

Straubing, Dezember 8, 2005

**TEST - REPORT**

**No. 51905-050389 (Edition 2)**

**for**

**SLG RF310-R IQ (Moby P)**

**Inductive Tag Reader**

**Applicant:** Siemens AG

**Test Specifications:** FCC Code of Federal Regulations,  
CFR 47, Part 15,  
Sections 15.205, 15.207, 15.215 and 15.225

RSS-Gen Issue 1, Section 7.2.2 and  
RSS-210 Issue 6, Sections 2.2, 2.6, A2.6  
(Category I Equipment)

**Note:**

The test data of this report is related only to the individual item which has been tested. This report shall not be reproduced except in full extent without the written approval of the testing laboratory.

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## 1 Description of the Equipment Under Test (EUT)

General data of EUT	
Type designation <sup>1</sup> :	SLG RF310-R IQ (Moby P)
Parts <sup>2</sup> :	---
Serial number(s):	0 series 1
Manufacturer:	Siemens AG, Fürth
Type of equipment:	Inductive Tag Reader
Version:	as received
FCC ID:	---
Additional parts/accessories:	---

Technical data of EUT	
Application frequency range:	13,553 MHz - 13,567 MHz
Frequency range:	---
Operating frequency:	13.560 MHz
Type of modulation:	ASK
Pulse train:	39,9 µs
Pulse width:	3,54 µs
Designation of emissions <sup>3</sup> :	0700A1D
Type of antenna:	Printed loop
Connection of antenna:	<input type="checkbox"/> detachable <input checked="" type="checkbox"/> not detachable
Type of power supply:	DC supply
Specifications for power supply:	nominal voltage:      24.0 V minimum voltage:    18.0 V maximum voltage:    30.0 V

<sup>1</sup> Type designation of the system if EUT consists of more than one part.

<sup>2</sup> Type designations of the parts of the system, if applicable.

<sup>3</sup> Also known as "Class of Emission".

## 2 Administrative Data

Application details	
Applicant (full address):	Siemens AG Würzburger Straße 121 D-90766 Fürth
Contact person:	Mr. Hans-Joachim Werner, dept. A&D SE RD11
Contract identification:	---
Receipt of EUT:	July 18, 2005
Date(s) of test:	July 18 to September 30, 2005
Note(s):	Mr. Werner attended all testings.

Report details	
Report number:	51905-050389
Edition:	2
Issue date:	Dezember 8, 2005

### 3 Identification of the Test Laboratory

Details of the Test Laboratory	
Company name:	Senton GmbH EMI/EMC Test Center
Address:	Aeussere Fruehlingstrasse 45 D-94315 Straubing Germany
Laboratory accreditation:	DAR-Registration No. DAT-P-171/94-02
FCC test site registration number	90926
Industry Canada test site registration:	IC 3050
Contact person:	Mr. Johann Roidt
	Phone: (+49) (0)9421 5522-0 Fax: (+49) (0)9421 5522-99

## 4 Summary

### Summary of test results

The tested sample complies with the requirements set forth in the

**Code of Federal Regulations CFR 47, Part 15, Sections 15.205, 15.215 and 15.225**

of the Federal Communication Commission (FCC) and the

**Radio Standards Specifications**

**RSS-210 Issue 6, Sections 2.2, 2.6, A2.6 (Category I Equipment)**

of Industry Canada (IC).

### Personnel involved in this report

Laboratory Manager:



Mr. Johann Roidt

Responsible for testing:



Mr. Thomas Eberl

Responsible for test report:

Mr. Thomas Eberl

## 5 Operation Mode and Configuration of EUT

### Operation Mode(s)

- TX mode
- with TAG
- EUT powered from external power supply 24 V DC

### List of ports and cables

<i>Port</i>	<i>Description</i>	<i>Classification<sup>4</sup></i>	<i>Cable type</i>	<i>Cable length</i>
1	24 V DC mains supply and control port	dc power	Unshielded	1,0 m

### List of devices connected to EUT

<i>Item</i>	<i>Description</i>	<i>Type Designation</i>	<i>Serial no. or ID</i>	<i>Manufacturer</i>
1	Power source and IF Box IQ-Sensor	SM 388	---	Siemens AG

### List of support devices

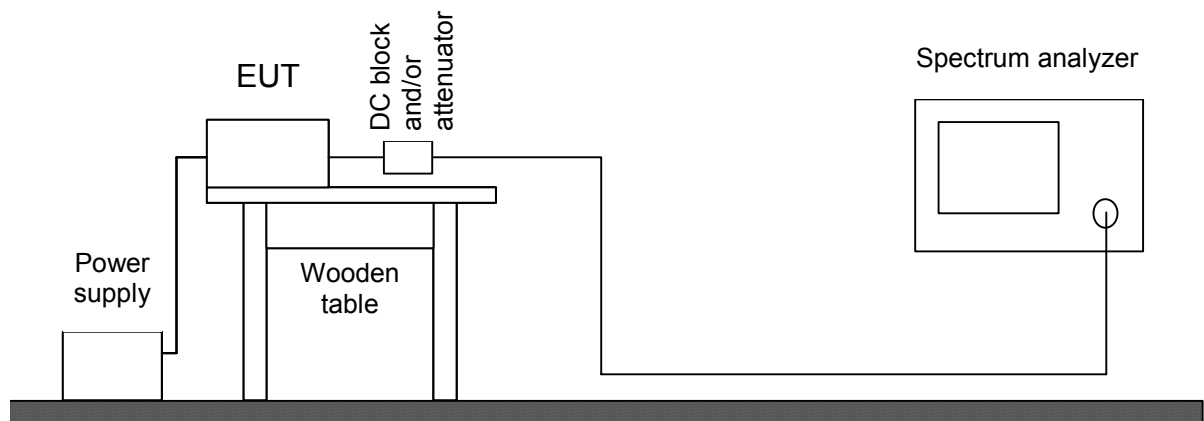
<i>Item</i>	<i>Description</i>	<i>Type Designation</i>	<i>Serial no. or ID</i>	<i>Manufacturer</i>
1	RF ID TAG	SIMATIC RF 340 T	Z.0341.50.40.13	Siemens AG

<sup>4</sup> Ports shall be classified as ac power, dc power or signal/control port

## 6 Measurement Procedures

### 6.1 Bandwidth Measurements

Measurement Procedure:	
Rules and specifications:	CFR 47 Part 2, section 2.202(a) CFR 47 Part 15, section 15.215(c) IC RSS-Gen Issue 1, sections 4.4.1 and 4.4.2 IC RSS-210 Issue 6, section A1.1.3 ANSI C63.4, annex H.6
Guide:	ANSI C63.4 / IC RSS-Gen Issue 1, sections 4.4.1 and 4.4.2
Measurement setup:	<input type="checkbox"/> Conducted: See below <input checked="" type="checkbox"/> Radiated: Radiated Emission Measurement 9 kHz to 30 MHz (6.2)
<p>If antenna is detachable bandwidth measurements shall be performed at the antenna connector (conducted measurement) when the transmitter is adjusted in accordance with the tune-up procedure, if applicable. The RF output terminals are connected to a spectrum analyzer. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as dc block and appropriate attenuators (50 Ohms). The electrical characteristics of the radio frequency load attached to the output terminals shall be stated, if applicable.</p> <p>If radiated measurements are performed the same test setups and instruments are used as with radiated emission measurements for the appropriate frequency range.</p> <p>The analyzer settings are specified by the test description of the appropriate test record(s).</p>	



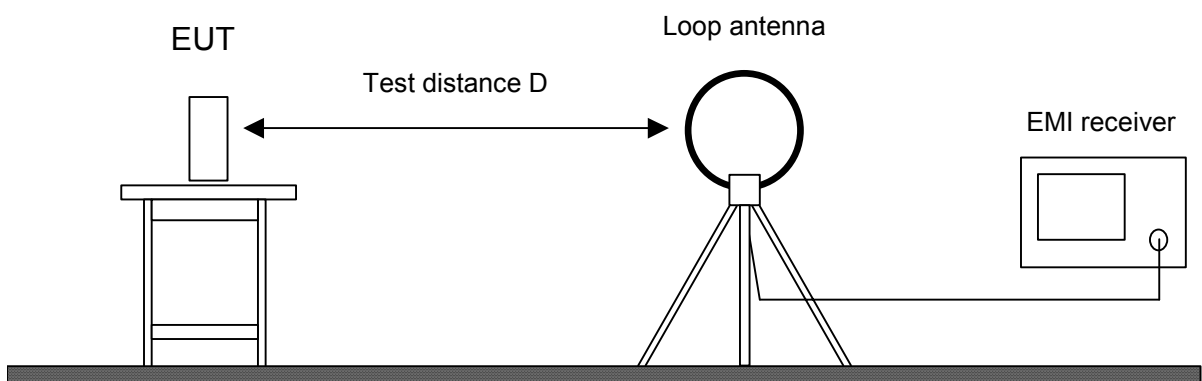


Test instruments used for radiated measurements:

Used	Type	Model	Serial No. or ID	Manufacturer
<input checked="" type="checkbox"/>	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
<input type="checkbox"/>	EMI test receiver	ESPI7	836914/0002	Rohde & Schwarz
<input type="checkbox"/>	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
<input checked="" type="checkbox"/>	Loop antenna	HFH2-Z2	882964/1	Rohde & Schwarz
<input type="checkbox"/>	Power meter	NRVS	836856/015	Rohde & Schwarz
<input type="checkbox"/>	Peak power sensor	NRV-Z31	8579604.03	Rohde & Schwarz
<input type="checkbox"/>	Power sensor	NRV-Z52	837901/030	Rohde & Schwarz
<input type="checkbox"/>	Power sensor	NRV-Z4	863828/015	Rohde & Schwarz
<input type="checkbox"/>	DC-block	7006	A2798	Weinschel
<input type="checkbox"/>	Attenuator	4776-10	9412	Narda
<input type="checkbox"/>	Attenuator	4776-20	9503	Narda

## 6.2 Radiated Emission Measurement 9 kHz to 30 MHz

Measurement Procedure:	
Rules and specifications:	CFR 47 Part 15, sections 15.205, 15.215(b) and 15.225(a)-(d) IC RSS-210 Issue 6, sections 2.2, 2.6 and A2.6
Guide:	ANSI C63.4
<p>Radiated emission in the frequency range 9 kHz to 30 MHz is measured using an active loop antenna. First the whole spectrum of emission caused by the equipment is recorded at a distance of 3 meters in a fully or semi anechoic room with the detector of the spectrum analyzer or EMI receiver set to peak. This configuration is also used for recording the spectrum of intentional radiators.</p> <p>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. EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.</p> <p>If worst case emission of the EUT cannot be recorded with EUT in standard position and loop antenna in vertical polarization the EUT (or the radiating part of the EUT) is rotated by 90 degrees instead of changing the loop antenna to horizontal polarization. This procedure is selected to minimize the influence of the environment (e.g. effects caused by the floor especially with longer distances).</p> <p>Final measurement is performed at a test distance D of 30 meters using an open field test site. In case the regulation requires testing at other distances, the result is extrapolated by either making measurements at an additional distance D of 10 meters to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). In cases of very low emissions measurements are performed at shorter distances and results are extrapolated to the required distance. The provisions of CFR 47 Part 15 sections 15.31(d) and (f)(2) apply. According to CFR 47 Part 15 section 15.209(d) final measurement is performed with detector function set to quasi-peak except for the frequency bands 9 to 90 kHz and 110 to 490 kHz where, for non-pulsed operation, average detector is employed.</p> <p>If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.</p>	

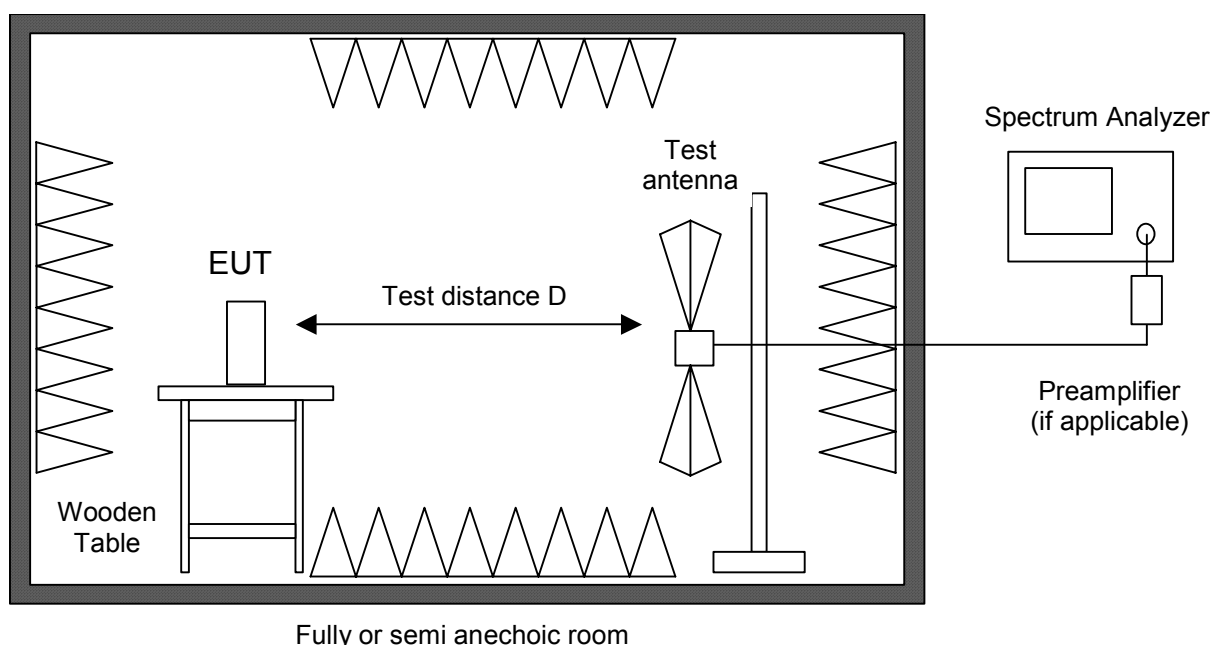


Test instruments used:

Used	Type	Model	Serial No. or ID	Manufacturer
<input checked="" type="checkbox"/>	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
<input type="checkbox"/>	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
<input checked="" type="checkbox"/>	Test receiver	ESHS 10	860043/016	Rohde & Schwarz
<input checked="" type="checkbox"/>	Preamplifier	CPA9231A	3393	Schaffner
<input checked="" type="checkbox"/>	Loop antenna	HFH2-Z2	882964/1	Rohde & Schwarz
<input checked="" type="checkbox"/>	Fully anechoic room	No. 2	1452	Albatross Projects
<input type="checkbox"/>	Semi-anechoic room	No. 3	1453	Siemens
<input checked="" type="checkbox"/>	Open field test site	EG 1	1450	Senton

### 6.3 Radiated Emission in Fully or Semi Anechoic Room

Measurement Procedure:	
Rules and specifications:	CFR 47 Part 15, sections 15.205(b) and 15.225(d) IC RSS-210 Issue 6, sections 2.2(b)(c), 2.6 and A2.6
Guide:	ANSI C63.4
<p>Radiated emission in fully or semi anechoic room is measured in the frequency range from 30 MHz to the maximum frequency as specified in CFR 47 Part 15 section 15.33.</p> <p>Measurements are made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution as well as video bandwidth set to 100 kHz (below 1 GHz) or 1 MHz (above 1 GHz).</p> <p>Testing up to 1 GHz is performed with a linear polarized logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna"). For testing above 1 GHz horn antennas are used.</p> <p>All tests below 18 GHz are performed at a test distance D of 3 meters. For higher frequencies the test distance is reduced (e.g. to 1 meter) due to the sensitivity of the measuring instrument(s) and the test results are calculated according to CFR 47 Part 15 section 15.31(f)(1) using an extrapolation factor of 20 dB/decade. If required, preamplifiers are used for the whole frequency range. Special care is taken to avoid overload, using appropriate attenuators and filters, if necessary.</p> <p>If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.</p> <p>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.</p> <p>During testing the EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.</p> <p>For final testing below 1 GHz an open field test-site is used and the plots recorded in the fully or semi anechoic room are indicated as prescans.</p>	

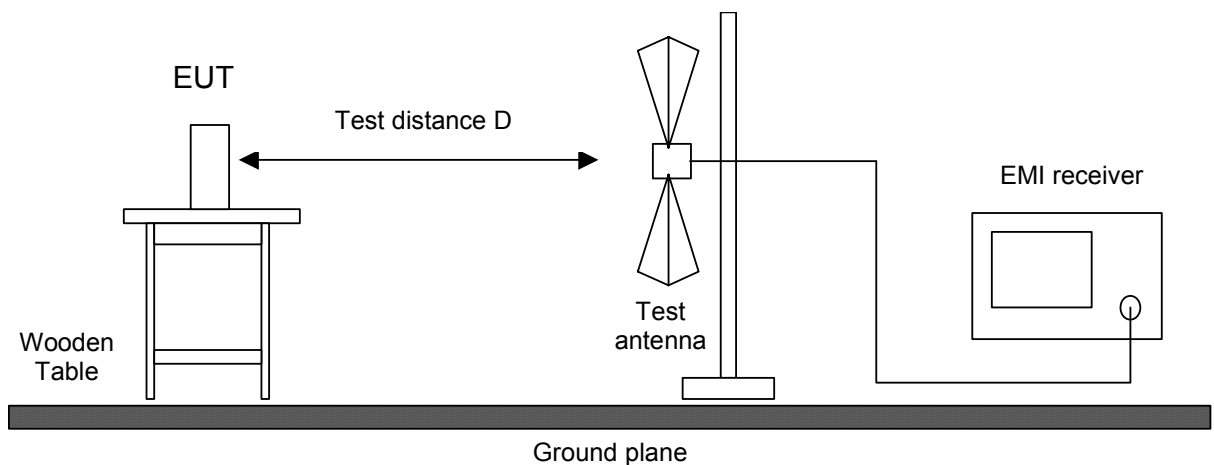


Test instruments used:

Used	Type	Model	Serial No. or ID	Manufacturer
<input checked="" type="checkbox"/>	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
<input type="checkbox"/>	Spectrum analyzer	R 3271	05050023	Advantest
<input type="checkbox"/>	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
<input checked="" type="checkbox"/>	Preamplifier	CPA9231A	3393	Schaffner
<input type="checkbox"/>	Preamplifier	R14601		Advantest
<input type="checkbox"/>	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
<input type="checkbox"/>	Preamplifier 0.5-8 GHz	AMF-4D-005080-25-13P	860149	Miteq
<input type="checkbox"/>	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
<input type="checkbox"/>	External Mixer	WM782A	845881/005	Tektronix
<input type="checkbox"/>	Harmonic Mixer	FS-Z30	843389/007	Rohde & Schwarz
	Accessories			
<input checked="" type="checkbox"/>	Trilog broadband antenna	VULB 9163	9163-188	Schwarzbeck
<input type="checkbox"/>	Horn antenna	3115	9508-4553	EMCO
<input type="checkbox"/>	Horn antenna	3160-03	9112-1003	EMCO
<input type="checkbox"/>	Horn antenna	3160-04	9112-1001	EMCO
<input type="checkbox"/>	Horn antenna	3160-05	9112-1001	EMCO
<input type="checkbox"/>	Horn antenna	3160-06	9112-1001	EMCO
<input type="checkbox"/>	Horn antenna	3160-07	9112-1008	EMCO
<input type="checkbox"/>	Horn antenna	3160-08	9112-1002	EMCO
<input type="checkbox"/>	Horn antenna	3160-09	9403-1025	EMCO
<input type="checkbox"/>	Horn antenna	3160-10	399185	EMCO
<input checked="" type="checkbox"/>	Fully anechoic room	No. 2	1452	Albatross Projects
<input type="checkbox"/>	Semi-anechoic room	No. 3	1453	Siemens

## 6.4 Radiated Emission at Open Field Test Site

Measurement Procedure:	
Rules and specifications:	CFR 47 Part 15, sections 15.205(b) and 15.225(d) IC RSS-210 Issue 6, sections 2.2(b)(c), 2.6 and A2.6
Guide:	ANSI C63.4
<p>Radiated emission at open field test site is measured in the frequency range 30 MHz to 1 GHz using a biconical antenna up to 300 MHz and a logarithmic periodic antenna above. The measurement bandwidth of the test receiver is set to 120 kHz with quasi-peak detector selected.</p> <p>If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.</p> <p>Hand-held or body-worn devices are tested in the position producing the highest emission relative to the limit as verified by prescans in the fully anechoic room. EUT is rotated all around and receiving antenna is raised and lowered within 1 meter to 4 meters to find the maximum levels of emission. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.</p> <p>For measuring emissions of intentional radiators and receivers a test distance D of 3 meters is selected. Testing of unintentional radiators is performed at a distance of 10 meters. If limits specified for 3 meters shall be used for measurements performed at 10 meters distance the limits are calculated according to CFR 47 Part 15 section 15.31(d) and (f)(1) using an inverse linear-distance extrapolation factor of 20 dB/decade.</p>	

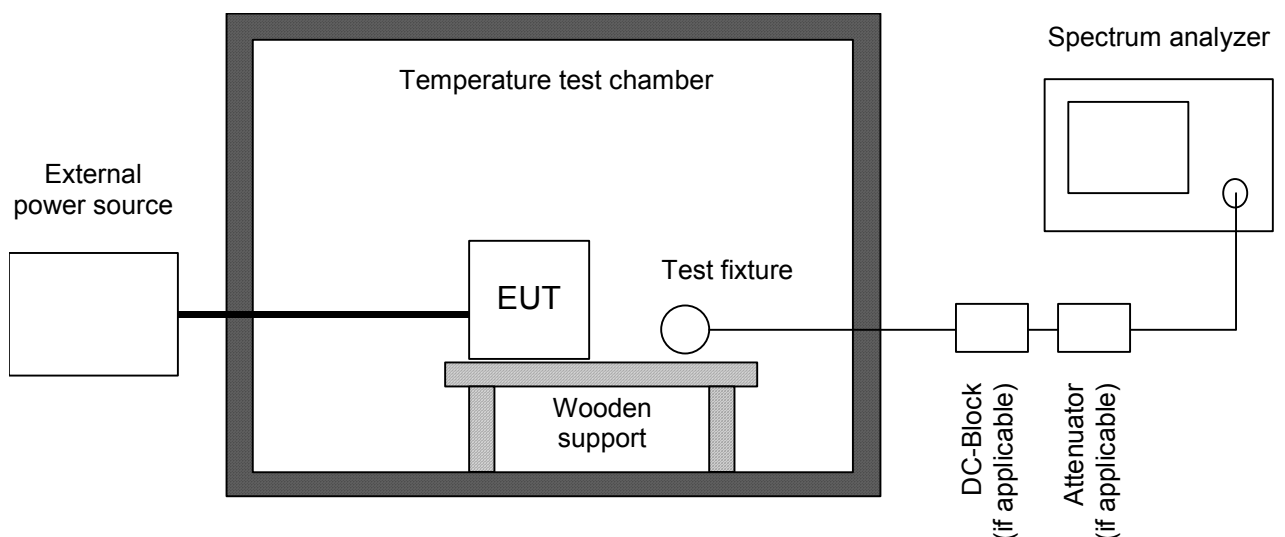


Test instruments used:

Used	Type	Model	Serial No. or ID	Manufacturer
<input checked="" type="checkbox"/>	EMI receiver	ESVP	881414/009	Rohde & Schwarz
<input checked="" type="checkbox"/>	Biconical antenna	EG 1 HK 116	842204/001	Rohde & Schwarz
<input checked="" type="checkbox"/>	Log. per. antenna	EG 1 HL 223	841516/023	Rohde & Schwarz
<input checked="" type="checkbox"/>	Open field test site	EG 1	1450	Senton

## 6.5 Carrier Frequency Stability

Measurement Procedure:	
Rules and specifications:	CFR 47 Part 15, section 15.225(e) IC RSS-Gen Issue 1, section 4.5 and IC RSS-210 Issue 6, section A2.6
Guide:	ANSI C63.4
<p>The frequency tolerance of the carrier signal is measured over a temperature variation of -20 °C to +50 °C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 °C.</p> <p>If the EUT provides an antenna connector the spectrum analyzer is connected to this port. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as dc block and appropriate attenuators (50 Ohms). In cases where the EUT does not provide an antenna connector a test fixture is used.</p> <p>For battery operated equipment, the test is performed using a new battery. Alternatively, an external supply voltage can be used and is at least set to:</p> <ul style="list-style-type: none"> <li>• the maximum battery voltage as delivered by a new battery or 115% of the battery nominal voltage</li> <li>• the battery nominal voltage</li> <li>• 85% of the battery nominal voltage</li> <li>• the battery operating end point voltage which shall be specified by the equipment manufacturer</li> </ul> <p>The EUT is operating providing an unmodulated carrier. The peak detector of the spectrum analyzer is selected and resolution as well as video bandwidth are set to values appropriate to the shape of the spectrum of the EUT. The frequency counter mode of the spectrum analyzer is used to maximize the accuracy of the measured frequency tolerance.</p> <p>If an unmodulated carrier is not available a significant and stable point on the spectrum is selected and the span is reduced to a value that delivers an accuracy which shall be better than 1% of the maximum frequency tolerance allowed for the carrier signal. This method may be performed as long as the margin to the frequency tolerance allowed is larger than the uncertainty of the measured frequency tolerance.</p>	



Test instruments used:

Used	Type	Model	Serial No. or ID	Manufacturer
<input type="checkbox"/>	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
<input type="checkbox"/>	EMI test receiver	ESPI7	836914/0002	Rohde & Schwarz
<input checked="" type="checkbox"/>	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
<input type="checkbox"/>	DC-block	7006	A2798	Weinschel
<input type="checkbox"/>	Attenuator	4776-10	9412	Narda
<input type="checkbox"/>	Attenuator	4776-20	9503	Narda
<input checked="" type="checkbox"/>	Test probe	TP01	001	Senton
<input checked="" type="checkbox"/>	DC power supply	NGSM 32/10	203	Rohde & Schwarz
<input type="checkbox"/>	Isolating transformer	RT 5A	10387	Grundig
<input type="checkbox"/>	Isolating transformer	RT 5A	10416	Grundig
<input checked="" type="checkbox"/>	Temperature test chamber	HT4010	07065550	Heraeus

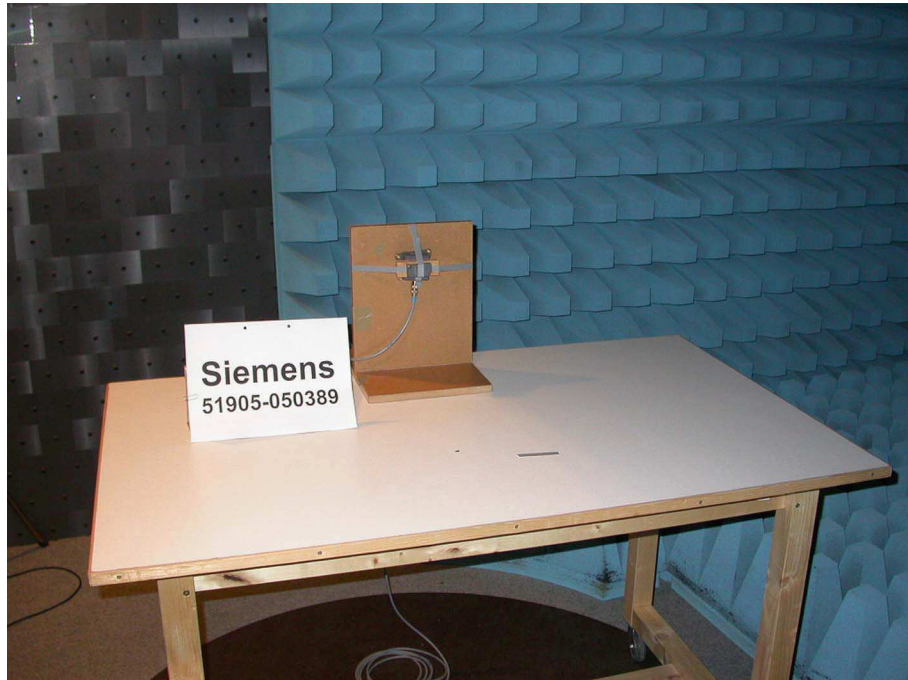


## **7 Photographs Taken During Testing**

**Test setup for radiated emission measurement 9 kHz – 30 MHz**



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



**Test setup for radiated emission measurement  
(open field test site)**





**Test setup for radiated emission measurement  
(open field test site) - continued -**



## 8 Test Results

FCC CFR 47 Parts 2 and 15			
Section(s)	Test	Page	Result
2.1046(a)	Conducted output power	---	Not applicable
2.202(a)	Occupied bandwidth	24	Recorded
15.215(c)	Bandwidth of the emission	27	Test passed
2.201, 2.202	Class of emission	29	Calculated
15.35(c)	Pulse train measurement for pulsed operation	---	Not applicable
15.205(a) 15.205(d)(7)	Restricted bands of operation	--- <sup>5</sup>	Test passed
15.207	Conducted DC powerline emission 150 kHz to 30 MHz	---	Not applicable <sup>6</sup>
15.225(a)-(d)	Spectrum Mask	30	Test passed
15.205(b) 15.215(b) 15.225(a)(d)	Radiated emission 9 kHz to 30 MHz	32	Test passed
15.205(b) 15.225(d)	Radiated emission 30 MHz to 1 GHz	33	Test passed
15.225(e)	Carrier frequency stability	34	Test passed

<sup>5</sup> See "Spectrum Mask" for the 13.36 to 13.41 MHz band. For all other restricted bands see "Radiated Emission".

