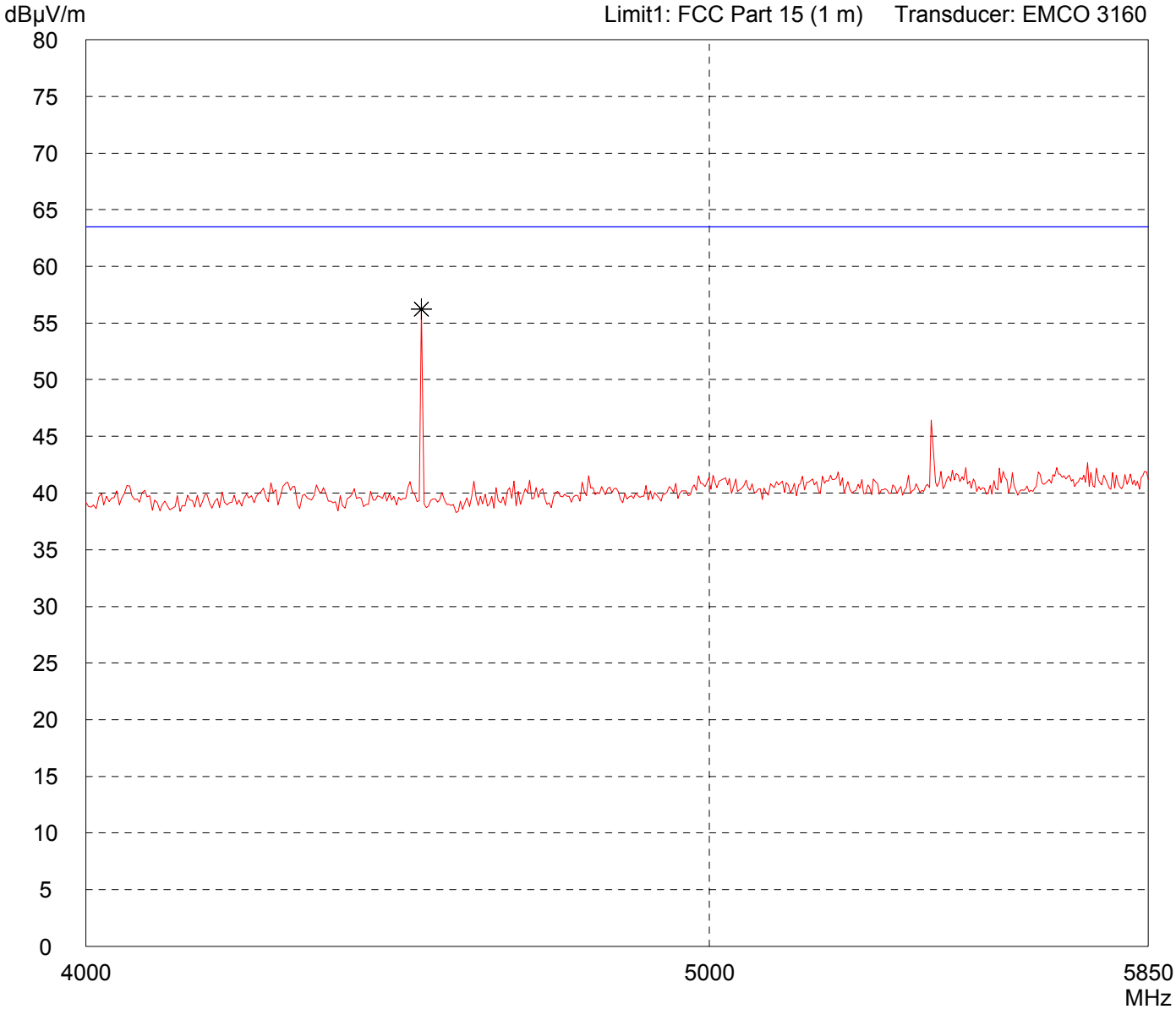


Result: Limit not kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 902.20 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 02/05/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	

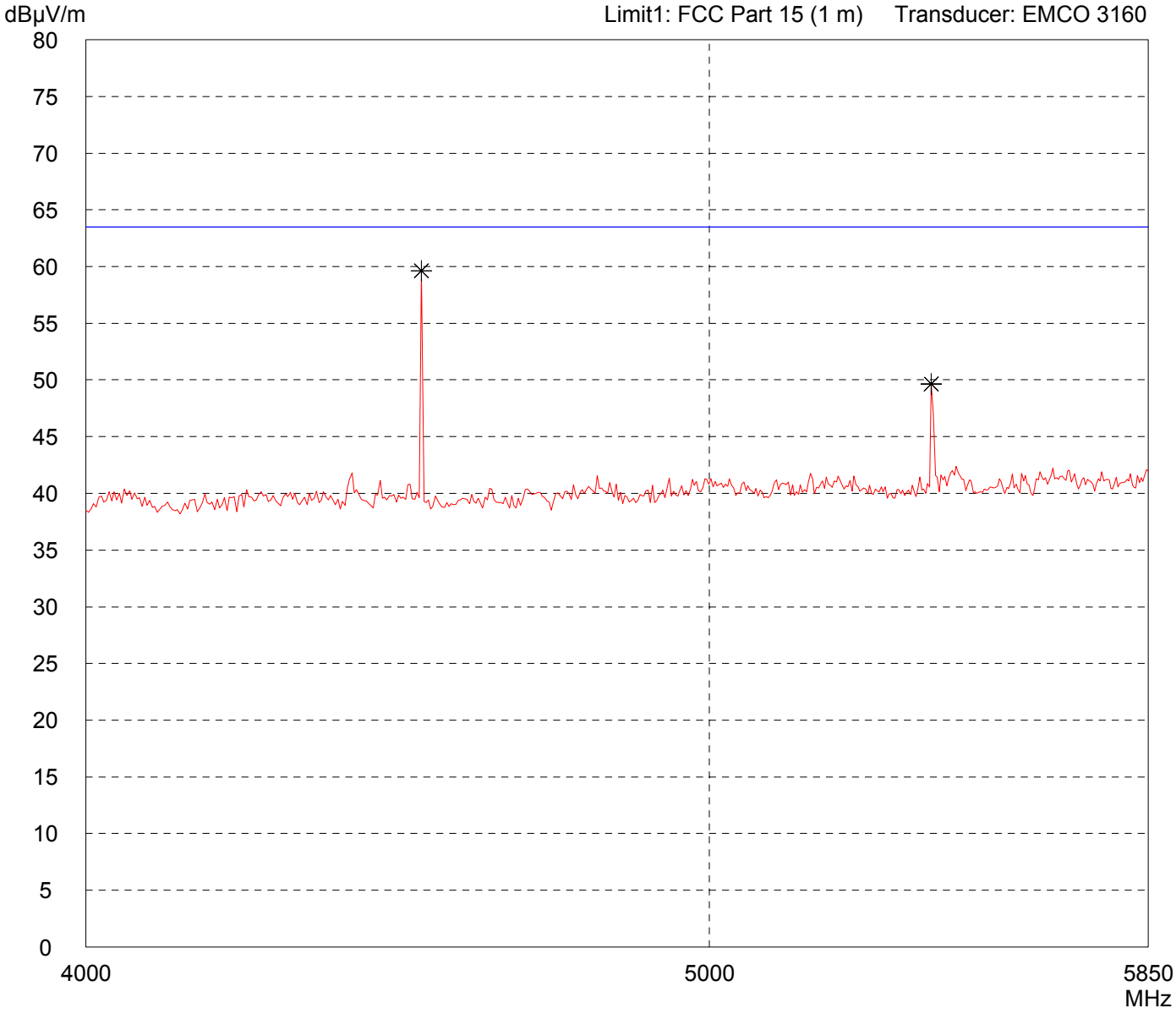
Detector: Peak	List of values: 10 dB Margin / 50 Subranges



Result: Limit kept	Project file: 56109-61084 / Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 902.20 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 02/05/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand



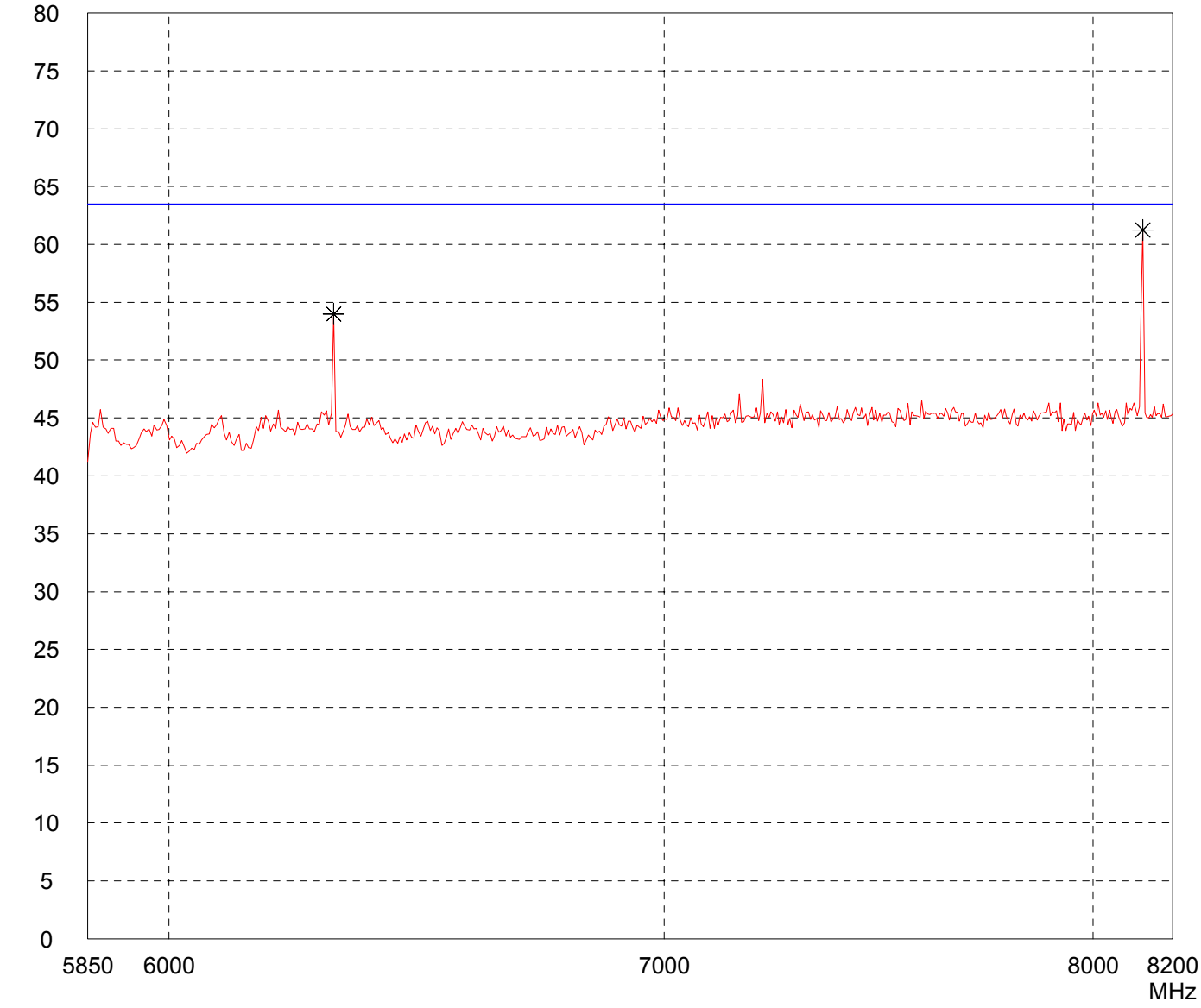
Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at Low Channel - Antenna: SG101NT-915
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 06/13/2007 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

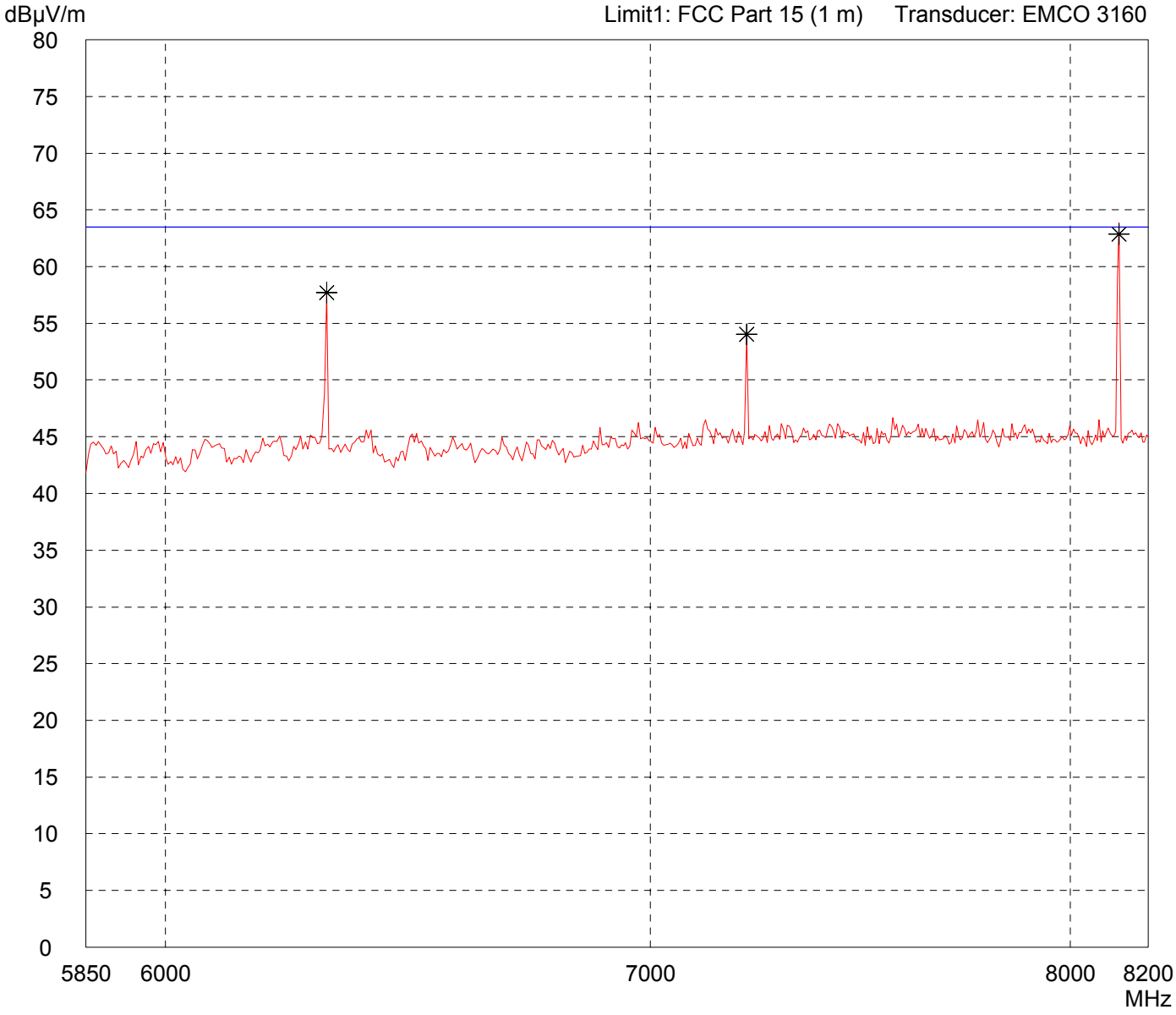
dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160



Result: Limit kept	Project file: 56109-61084-2 Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at Low Channel - Antenna: SG101NT-915
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 06/13/2007 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand

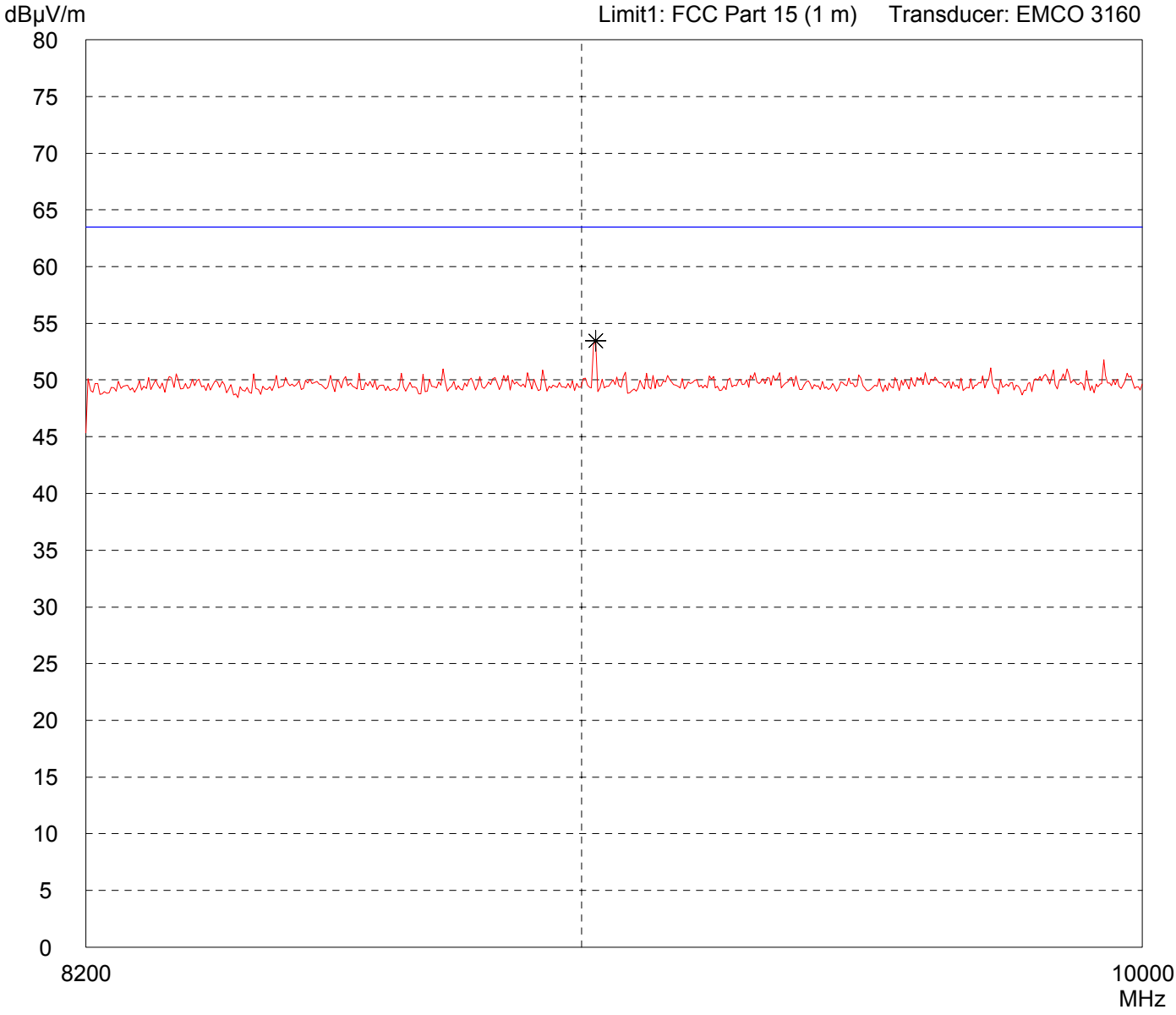


Result: Limit kept	Project file: 56109-61084-2 Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 902.20 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 02/02/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

