

Straubing, January 9, 2003

TEST - REPORT

No. 56305-20559-6

for

0111-PC

RF-modem for wireless LAN

Applicant: Agere Systems Nederland B.V.

Purpose of testing: To show compliance with

FCC Code of Federal Regulations,
Part 15 Subpart C, Section §15.247

RSS 210 Issue 5 (November 2001),
Section 6.2.2(o)

Note:

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

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1. Administrative Data

Equipment Under Test (EUT):	0111-PC
Serial number(s):	02UT45300010
Type of equipment:	RF-modem using DSSS technology for wireless connection for e.g. portable and mobile computers which have a PC-card-bus (PCMCIA).
Version:	as delivered
Parts/accessories:	see "Configuration of EUT and Peripheral Devices" on page 7
FCC-ID:	IMRPC2411B
Applicant:	Agere Systems Nederland B.V.
(full address)	Zadelstede 1-10 NL-3431 JZ Nieuwegein The Netherlands
Contract identification:	---
Contact person:	Mr. Wout Kerkhof
Manufacturer:	Agere Systems Nederland B.V.
Receipt of EUT:	November 19, 2002
Date of test:	December 16 to 19, 2002
Note:	---
Responsible for testing:	Rainer Heller
Responsible for test report:	Rainer Heller

2. Identification of Test Laboratory

Test Laboratory:
(full address): Senton GmbH EMI/EMC Test Center
Aeussere Fruehlingstrasse 45
D-94315 Straubing
Germany

Contact person: Mr. Johann Roidt
Communication: Telephone (+49) 0 94 21 / 55 22-0
Fax (+49) 0 94 21 / 55 22-99
eMail: Office@senton.de

FCC registration number: 90926
Industry Canada file number: IC 3050

3. Summary of Test Results

The tested sample (including accessories) complies with the requirements for

- maximum peak output power (§15.247.b / IC RSS-210 sec. 6.2.2(o)(b)),
- conducted emission 150 kHz - 30 MHz (§15.207/ IC RSS-210 sec. 6.6, 7.4) and
- radiated emission (§15.247.c, §15.205.a,b, §15.209/ IC RSS-210 sec. 6.2.2(o)(e1), 6.3, 7.3)

set forth in the Code of Regulations Part 15 Subpart C, section §15.247 (intentional radiators) of the Federal Communication Commission (FCC) and the Radio Standards Specification RSS-210, Issue 5 (November 2001), section 6.2.2(o) of Industry Canada.



Johann Roidt
Technical Manager



Rainer Heller
Test Engineer

4. Operation Mode of EUT

All tests were performed using the "Test program for wireless cards V0.47" ("wincert.exe"). According to applicant three different kinds of modulation are used for transmission specified by the appropriate bit rate:

Transmit mode (TX):

Operating frequency [GHz]	Rated output power (conducted) [dBm]			Test performed ¹
	Bit rate 2 Mbps	Bit rate 5.5 Mbps	Bit rate 11 Mbps	
2.412	+15	+15	+15	X
2.417	+15	+15	+15	
2.422	+15	+15	+15	
2.427	+15	+15	+15	
2.432	+15	+15	+15	
2.437	+15	+15	+15	
2.442	+15	+15	+15	X
2.447	+15	+15	+15	
2.452	+15	+15	+15	
2.457	+15	+15	+15	
2.462	+15	+15	+15	X

Receive mode (RX):

Operating frequency [GHz]	Test performed
2.412	
2.417	
2.422	
2.427	
2.432	
2.437	
2.442	X
2.447	
2.452	
2.457	
2.462	

¹ Full testing with bit rate 11 Mbps only

5. Configuration of EUT and Peripheral Devices

RF-modem module 0111-PC was tested operating with external antenna WLE-DA connected and mounted in PC-card slot of personal computer Dell Dimension 4100 via PCI-adapter Orinoco PCIPC.

In table 1 used accessories and host equipment are listed (with Agere part numbers).

Item	Model or part no.	Serial no.	Designation	Manufacturer
RF-modem	023573/A	02UT45300010	0111-PC	Agere
External antenna (including fixed antenna cable)	---	Sample no. 1	WLE-DA (Specifications: Cable type: RG174 Cable length: 3m Antenna gain ² : 5 dBi)	Melco
Personal computer	---	CZPN30J	Dimension 4100	Dell
PCI-adapter	015219 Rev. A (Rev. 1.0)	22220114103558	PCIPC	Agere

Table 1: EUT and accessories

² Including cable attenuation

6. Setup of Host

Configuration of cables of host

- Non-shielded power lines for AC-power supply of personal computer and monitor, Kawasaki, 180 cm
- Shielded data cable connected to parallel interface of personal computer, Inmac, 150 cm, Senton inv.-no. 1387
- Shielded data cable connected to serial interface of personal computer, Senton, 170 cm, Senton inv.-no. 1401
- Shielded USB cable connected to USB port no. 2 of personal computer, Berg Electronics, 50 cm

Configuration of host and peripheral devices

- Personal computer Dell Dimension 4100
Serial no.: CZPN30J
- PS/2 keyboard Dell SK-8000-2D
Serial no.: CN-0043CK-38844-154-5637
- PS/2 mouse Microsoft IntelliMouse 1.2A PS/2 Compatible
Serial no.: 63618-OEM-8720065-9
- Monitor Dell P791 (with fixed video cable)
Serial no.: GB-049FYF-47604-0C8-D7K9
- Parallel printer HP ThinkJet 2225C+:
Serial no.: 3106S91193, FCC-ID: DSI6XU2225
with power supply Hayes 52-00008
Serial no.: 9028A
- Serial printer HP ThinkJet 2225D+:
Serial no.: 2920S44042, FCC-ID: DSI6XU2225
with power supply Hayes 52-00008
Serial no.: 9033A

7. Measuring Methods

7.1. Maximum Peak Output Power (CFR47 §15.247.b / IC RSS-210 sec. 6.2.2(o)(b))

The maximum peak output power was measured with a power meter. The appropriate sensors (a thermocouple sensor indicating the RMS power and a peak sensor indicating the peak envelope power PEP) were connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.

See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):

02, 08, 09, 19, 57, 68, 70

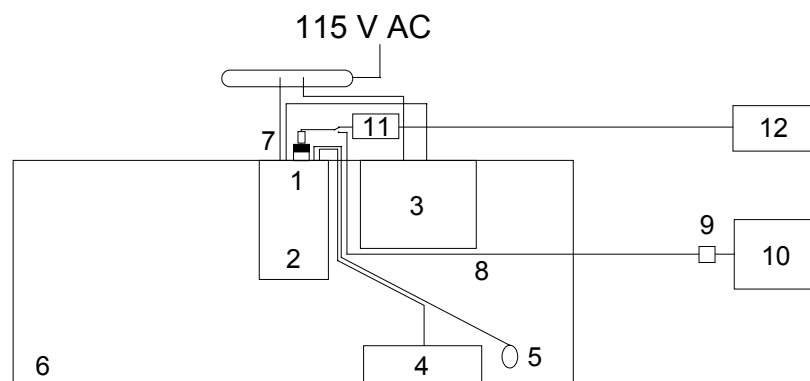


Figure 1: Measurement setup for testing on antenna connector

- | | |
|----------------------------|------------------------------|
| 1 RF-modem | 7 DC-block |
| 2 Personal computer (host) | 8 Test cable |
| 3 Monitor | 9 Attenuator (if applicable) |
| 4 Keyboard | 10 Spectrum analyzer |
| 5 Mouse | 11 Power sensor |
| 6 Wooden table | 12 Power meter |

**7.2. Conducted Emission 0.15 MHz - 30 MHz (CFR47 §15.207 / IC RSS-210
sec. 6.6, 7.4)**

Conducted emissions were measured in the frequency range 0.15 MHz to 30 MHz with bandwidth of the EMI-Receiver set to 10 kHz and according to the following procedure: First the whole spectrum of emission caused by equipment under test (EUT) was recorded with detector set to peak. After that all peak levels having less margin than 10 dB to the appropriate lower average limit were re-tested with detector set to quasi-peak. If average limit is kept no additional scan with average detector is necessary. In cases of emission levels between quasi-peak and average limit an additional scan with detector set to average has to be recorded.

Measurements were performed on phase(s) and neutral lines of the power-cords of the tested system. At the final test the cables and equipment were placed and moved within the range of positions likely to find their maximum emissions.
The test setup was made in accordance with ANSI C63.4-1992.

The bandwidth of the EMI-Receiver was set to 9 kHz with detector-function set to CISPR quasi-peak and, if necessary, additionally to average.

See figure 2 for the measurement setup.

Test equipment used (see equipment list for details):
04, 22, 23, 60, 63

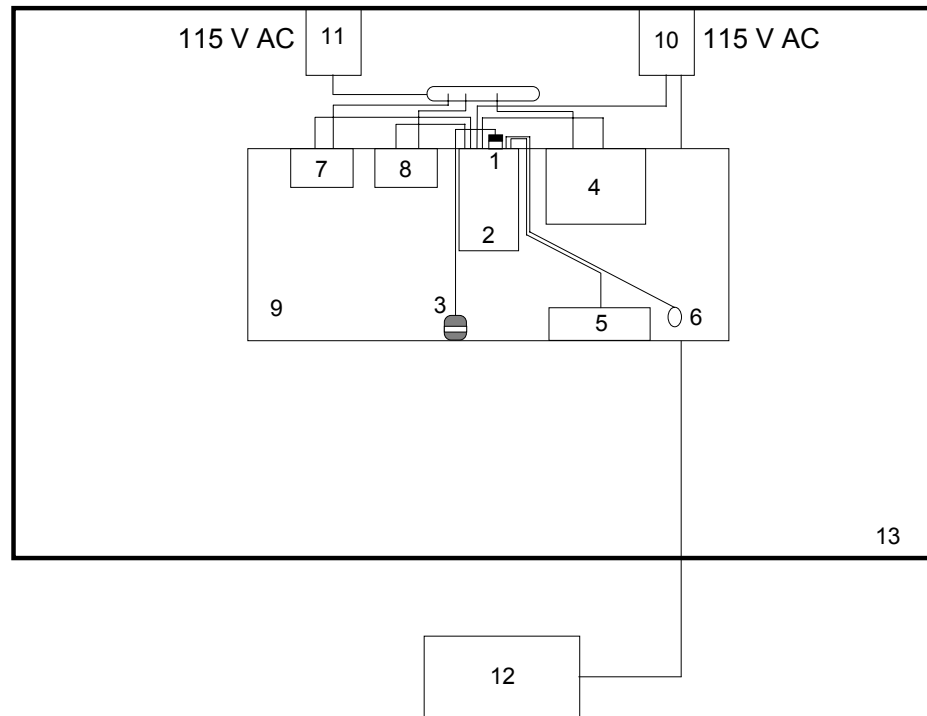


Figure 2: Measurement setup for conducted emission test

- | | | | |
|----------|--------------------------|-----------|-----------------------------|
| 1 | RF-modem | 10 | LISN for EUT |
| 2 | Personal computer (host) | 11 | LISN for peripheral devices |
| 3 | External antenna | 12 | Test receiver |
| 4 | Monitor | 13 | Shielded room |
| 5 | Keyboard | | |
| 6 | Mouse | | |
| 7 | Parallel printer | | |
| 8 | Serial printer | | |
| 9 | Wooden table | | |

7.3. Radiated Emission 30 MHz - 1 GHz (CFR47 §15.209, §15.247.c, §15.205.a,b / IC RSS-210 sec. 6.2.2(o)(e1), 6.3, 7.3)

Radiated emissions were measured over the frequency range from 30 MHz to 1 GHz. The bandwidth of the EMI-receiver was set to 120 kHz and the detector-function was set to CISPR quasi-peak.