<sup>6</sup> EUT supplied by DC voltage.

<b>IC RSS-Gen Issue 1</b>			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
4.6	Transmitter output power (conducted)	---	Not applicable
4.4.1	Occupied Bandwidth	24	Recorded
3.2(h), 8	Designation of emissions	29	Calculated
4.3	Pulsed operation	---	Not applicable
7.2.2	Transmitter DC power lines conducted emissions 150 kHz to 30 MHz	---	Not applicable <sup>7</sup>
5.5	Exposure of Humans to RF Fields	37	Exempted from SAR and RF evaluation

<b>IC RSS-210 Issue 6</b>			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
2.2(a)	Restricted bands and unwanted emission frequencies	--- <sup>8</sup>	Test passed
A2.6	Spectrum Mask	30	Test passed
2.2(b)(c), 2.6 A2.6	Unwanted emissions 9 kHz to 30 MHz	32	Test passed
2.2(b)(c), 2.6 A2.6	Unwanted emissions 30 MHz to 1 GHz	33	Test passed
A2.6	Carrier frequency stability	34	Test passed

<sup>7</sup> EUT supplied by DC voltage.

<sup>8</sup> See "Spectrum Mask" and "Unwanted emissions".

## 8.1 Occupied Bandwidth

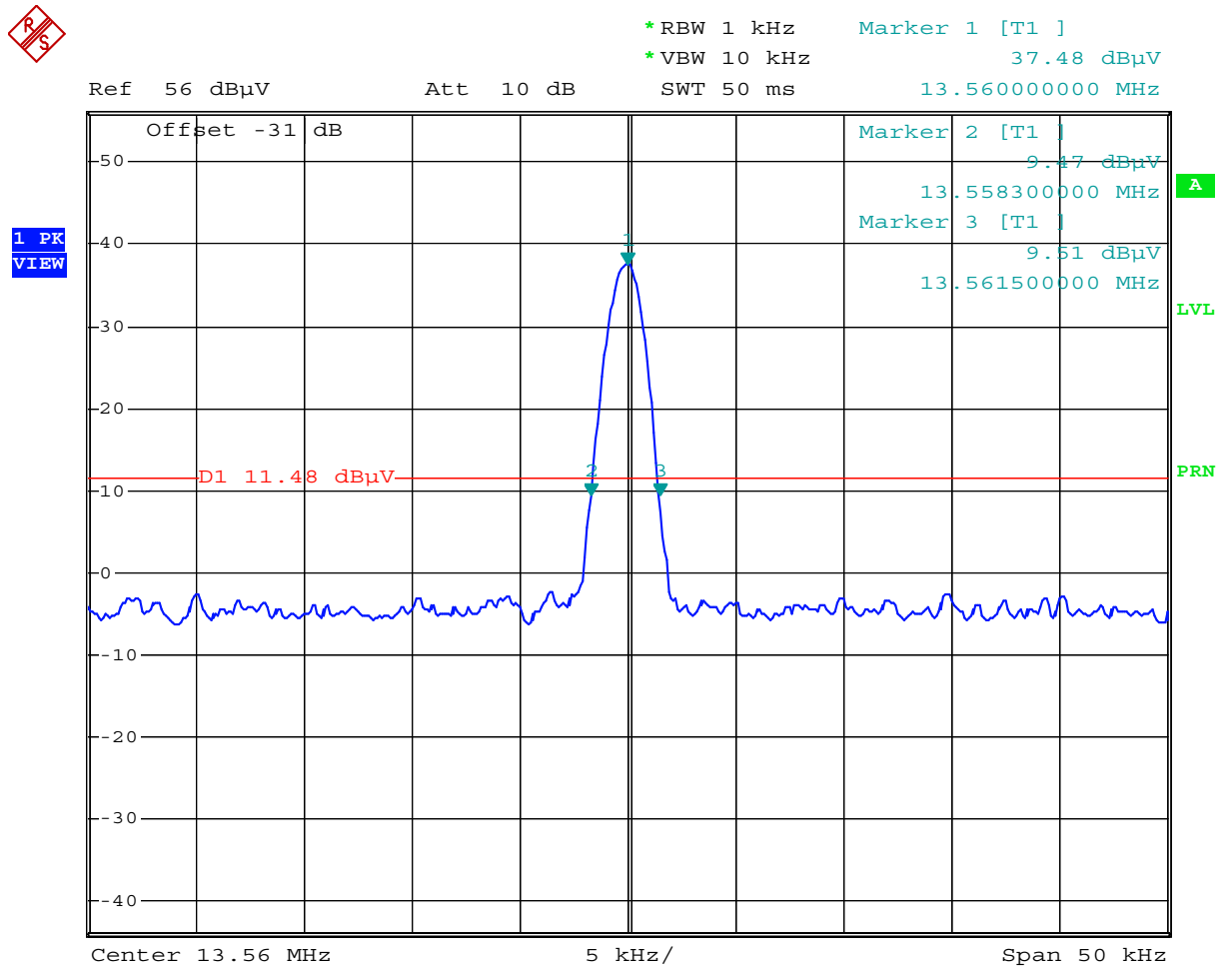
Rules and specifications:	CFR 47 Part 2, section 2.202(a) ANSI C63.4, annex H.6 IC RSS-Gen Issue 1, section 4.4.1	
Guide:	ANSI C63.4 IC RSS-Gen Issue 1, section 4.4.1	
Description:	The occupied bandwidth according to CFR 47 Part 2, section 2.202(a), is measured as the 99% emission bandwidth, i.e. below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission.	
	The occupied bandwidth according to ANSI C63.4, annex H.6; is measured as the frequency range defined by the points that are 26 dB down relative to the maximum level of the modulated carrier.	
	The resolution bandwidth of the spectrum analyzer shall be set to a value greater than 5.0% of the allowed bandwidth. If no bandwidth specifications are given, the following guidelines are used:	
	Fundamental frequency	Minimum resolution bandwidth
	9 kHz to 30 MHz	1 kHz
	30 MHz to 1000 MHz	10 kHz
1000 MHz to 40 GHz	100 kHz	
	The video bandwidth shall be at least three times greater than the resolution bandwidth.	
Measurement procedure:	Bandwidth Measurements (6.1)	

Comment:	---
Date of test:	September 30, 2005
Test site:	Fully anechoic room, cabin no. 2





**Occupied Bandwidth (-26 dB):**



Comment: Siemens 050389: Emission Bandwidth  
 Date: 30.SEP.2005 13:21:50

Occupied Bandwidth (-26 dB): **3,20 kHz**

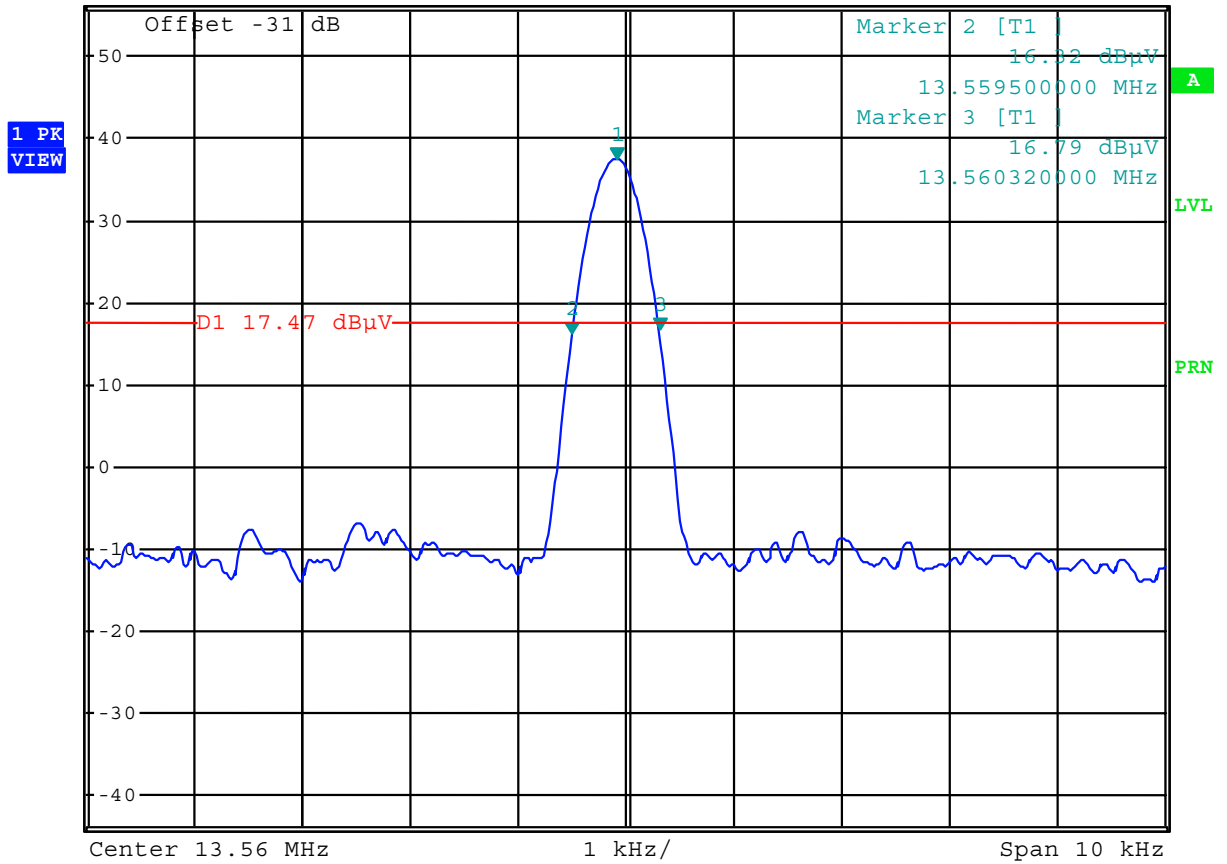
## 8.2 Bandwidth of the Emission

Rules and specifications:	CFR 47 Part 15, section 15.215(c)		
Guide:	ANSI C63.4		
Description:	<p>The 20 dB bandwidth of the emission is measured as the frequency range defined by the points that are 20 dB down relative to the maximum level of the modulated carrier.</p> <p>For intentional radiators operating under the alternative provisions to the general emission limits the requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.</p> <p>The resolution bandwidth of the spectrum analyzer shall be set to a value greater than 5.0% of the allowed bandwidth. If no bandwidth specifications are given, the following guidelines are used:</p>		
		Fundamental frequency	Minimum resolution bandwidth
		9 kHz to 30 MHz	1 kHz
		30 MHz to 1000 MHz	10 kHz
		1000 MHz to 40 GHz	100 kHz
	The video bandwidth shall be at least three times greater than the resolution bandwidth.		
Measurement procedure:	Bandwidth Measurements (6.1)		

Comment:	---
Date of test:	September 30, 2005
Test site:	Fully anechoic room, cabin no. 2



\*RBW 300 Hz    Marker 1 [T1 ]  
 \*VBW 10 kHz    37.47 dBµV  
 Ref 56 dBµV    Att 10 dB    SWT 115 ms    13.559920000 MHz



Comment: Siemens 050389: Emission Bandwidth  
 Date: 30.SEP.2005 13:23:46

Permitted frequency band:	<b>13,553 MHz - 13,567 MHz</b>	
20 dB bandwidth:	<b>0,820 kHz</b>	
Carrier frequency stability:	<input checked="" type="checkbox"/> <b>specified</b>	<input type="checkbox"/> <b>not specified</b>
Maximum frequency tolerances:	<b>+0,433 kHz - 0,228 kHz</b>	
Emission frequency range:	<b>13,55927 - 13,56075 MHz</b>	<b>within permitted frequency band<sup>9</sup>:</b>
Bandwidth of the emission:	<b>1,48 kHz</b>	<input checked="" type="checkbox"/> <b>yes</b> <input type="checkbox"/> <b>no</b>

Test Result:	Test passed
--------------	-------------

<sup>9</sup> If a frequency stability is not specified, it is recommended that the fundamental emission is kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### 8.3 Designation of Emissions

Rules and specifications:	CFR 47 Part 2, sections 2.201 and 2.202 IC RSS-Gen Issue 1, sections 3.2(h) and 8
Guide:	ANSI C63.4 / TRC-43

Type of modulation:	Amplitude Modulation
---------------------	----------------------

$B_n$ = Necessary Bandwidth	$B_n = 2BK$
$B$ = Modulation rate	$B = 350 \text{ Hz}$
$K$ = Overall numerical factor	$K = 1$
Calculation:	$B_n = 2 \cdot 350 \text{ Hz} \cdot 1 = 700 \text{ Hz}$