Detector: Peak	List of values: Selected by hand

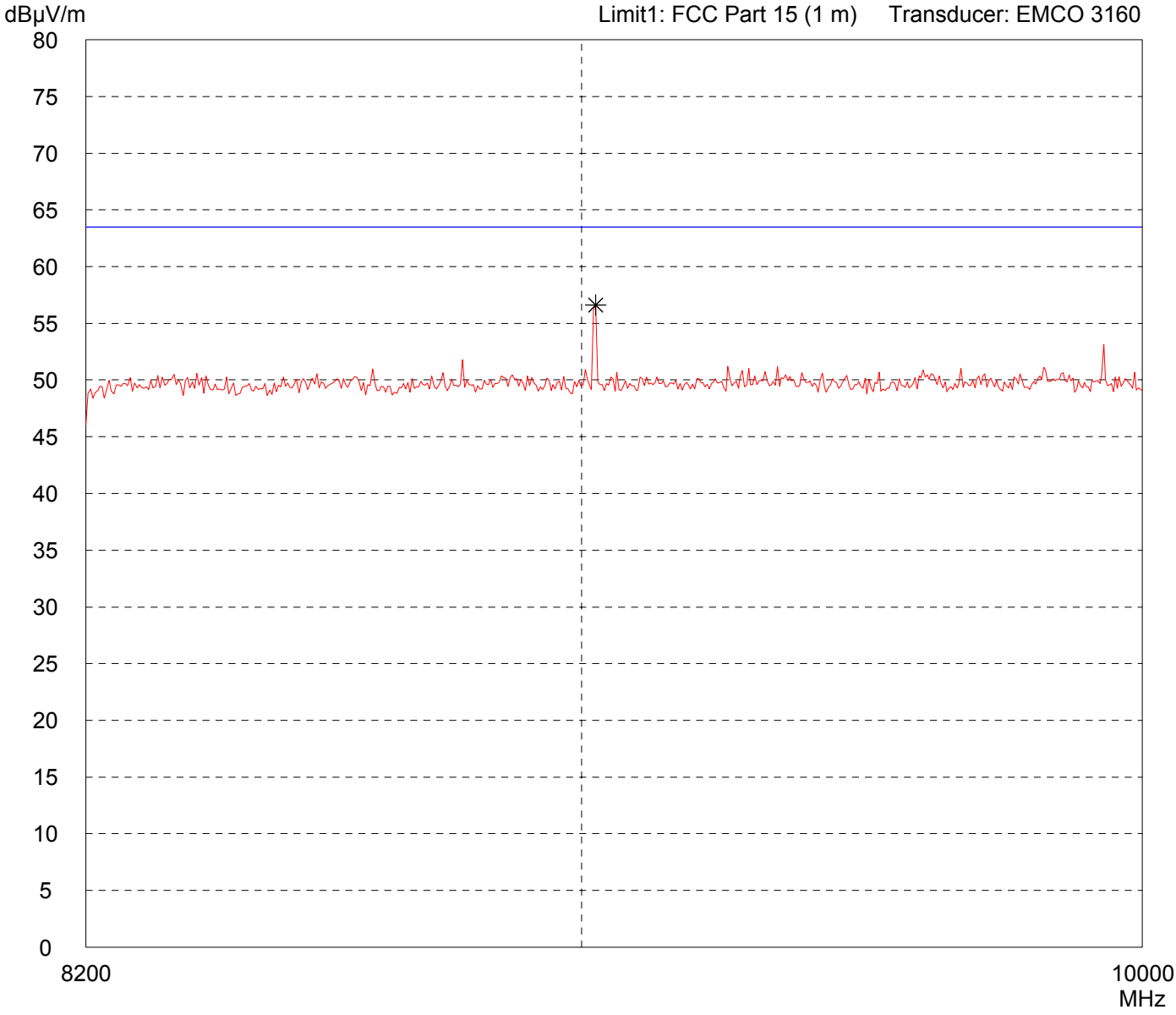


Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 902.20 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 02/02/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	

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

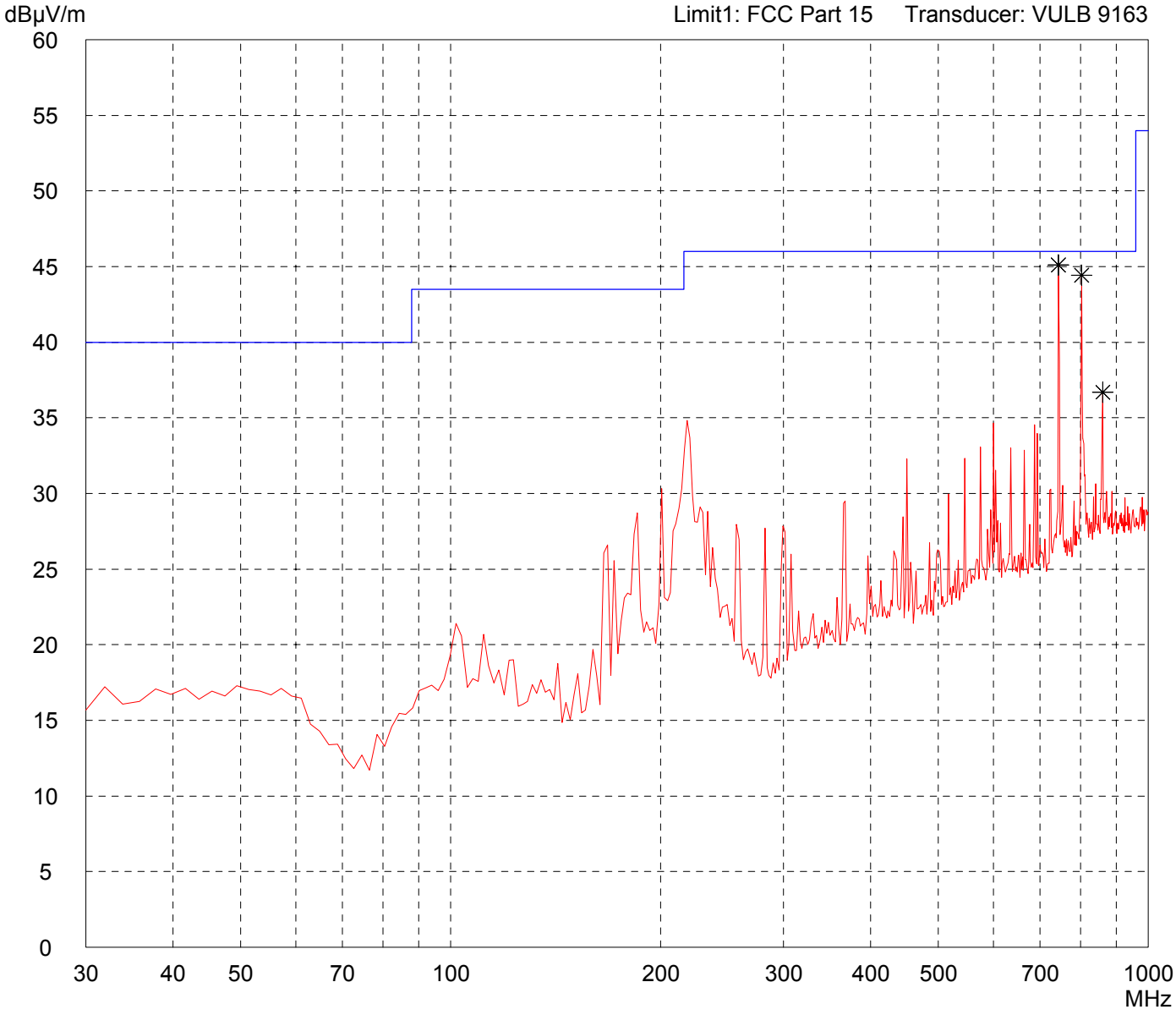


Result: Limit kept	Project file: 56109-61084 Page of Pages

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

Model: AC4490LR-200M	Comment: - TX at 915.38 MHz - Antenna: SG101NT-915 - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/30/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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

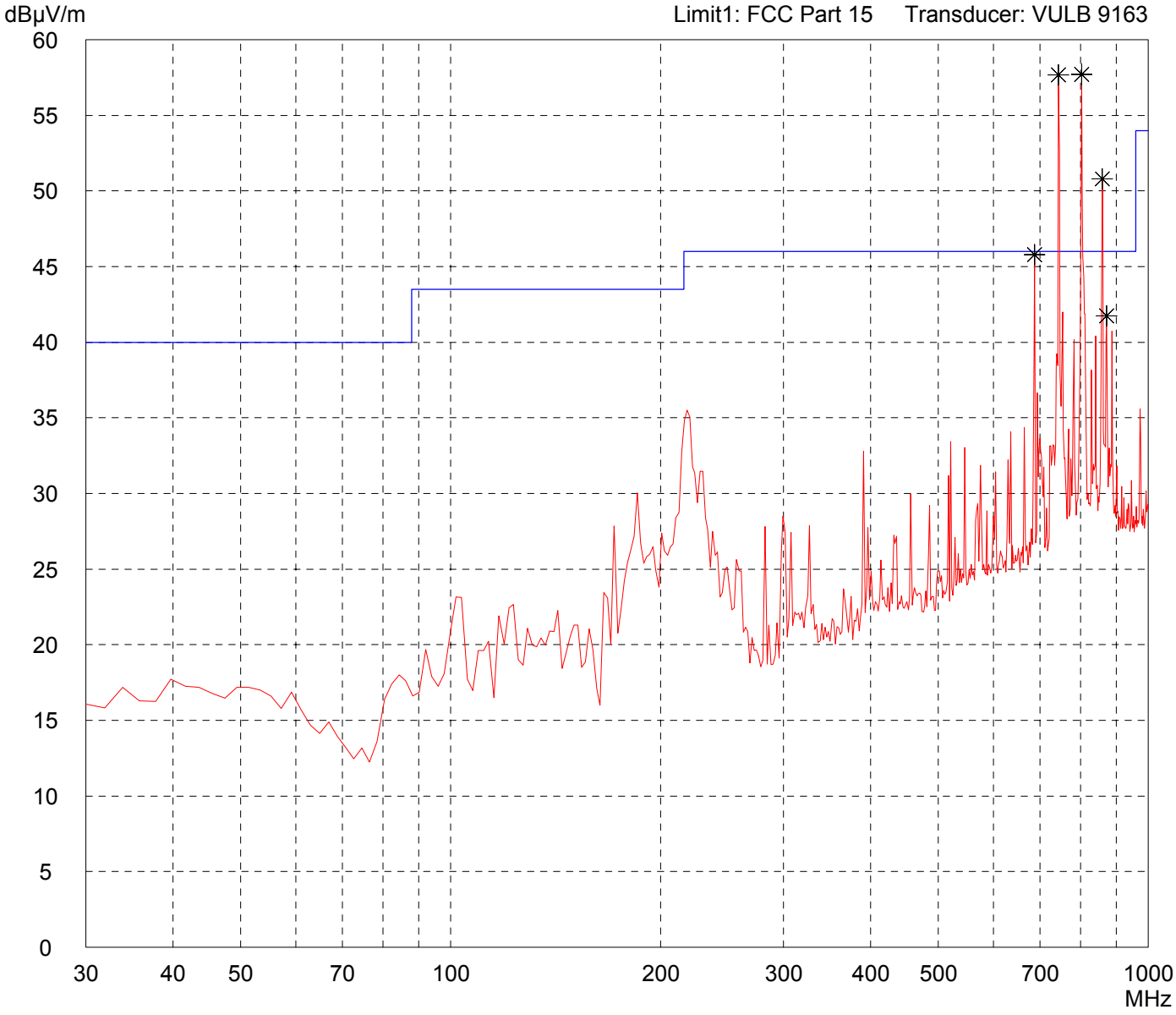


Result: Prescan	Project file: 56109-61084 — Page of Pages

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

Model: AC4490LR-200M	Comment: - TX at 915.38 MHz - Antenna: SG101NT-915 - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/30/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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

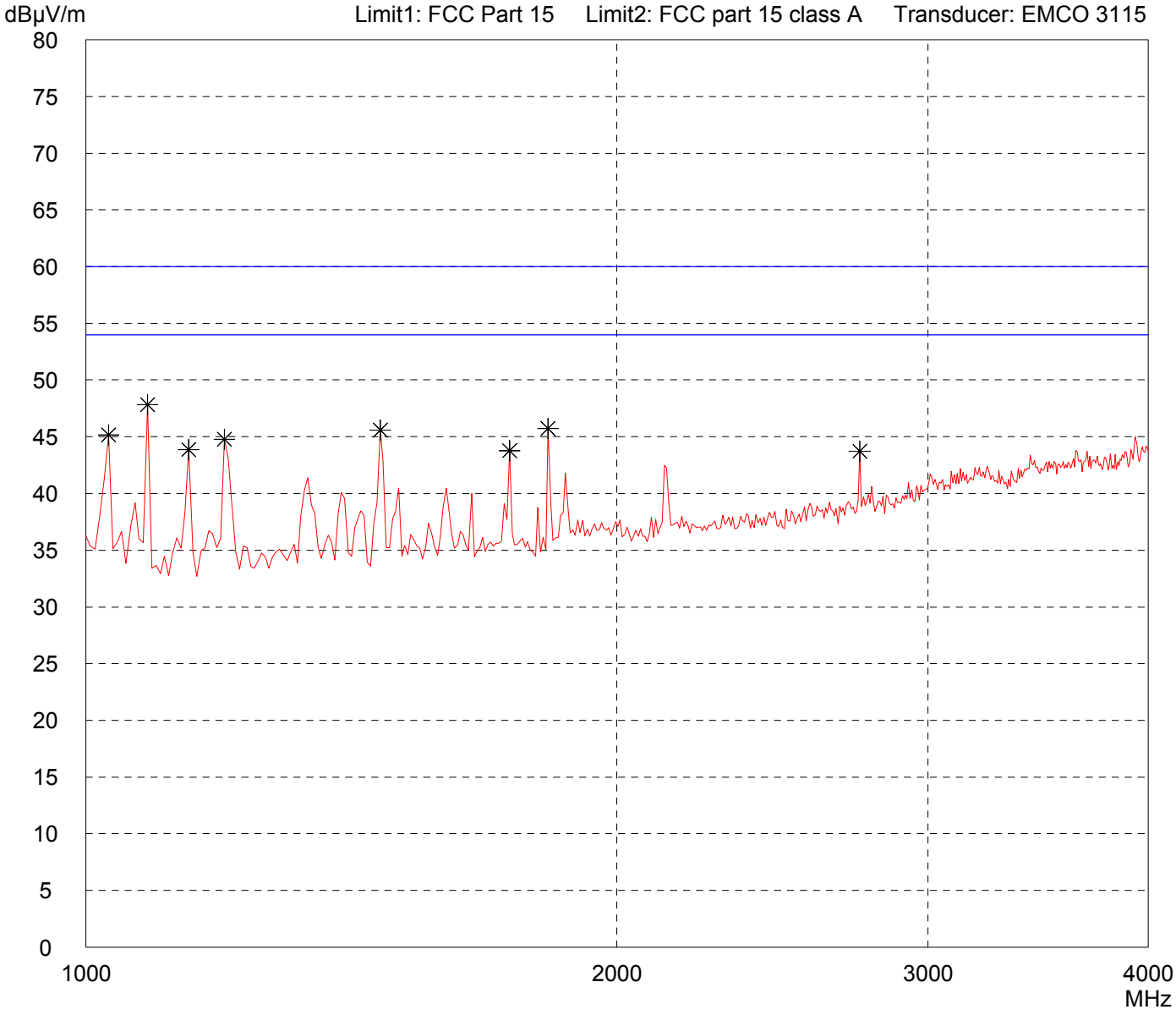


Result: Prescan	Project file: 56109-61084 — Page of Pages

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

Model: AC4490LR-200M	Comment: - TX at 915.38 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 02/01/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

Detector: Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56109-61084 Page of Pages

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

Model:
AC4490LR-200M

Serial no.:
Test Sample #1

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 02/01/2007

Operator: A. Stübinger

Test performed: automatically

File name: default.emi

Comment:

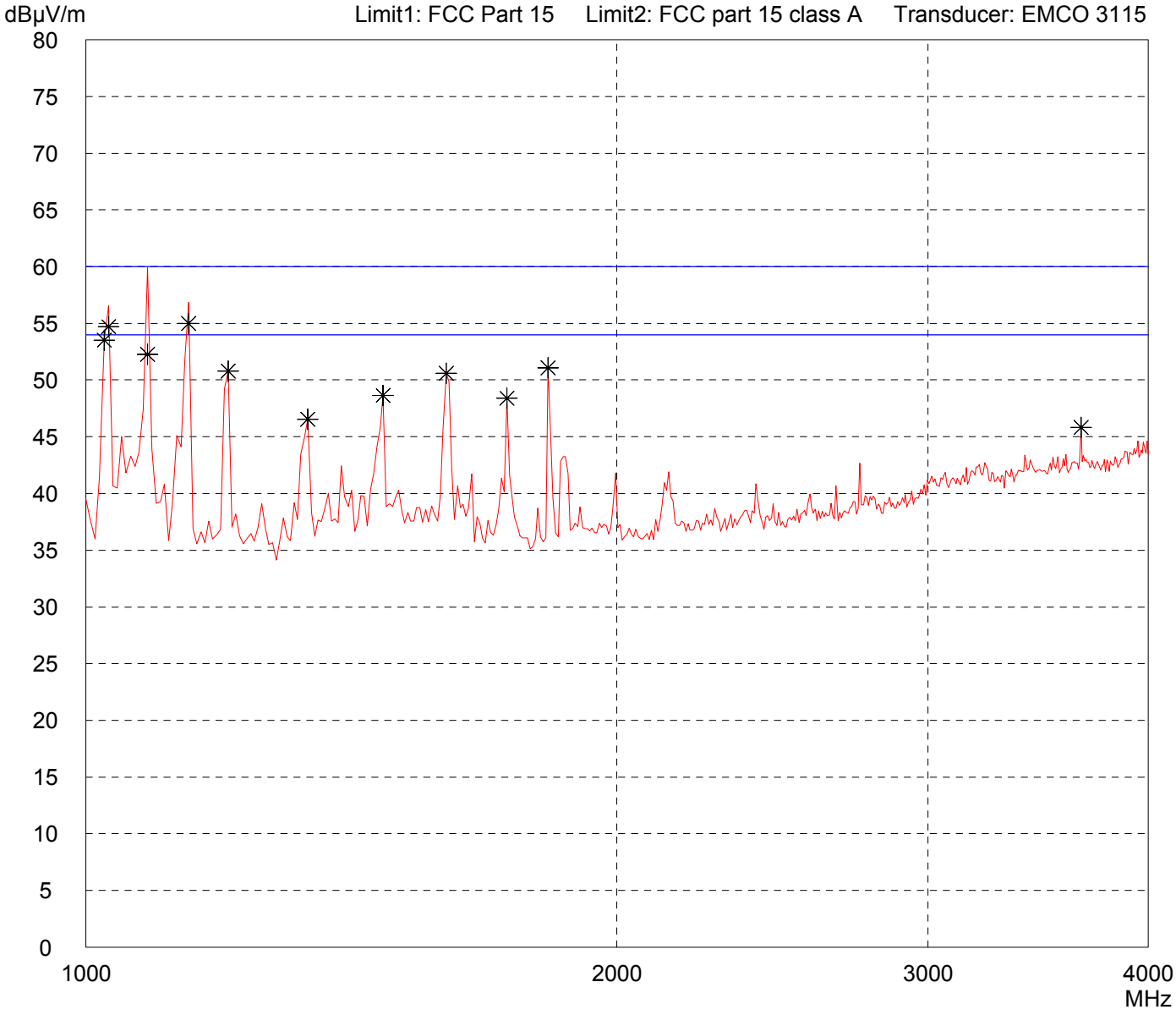
- TX at 915.38 MHz

- Antenna: SG101NT-915

Note: Failing emission retested with notch filter on funfamental -> Pass

Detector:
Peak (AV manual)

List of values:
Selected by hand



Result:
Limit not kept

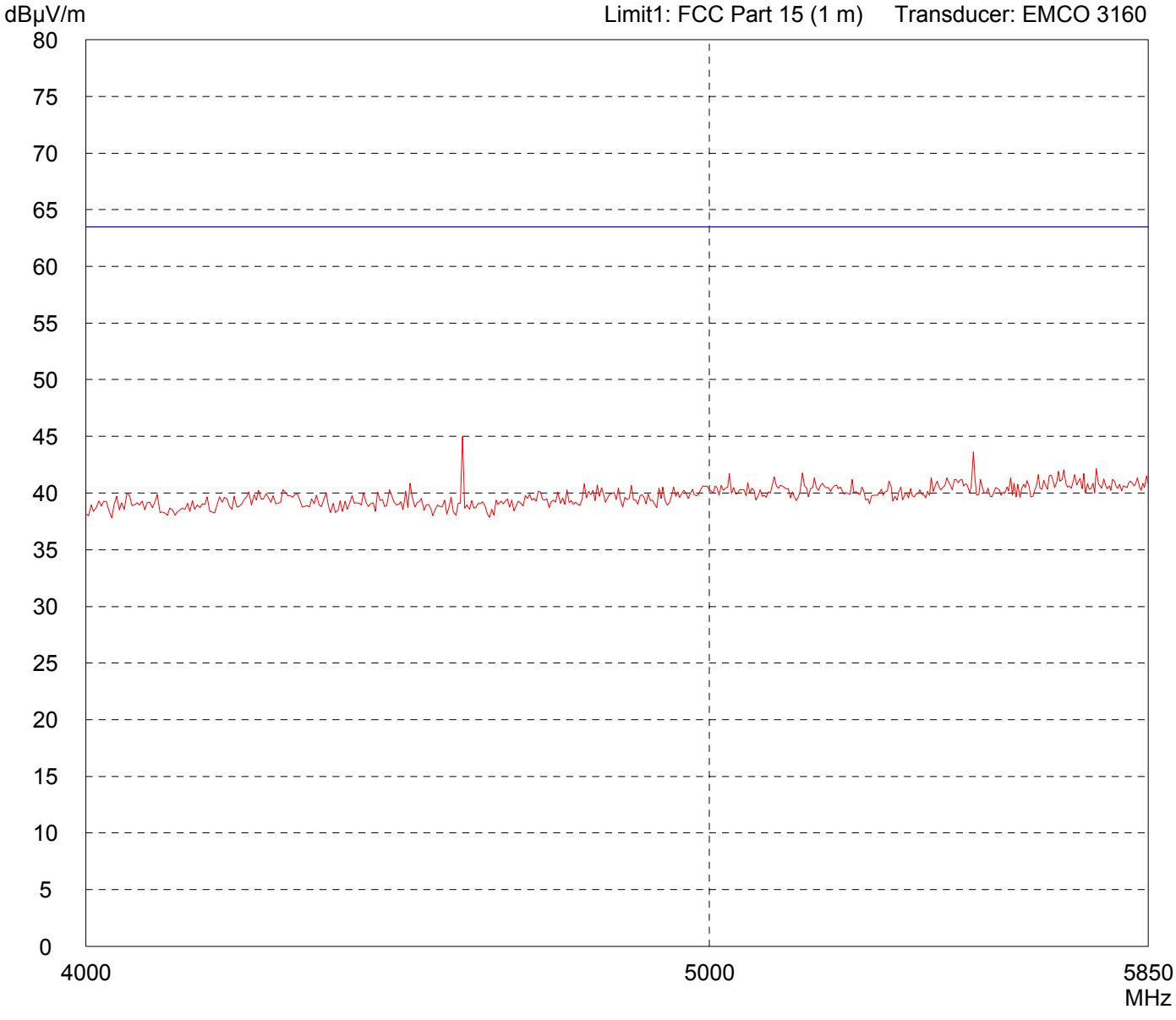
Project file:
56109-61084

Senton GmbH / Aeussere Fruehlingstrasse 45 / D-94315 Straubing / Germany / Tel. +49 (0)9421 5522-0 / Fax +49 (0)9421 5522-99

Radiated Emission Test 4 GHz - 5.85 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 915.37 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 02/02/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	

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

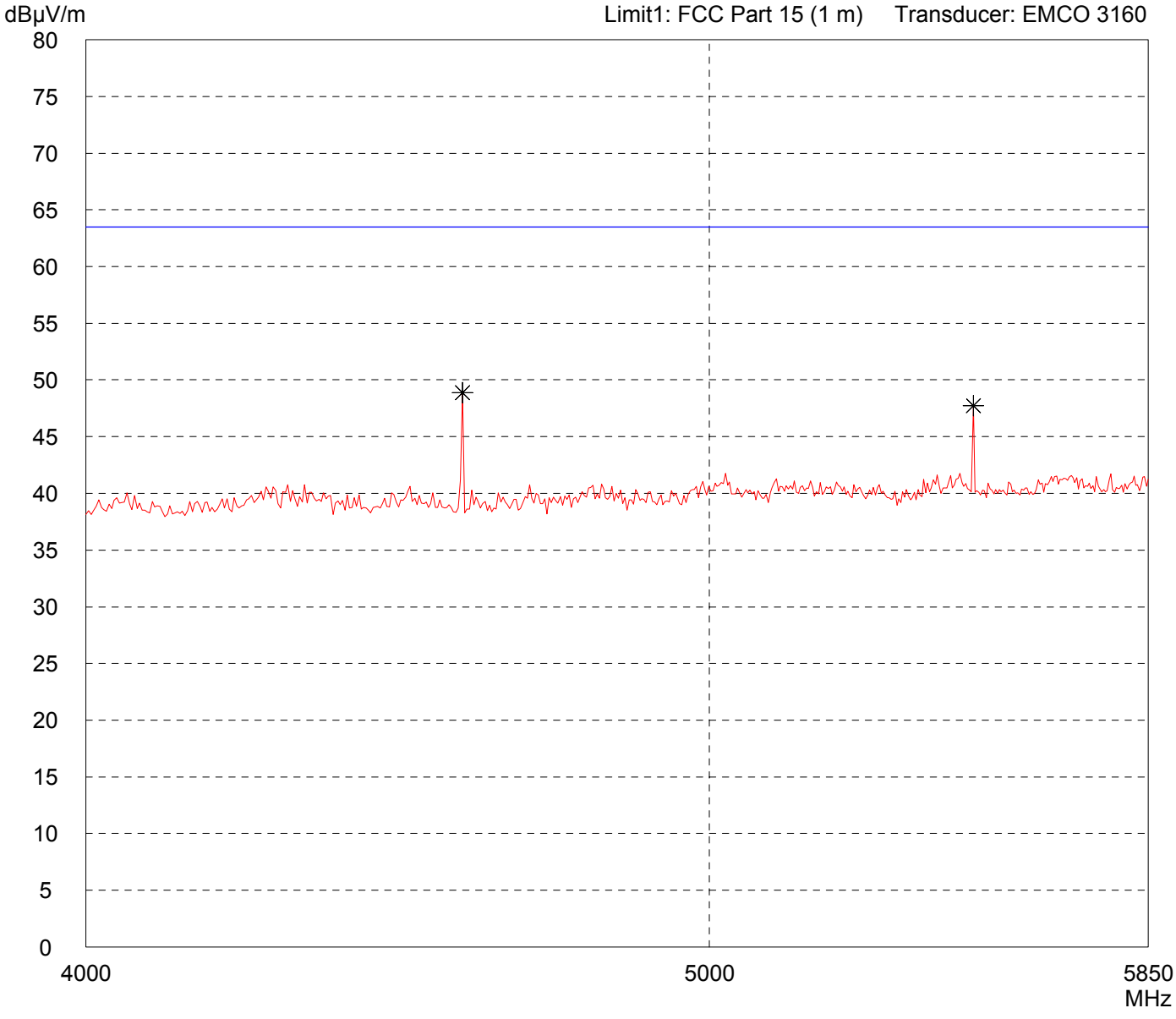


Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 915.37 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 02/02/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

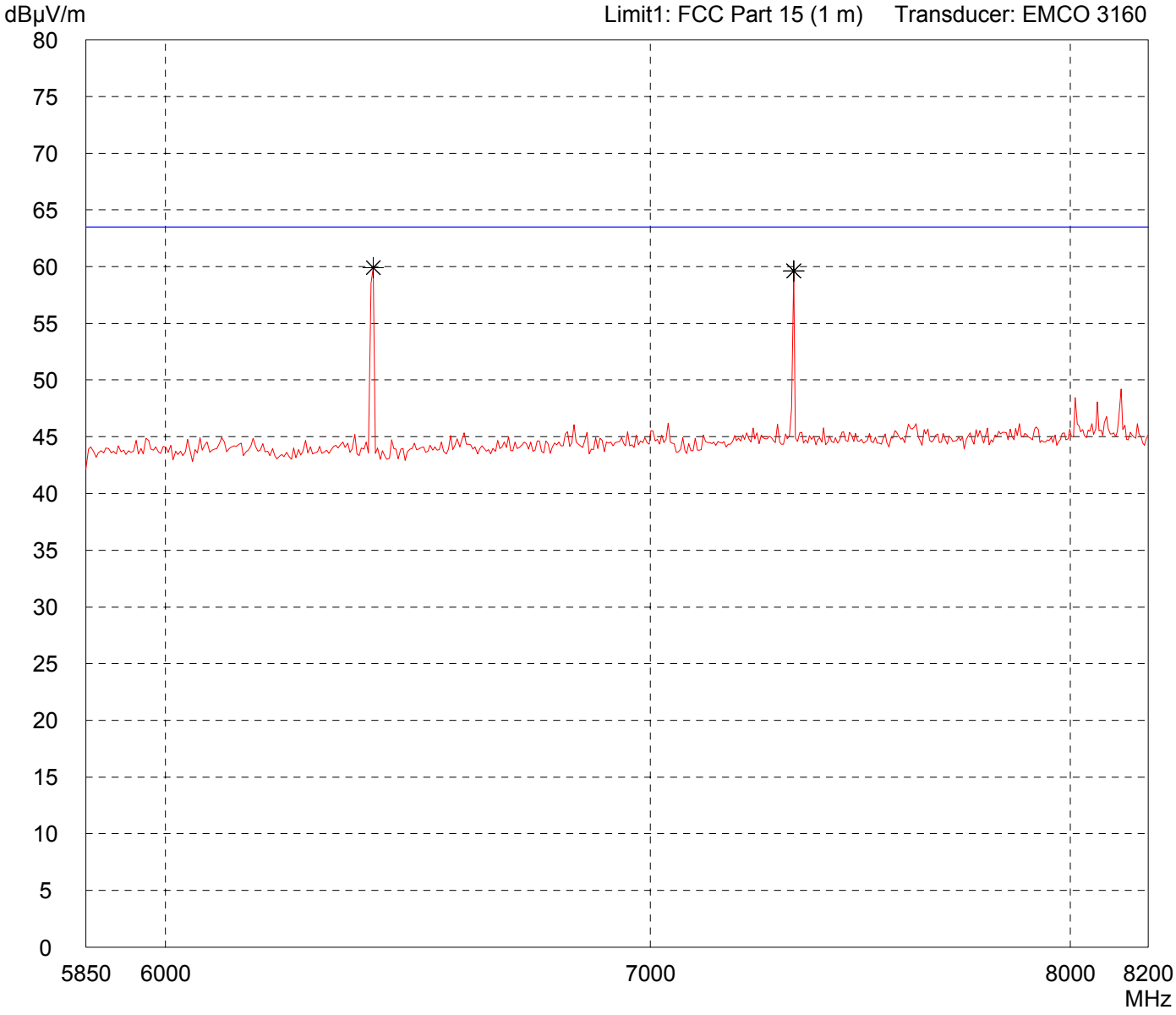


Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 915.37 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 02/02/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	

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

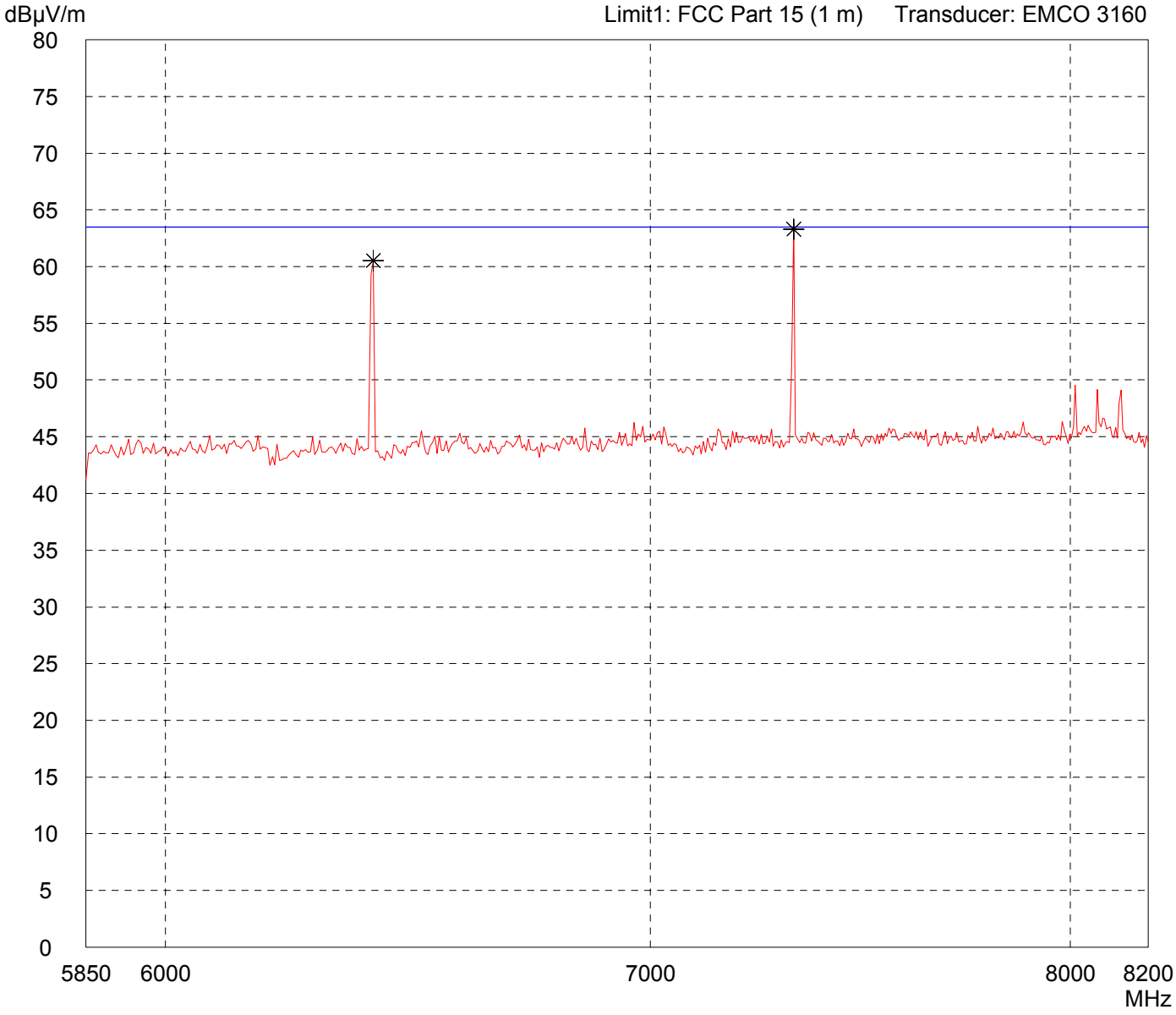


Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 915.37 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 02/02/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