The test setup was made in accordance with ANSI C63.4-1992. Measurements were made in both the horizontal and vertical planes of polarization. Preliminary scans were taken in a semi-anechoic room using a spectrum analyzer with the detector function set to peak. All tests were performed at a test-distance of 3 meters. For final testing an open-area test-site was used. During the tests the EUT was rotated all around and the receiving-antenna was raised and lowered from 1 meter to 4 meters to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions.

See figure 3 for the measurement setup.

Test equipment used (see equipment list for details):

01, 06, 12, 38, 39, 40, 41, 58, 61, 64, 66

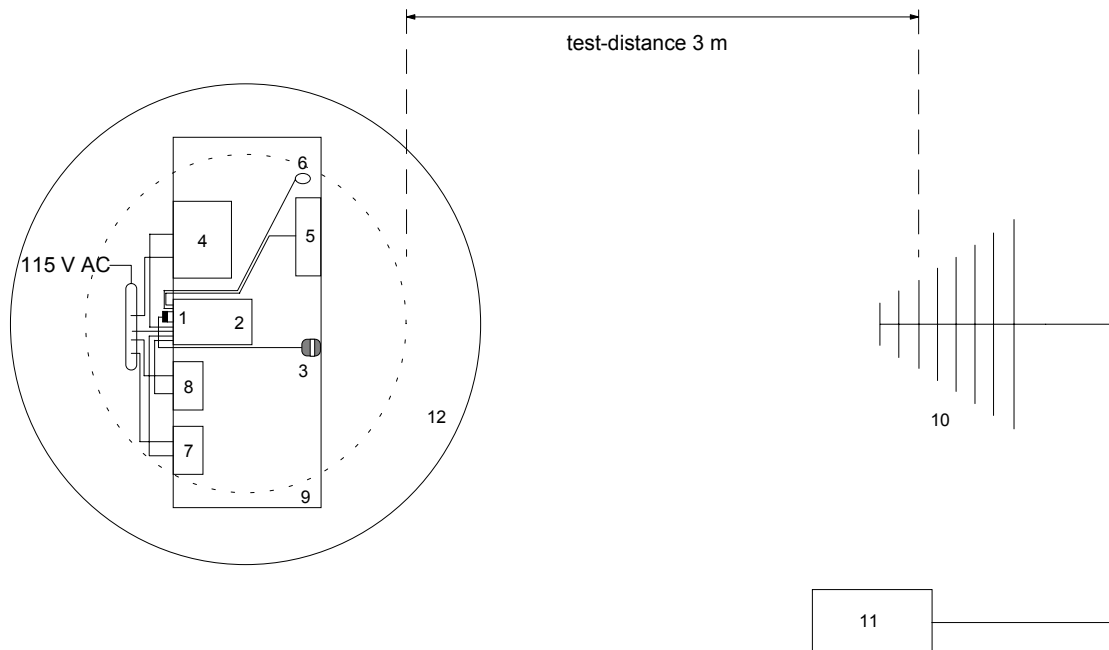


Figure 3: Measurement setup for radiated emission test below 1 GHz

- | | | | |
|---|--------------------------|----|---------------------|
| 1 | RF-modem | 10 | Measurement antenna |
| 2 | Personal computer (host) | 11 | Test receiver |
| 3 | External antenna | 12 | Turn table |
| 4 | Monitor | | |
| 5 | Keyboard | | |
| 6 | Mouse | | |
| 7 | Parallel printer | | |
| 8 | Serial printer | | |
| 9 | Wooden table | | |

7.4. Radiated Emission 1 GHz - 25 GHz (CFR47 §15.209, §15.247.c, §15.205.a,b / IC RSS-210 sec. 6.2.2(o)(e1), 6.3, 7.3)

Radiated emissions were measured in the frequency range 1 GHz to 25 GHz in transmit mode and 1 GHz to 12.5 GHz in receive mode. The resolution bandwidth of the spectrum analyzer was set to 1 MHz. Scans for the whole frequency range were taken with video bandwidth set to 1 MHz to check out the highest peak levels. In case of less margin to average limit additional prescans were made with video bandwidth reduced from 1 MHz to 100 kHz, 30 kHz or 10 kHz. Final measurements were performed at the critical frequencies with video bandwidth of the spectrum analyzer set to 1 kHz (average mode). EUT was rotated all around and receiving antenna was raised and lowered to find the maximum levels of emission. Cables and equipment were placed and moved within the range of position likely to find their maximum emissions.

All tests were performed in a semi-anechoic chamber with a test-distance of 3 meters (except for the frequency range 18 GHz - 25 GHz where test distance was reduced to 0.5 meter).

To avoid overload in transmit mode no preamplifier was used between 1 GHz and 3.95 GHz. Above 3.95 GHz tests were performed with appropriate preamplifiers (attenuation of operating frequency by horn antenna is sufficient to avoid overload of preamplifier). For receive mode appropriate preamplifiers were used for the whole frequency range.

See figure 4 for the measurement setup.

Test equipment used (see equipment list for details):
02, 13, 14, 16, ,42, 43, 44, 45, 46, 47, 48, 49, 57, 64

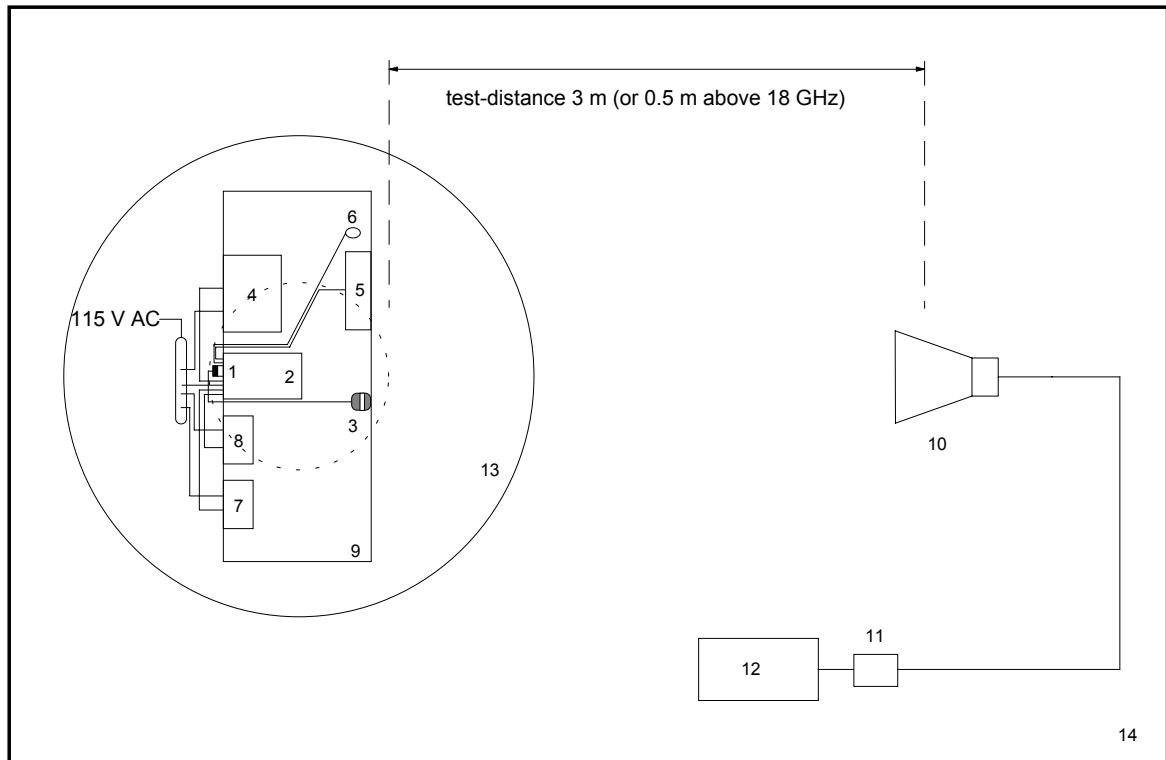


Figure 4: Measurement setup for radiated emission test above 1 GHz

- | | | | |
|----------|--------------------------|-----------|------------------------------|
| 1 | RF-modem | 10 | Measurement antenna |
| 2 | Personal computer (host) | 11 | Preamplifier (if applicable) |
| 3 | External antenna | 12 | Spectrum analyzer |
| 4 | Monitor | 13 | Turn table |
| 5 | Keyboard | 14 | Semi-anechoic room |
| 6 | Mouse | | |
| 7 | Parallel printer | | |
| 8 | Serial printer | | |
| 9 | Wooden table | | |

8. Equipment List

To facilitate reference to test equipment used for related tests, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory.

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	R 3271	05050023	Advantest
02	EMI Test Receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
03	Test Receiver	ESH 3	880112/032	Rohde & Schwarz
04	Test Receiver	ESHS 10	860043/016	Rohde & Schwarz
05	Test Receiver	ESV	881414/009	Rohde & Schwarz
06	Test Receiver	ESVP	881120/024	Rohde & Schwarz
07	Audio Analyzer	UPA	862954	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Power Sensor	NRV-Z52	837901/030	Rohde & Schwarz
10	Power Sensor	NRV-Z4	863828/015	Rohde & Schwarz
11	Preamplifier	ESV-Z3	860907/004	Rohde & Schwarz
12	Preamplifier	R14601		Advantest
13	Preamplifier	ACX/080-3030	32640	CTT
14	Preamplifier	ACO/180-3530	32641	CTT
15	Signal Generator	SMS	872166/039	Rohde & Schwarz
16	Signal Generator	HP 8673 D	2930A00966	Hewlett Packard
17	Waveform Generator	HP 33120 A	US34005375	Hewlett Packard
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda
20	Pulse Limiter	ESH 3-Z2	1144	Rohde & Schwarz
21	Pulse Limiter	11947 A	3107A00566	Hewlett Packard
22	V-Network	ESH 3-Z5	862770/018	Rohde & Schwarz
23	V-Network	ESH 3-Z5	894785/005	Rohde & Schwarz
24	V-Network	ESH 3-Z5	830952/025	Rohde & Schwarz
25	V-Network	ESH 3-Z6	830722/010	Rohde & Schwarz
26	V-Network	NSLK 8127	8127152	Schwarzbeck
27	V-Network	NNLA 8119	8119148	Schwarzbeck
28	V-Network	SE 01	01	Senton
29	T-Network	ESH 3-Z4	890602/011	Rohde & Schwarz
30	T-Network	ESH 3-Z4	890602/012	Rohde & Schwarz
31	High Impedance Probe	TK 9416	01	Schwarzbeck
32	High Impedance Probe	TK 9416	02	Schwarzbeck
33	Current Probe	ESH 2-Z1	863366/18	Rohde & Schwarz
34	Current Probe	ESV-Z1	862553/3	Rohde & Schwarz