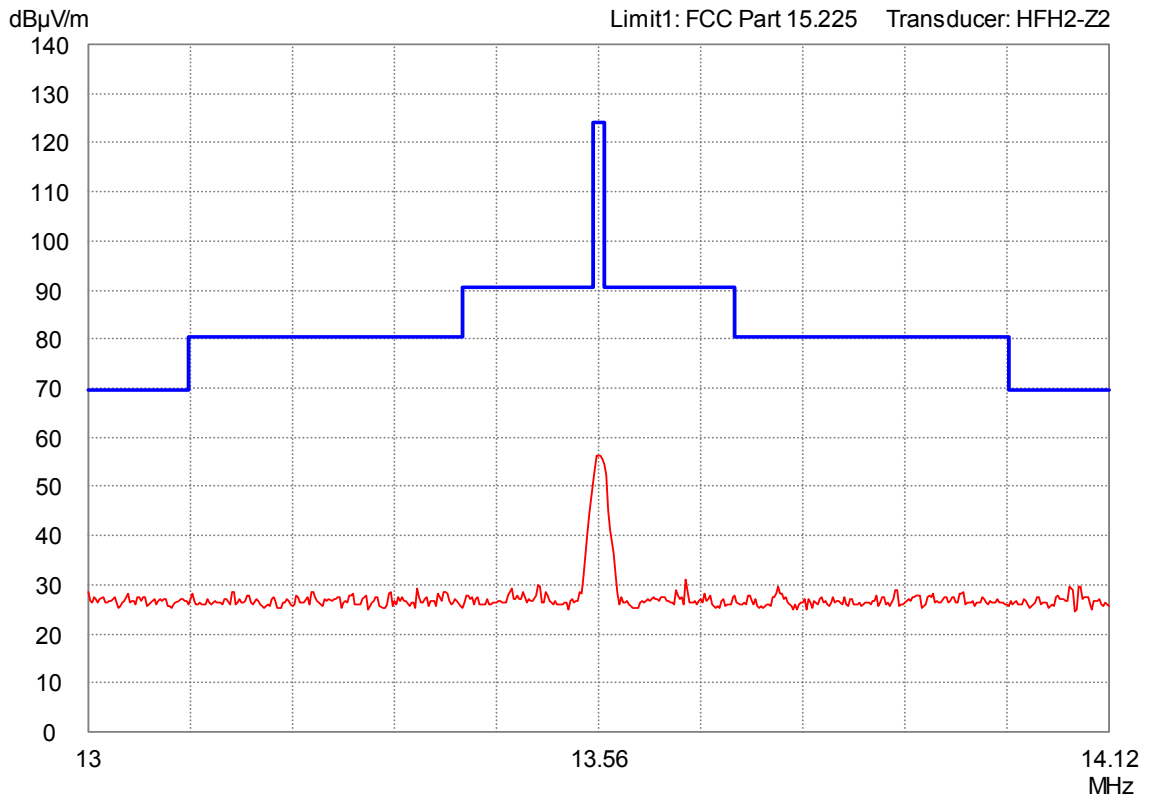
Designation of Emissions:	<b>0700A1D</b>
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## 8.4 Spectrum Mask

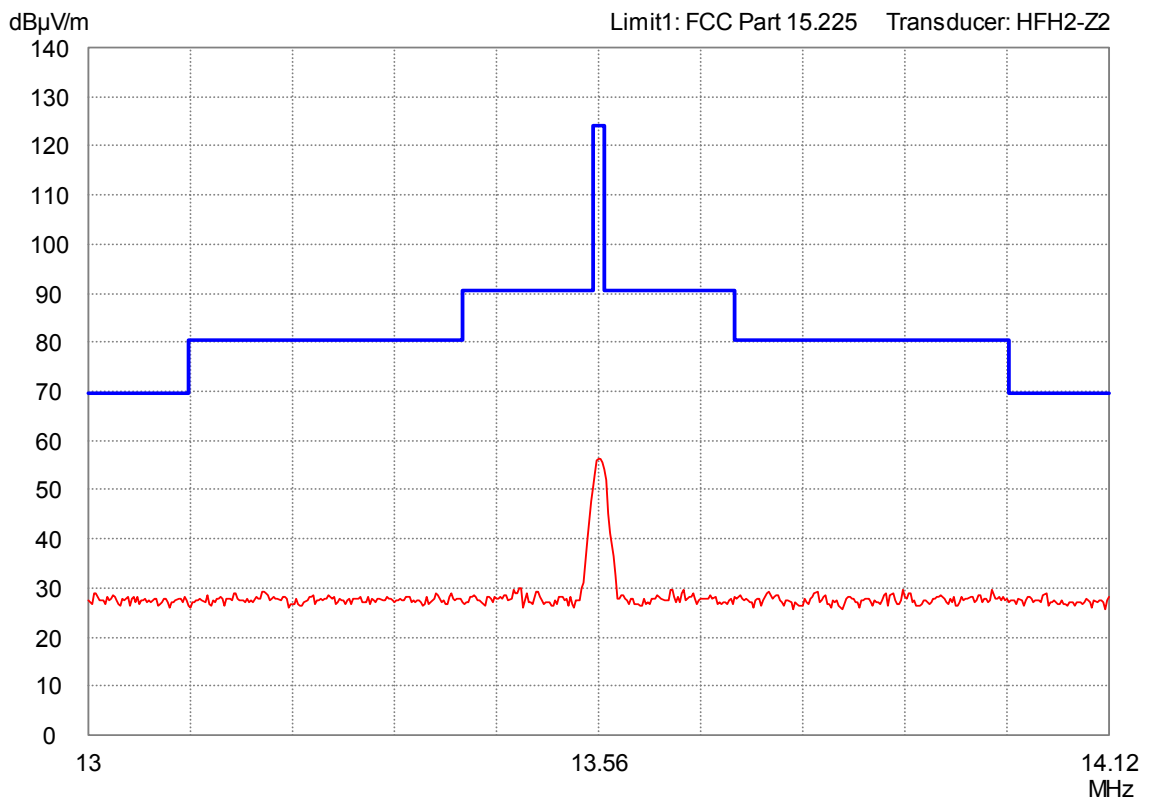
Rules and specifications:	CFR 47 Part 15, section 15.225(a)-(d) IC RSS-210 Issue 6, section A2.6			
Guide:	ANSI C63.4			
Description:	Compliance with the spectrum mask is tested using a spectrum analyzer with resolution bandwidth set to a 1 kHz for the band 13.553 to 13.567 MHz and to 10 kHz outside this band. The video bandwidth shall be at least three times greater than the resolution bandwidth.			
Limit:	Frequency of Emission (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ )	Field Strength ( $\text{dB}\mu\text{V}/\text{m}$ )	Measurement Distance d (meters)
	1.705 - 13.110	30	29.5	30
	13.110 - 13.410	106	40.5	30
	13.410 - 13.553	334	50.5	30
	13.553 - 13.567	15848	84.0	30
	13.567 - 13.710	334	50.5	30
	13.710 - 14.010	106	40.5	30
	14.010 - 30.000	30	29.5	30
Measurement procedure:	Radiated Emission Measurement 9 kHz to 30 MHz (6.2)			

Comment:	---
Date of test:	July 19, 2005
Test site:	Fully anechoic room, cabin no. 2
Test distance:	3 meters
Extrapolation Factor:	-40 dB/decade

Test Result:	Test passed
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with TAG



without TAG

## 8.5 Radiated Emission Measurement 9 kHz to 30 MHz

Rules and specifications:	CFR 47 Part 15, sections 15.205 and 15.225(a)-(d) IC RSS-210 Issue 6, sections 2.2(b)(c), 2.6 and A2.6			
Guide:	ANSI C63.4			
Limit:	Frequency of Emission (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ )	Field Strength ( $\text{dB}\mu\text{V}/\text{m}$ )	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 - 13.110	30	29.5	30
	13.110 - 13.410	106	40.5	30
	13.410 - 13.553	334	50.5	30
	13.553 - 13.567	15848	84.0	30
	13.567 - 13.710	334	50.5	30
	13.710 - 14.010	106	40.5	30
	14.010 - 30.000	30	29.5	30
Additionally, the level of any unwanted emissions shall not exceed the level of the fundamental emission.				
Measurement procedure:	Radiated Emission Measurement 9 kHz to 30 MHz (6.2)			

Comment:	---
Date of test:	July 18, 2005
Test site:	Open field test site

Test Result:	Test passed
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Frequency (MHz)	Detector	Distance $d_1$ (m)	Reading Value ( $\text{dB}\mu\text{V}$ )	Correction Factor ( $\text{dB}/\text{m}$ )	Extrapolation Factor (dB)	Pulse Train Correction (dB)	Final Value ( $\text{dB}\mu\text{V}/\text{m}$ )	Limit ( $\text{dB}\mu\text{V}/\text{m}$ )	Margin (dB)
13.560	Quasi-Peak	30	15.0	20.0			35.0	84.0	<b>49.0</b>

### Sample calculation of final values:

$$\begin{aligned} \text{Extrapolation Factor (dB)} &= (\text{Log}(d) - \text{Log}(d_1)) \cdot \text{Extrapolation Factor (dB/decade)} \\ \text{Final Value (dB}\mu\text{V}/\text{m)} &= \text{Reading Value } d_1 \text{ (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} \\ &\quad + \text{Extrapolation Factor (dB)} + \text{Pulse Train Correction (dB)} \end{aligned}$$



## 8.6 Radiated Emission Measurement 30 MHz to 1 GHz

Rules and specifications:	CFR 47 Part 15, sections 15.205(b) and 15.225(d) IC RSS-210 Issue 6, sections 2.2 (b)-(c) and 2.7 Table 2		
Guide:	ANSI C63.4		
Limit:	Frequency of Emission (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ )	Field Strength (dB $\mu\text{V}/\text{m}$ )
	30 - 88	100	40.0
	88 - 216	150	43.5
	216 - 960	200	46.0
	Above 960	500	54.0
	Additionally, the level of any unwanted emissions shall not exceed the level of the fundamental emission.		
Measurement procedures:	Radiated Emission in Fully or Semi Anechoic Room (6.3) Radiated Emission at Open Field Test Site (6.4)		

Comment:	---
Date of test:	July 18, 2005
Test site:	Frequencies $\leq$ 1 GHz: Open field test site Frequencies $>$ 1 GHz: Fully anechoic room, cabin no. 2
Test distance:	3 meters

Test Result:	Test passed
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Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dB $\mu\text{V}$ )	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dB $\mu\text{V}/\text{m}$ )	Limit (dB $\mu\text{V}/\text{m}$ )	Margin (dB)
149.160	vertical	Quasi-Peak	19.8	13.6		33.4	43.5	10.1
176.280	vertical	Quasi-Peak	18.5	15.1		33.6	43.5	9.9

### Sample calculation of final values:

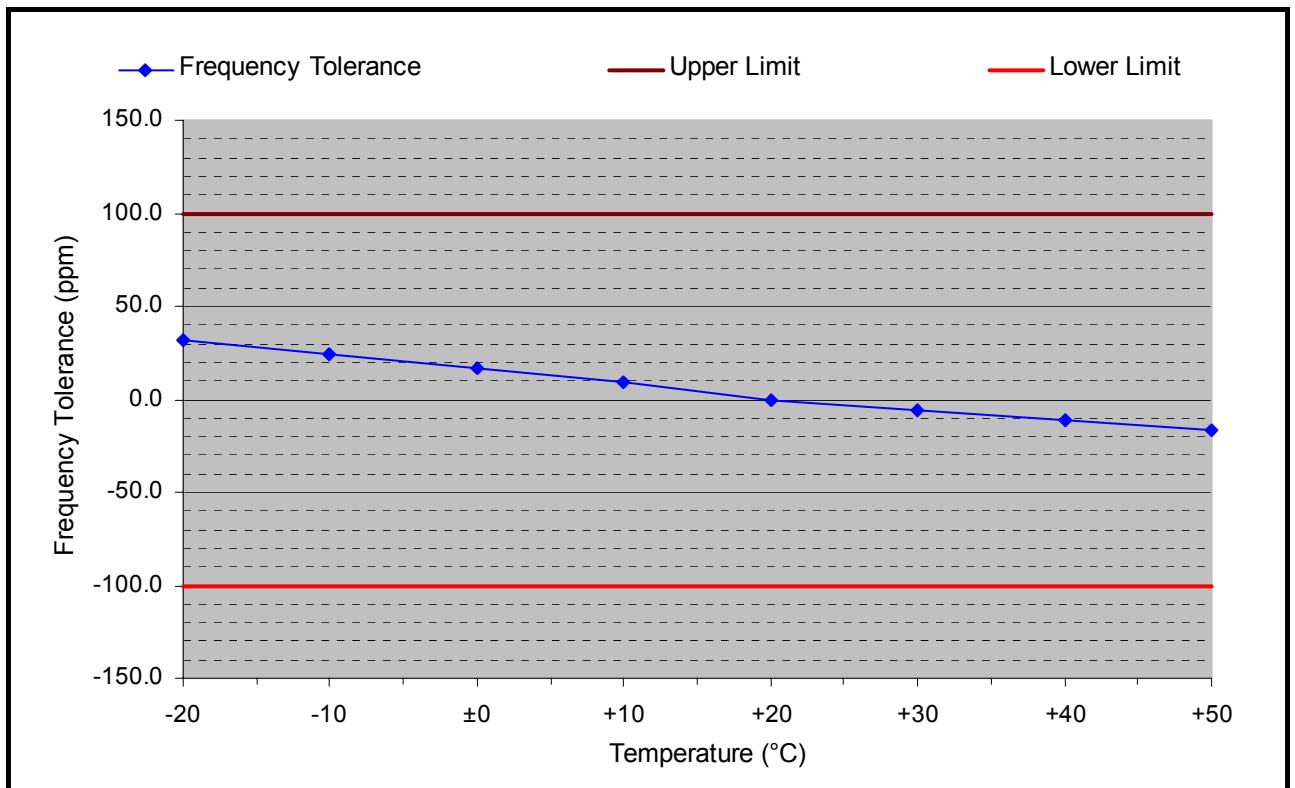
$$\text{Final Value (dB}\mu\text{V}/\text{m)} = \text{Reading Value (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} + \text{Pulse Train Correction (dB)}$$