Detector: Peak	List of values: Selected by hand



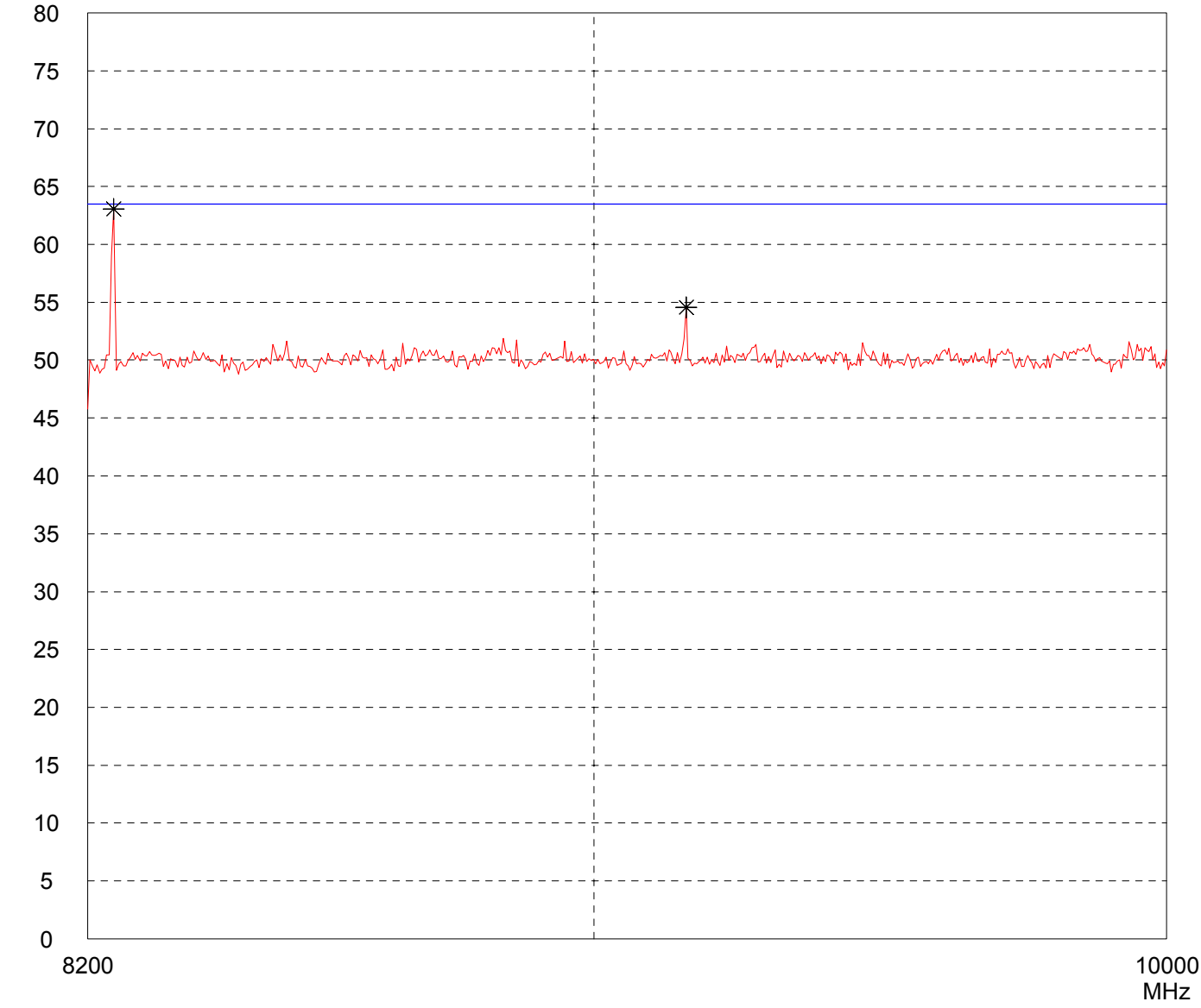
Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at Middle Channel - Antenna: SG101NT-915
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 06/13/2007 — 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

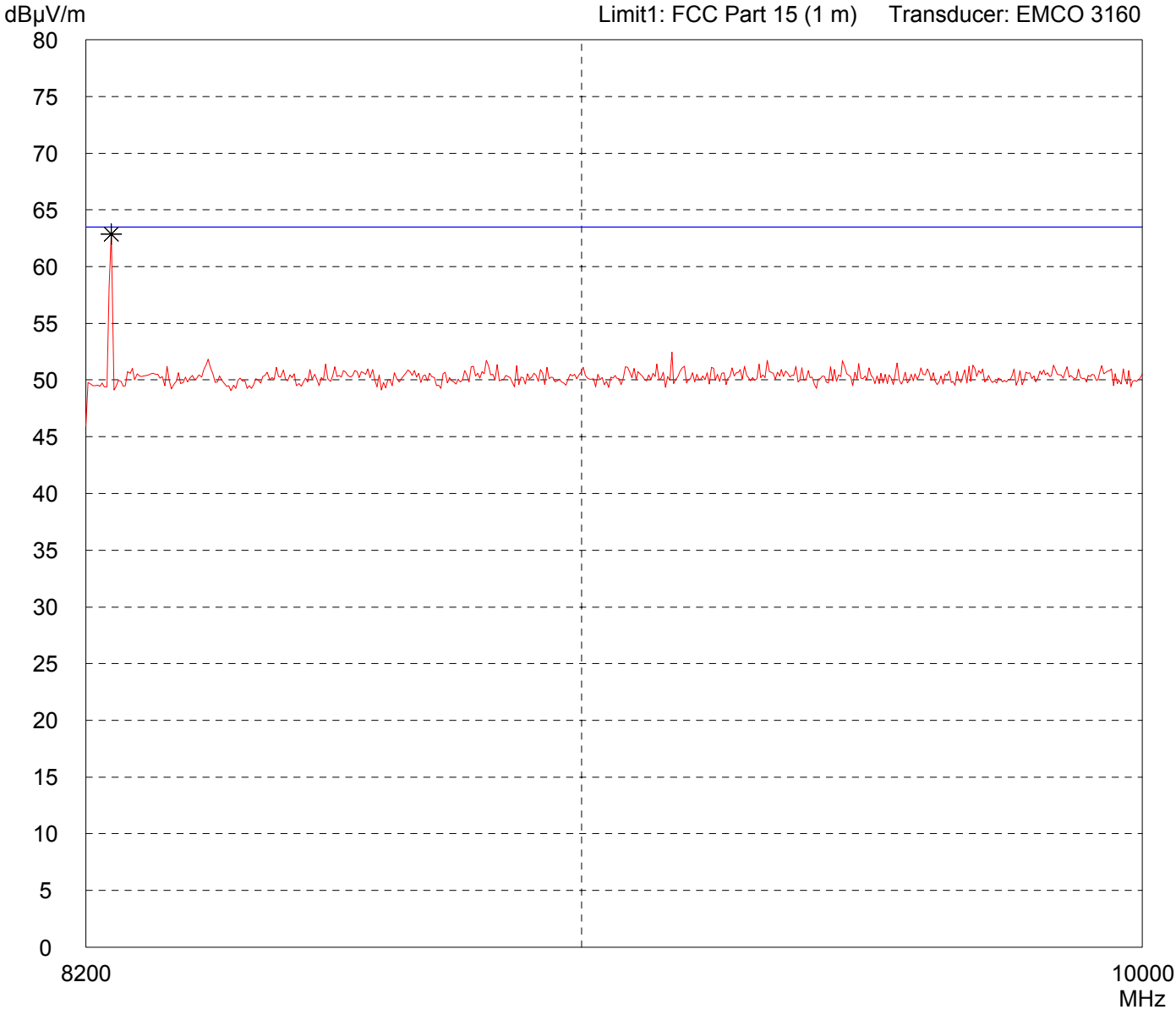


Result: Limit kept	Project file: 56109-61084-2 — Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: TX at Middle Channel - Antenna: SG101NT-915 Notch Filter on Fundamental
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 06/13/2007 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

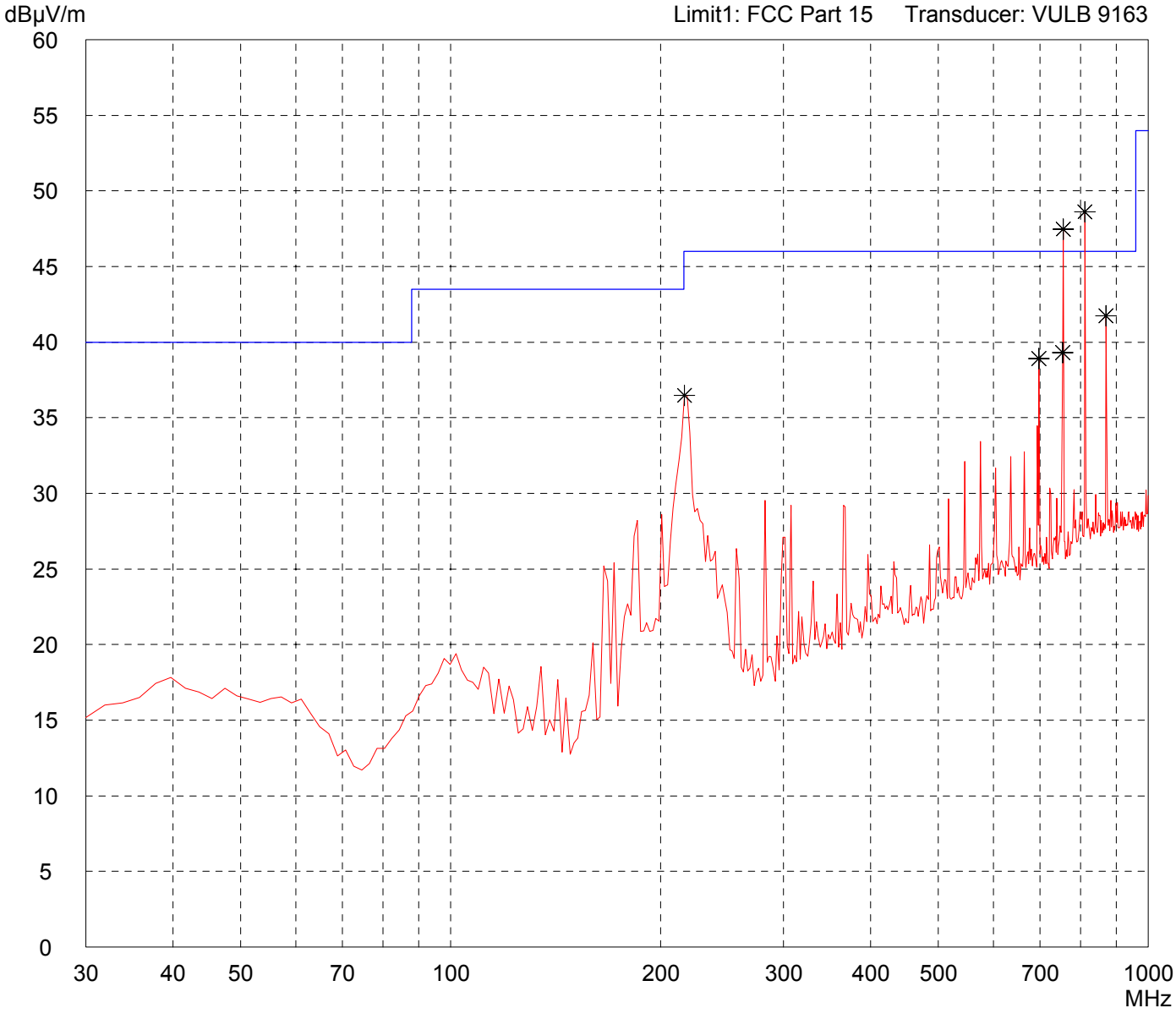


Result: Limit kept	Project file: 56109-61084-2 Page of Pages

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

Model: AC4490LR-200M	Comment:
Serial no.: Test Sample #1	- TX at 927.50 MHz
Applicant: AEROCOMM, Inc.	- Antenna: SG101NT-915
Test site: Fully anechoic room, cabin no. 2	- Notch Filter at Fundamental frequency
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/30/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	

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

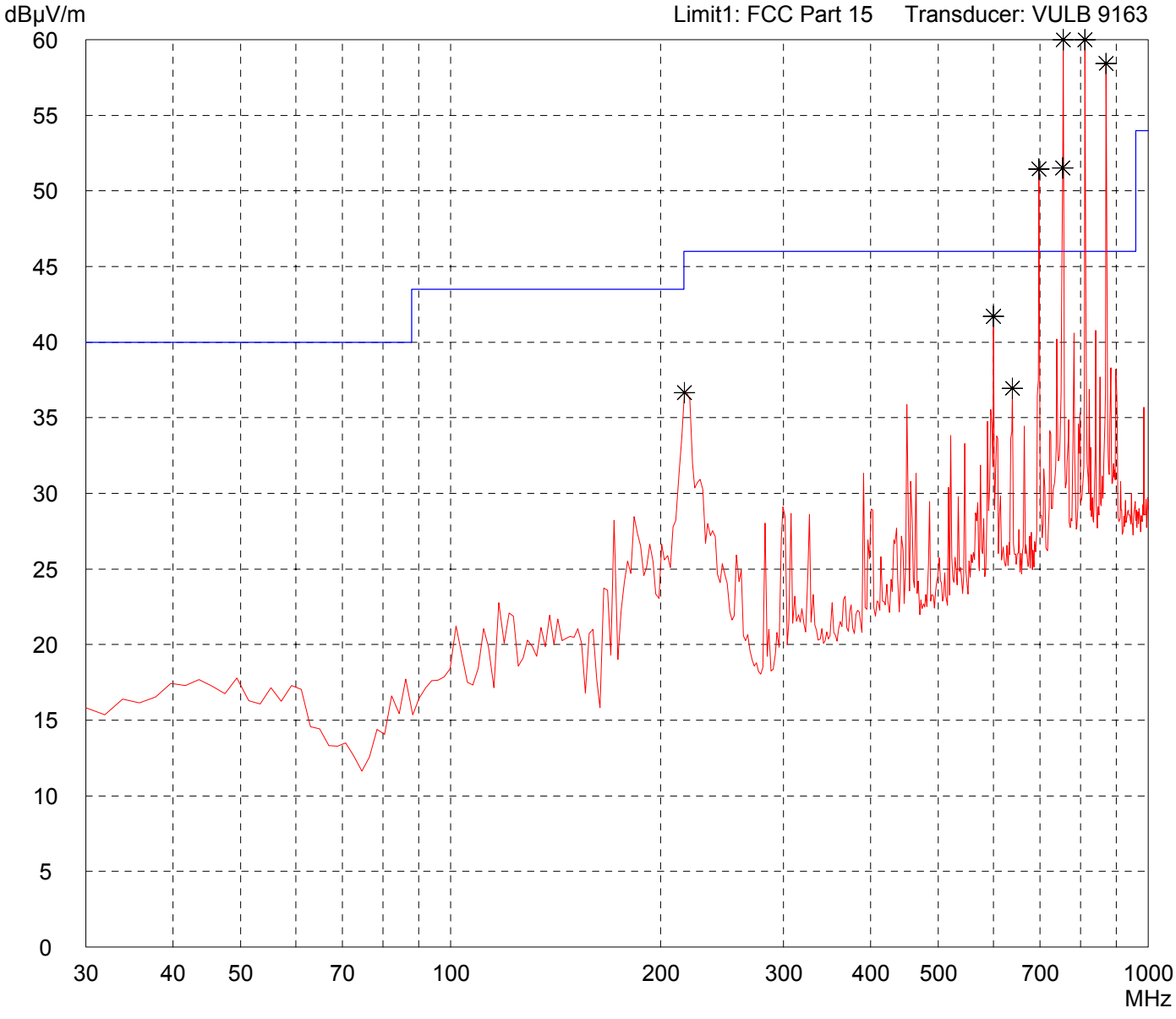


Result: Prescan	Project file: 56109-61084 Page of Pages

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

Model: AC4490LR-200M	Comment: - TX at 927.50 MHz - Antenna: SG101NT-915 - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/30/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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