No.	Type	Model	Serial Number	Manufacturer
35	Absorbing Clamp	MDS 21	80911	Lüthi
36	Absorbing Clamp	MDS 21	79690	Lüthi
37	Loop Antenna	HFH2-Z2	882964/1	Rohde & Schwarz
38	Biconical Antenna	HK 116	842204/001	Rohde & Schwarz
39	Biconical Antenna	HK 116	836239/02	Rohde & Schwarz
40	Log. Periodic Antenna	HL 223	841516/023	Rohde & Schwarz
41	Log. Periodic Antenna	HL 223	834408/12	Rohde & Schwarz
42	Horn Antenna	3115	9508-4553	Emco
43	Horn Antenna	3160-03	9112-1003	Emco
44	Horn Antenna	3160-04	9112-1001	Emco
45	Horn Antenna	3160-05	9112-1001	Emco
46	Horn Antenna	3160-06	9112-1001	Emco
47	Horn Antenna	3160-07	9112-1008	Emco
48	Horn Antenna	3160-08	9112-1002	Emco
49	Horn Antenna	3160-09	9403-1025	Emco
50	Digital multimeter	199	463386	Keithley
51	DC Power Supply	NGSM 32/10	203	Rohde & Schwarz
52	DC Power Supply	NGB	2455	Rohde & Schwarz
53	DC Power Supply	NGA	386	Rohde & Schwarz
54	Temperature Test Chamber	HT4010	07065550	Heraeus
55	Cable	RG214	1309	Senton
56	Cable	200CM_001	1357	Rosenberger
57	Cable	150CM_001	1479	Rosenberger
58	Cable Set EG1	RG214	1189 - 1191	Senton
59	Cable Set Cabine 1	RG214		Senton
60	Cable Set Cabine 2	RG214		Senton
61	Cable Set Cabine 3	RG214		Senton
62	Shielded Room	No. 1	1451	Senton
63	Shielded Room	No. 2	1452	Senton
64	Semi-anechoic Chamber	No. 3	1453	Siemens
65	Shielded Room	No. 4	1454	Euroshield
66	Open Area Test Site	EG 1		Senton
67	Cable for Antenna Connector			Agere
68	DC Block 0.01-18GHz		8037	Inmet Corp.
69	High pass filter			Agere
70	Power Sensor	NRV-Z31	836299/012	Rohde & Schwarz

9. Photographs Taken During Testing

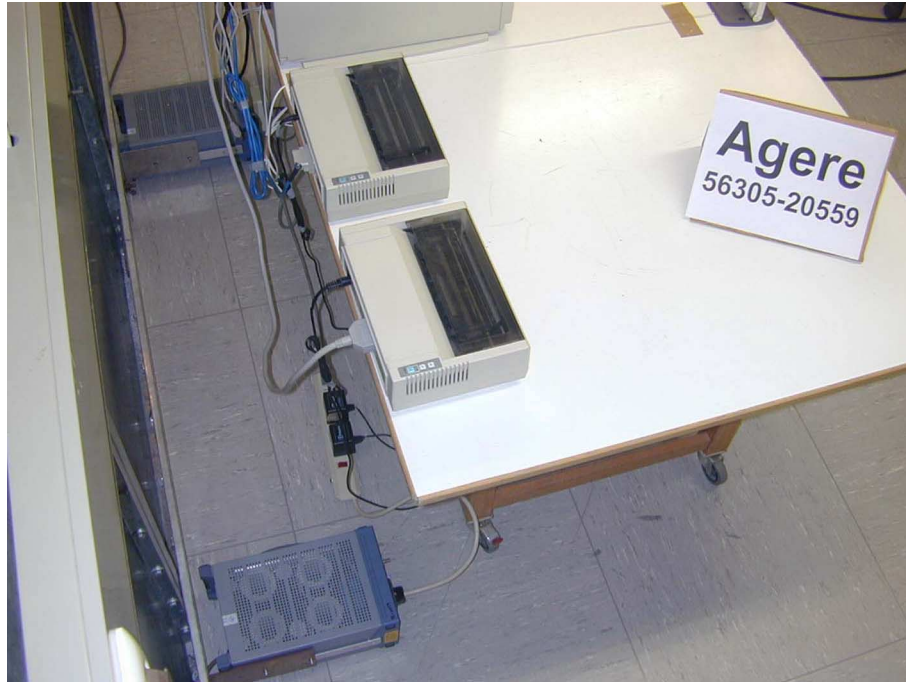
Photo No. 9.1

Test setup for conducted emission test 150 kHz - 30 MHz



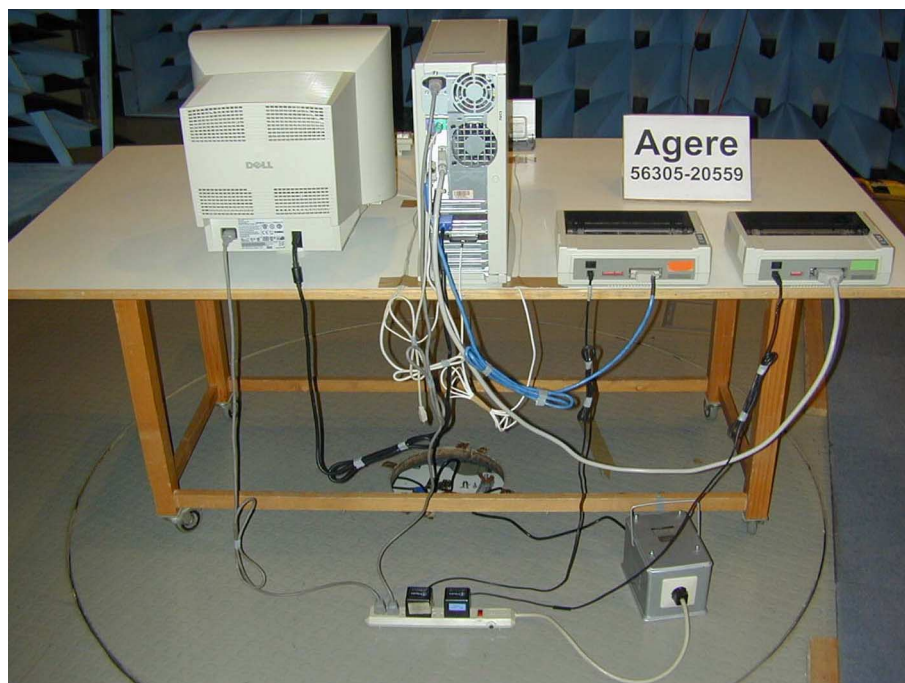
Photos No. 9.2 - 9.3

Test setup for conducted emission test 150 kHz - 30 MHz - continued -



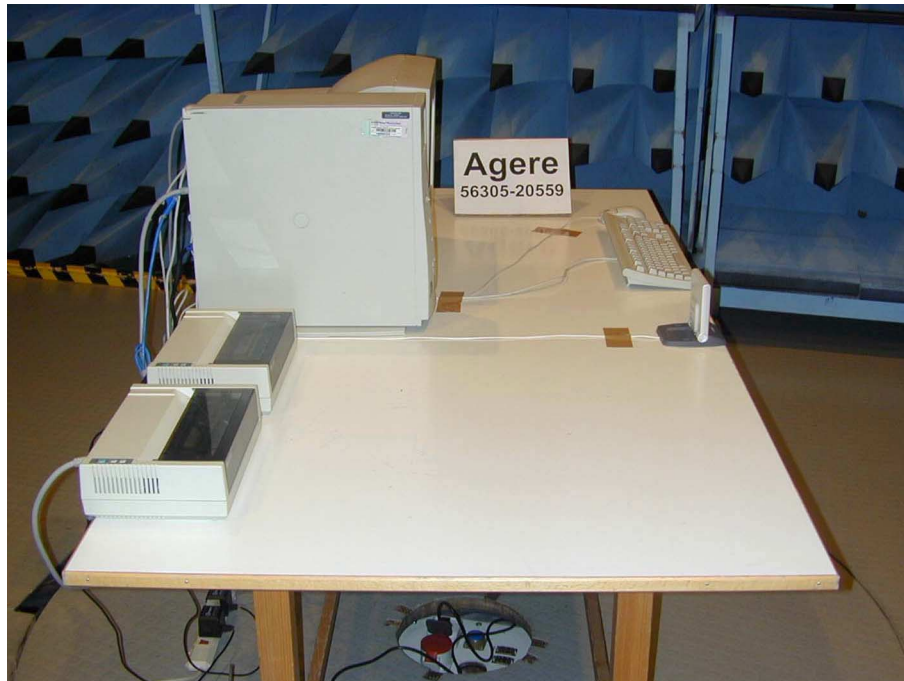
Photos No. 9.4 - 9.5

Test setup for radiated emission pre-test 30 MHz - 1 GHz (semi anechoic room)



Photos No. 9.6 - 9.7

**Test setup for radiated emission pre-test 30 MHz - 1 GHz (semi anechoic room)
- continued -**



Photos No. 9.8 - 9.9

Test setup for radiated emission final test 30 MHz - 1 GHz (open area test site)



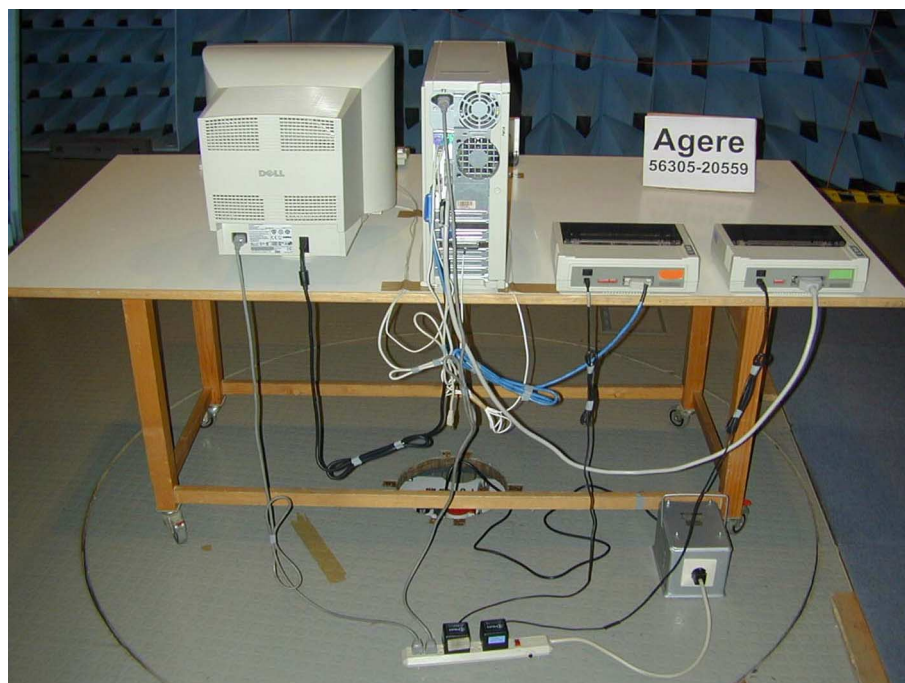
Photos No. 9.10 - 9.11

**Test setup for radiated emission final test 30 MHz - 1 GHz (open area test site)
- continued -**



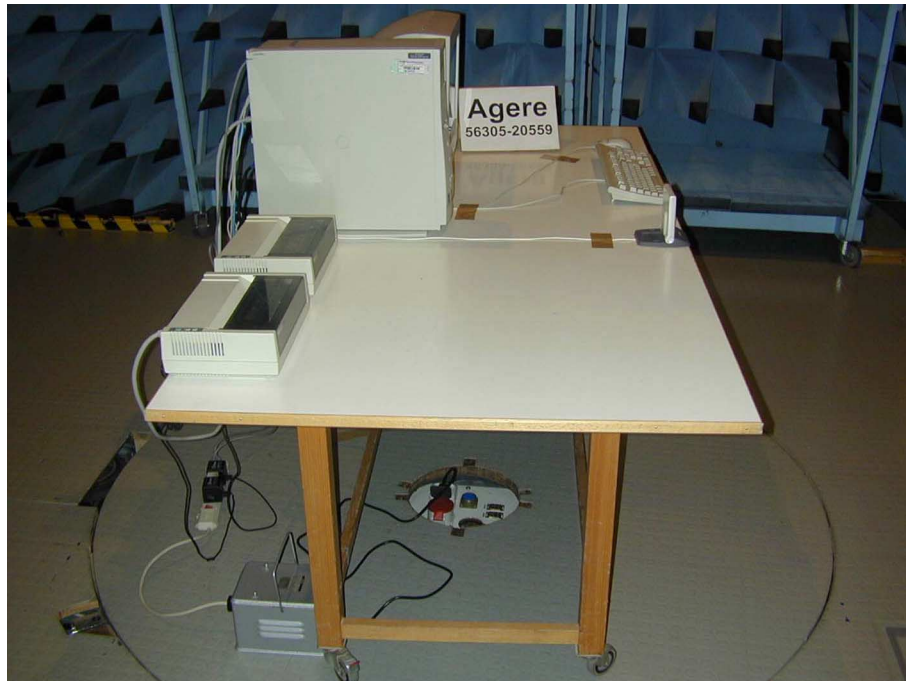
Photos No. 9.12 - 9.13

Test setup for radiated emission test above 1 GHz (semi anechoic room)