## 8.7 Carrier Frequency Stability

Rules and specifications:	CFR 47 Part 15, section 15.225(e) IC RSS-Gen Issue 1, section 4.5 and IC RSS-210 Issue 6, section A2.6
Guide:	ANSI C63.4
Limit:	The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ ( $\pm 100$ ppm) of the carrier frequency under nominal conditions.
Temperature range:	-20°C to +50°C (at normal supply voltage)
Voltage range:	85% to 115% of the rated supply voltage (at a temperature of +20 °C)
Measurement procedure:	Carrier Frequency Stability (6.5)

Comment:	---
Date of test:	July 19, 2005

### 8.7.1 Carrier Frequency Stability vs. Temperature

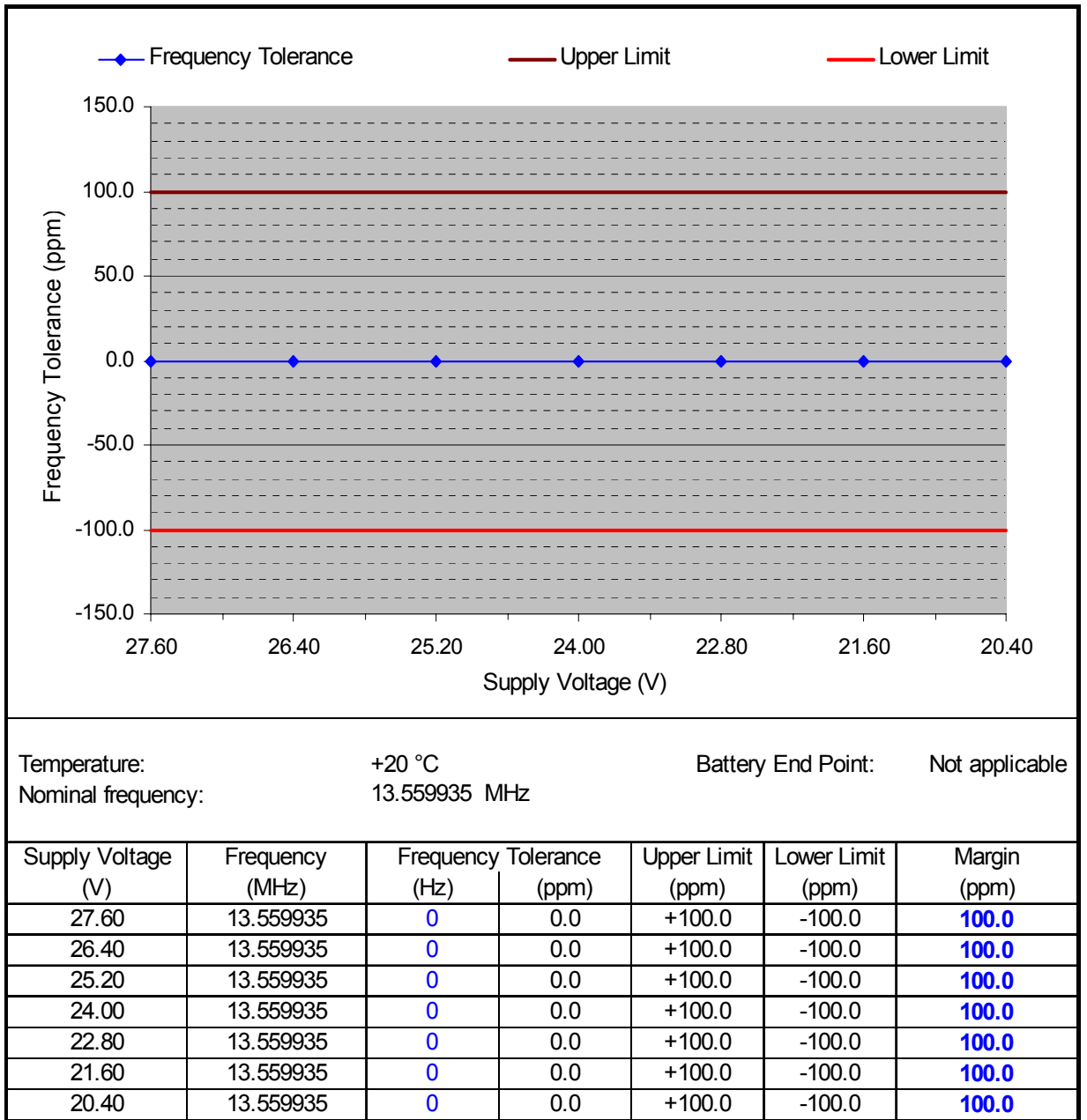


Supply voltage: 24.0V      Nominal frequency: 13.560000 MHz

Temperature (°C)	Frequency (MHz)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Upper Limit (ppm)	Lower Limit (ppm)	Margin (ppm)
-20	13.560368	433	31.9	+100.0	-100.0	68.1
-10	13.560267	332	24.5	+100.0	-100.0	75.5
±0	13.560161	226	16.7	+100.0	-100.0	83.3
+10	13.560058	123	9.1	+100.0	-100.0	90.9
+20	13.559935	0	0.0	+100.0	-100.0	100.0
+30	13.559853	-82	-6.0	+100.0	-100.0	94.0
+40	13.559779	-156	-11.5	+100.0	-100.0	88.5
+50	13.556707	-228	-16.8	+100.0	-100.0	83.2

Test Result: Test passed

### 8.7.2 Carrier Frequency Stability vs. Supply Voltage



Test Result: Test passed

## 8.8 Exposure of Humans to RF Fields

Rules and specifications:	IC RSS-Gen Issue 1, section 5.5
Guide:	IC RSS-102 Issue 1, section 4.1

Exposure of Humans to RF Fields	Applicable	Declared by applicant	Measured	Exemption
<b>The transmitter is for</b>				
<input checked="" type="checkbox"/> fixed use <input type="checkbox"/> mobile use <input type="checkbox"/> portable use		<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>The antenna is</b>				
<input type="checkbox"/> detachable				
The output power (TP in watts) is measured at the antenna connector: $TP = \dots\dots\dots \text{W}$ Numerical gain of the antenna: $G = \dots\dots\dots$		<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> not detachable				
A field strength measurement is used to determine the output power (TP in watts) given by <sup>10</sup> : $TP = \frac{(FS \cdot D)^2}{30 \cdot G} \Rightarrow TP = 95 \text{ nW}$ with: Field strength <sup>11</sup> in V/m: $FS = 56,2 \mu\text{V/m}$ Distance between the two antennas in m: $D = 30 \text{ m}$ Numerical gain of the antenna: $G = 1$		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>SAR and RF evaluation</b>				
$EIRP = G \cdot TP \Rightarrow EIRP = \dots\dots\dots \text{W}$				
<input checked="" type="checkbox"/> Transmitter is operating at frequencies below 1.0 GHz with an output power TP equal to or less than 200 milliwatts (mW). <input type="checkbox"/> Transmitter is operating at frequencies between 1.0 and 2.2 GHz with an output power TP equal to or less than 100 milliwatts (mW). <input type="checkbox"/> Transmitter is for mobile use and operating frequency is below 1.5 GHz with effective radiated power (ERP) of 1.5 watts or less (i.e. EIRP of 2.5 watts or less). <input type="checkbox"/> Transmitter is for mobile use and operating frequency is above 1.5 GHz with ERP of 3 watts or less (i.e. EIRP of 5 watts or less). <input type="checkbox"/> SAR and/or RF evaluation is documented in test report no. ....				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

<sup>10</sup> The conversion formula is valid only for properly matched antennas. In other cases the transmitter output power may have to be measured by a terminated measurement when applying the exemption clauses.

<sup>11</sup> If an open area test site is used for field strength measurement, the effect due to the metal ground reflecting plane should be subtracted from the maximum field strength value in order to reference it to free space, before calculating TP.

## 9 Referenced Regulations

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

<input checked="" type="checkbox"/>	CFR 47 Part 2	Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC)	October 10, 2004
<input checked="" type="checkbox"/>	CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	September 19, 2005
<input checked="" type="checkbox"/>	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	December 11, 2003 (published on January 30, 2004)
<input checked="" type="checkbox"/>	RSS-Gen	Radio Standards Specification RSS-Gen Issue 1 containing General Requirements and Information for the Certification of Radiocommunication Equipmment, published by Industry Canada	September 2005
<input checked="" type="checkbox"/>	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
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	RSS-102	Radio Standards Specification RSS-102 Issue 1: Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields, published by Industry Canada	September 25, 1999
<input type="checkbox"/>	ICES-003	Interference-Causing Equipment Standard ICES-003 Issue 4 for Digital Apparatus, published by Industry Canada	February 7, 2004
<input checked="" type="checkbox"/>	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
<input type="checkbox"/>	CAN/CSA-CEI/IEC CISPR 22	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	2002
<input checked="" type="checkbox"/>	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

## 10 Charts taken during testing

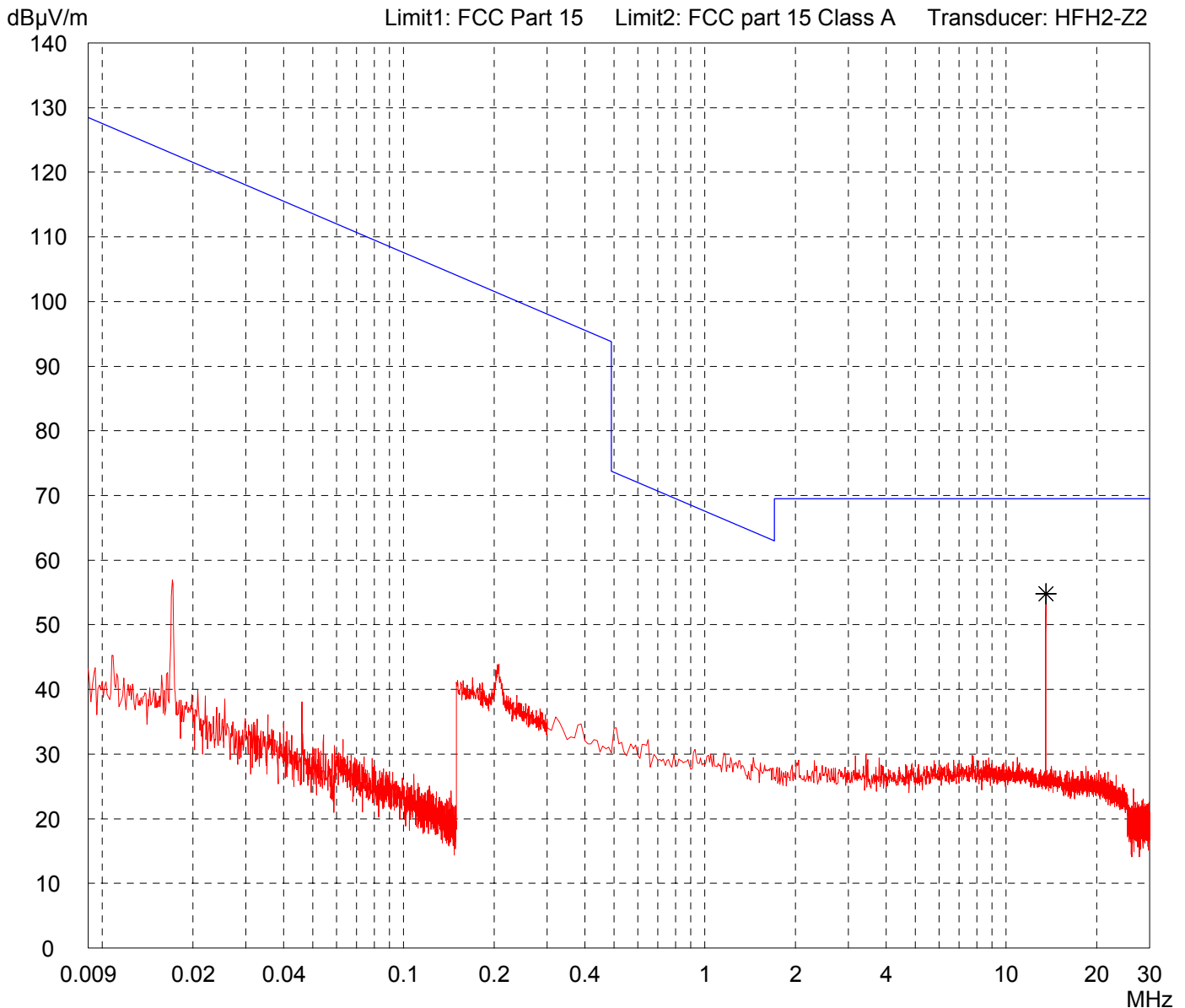
# Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: by hand	File name: default.emi