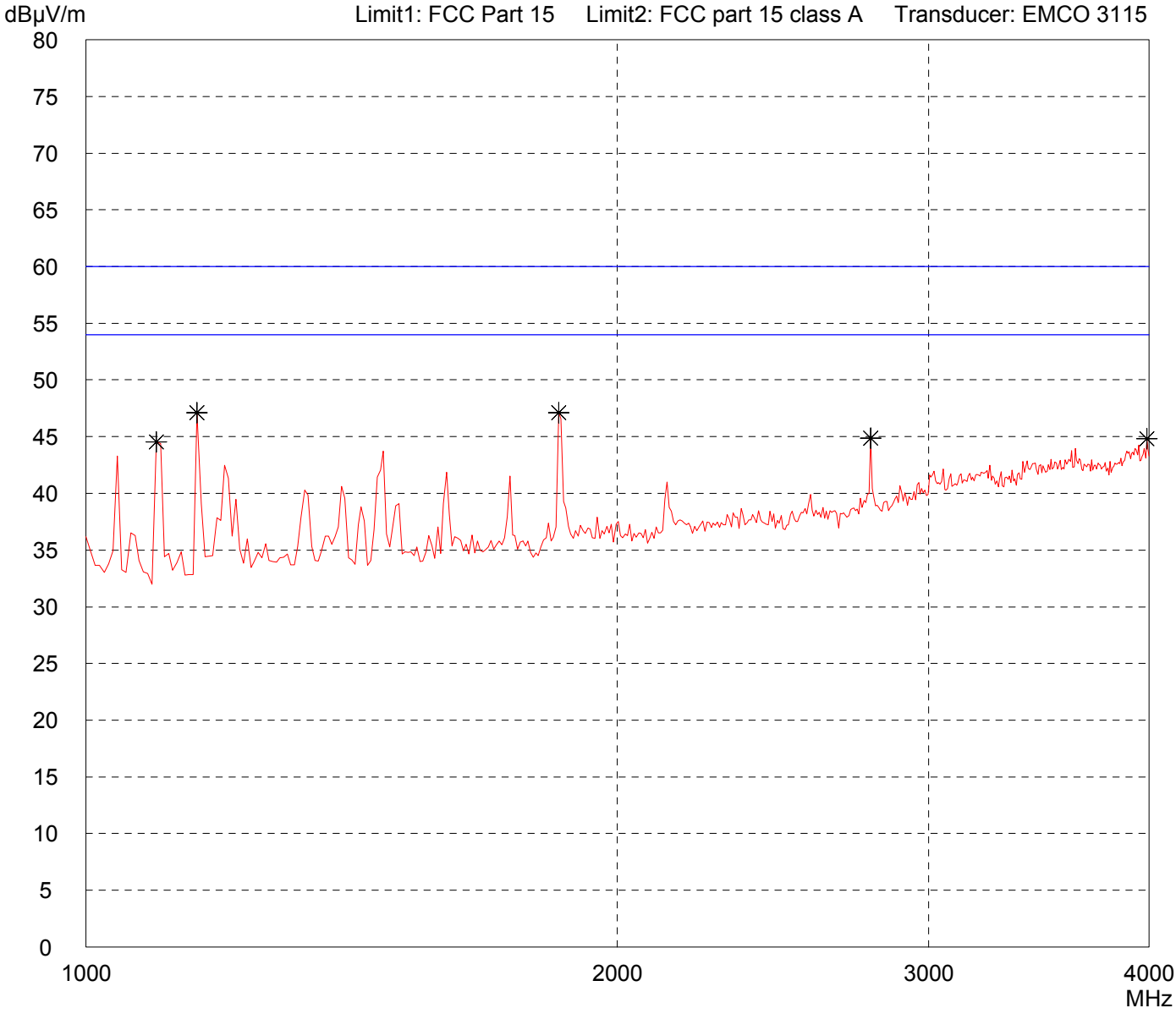


Result: Prescan	Project file: 56109-61084 — Page of Pages

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

Model: AC4490LR-200M	Comment: - TX at 927.50 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 02/01/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

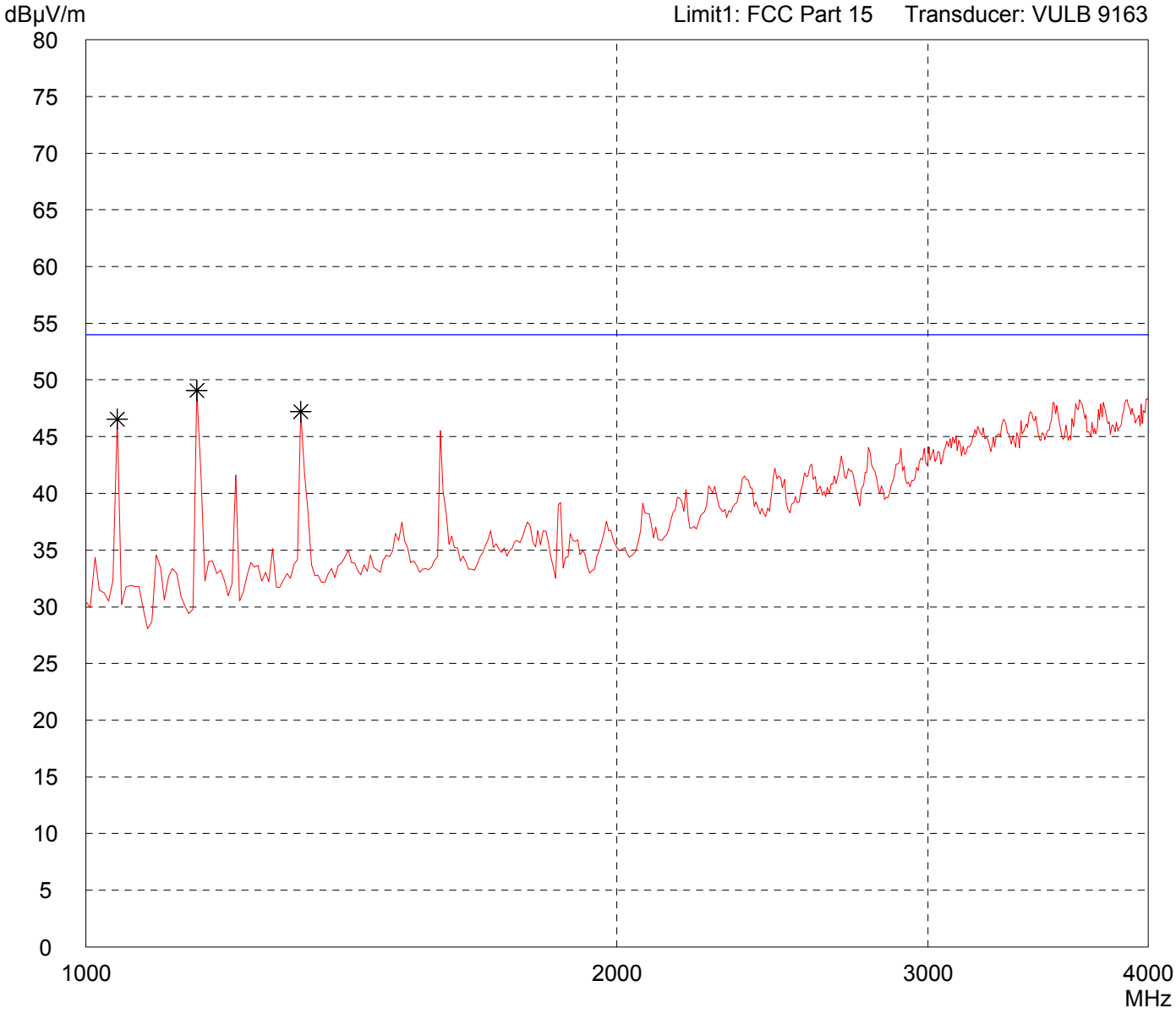
Detector: Peak	List of values: 16 dB Margin — 50 Subranges



Result: Limit kept	Project file: 56109-61084 — Page of Pages

Radiated Emission Test 1 GHz - 4 GHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

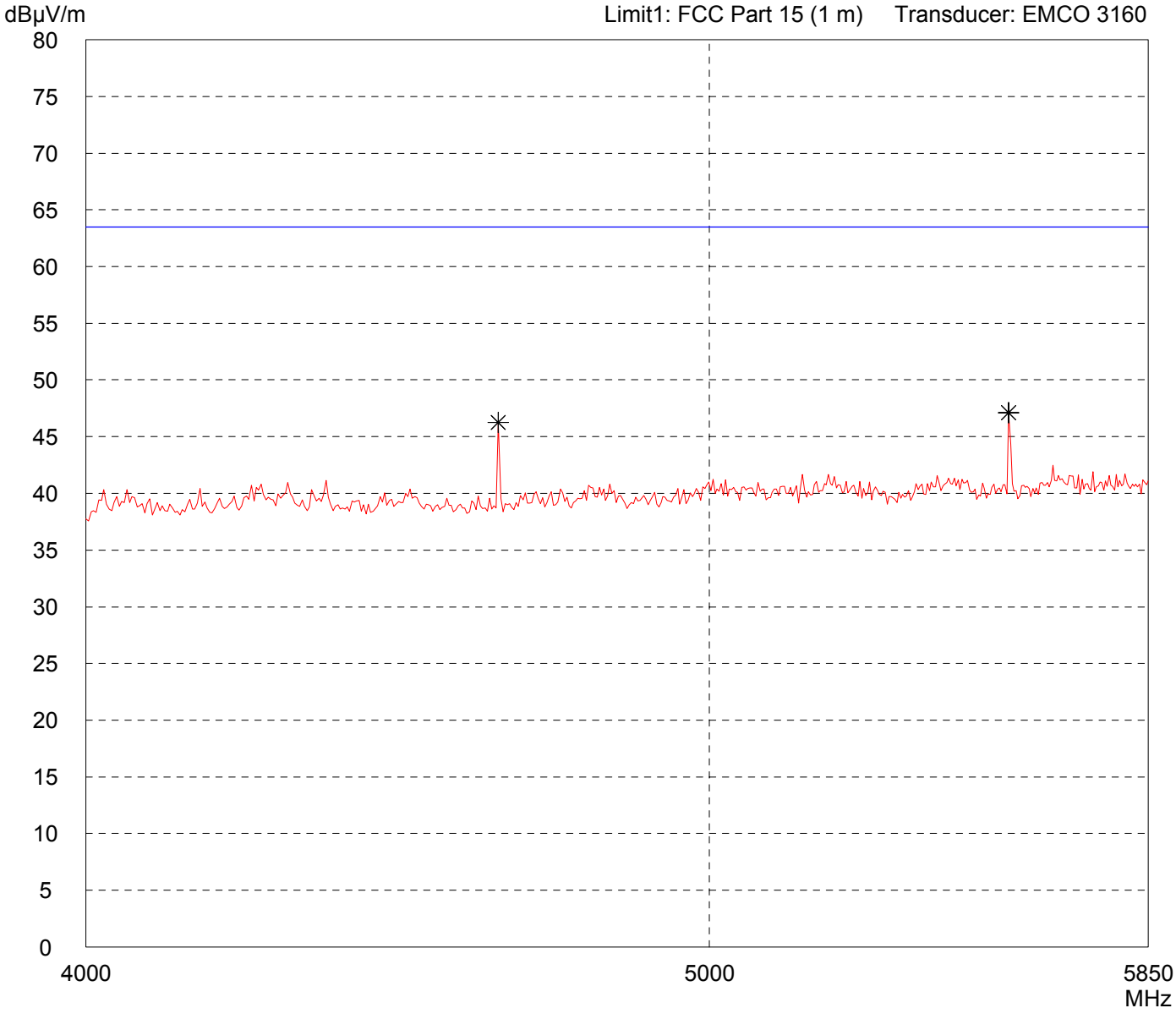
Model: AC4490LR-200M	Comment: TX at High Channel Antenna: SG101NT-915 Notch Filter on Fundamental
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 06/13/2007 — Operator: J. Roidt	
Test performed: automatically — File name: default.emi	
Detector: Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56109-61084-2 Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz
acc. to FCC Part 15 (EMCO 3160)

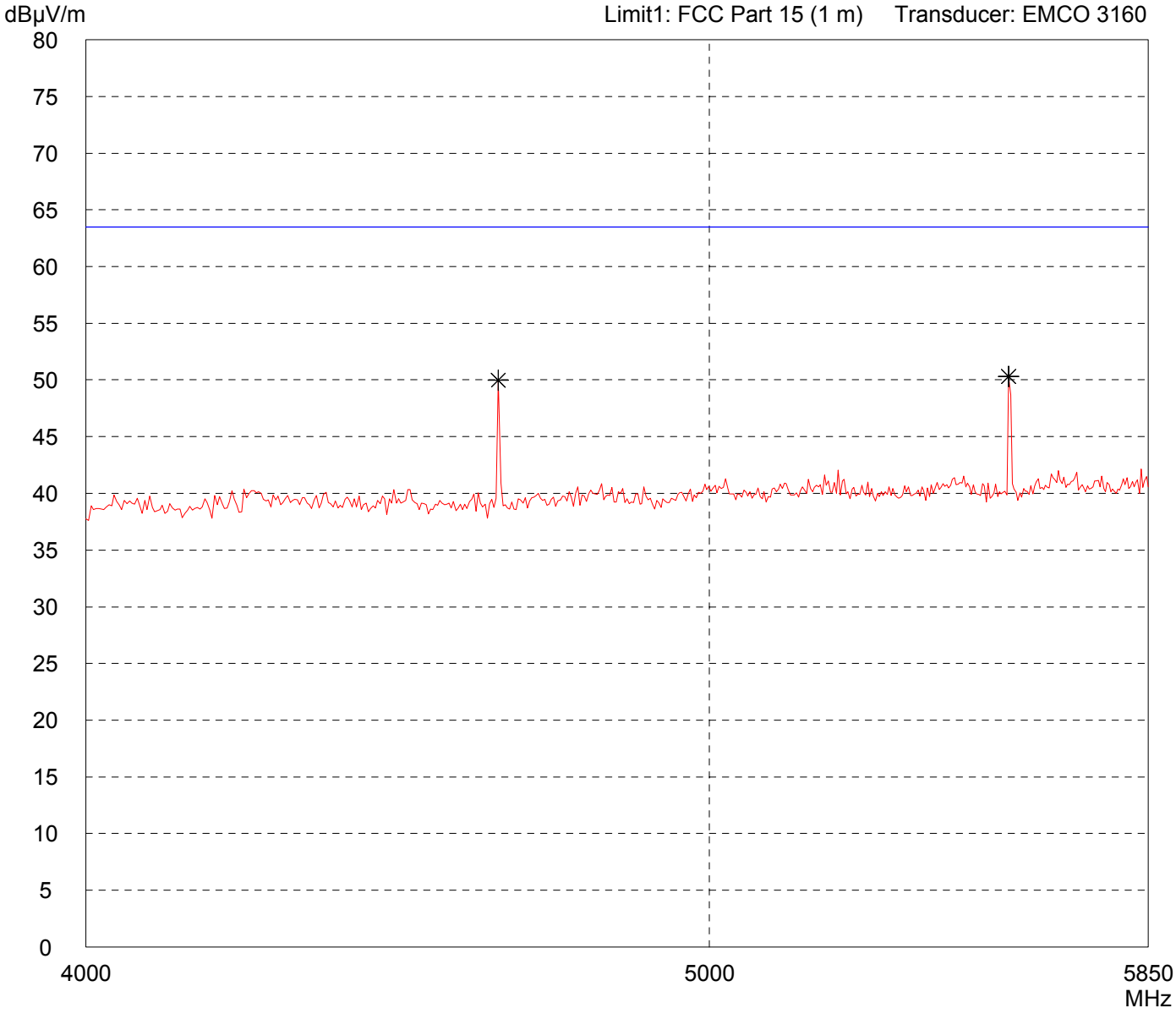
Model: AC4490LR-200M	Comment: - TX at 927.50 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 02/02/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	
Detector: Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 927.50 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 02/02/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand

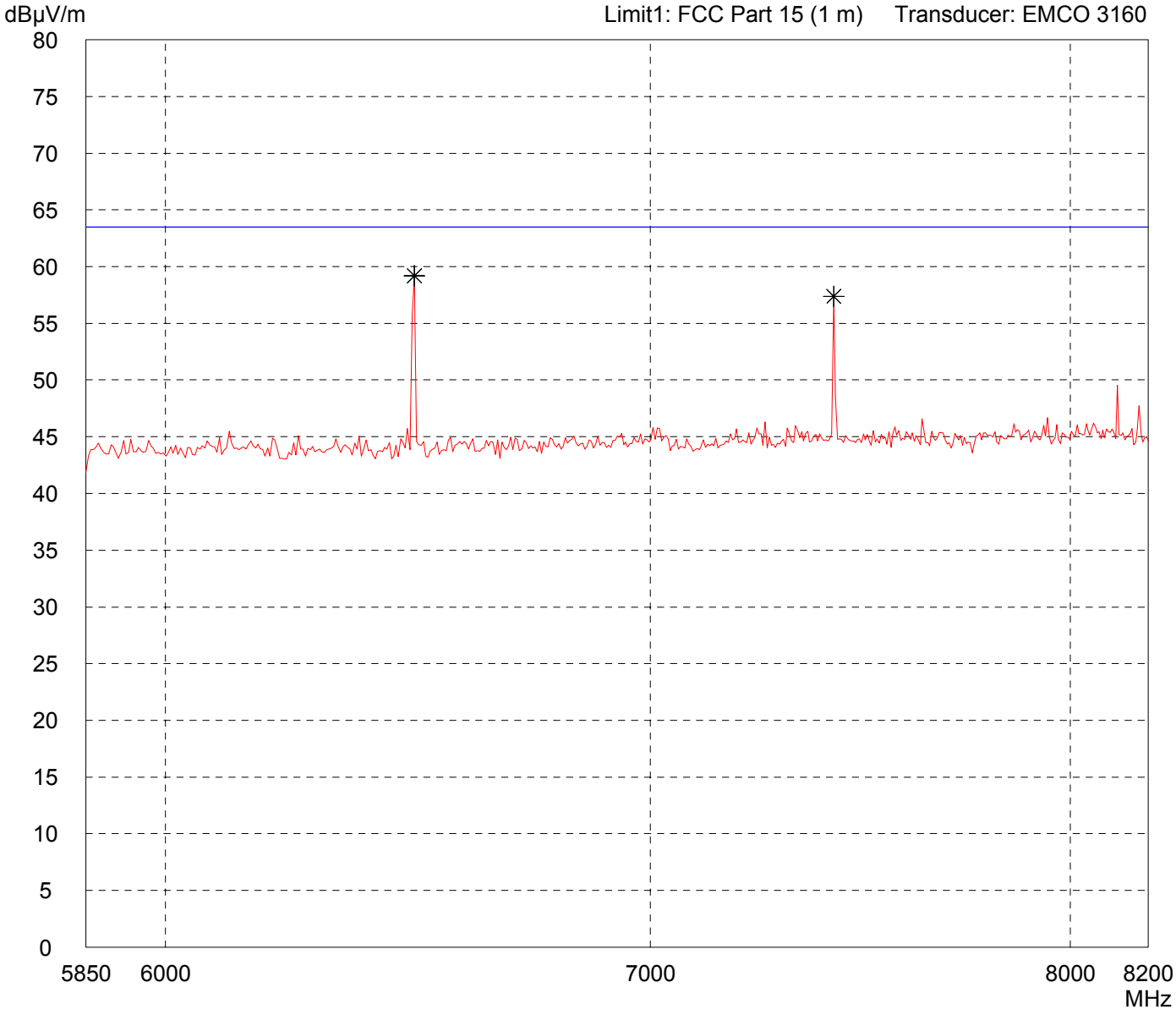


Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 927.50 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 02/02/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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