Photos No. 9.14 - 9.15

**Test setup for radiated emission test above 1 GHz (semi anechoic room)
- continued -**



10. Referenced Regulations

All tests were performed with reference to the

Code of Regulations Part 15 (edition August 20, 2002), Subpart C, section §15.247
(intentional radiators) of the Federal Communication Commission (FCC)

and the

Radio Standards Specification RSS-210, Issue 5 (November 2001) of Industry Canada.

11. List of Measurements

Notes

Note 1: Maximum peak output power was measured while either using bit rate 2, 5.5 or 11 Mbps. Radiated emission tests in transmit mode were performed with bit rate set to 11 Mbps only. However, special care was taken to observe the different results of TX fundamental and (even) harmonics when selecting 11 (or 5.5) Mbps on the one hand, and 2 Mbps on the other hand. Therefore additional emission tests at band edges and TX harmonics were performed with 2 Mbps. Only critical harmonics observed with 11 Mbps (i.e. with less than 10 dB margin of peak levels to average limit) were re-tested with bit rate set to 2 Mbps.

11.1. List of Measurements according to FCC Part 15 Subpart C

FCC Part 15 Subpart C			
Section(s):	Test	Page	Result
	Transmit mode (TX):	33	
§15.247.a2	Minimum 6 dB bandwidth	---	not performed
§15.247.b	Maximum peak output power	34	passed
§15.247.d	Peak power density	---	not performed
	Processing gain	---	not applicable
§15.207	Conducted emission test 150 kHz - 30 MHz	36	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	48	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	72	passed
	Receive mode (RX):	124	
§15.207	Conducted emission test 150 kHz - 30 MHz	125	passed
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	129	passed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	137	passed

11.2. List of Measurements according to IC RSS-210

IC RSS-210 Issue 5			
Section(s):	Test	Page	Result
	Transmit mode (TX):	33	
	Minimum 6 dB bandwidth	---	not applicable
6.2.2(o)(b)	Transmitter output power	34	passed
6.2.2(o)(b)	Transmitter power spectral density	---	not performed
6.2.2(o)(b)	Processing gain	---	performed by applicant
6.6	Transmitter AC wireline conducted emissions 150 kHz - 30 MHz	36	passed
6.2.2(o)(e1), 6.3	Out of band emissions 9 kHz - 30 MHz	---	not applicable
6.2.2(o)(e1), 6.3	Out of band emissions 30 MHz - 1 GHz	48	passed
6.2.2(o)(e1), 6.3	Out of band emissions 1 GHz - 25 GHz	72	passed
	Receive mode (RX):	124	
7.4	Receiver AC wireline conducted emissions 150 kHz - 30 MHz	125	passed
7.3	Receiver spurious emissions (radiated) 9 kHz - 30 MHz	---	not applicable
7.3	Receiver spurious emissions (radiated) 30 MHz - 1 GHz	129	passed
7.3	Receiver spurious emissions (radiated) 1 GHz - 12.5 GHz	137	passed

12. Test Results

**Test results for
Transmit (TX) mode**

Maximum Peak Output Power according to FCC Part 15 Subpart C, §15.247b

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Date of test: 12/17/2002
Operator: R. Heller

Mode: - FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC

- with external antenna Melco WLE-DA

- TX mode

Tested on: Antenna connector

Selected bit rate	Operating frequency [GHz]	PEP power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit (see note 1) [dBm]
11 Mbps	2.412	5.4	11.3	16.7	30
	2.442	5.4	11.3	16.7	30
	2.462	5.4	11.3	16.7	30
5.5 Mbps	2.412	4.7	11.3	16.0	30
	2.442	4.8	11.3	16.1	30
	2.462	4.8	11.3	16.1	30
2 Mbps	2.412	5.4	11.3	16.7	30
	2.442	5.4	11.3	16.7	30
	2.462	5.4	11.3	16.7	30

Note 1: Total nominal gain of antenna Melco WLE-DA is 5 dBi (including cable loss).

Note 2: The correction factor noted above is caused by the attenuation of DC block, adapter cable and 10 dB attenuator
The maximum power values were recorded.

Note 3: The duty cycle of the EUT is > 99%

Result: The limit is kept

Maximum Peak Output Power according to FCC Part 15 Subpart C, §15.247b

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Date of test: 12/17/2002
Operator: R. Heller

Mode: - FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA

- TX mode

Tested on: Antenna connector

Selected bit rate	Operating frequency [GHz]	RMS power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit (see note 1) [dBm]
11 Mbps	2.412	3.6	11.3	14.9	30
	2.442	3.6	11.3	14.9	30
	2.462	3.6	11.3	14.9	30
5.5 Mbps	2.412	3.6	11.3	14.9	30
	2.442	3.6	11.3	14.9	30
	2.462	3.6	11.3	14.9	30
2 Mbps	2.412	3.6	11.3	14.9	30
	2.442	3.6	11.3	14.9	30
	2.462	3.6	11.3	14.9	30

Note 1: Total nominal gain of antenna Melco WLE-DA is 5 dBi (including cable loss).

Note 2: The correction factor noted above is caused by the attenuation of DC block, adapter cable and 10 dB attenuator
The maximum power values were recorded.

Note 3: The duty cycle of the EUT is > 99%

Result: The limit is kept

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

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
**Linecord personal computer (EUT)
Phase L1**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Final result with AV detector:
0.180 MHz: 47.5 dB μ V

Detector:

Peak / Final Results: QP

Final results:

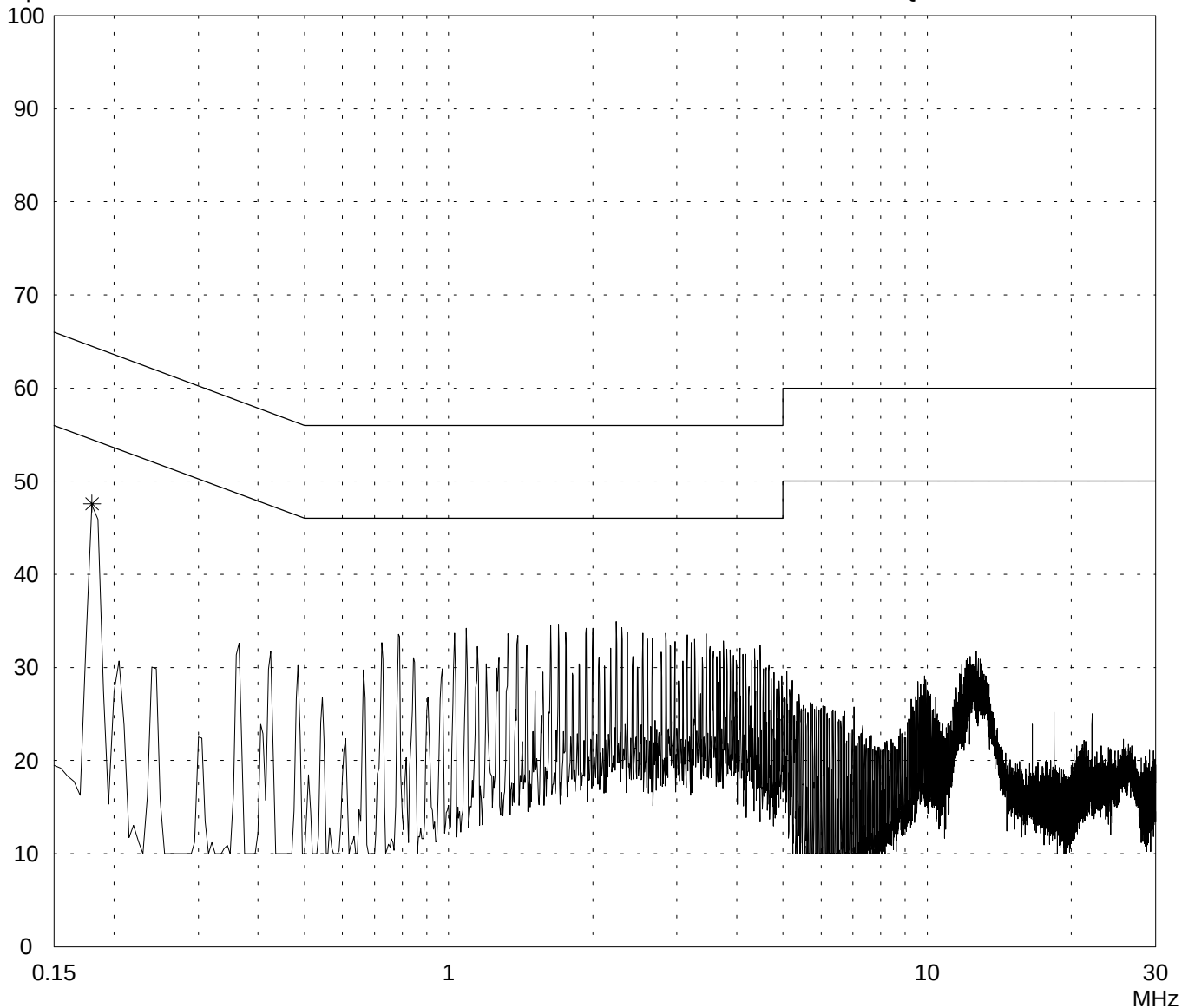
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP

Limit2: FCC C / AV



Result:
Limit kept

Project file:
56305-20559-6

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

Model: 0111-PC	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - TX mode with $f = 2.412$ GHz Final result with AV detector: 0.180 MHz: 47.5 dB μ V
Serial no.: 02UT45300010	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase L1	
Date of test: 12/19/2002	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.18	47.6		47.6	64.5	

Result: Limit kept	Project file: 56305-20559-6	Page 37 of 139 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
**Linecord personal computer (EUT)
Phase N**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Final result with AV detector:
0.180 MHz: 49.3 dB μ V

Detector:

Peak / Final Results: QP

Final results:

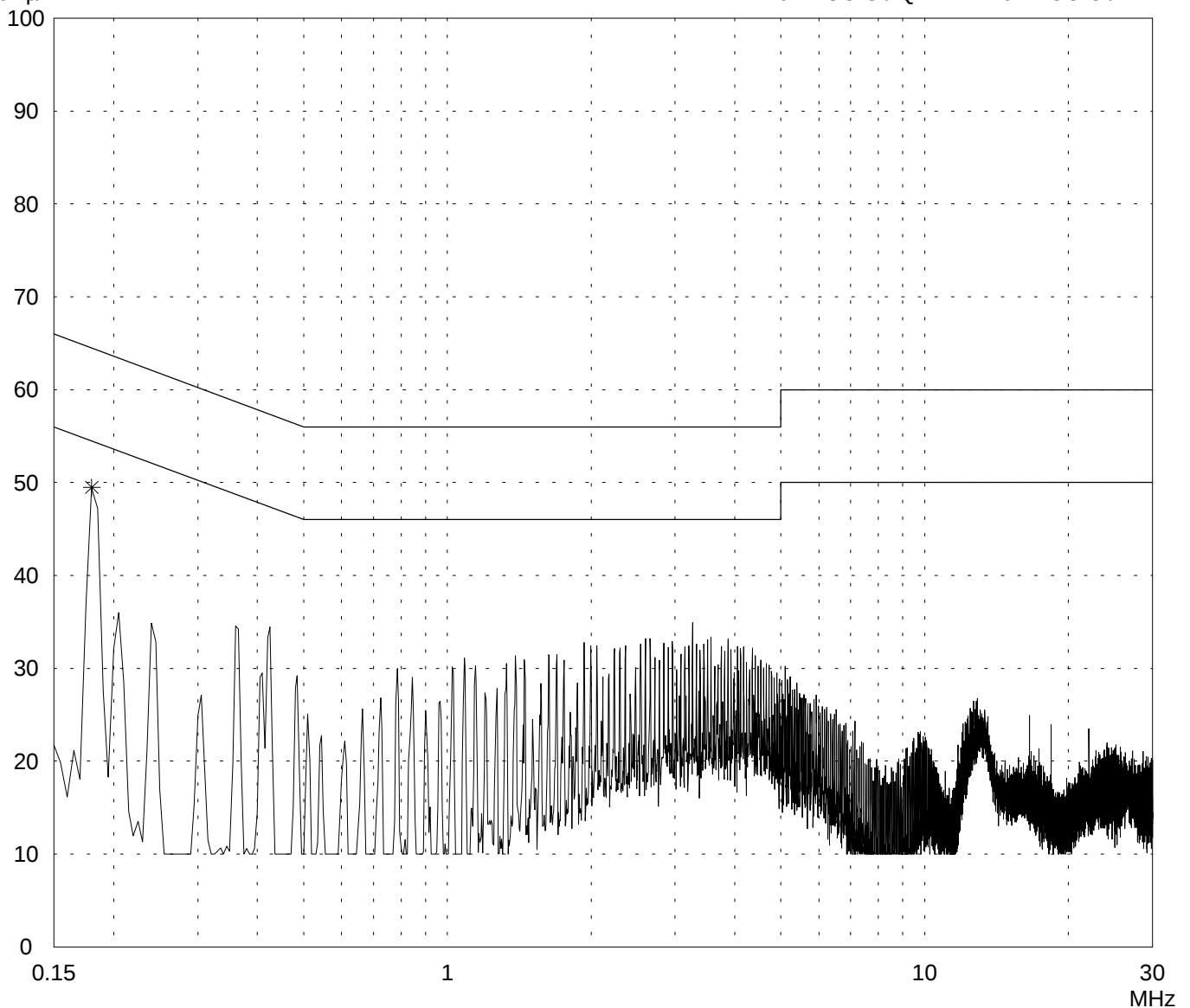
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP

Limit2: FCC C / AV



Result:
Limit kept

Project file:
56305-20559-6

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

Model: 0111-PC	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - TX mode with $f = 2.412$ GHz Final result with AV detector: 0.180 MHz: 49.3 dB μ V
Serial no.: 02UT45300010	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase N	
Date of test: 12/19/2002	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.18	49.5		49.5	64.5	

Result: Limit kept	Project file: 56305-20559-6	Page 39 of 139 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Final result with AV detector:
0.180 MHz: 47.5 dB μ V

Detector:

Peak / Final Results: QP

Final results:

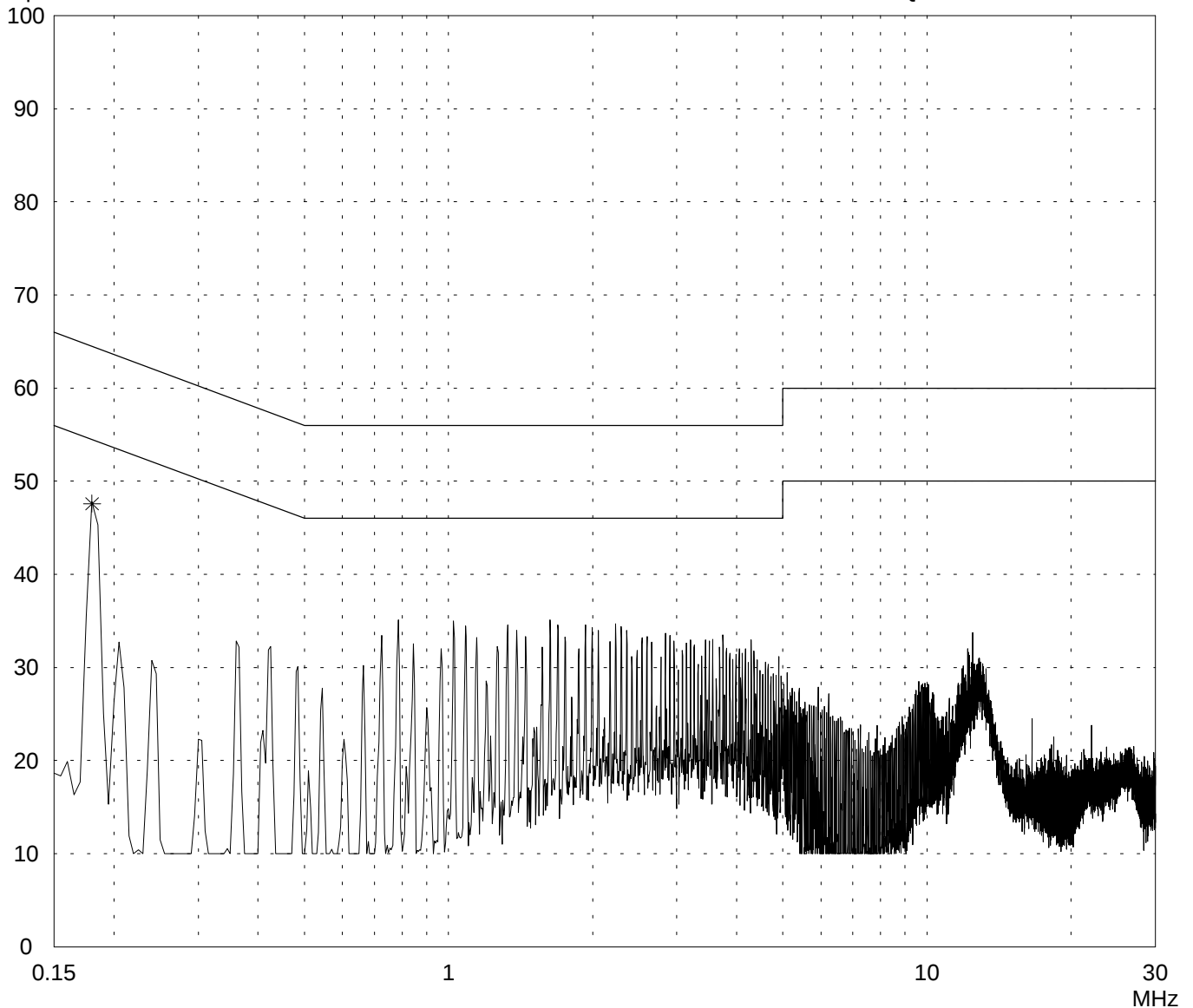
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP

Limit2: FCC C / AV



Result:
Limit kept

Project file:
56305-20559-6

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

Model: 0111-PC	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - TX mode with $f = 2.442$ GHz Final result with AV detector: 0.180 MHz: 47.5 dB μ V
Serial no.: 02UT45300010	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase L1	
Date of test: 12/19/2002	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.18	47.6		47.6	64.5	

Result: Limit kept	Project file: 56305-20559-6	Page 41 of 139 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Final result with AV detector:
0.180 MHz: 49.4 dB μ V

Detector:

Peak / Final Results: QP

Final results:

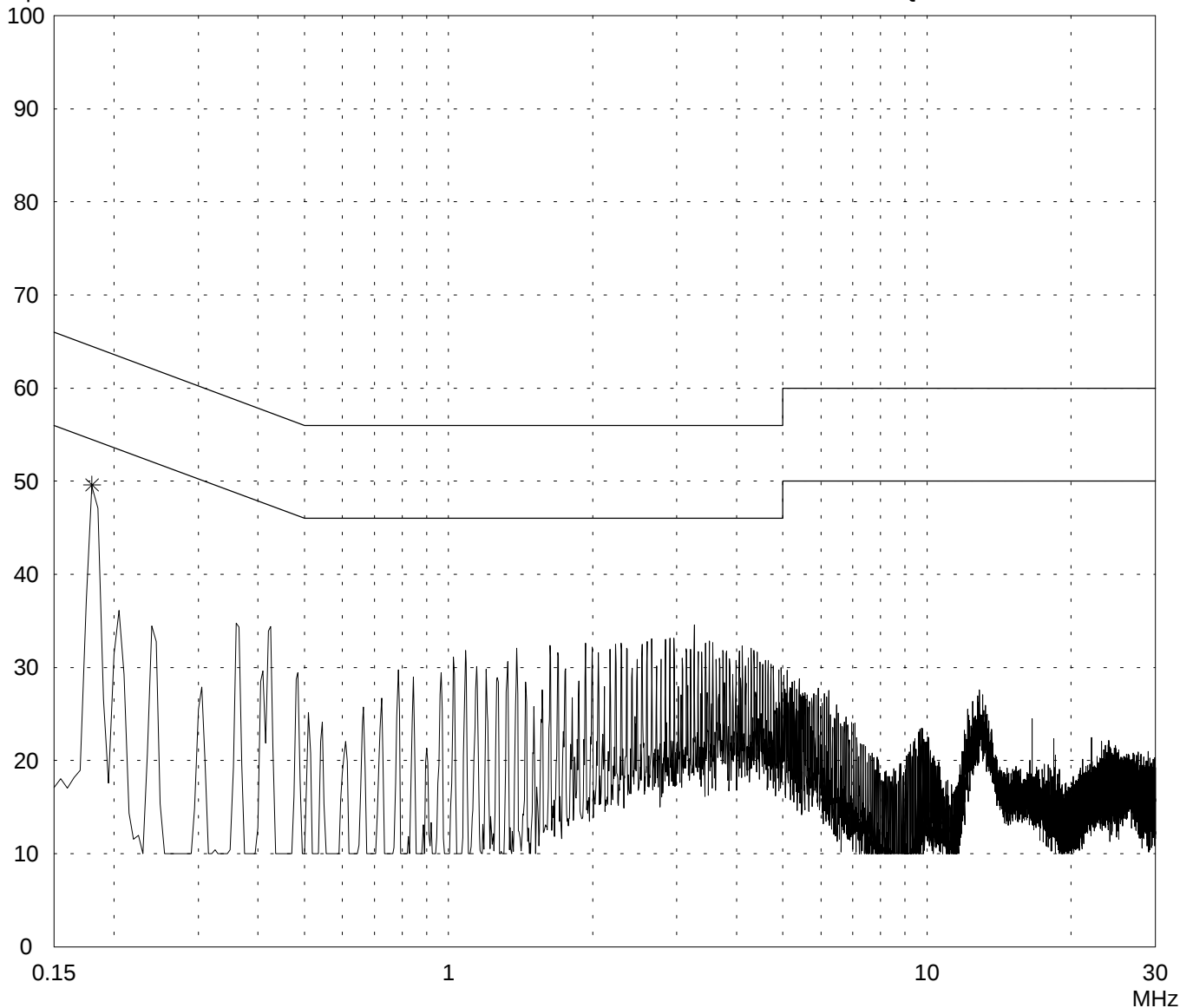
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP

Limit2: FCC C / AV



Result:
Limit kept

Project file:
56305-20559-6

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

Model: 0111-PC	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - TX mode with $f = 2.442$ GHz Final result with AV detector: 0.180 MHz: 49.4 dB μ V
Serial no.: 02UT45300010	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase N	
Date of test: 12/19/2002	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.18	49.6		49.6	64.5	

Result: Limit kept	Project file: 56305-20559-6	Page 43 of 139 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
**Linecord personal computer (EUT)
Phase L1**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Final result with AV detector:
0.180 MHz: 47.5 dB μ V

Detector:

Peak / Final Results: QP

Final results:

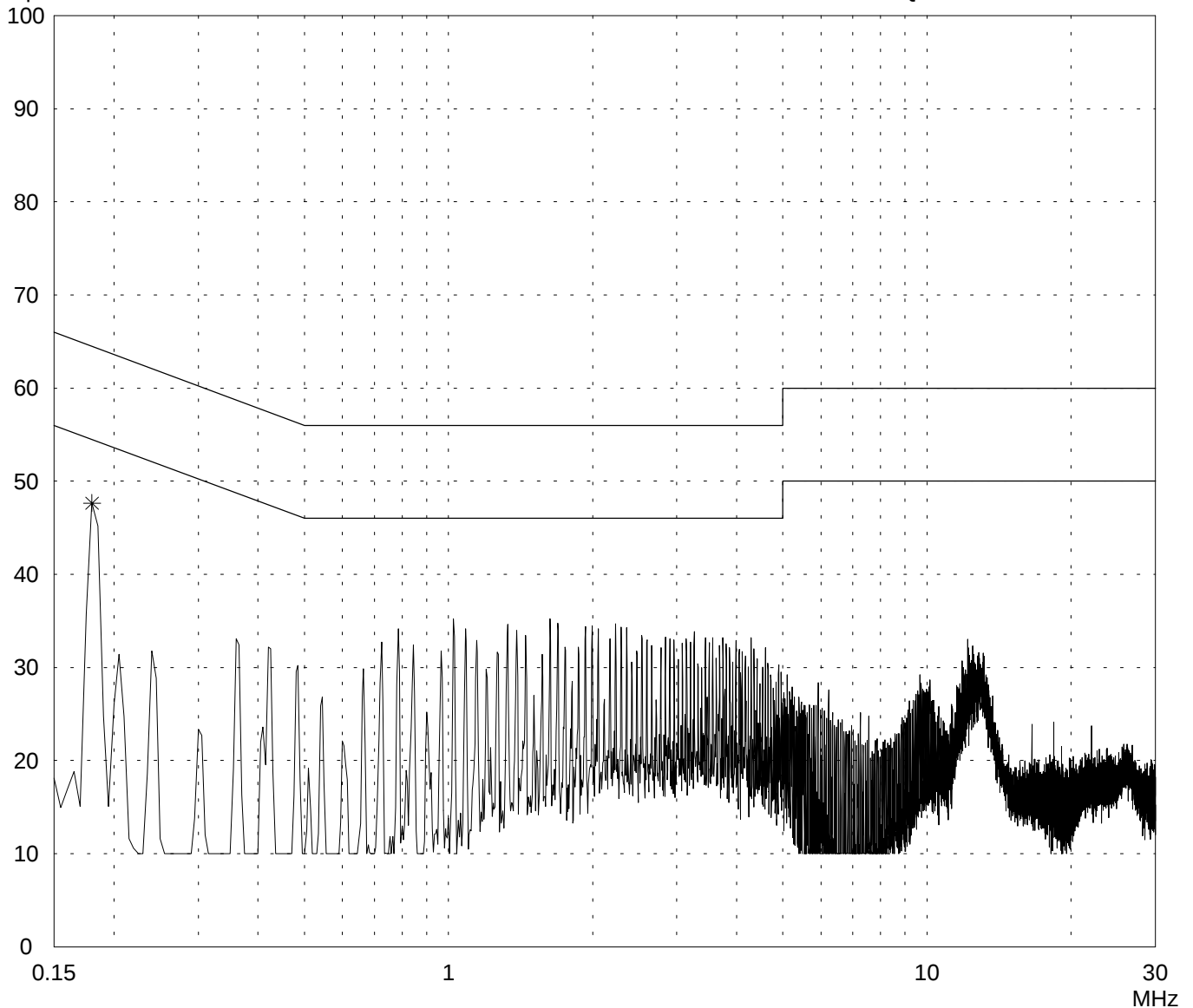
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP

Limit2: FCC C / AV



Result:
Limit kept

Project file:
56305-20559-6

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

Model: 0111-PC	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - TX mode with $f = 2.462$ GHz Final result with AV detector: 0.180 MHz: 47.5 dB μ V
Serial no.: 02UT45300010	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase L1	
Date of test: 12/19/2002	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.18	47.7		47.7	64.5	

Result: Limit kept	Project file: 56305-20559-6	Page 45 of 139 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
**Linecord personal computer (EUT)
Phase N**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Final result with AV detector:
0.180 MHz: 49.4 dB μ V

Detector:

Peak / Final Results: QP

Final results:

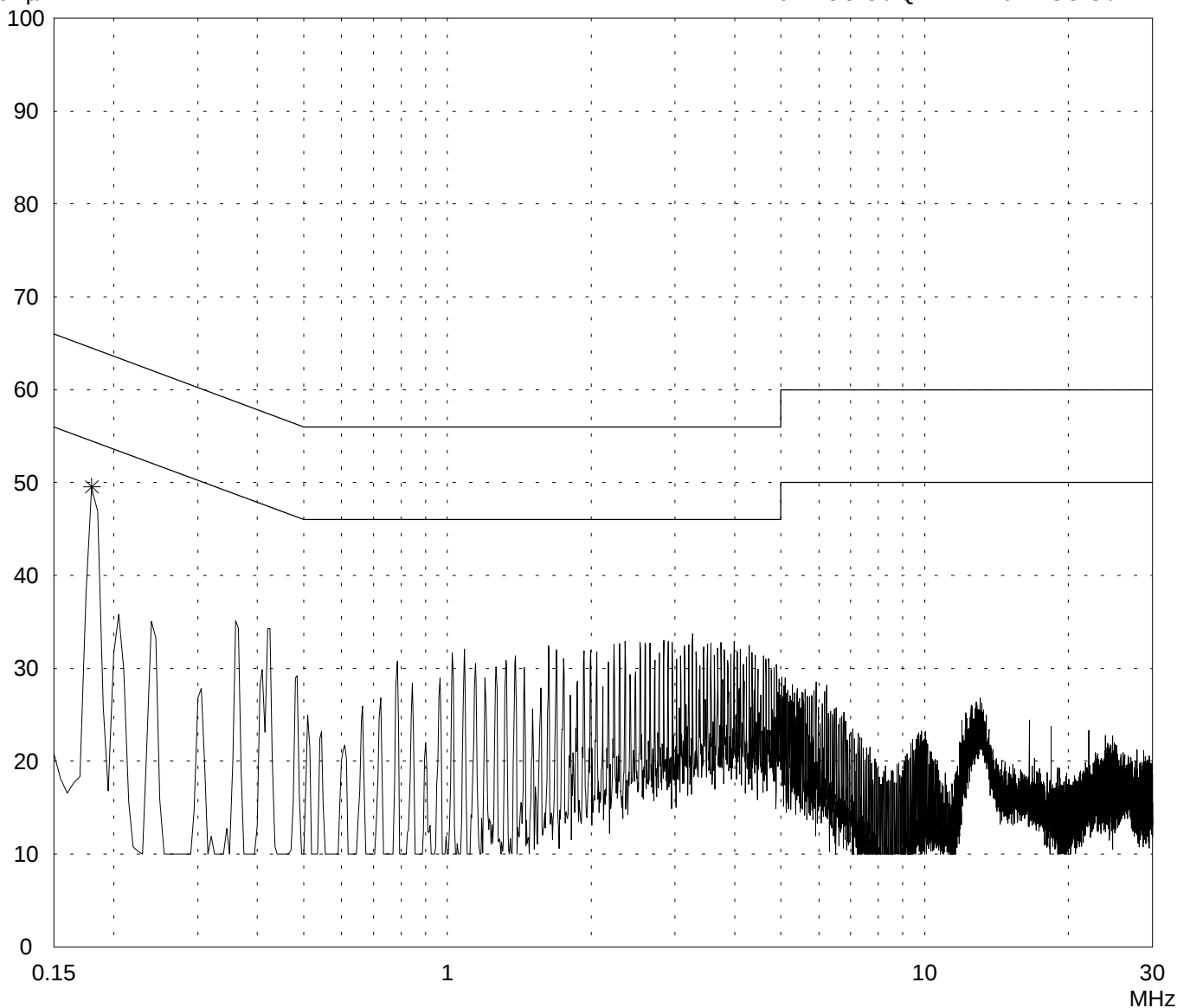
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP

Limit2: FCC C / AV



Result:
Limit kept

Project file:
56305-20559-6

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

Model: 0111-PC	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - TX mode with $f = 2.462$ GHz Final result with AV detector: 0.180 MHz: 49.4 dB μ V
Serial no.: 02UT45300010	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase N	
Date of test: 12/19/2002	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.18	49.6		49.6	64.5	

Result: Limit kept	Project file: 56305-20559-6	Page 47 of 139 Pages
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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Horizontal Polarization**