Comment:  - TX mode  - with TAG  - EUT powered from external power supply 24V DC
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Detector: Peak
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List of values: Selected by hand
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Result: Prescan
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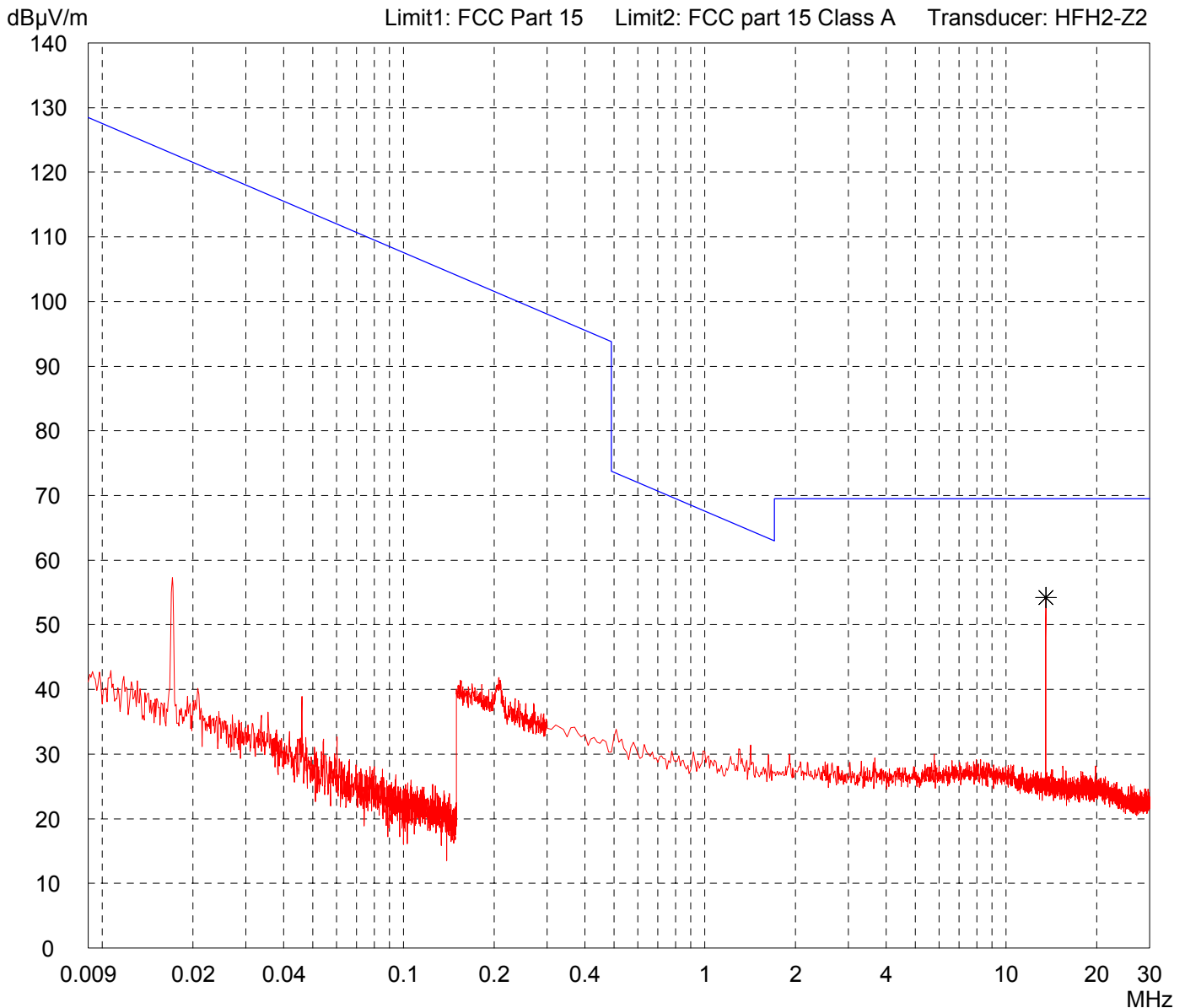
# Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: by hand	File name: default.emi

Comment:  - TX mode  - without TAG  - EUT powered from external power supply 24V DC
--

Detector: Peak
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List of values: Selected by hand
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Result: Prescan
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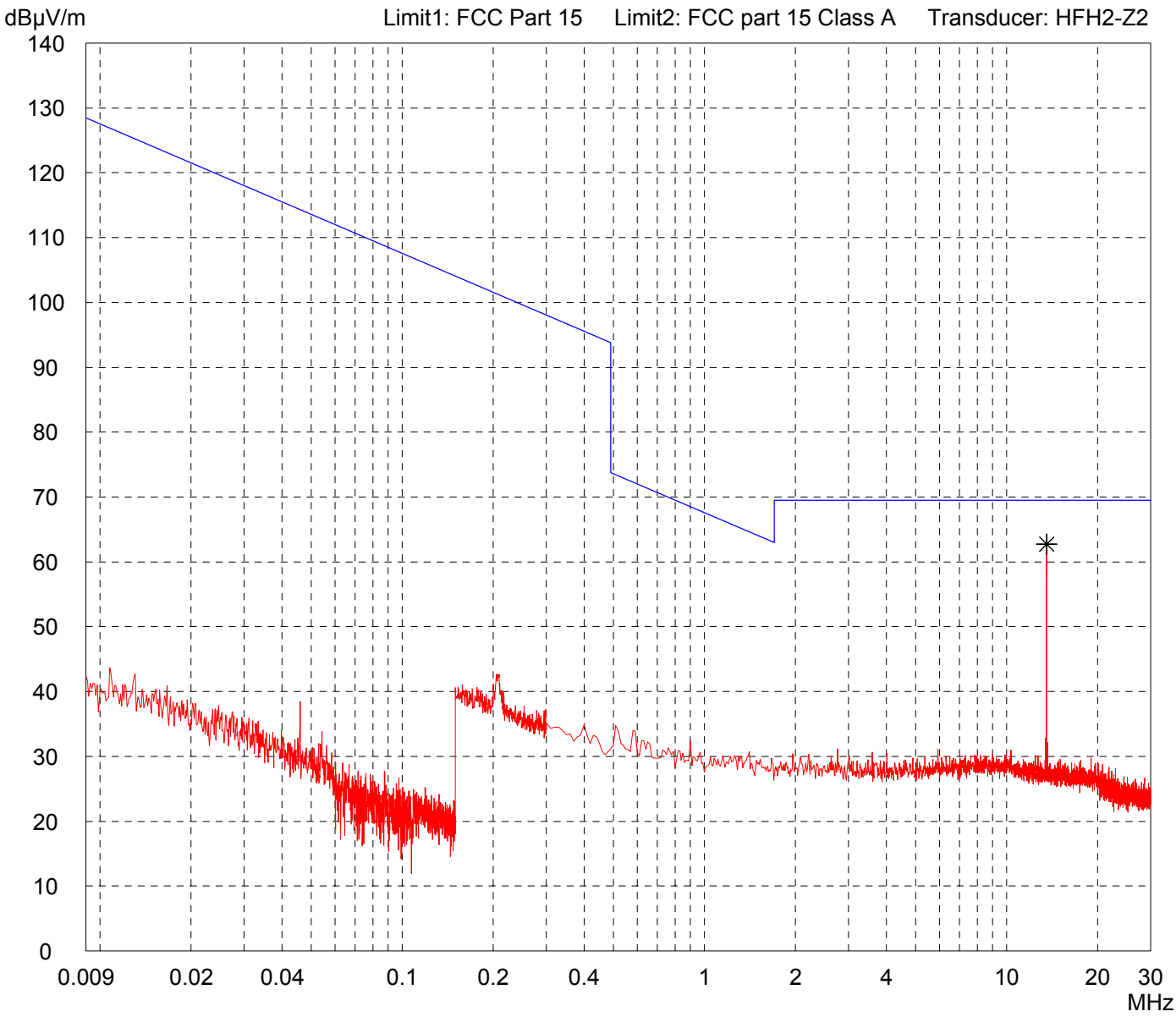
# Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: by hand	File name: default.emi

Comment:	
- TX mode	
- with TAG	
- EUT powered from external power supply 24V DC	

Detector: Peak
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List of values:	16 Subranges
10 dB Margin	



Result: Prescan
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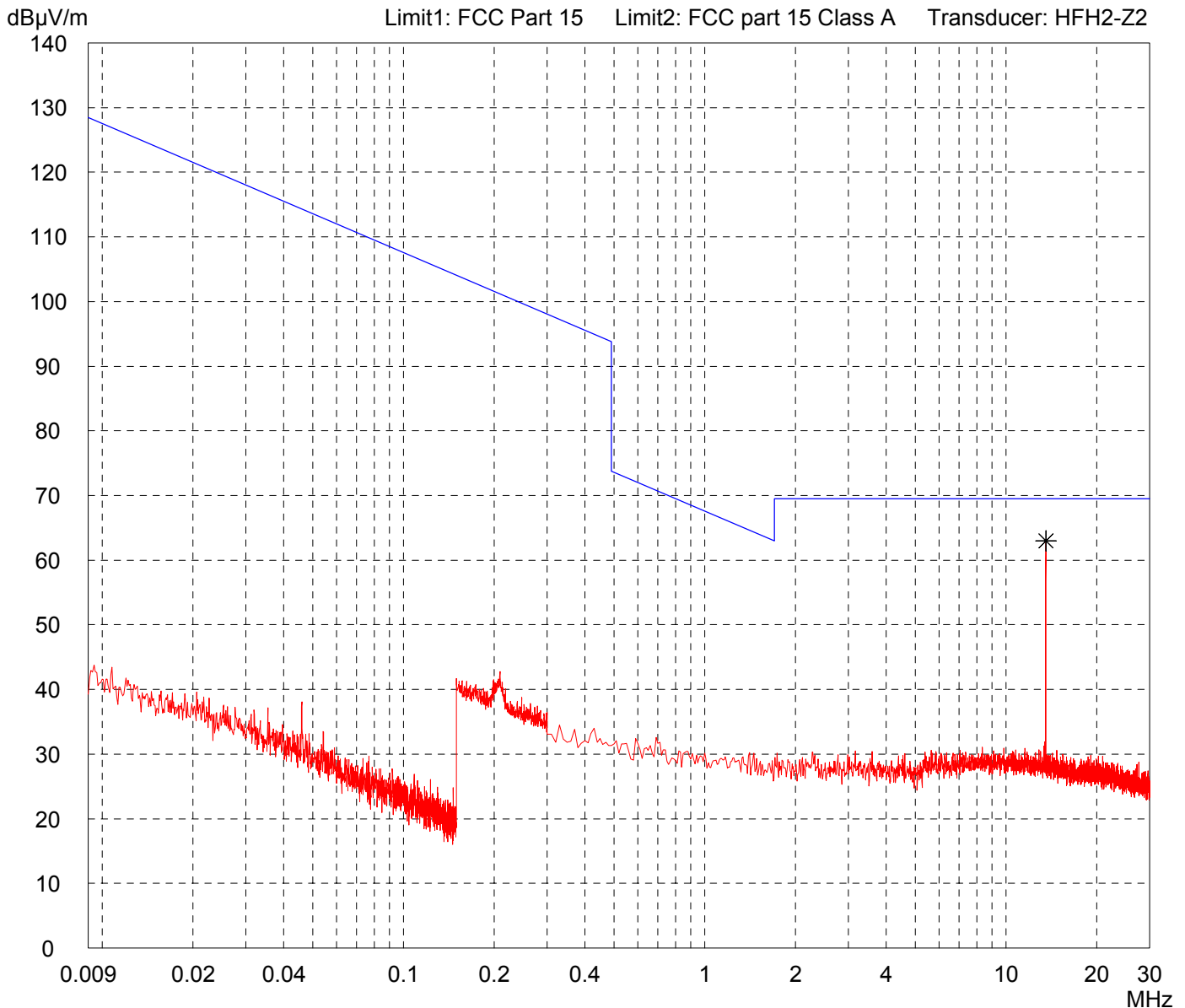
# Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: by hand	File name: default.emi

Comment:	
- TX mode	
- without TAG	
- EUT powered from external power supply 24V DC	

Detector: Peak
-------------------

List of values:	16 Subranges
10 dB Margin	



Result: Prescan
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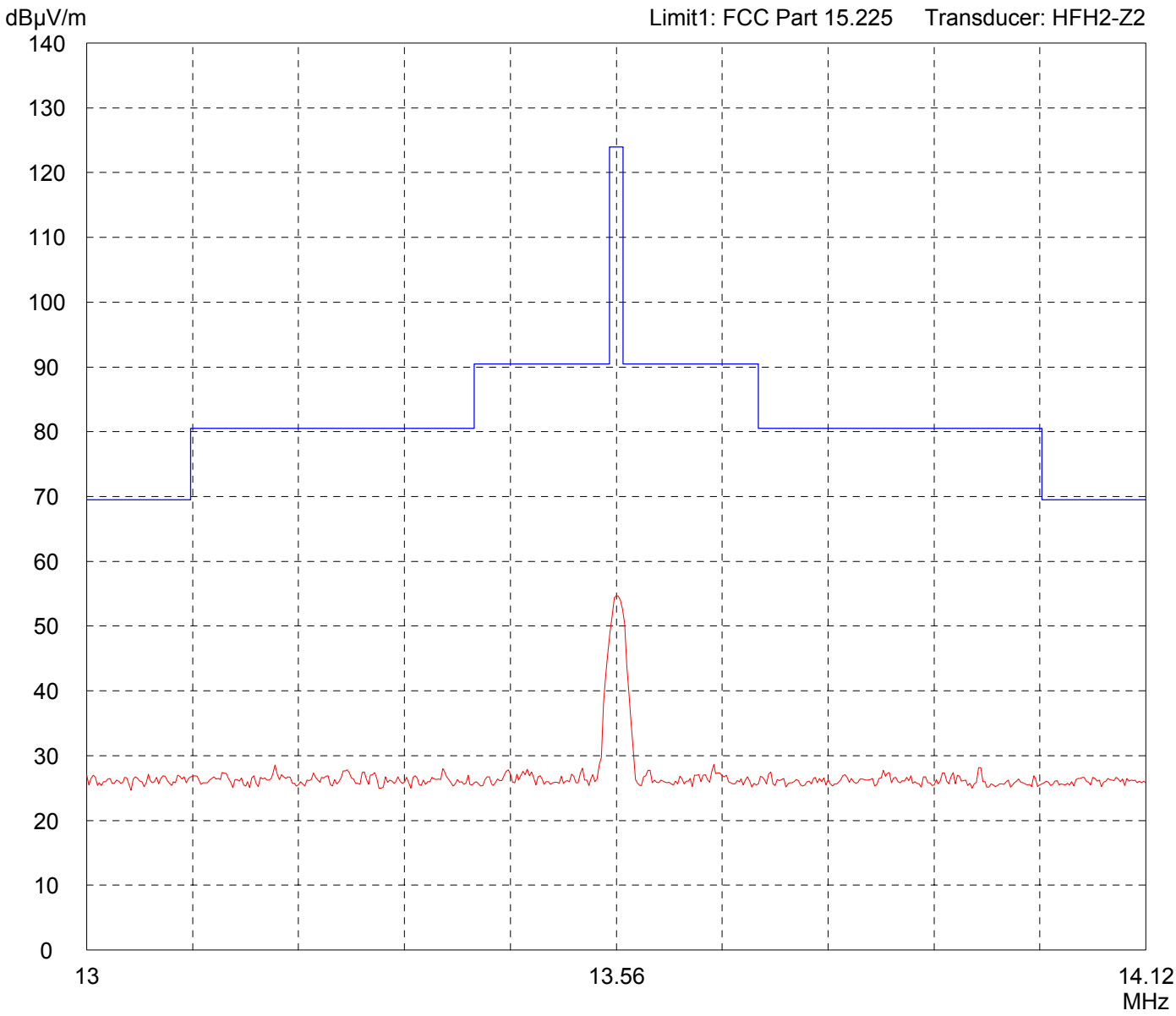
# Radiated Emission Test 13 MHz - 14.12 MHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: by hand	File name: default.emi