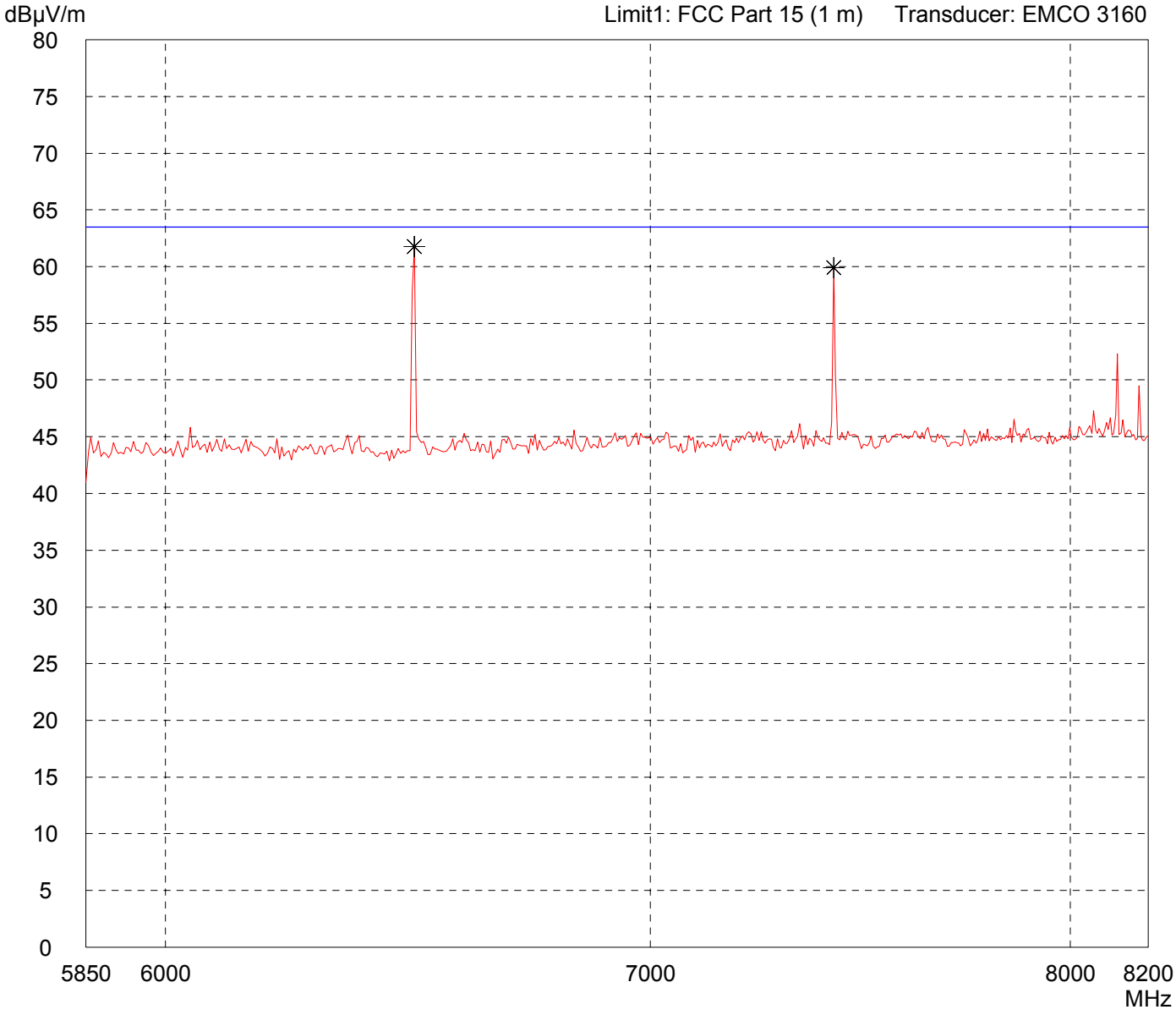


Result: Limit kept	Project file: 56109-61084 — Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at 927.50 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 02/02/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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



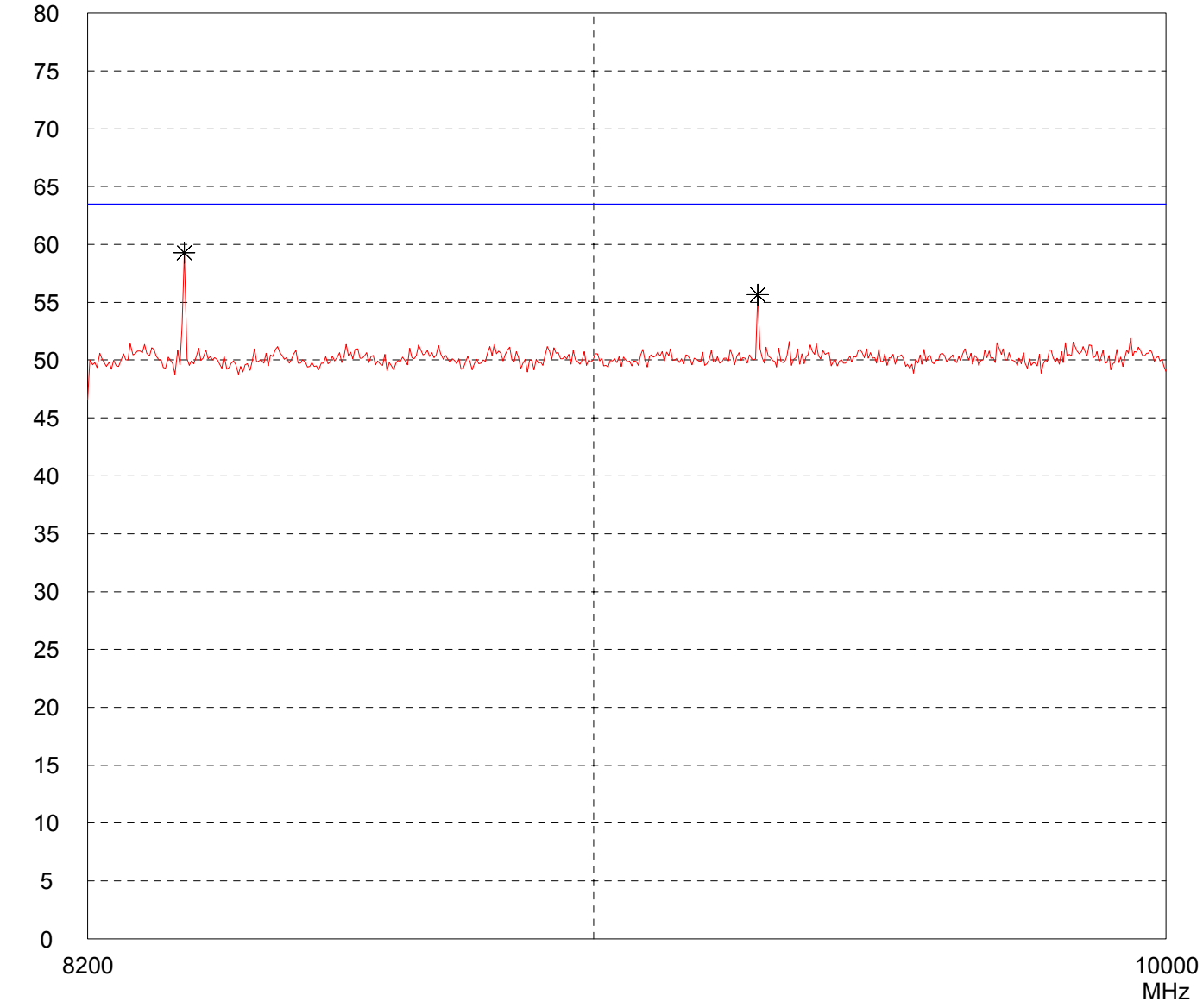
Result: Limit kept	Project file: 56109-61084 — Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - TX at High Channel - Antenna: SG101NT-915
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 06/13/2007 — 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



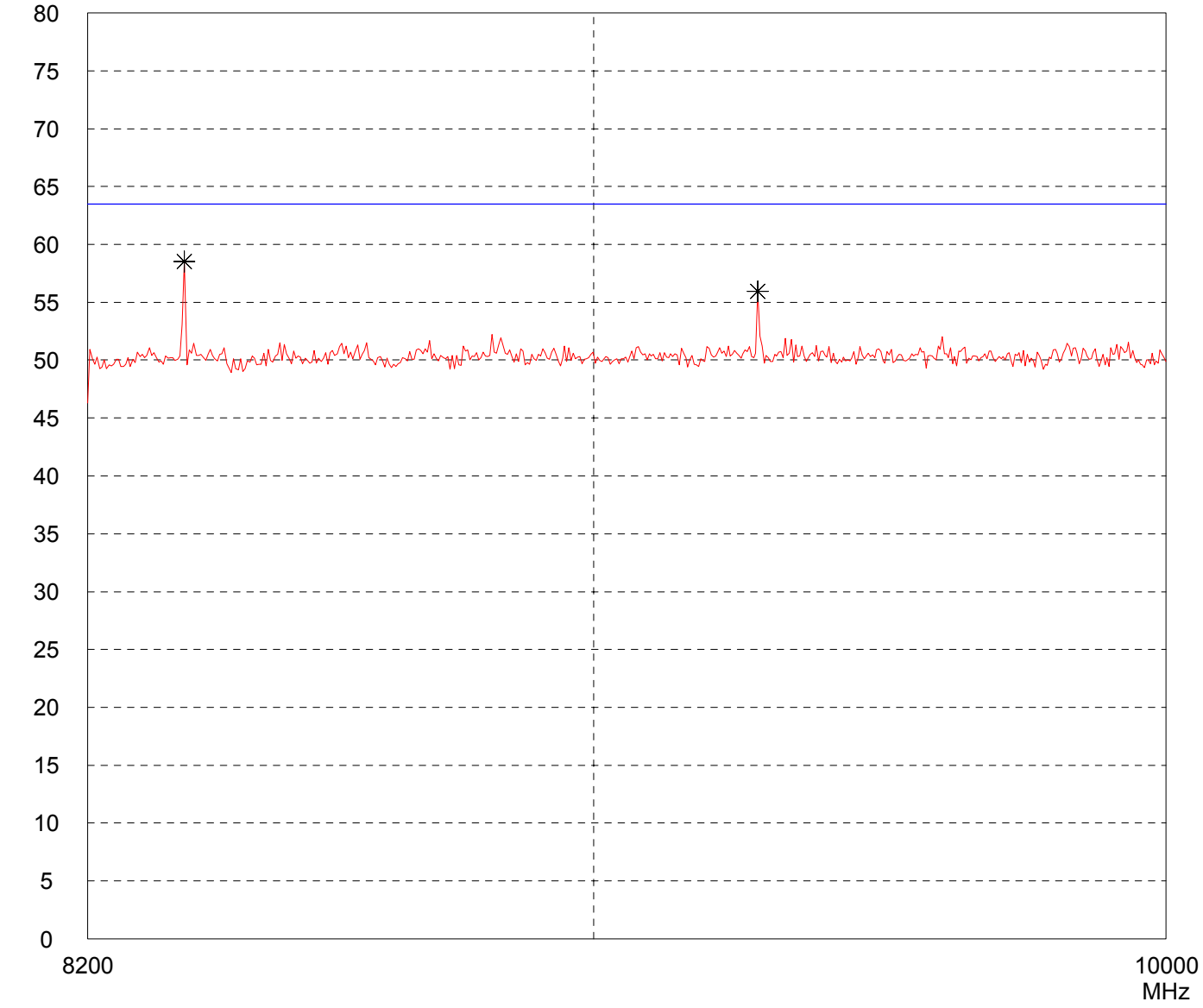
Result: Limit kept	Project file: 56109-61084-2 — Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: TX at High Channel
Serial no.: Prototype	Antenna: SG101NT-915
Applicant: AEROCOMM, Inc.	Notch Filter on Fundamental
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 06/13/2007 / 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

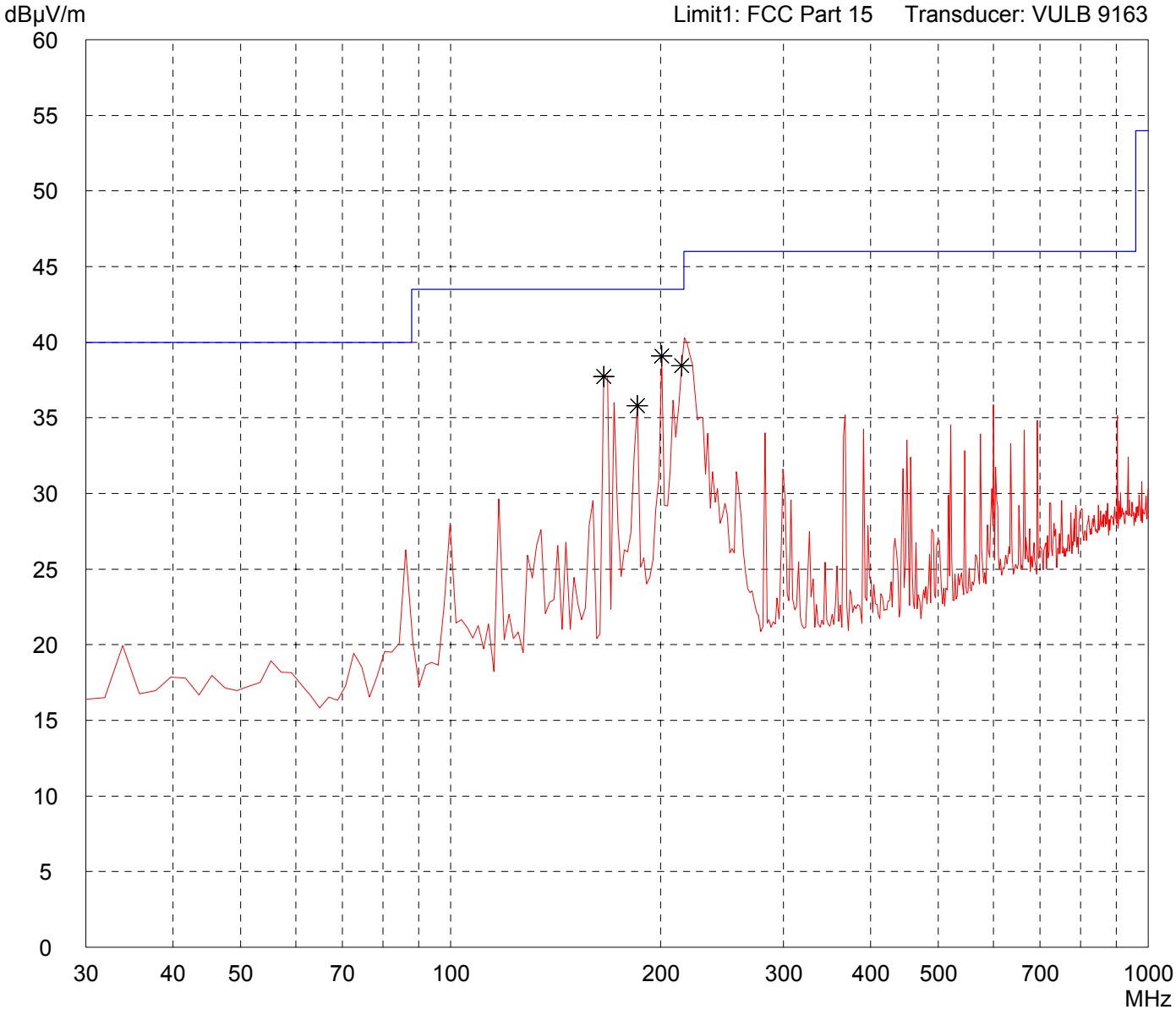


Result: Limit kept	Project file: 56109-61084-2 Page of Pages

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

Model: AC4490LR-200M	Comment: - RX at 915.38 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/30/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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

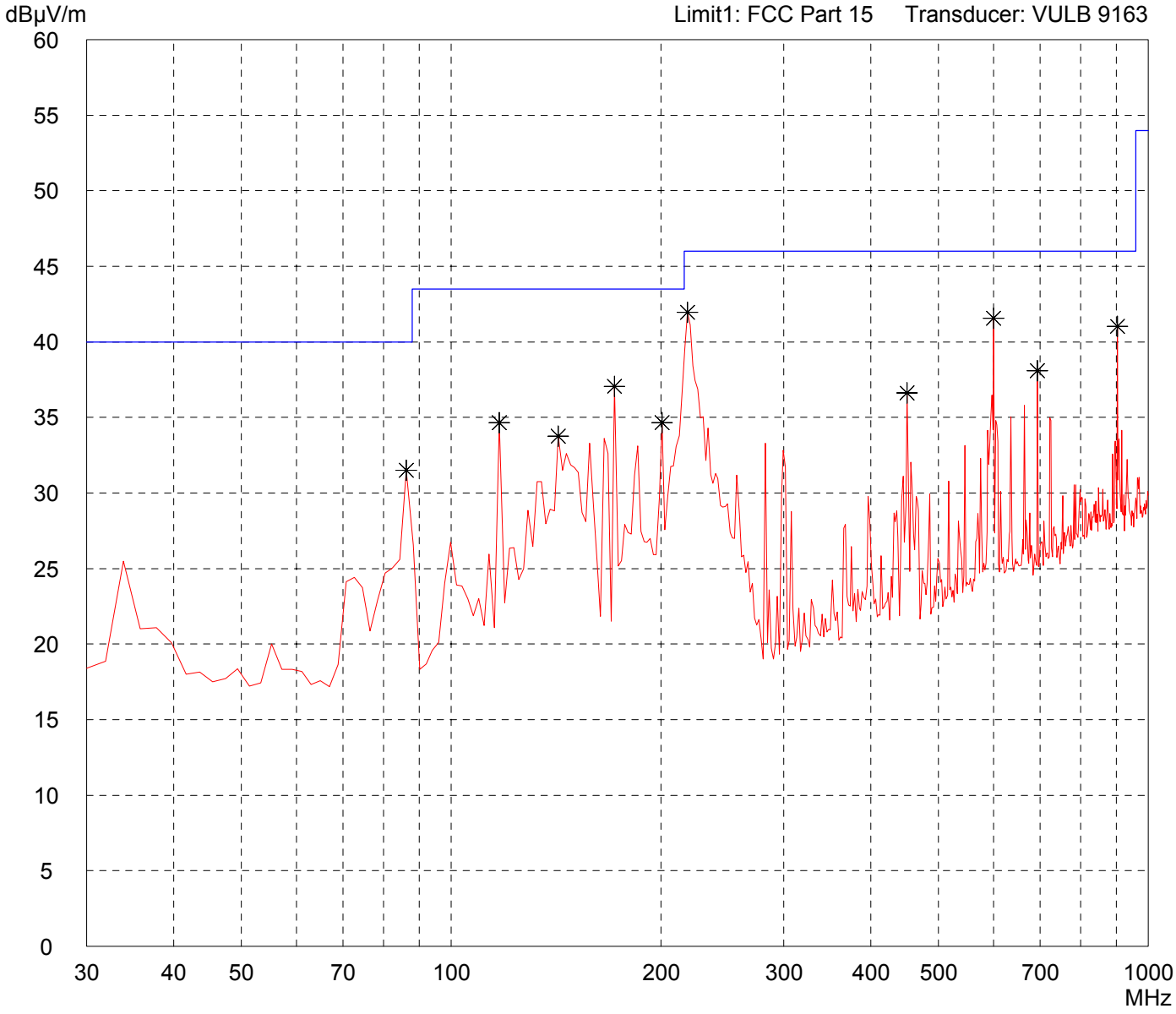


Result: Prescan	Project file: 56109-61084 — Page of Pages

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

Model: AC4490LR-200M	Comment: - RX at 915.38 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/30/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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

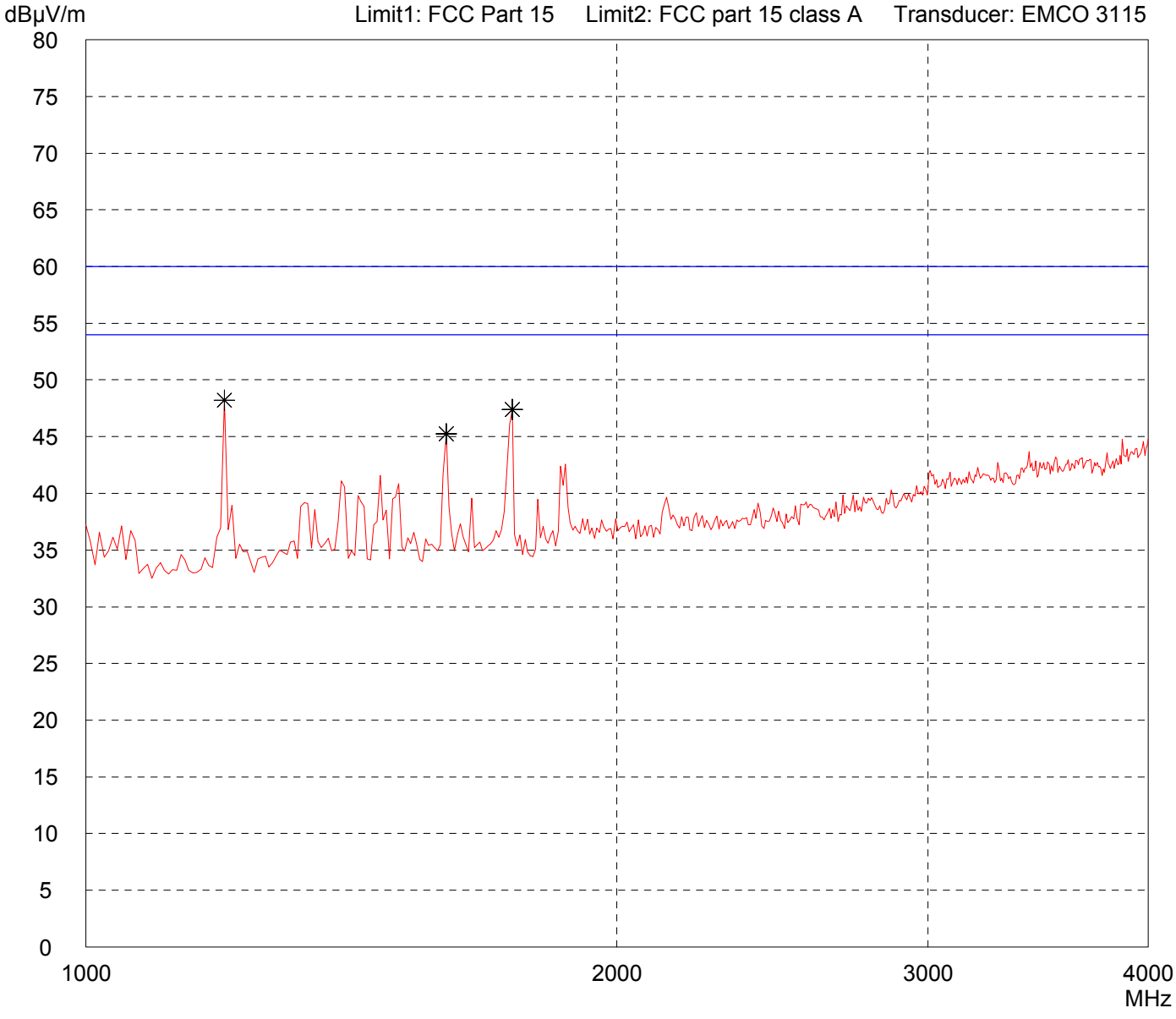


Result: Prescan	Project file: 56109-61084 — Page of Pages

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

Model: AC4490LR-200M	Comment: - RX at 915.38 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 02/01/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

Detector: Peak	List of values: Selected by hand



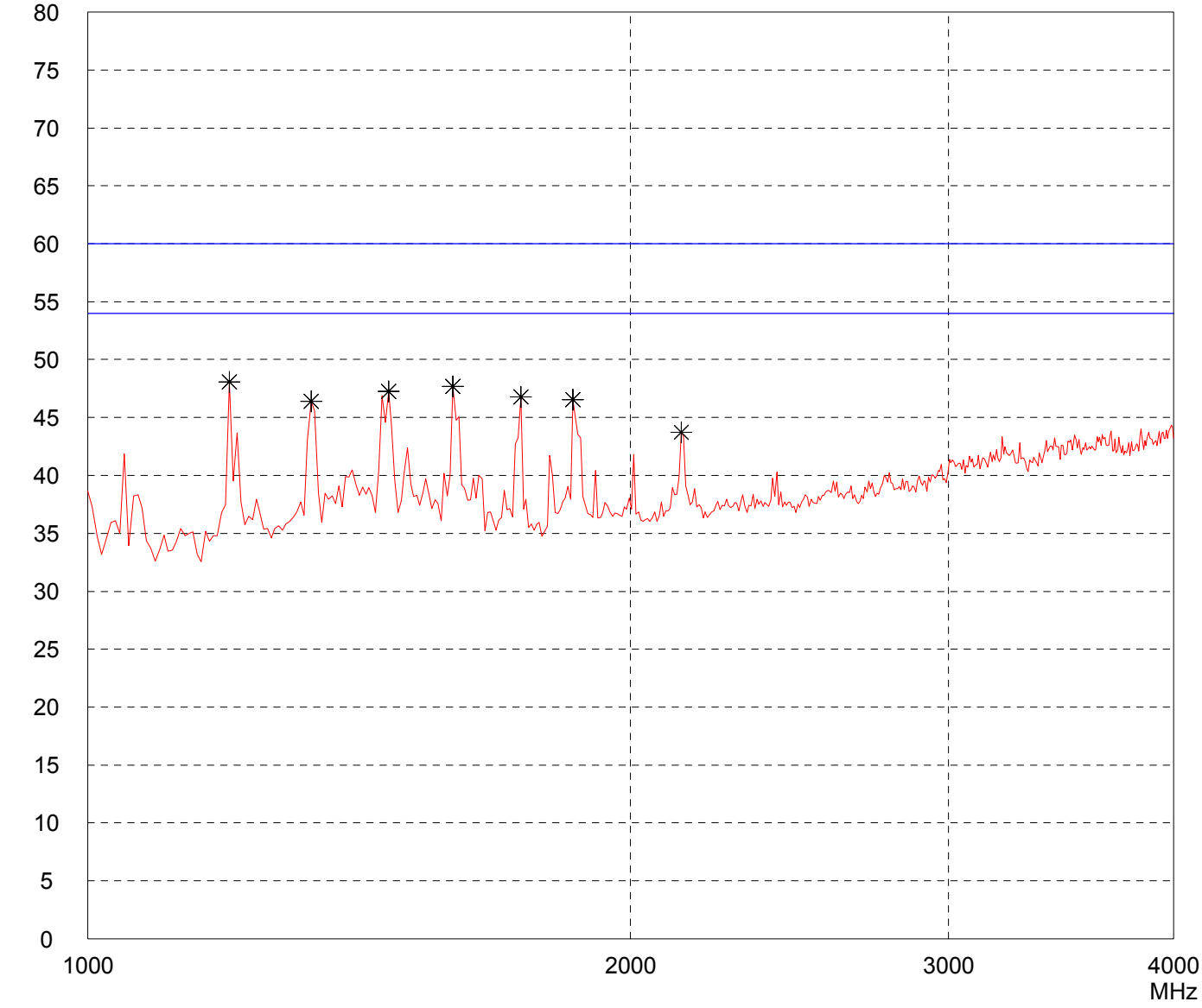
Result: Limit kept	Project file: 56109-61084 Page of Pages

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

Model: AC4490LR-200M	Comment: - RX at 915.38 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 02/01/2007 — Operator: A. Stübinger	
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

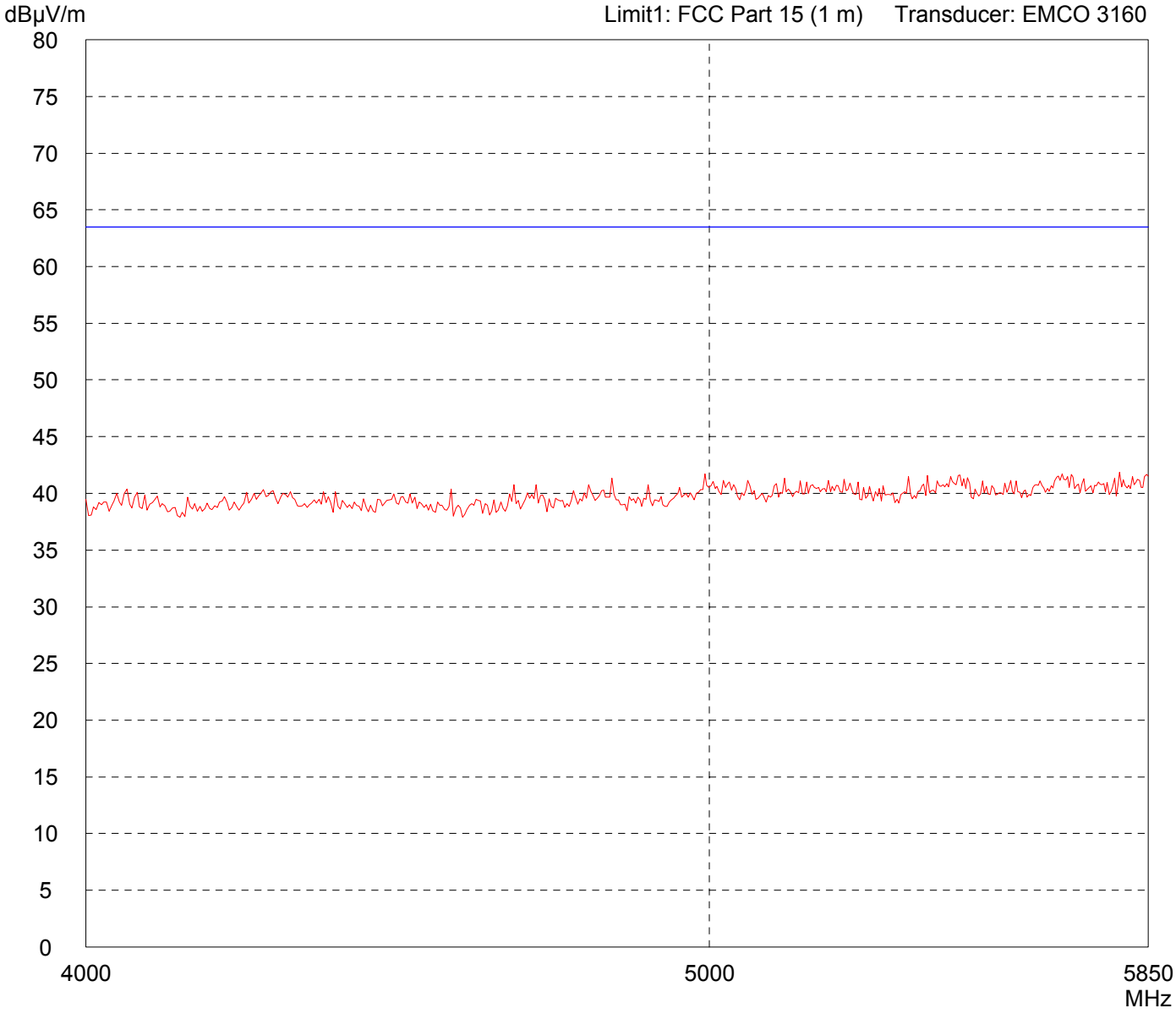


Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - RX at 915.37 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 02/02/2007 / Operator: A. Stübinger	
Test performed: automatically / File name: default.emi	

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

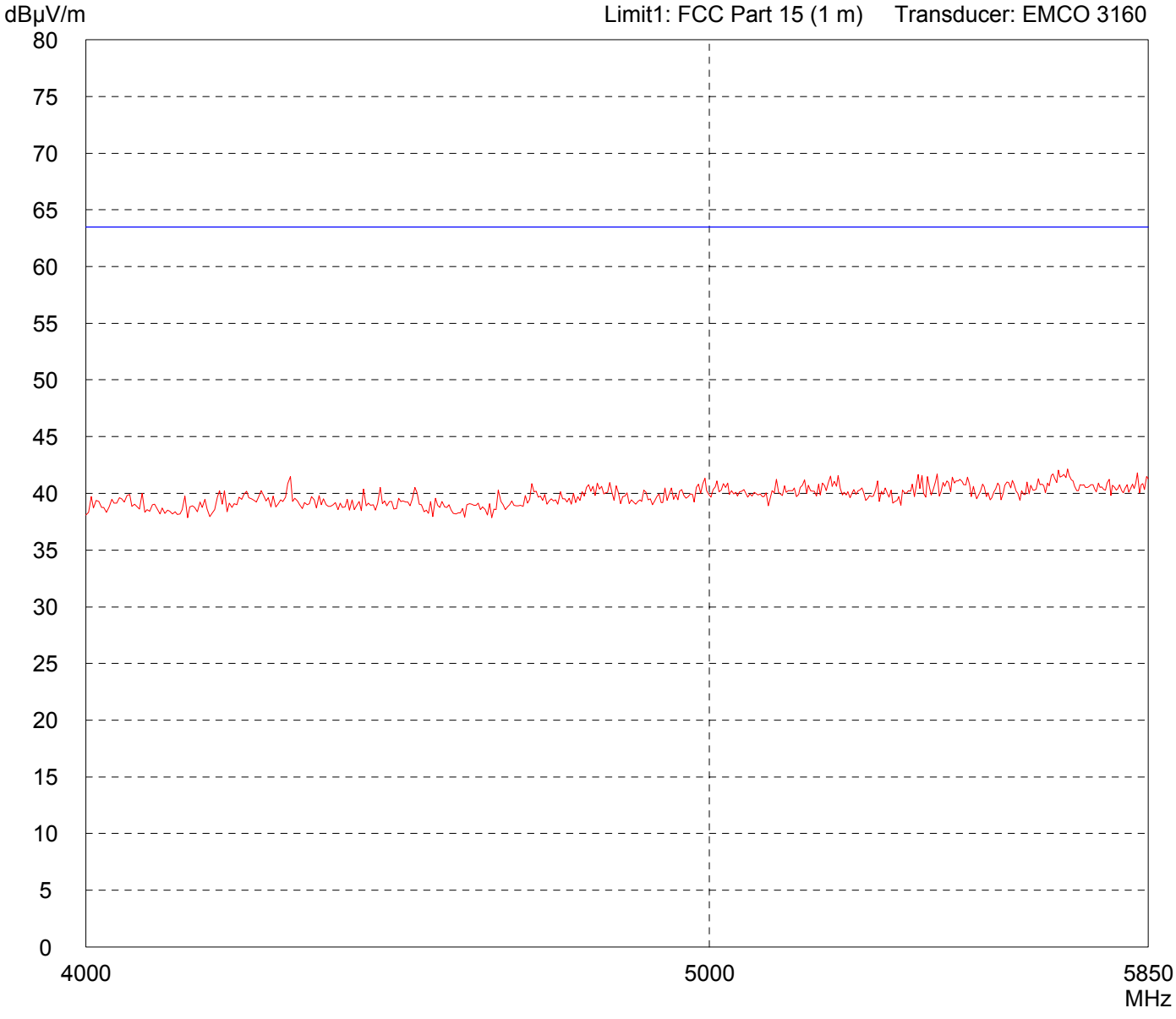


Result: Limit kept	Project file: 56109-61084 Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490LR-200M	Comment: - RX at 915.37 MHz - Antenna: SG101NT-915
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 02/02/2007 — Operator: A. Stübinger	
Test performed: automatically — File name: default.emi	