Comment:  - TX mode  - with TAG  - EUT powered from external power supply 24V DC
---

Detector: Peak
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List of values: 10 dB Margin	50 Subranges
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Result: Prescan
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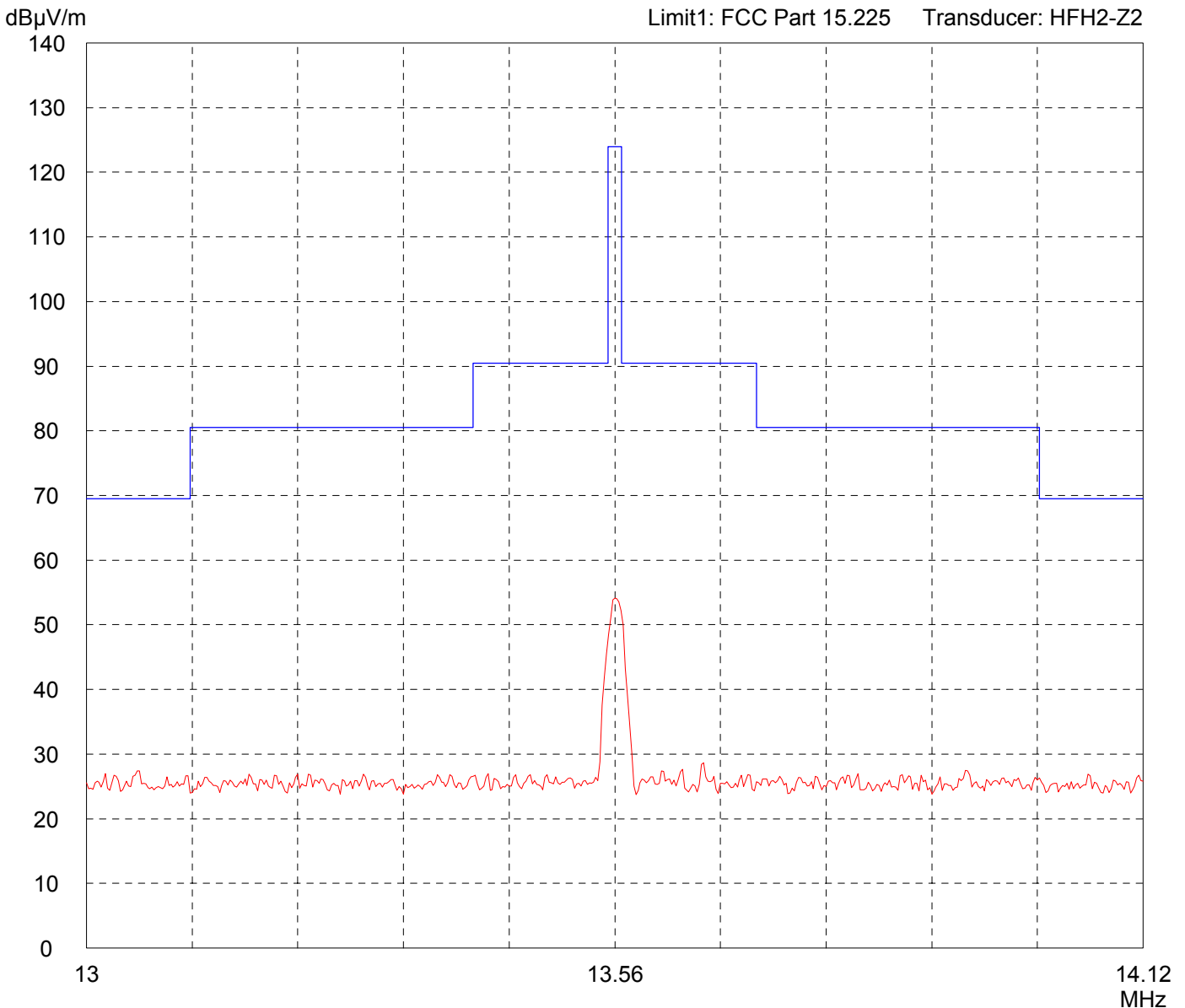
# Radiated Emission Test 13 MHz - 14.12 MHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: by hand	File name: default.emi

Comment:	
- TX mode	
- without TAG	
- EUT powered from external power supply 24V DC	

Detector: Peak
-------------------

List of values: 10 dB Margin	50 Subranges
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Result: Prescan
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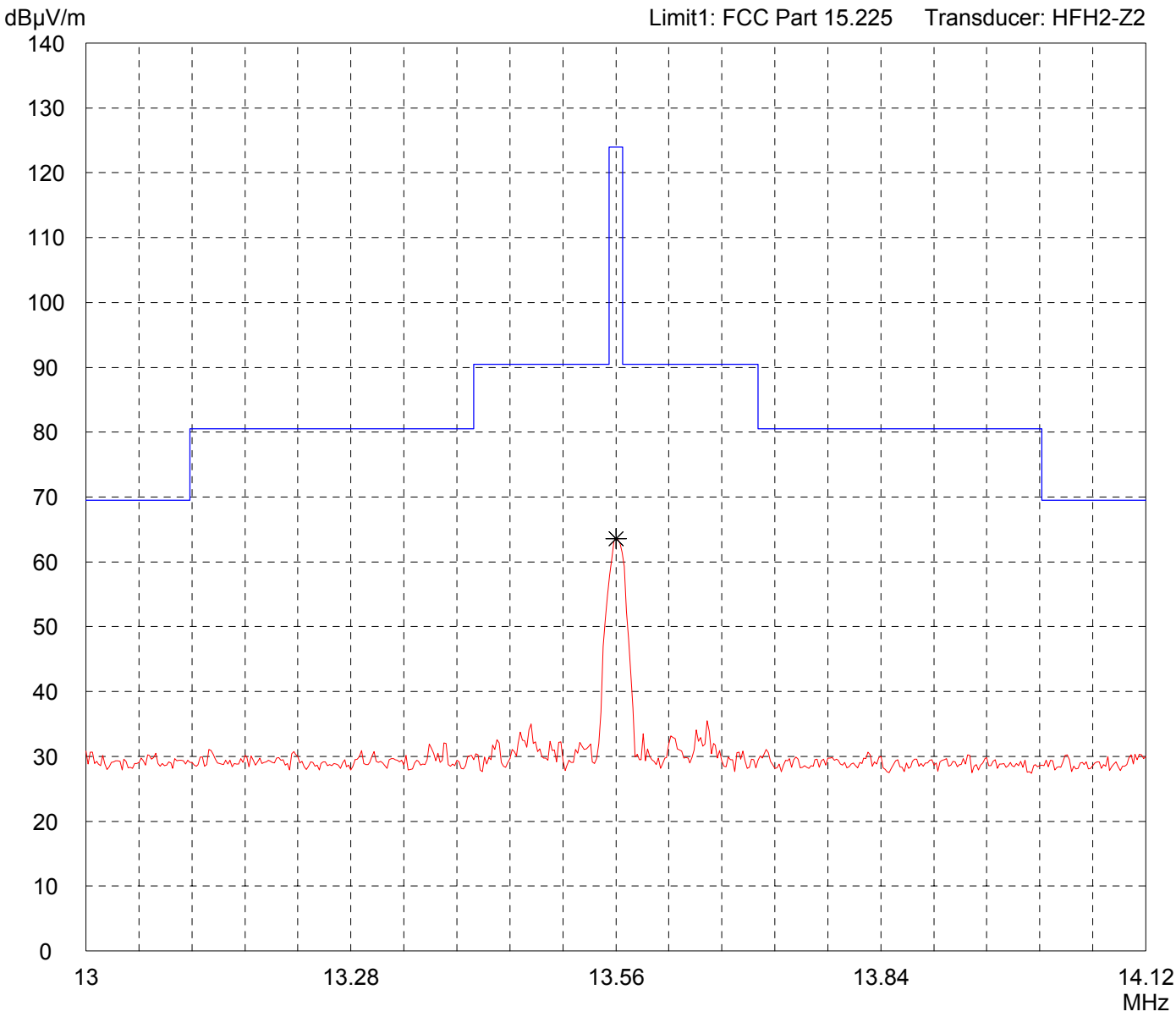
# Radiated Emission Test 13 MHz - 14.12 MHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: by hand	File name: default.emi

Comment:  - TX mode  - without TAG  - EUT powered from external power supply 24V DC
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Detector: Peak
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List of values: Selected by hand
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Result: Limit kept
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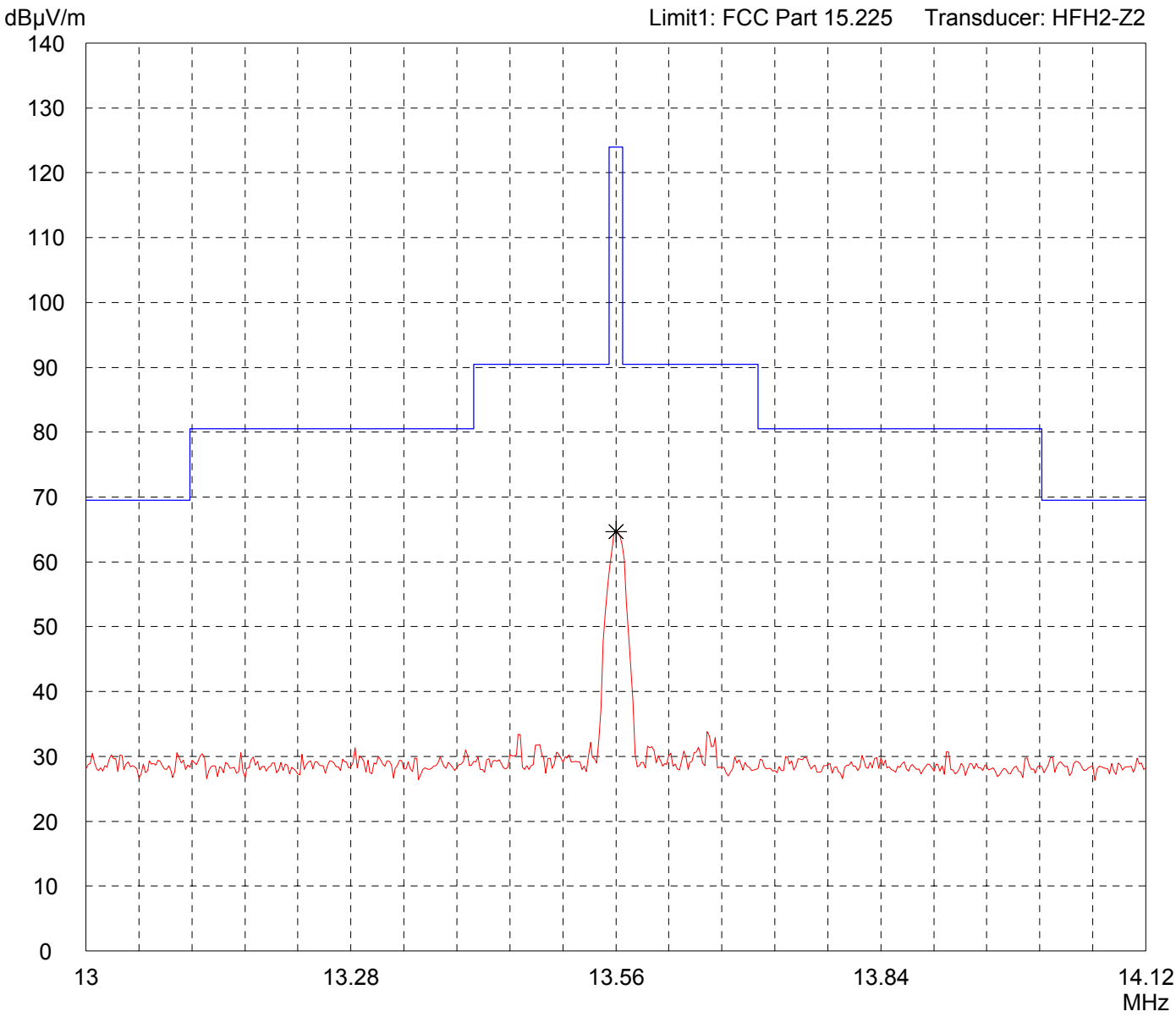
# Radiated Emission Test 13 MHz - 14.12 MHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: by hand	File name: default.emi

Comment:  - TX mode  - with TAG  - EUT powered from external power supply 24V DC
---

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Limit kept
-----------------------