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

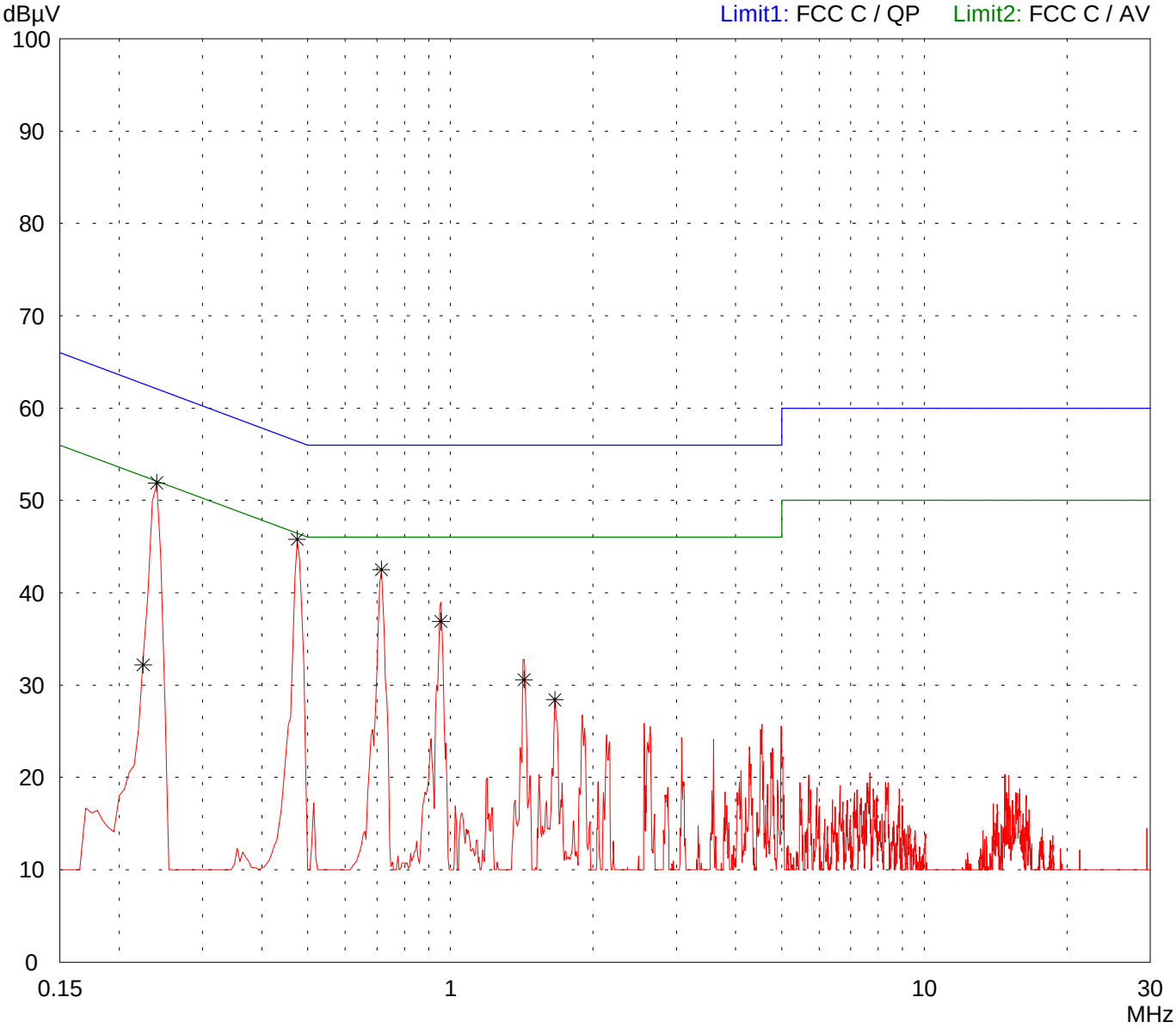


Result: Limit kept	Project file: 56109-61084 — Page of Pages

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

Model: AC4490LR-200M	Mode: TX at Middle channel
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Shielded room, cabin no. 1	
Tested on: Linecord Live Wire	
Date of test: 29 Jan 2007 / Operator: J. Roidt	
Test performed: automatically / File name:	

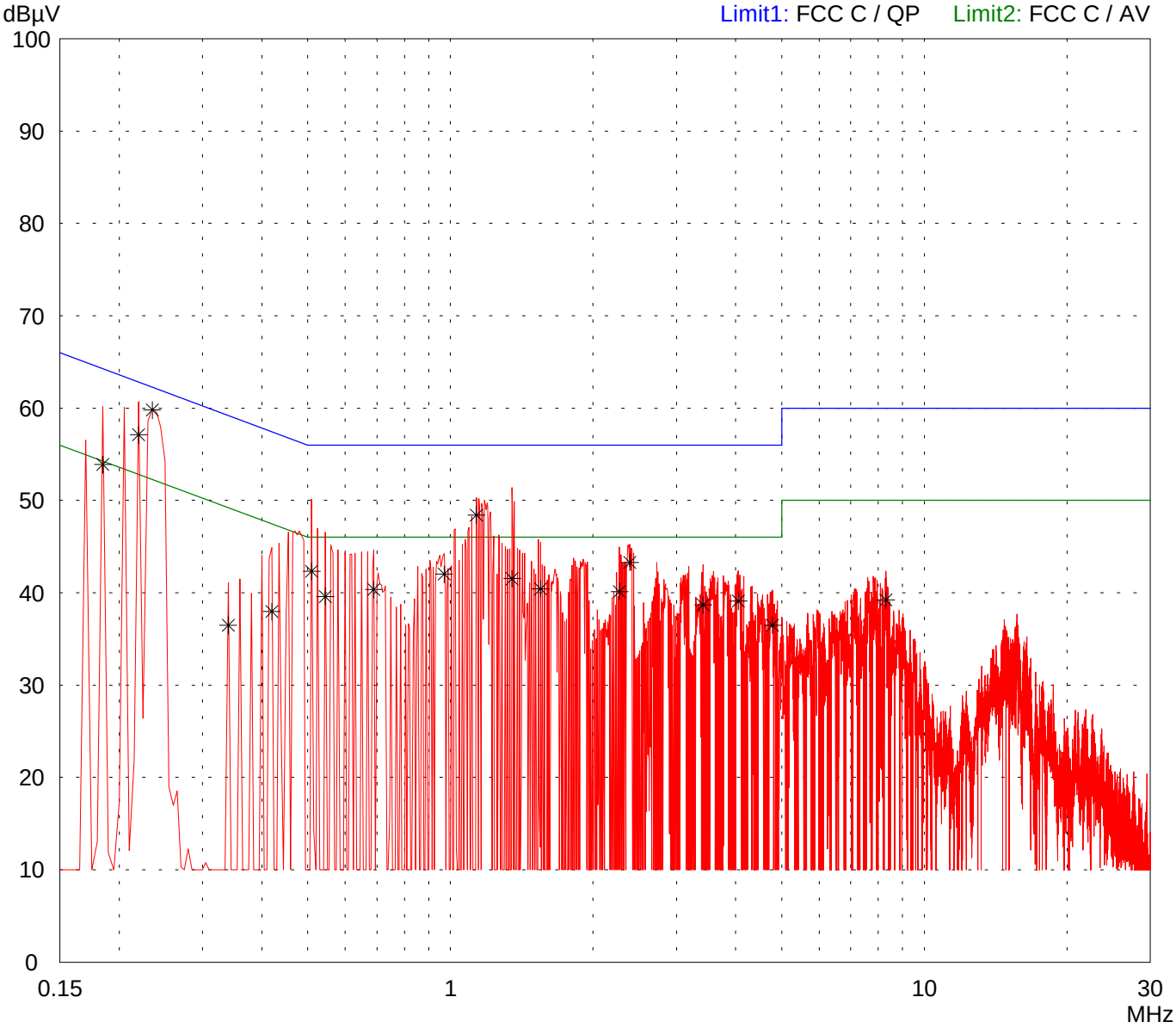
Detector: Average / Final Results: AV	Final results: 20 dB Margin 25 Subranges



Result: Limit kept	Project file: 56109-061084-2 Page of Pages

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

Model: AC4490LR-200M	Mode: TX at Middle channel
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Shielded room, cabin no. 1	
Tested on: Linecord Live Wire	
Date of test: 29 Jan 2007 / Operator: J. Roidt	
Test performed: automatically / File name:	
Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges

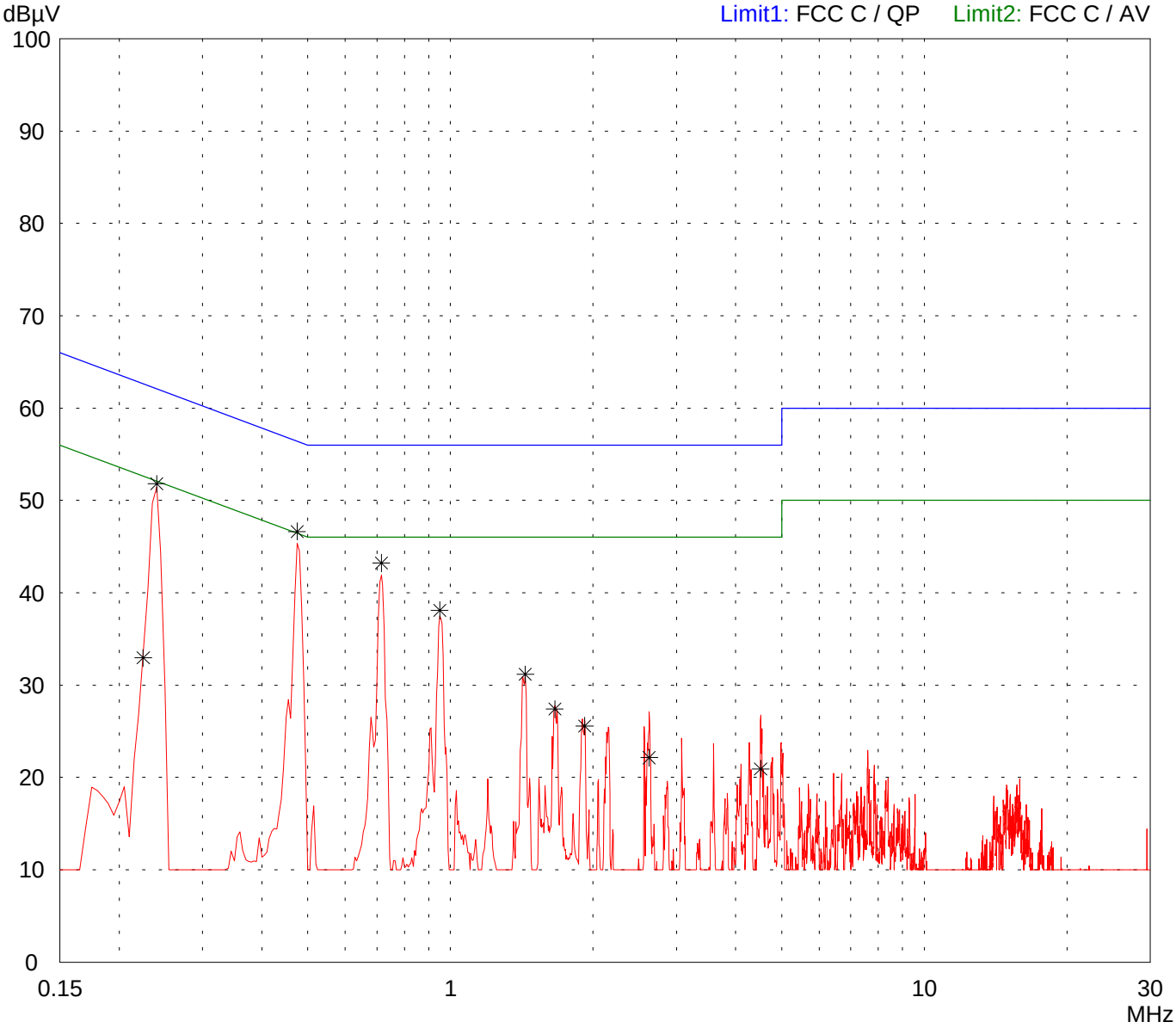


Result: Limit kept	Project file: 56109-061084-2 Page of Pages

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

Model: AC4490LR-200M	Mode: TX at Middle channel
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Shielded room, cabin no. 1	
Tested on: Linecord Neutral Wire	
Date of test: 29 Jan 2007 / Operator: J. Roidt	
Test performed: automatically / File name:	

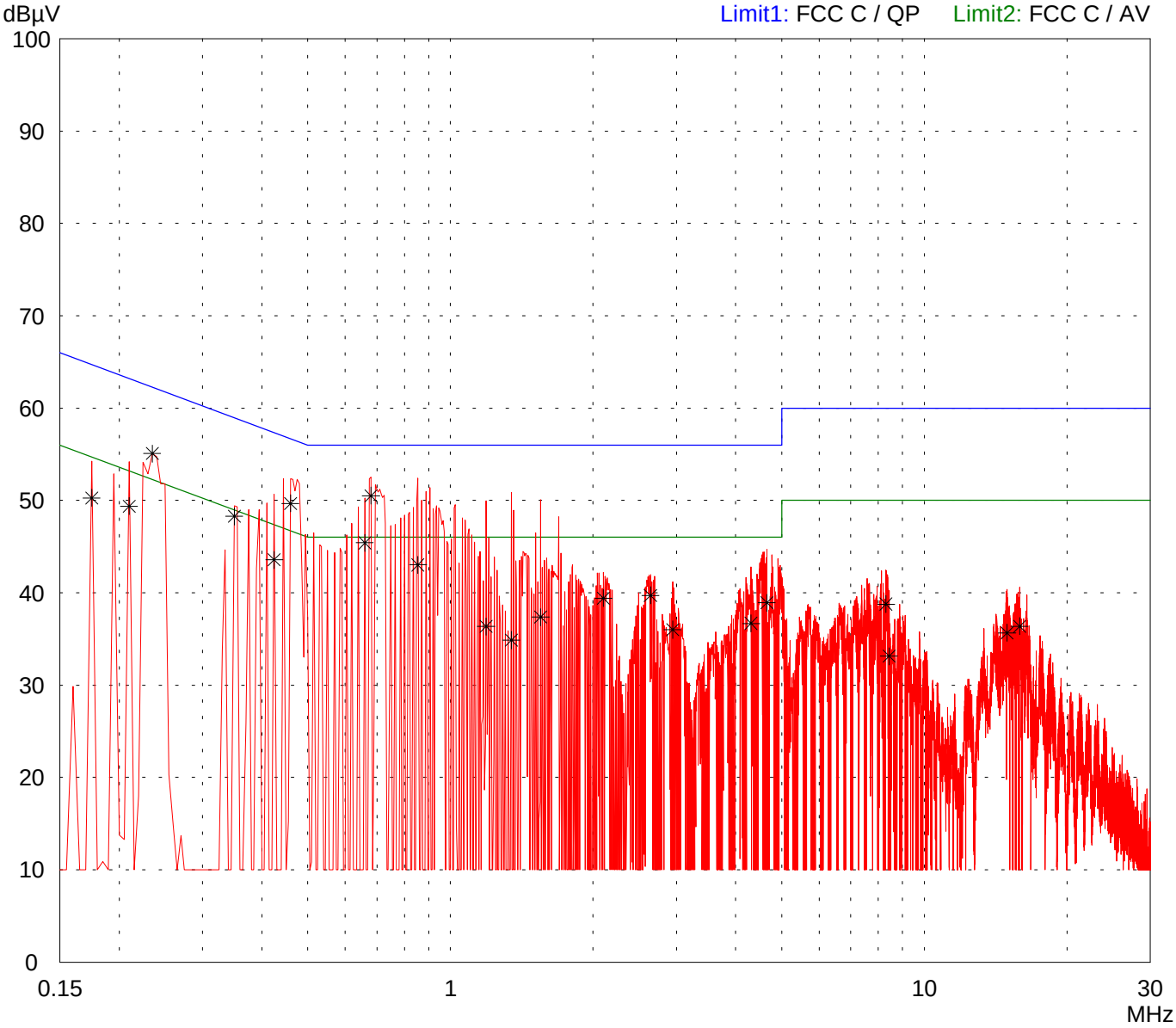
Detector: Average / Final Results: AV	Final results: 20 dB Margin 25 Subranges



Result: Limit kept	Project file: 56109-061084-2 Page of Pages

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

Model: AC4490LR-200M	Mode: TX at Middle channel
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Shielded room, cabin no. 1	
Tested on: Linecord Neutral Wire	
Date of test: 29 Jan 2007 / 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: 56109-061084-2 Page of Pages