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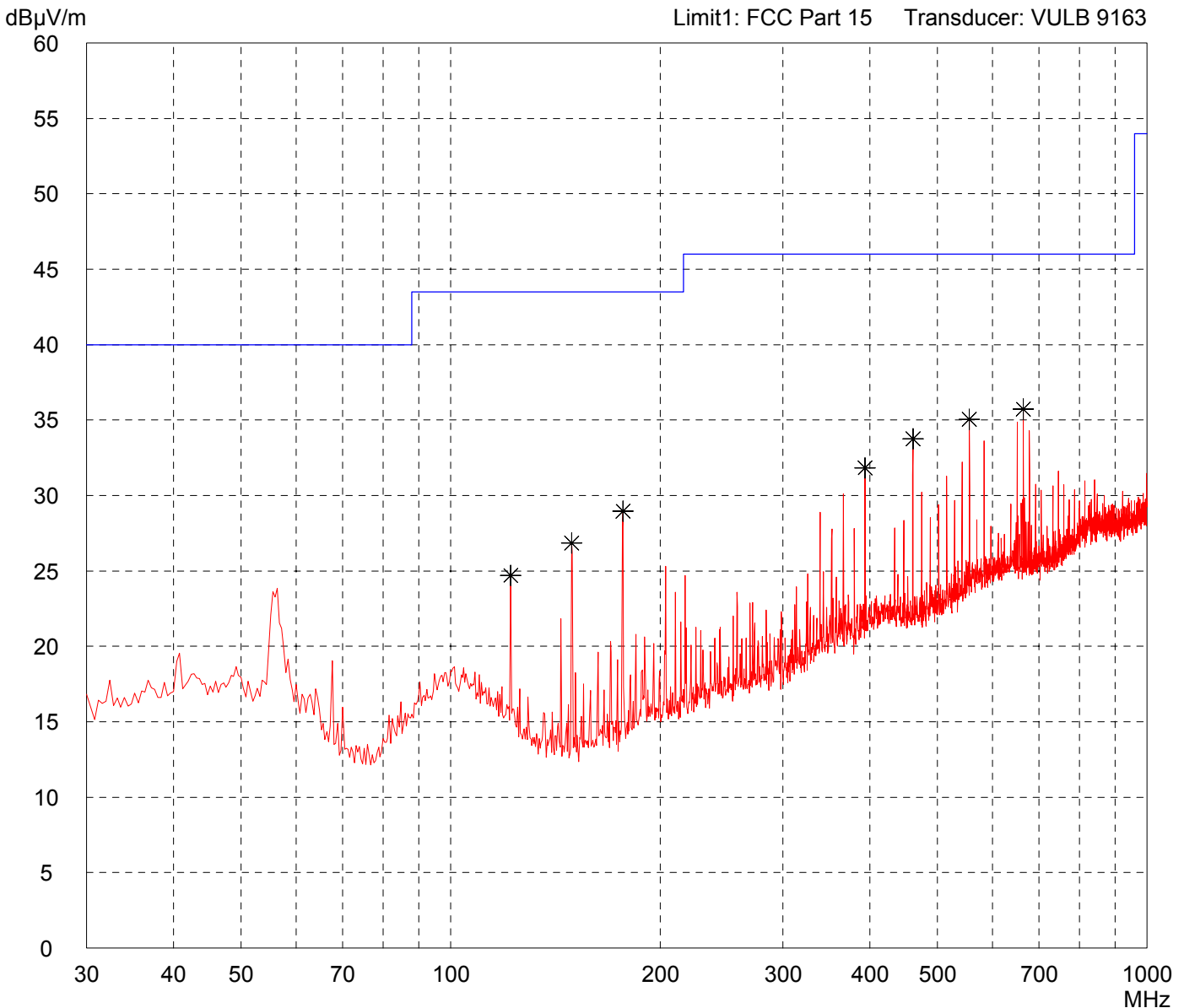
# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Comment:  - TX mode  - without TAG  - EUT powered from external power supply 24V DC
--

Detector: Peak
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List of values: Selected by hand
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Result: Prescan
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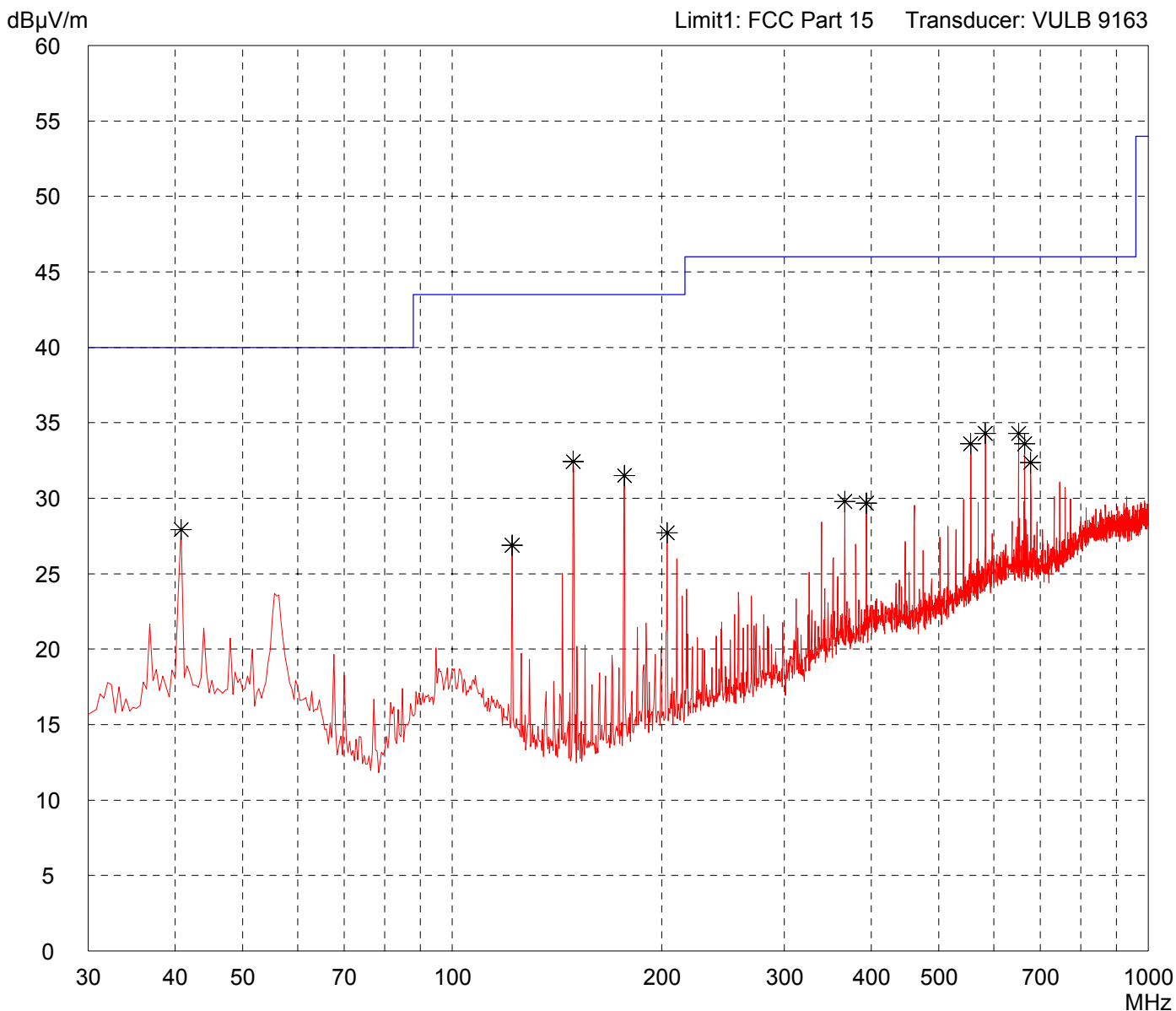
# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Comment:  - TX mode  - without TAG  - EUT powered from external power supply 24V DC
--

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Prescan
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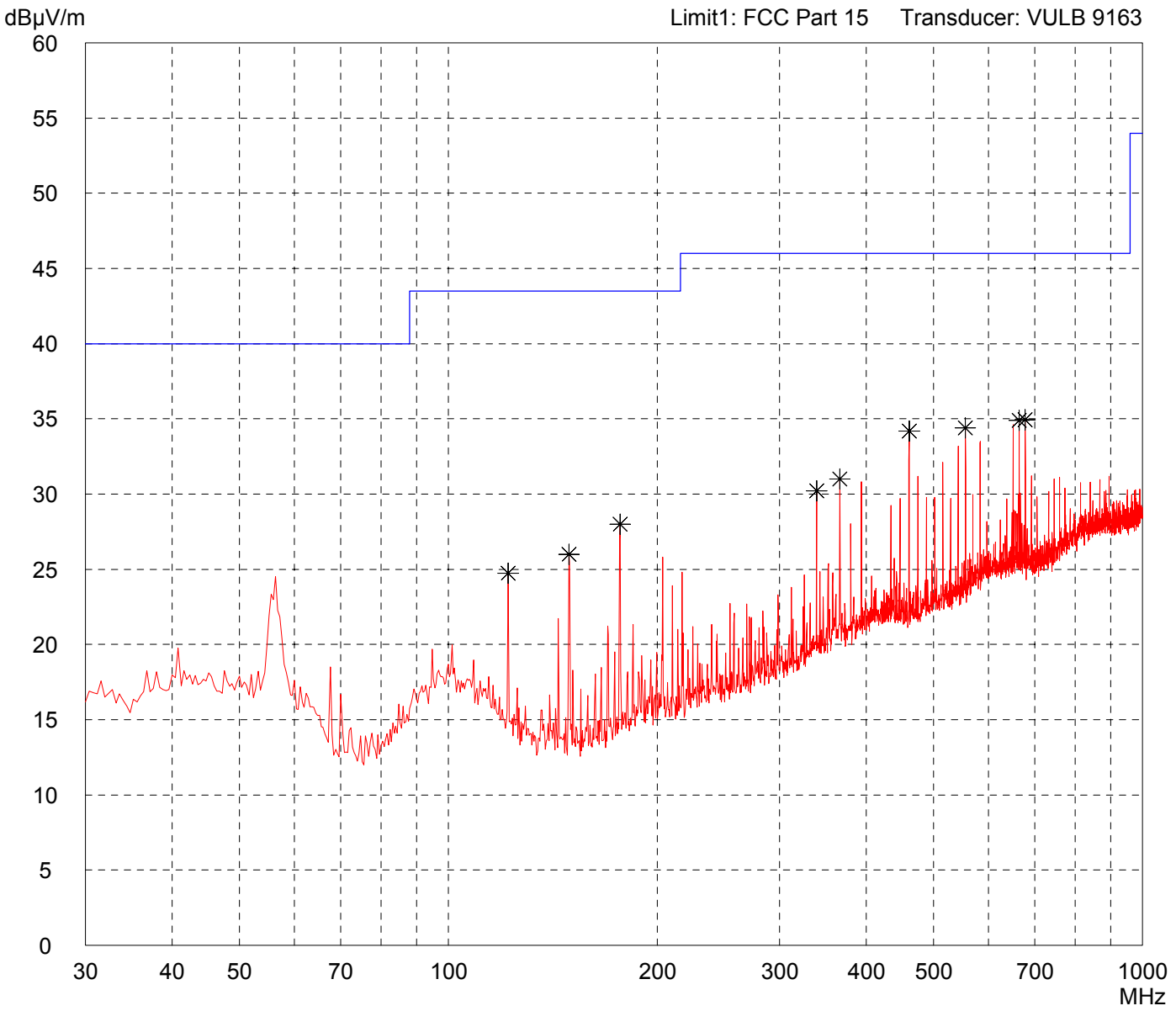
# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Comment:  - TX mode  - with TAG  - EUT powered from external power supply 24V DC
---

Detector: Peak
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List of values: Selected by hand
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Result: Prescan
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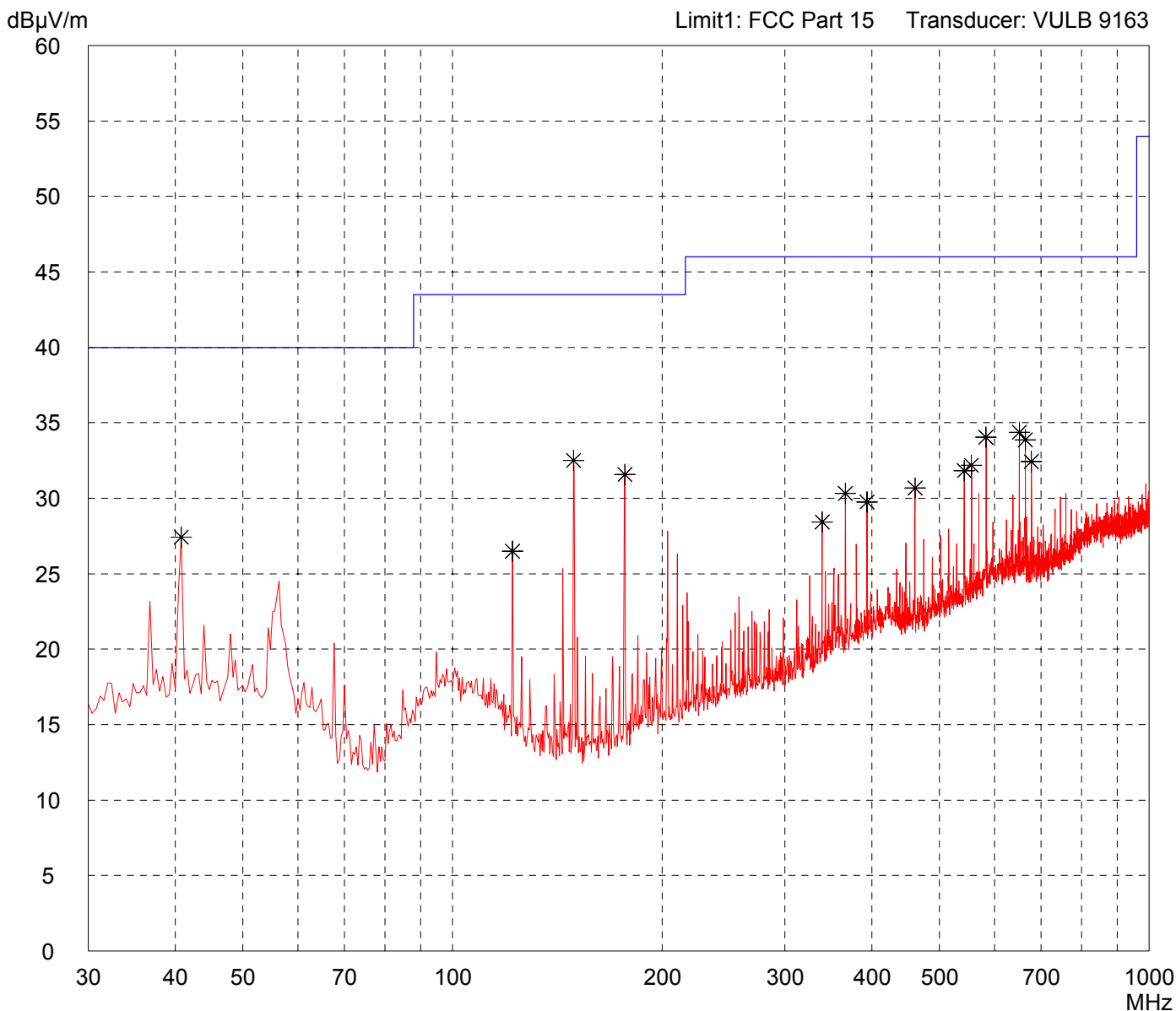
# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SLG RF310-R IQ (MOBY P)	
Serial no.: 0 series 1	
Applicant: Siemens AG, Fürth	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/18/2005	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Comment:  - TX mode  - with TAG  - EUT powered from external power supply 24V DC
---

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Prescan
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