Date of test: Operator:
12/12/2002 R. Heller

Test performed: File name:
automatically

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off

- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

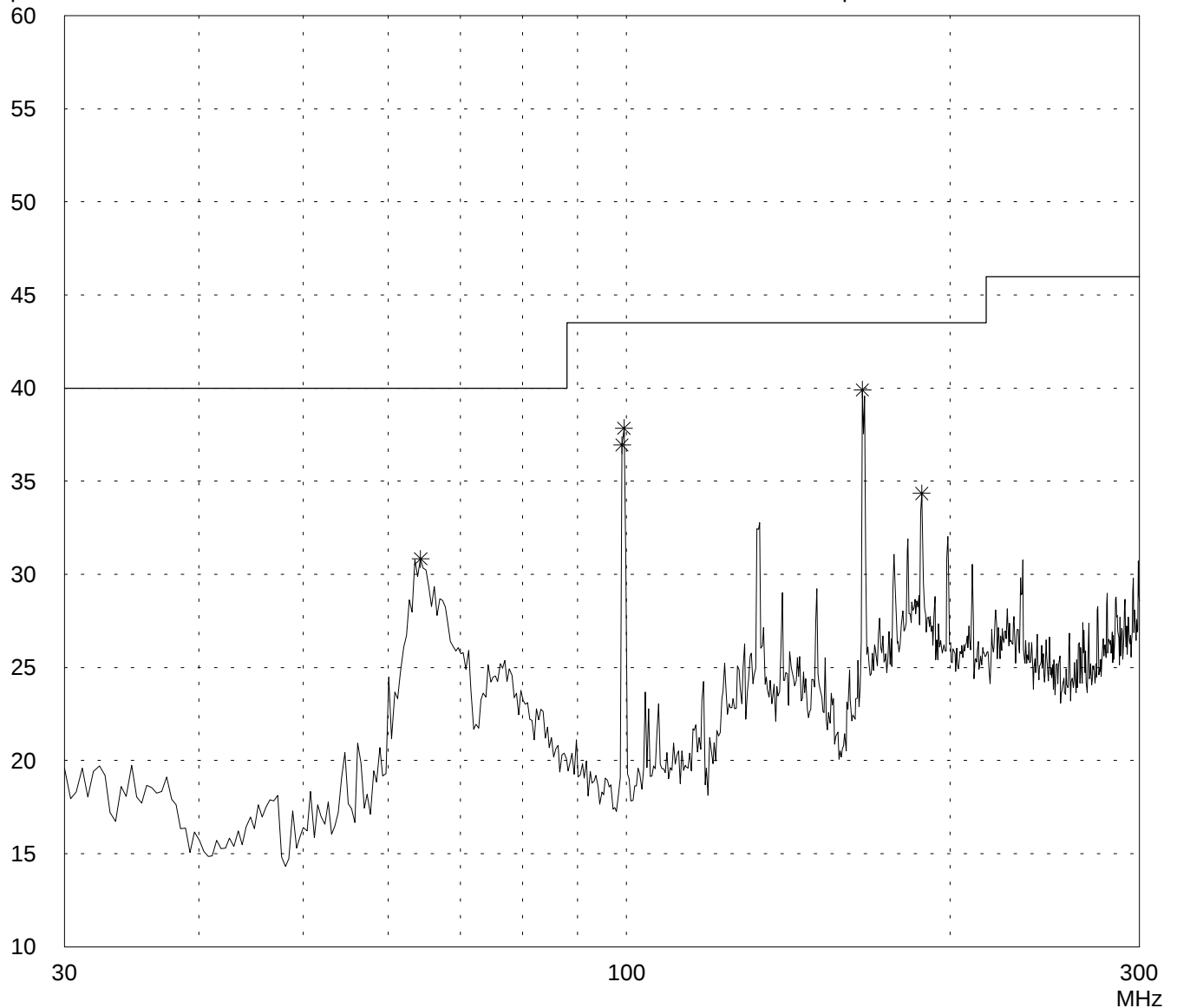
- TX mode with $f = 2.412$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

dB μ V/m

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Horizontal Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off

- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

Detector:
Peak

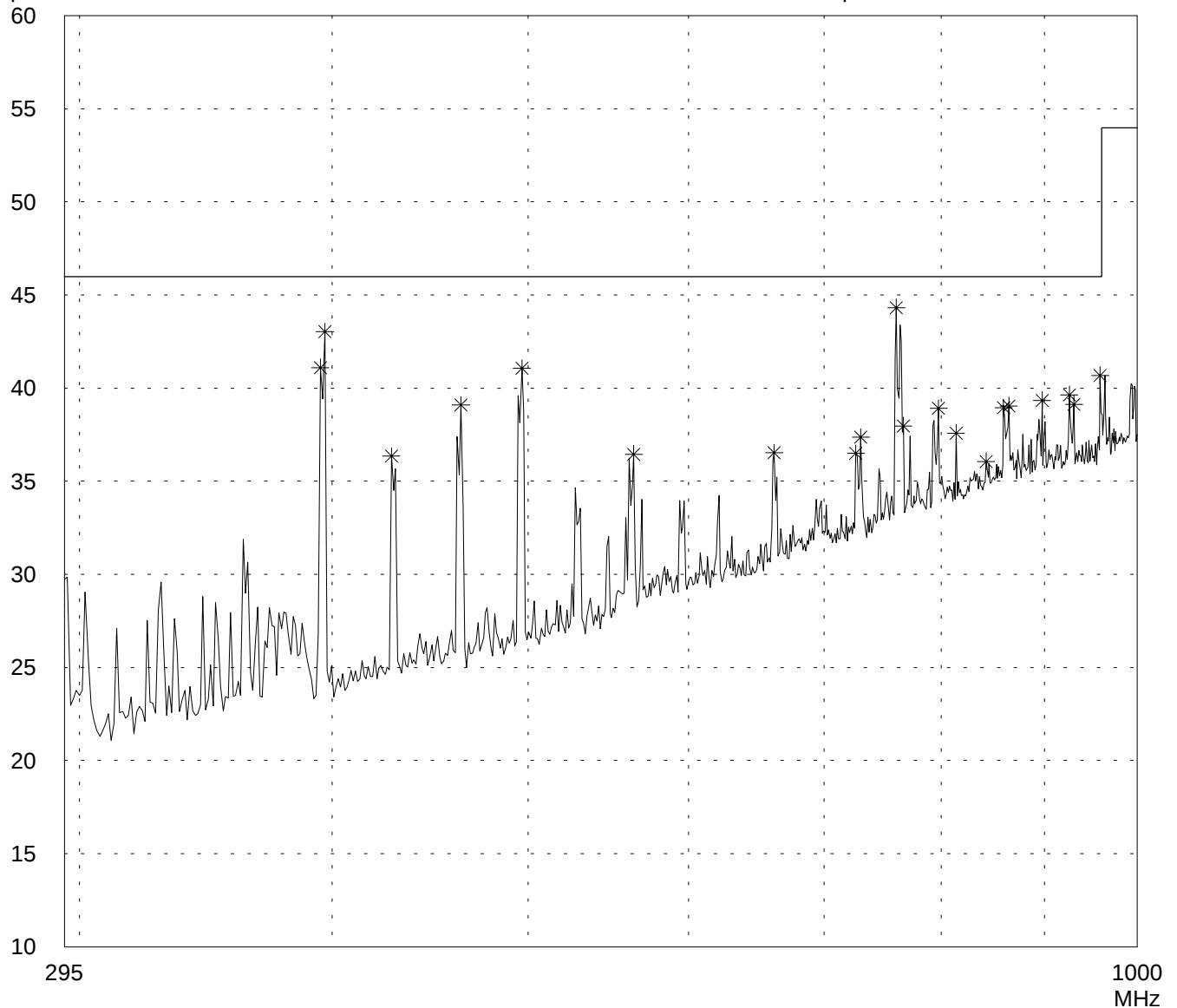
List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Subpart C Transducer: HL 223



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Peak

List of values:

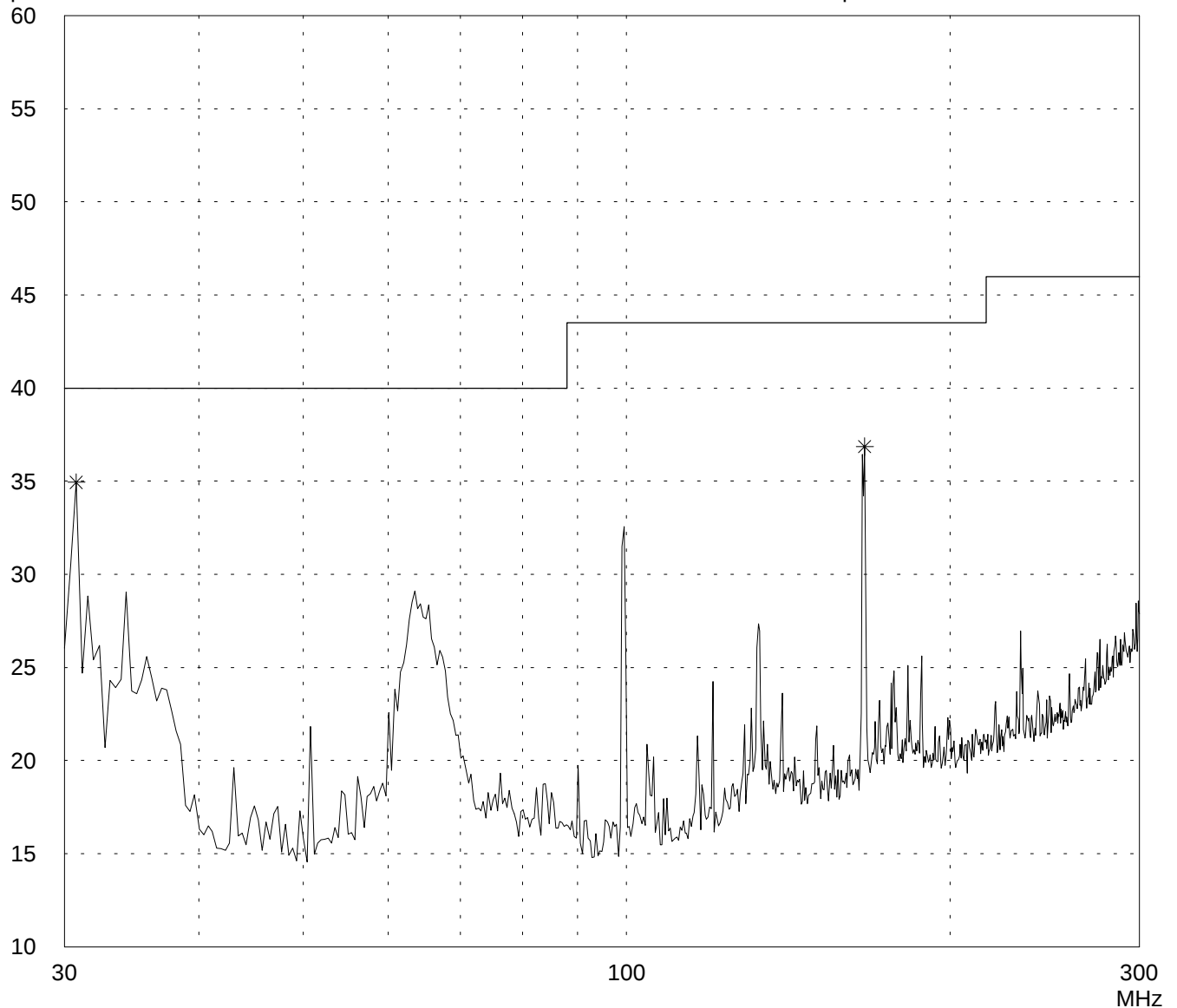
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Subpart C

Transducer: HK 116



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Peak

List of values:

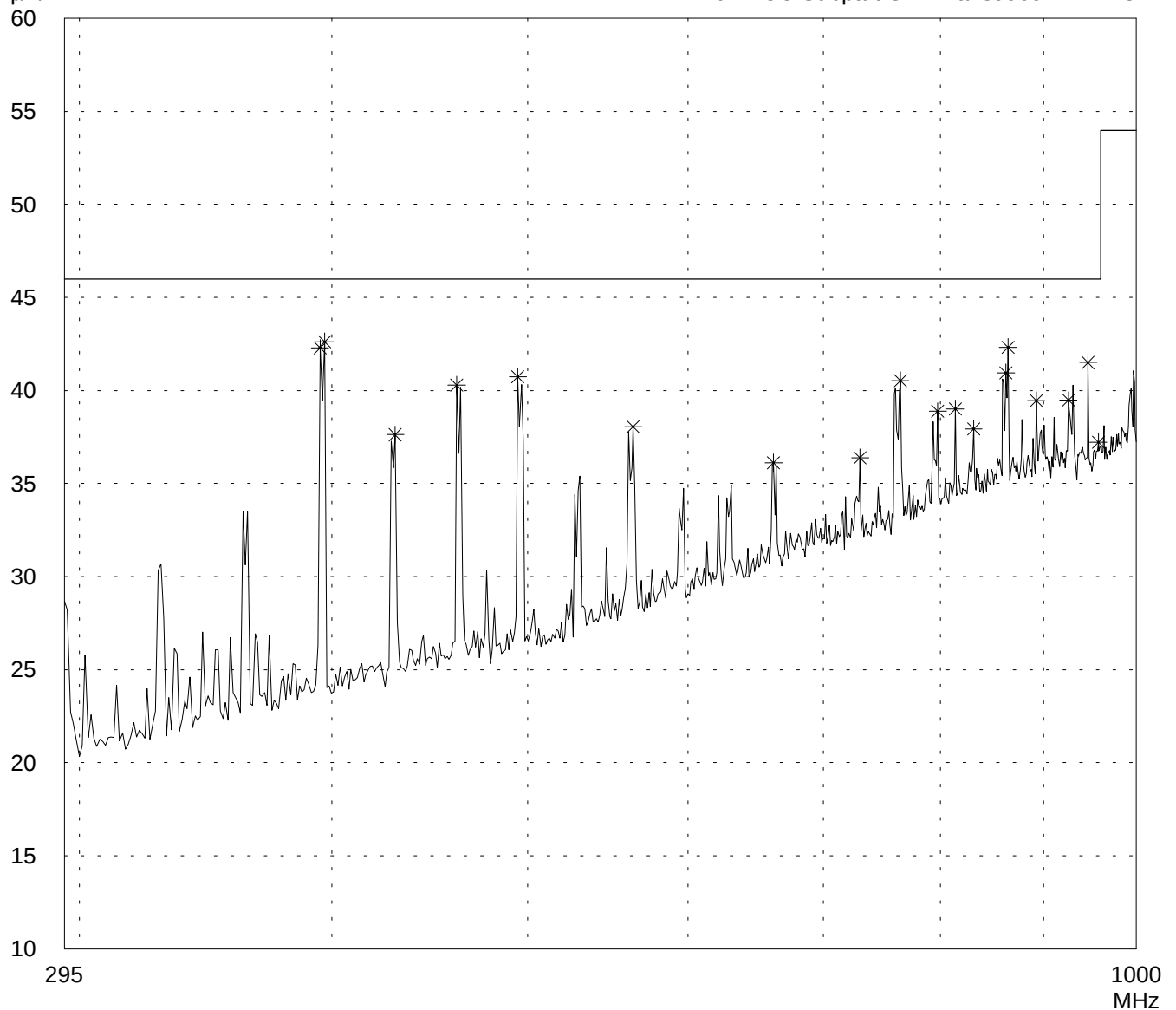
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Subpart C

Transducer: HL 223



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
by hand

File name:

Mode:

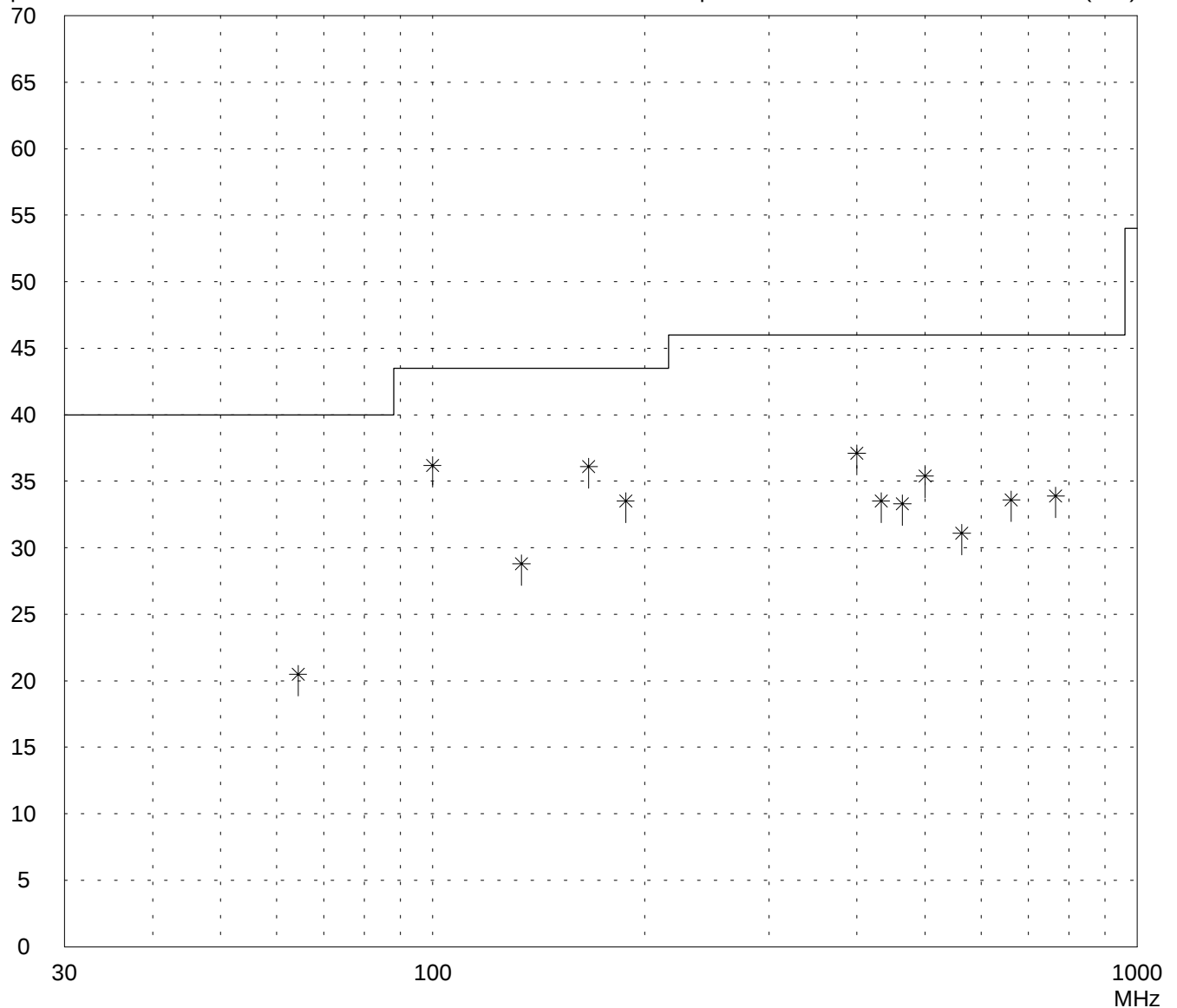
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

dB μ V/m

Limit1: FCC Subpart C Transducer: HK116 / HL223 (3 m)



Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 12/19/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
64.40	10.7	9.8	20.5	40.0	
99.88	25.5	10.7	36.2	43.5	
133.56	15.5	13.3	28.8	43.5	
166.48	21.6	14.5	36.1	43.5	
187.38	17.6	15.9	33.5	43.5	
399.68	18.4	18.7	37.1	46.0	
433.00	14.0	19.5	33.5	46.0	
463.97	13.2	20.1	33.3	46.0	
499.58	14.7	20.7	35.4	46.0	
563.40	9.4	21.7	31.1	46.0	
662.78	9.9	23.7	33.6	46.0	
766.13	8.9	25.0	33.9	46.0	

Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
by hand

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off

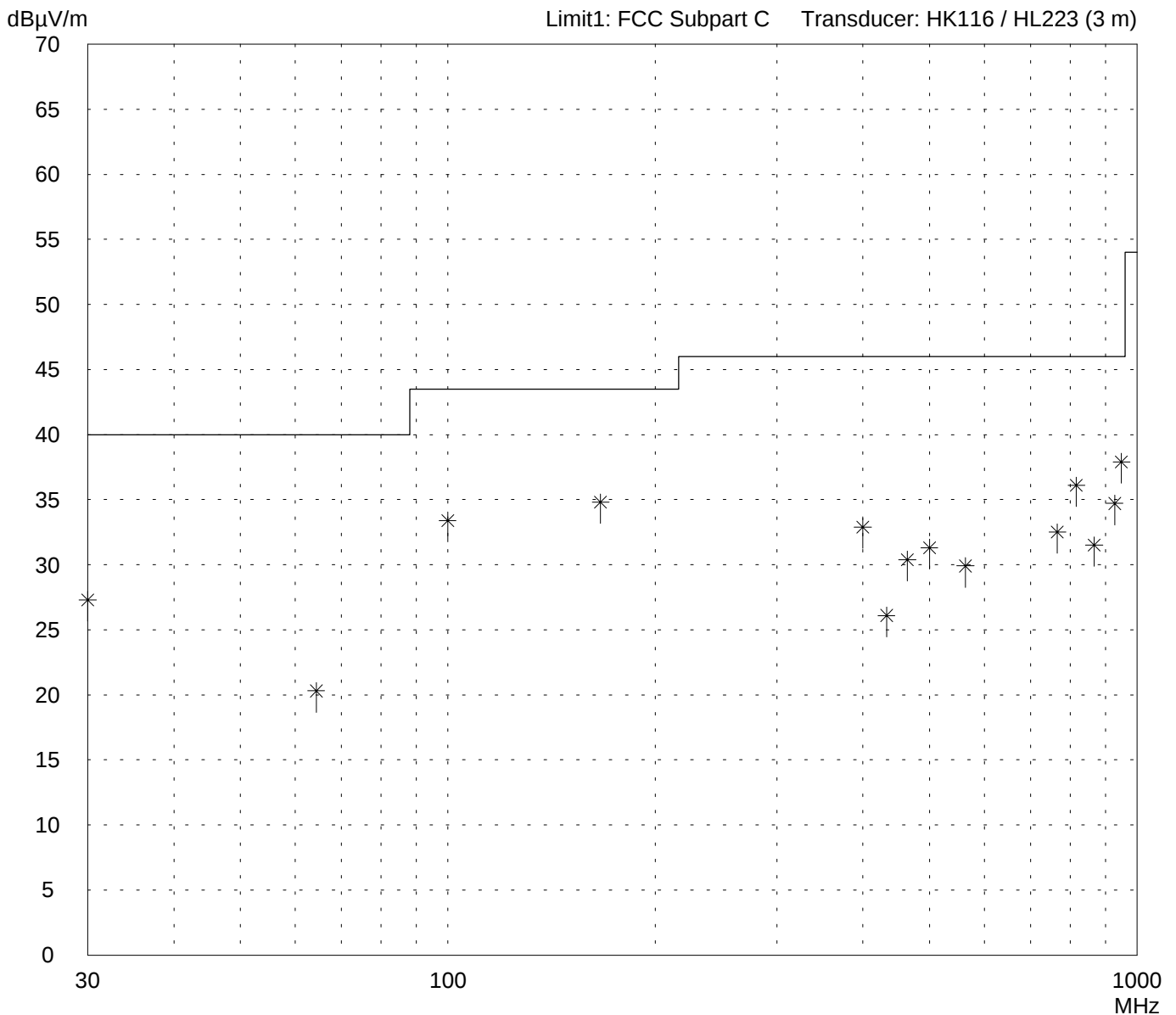
- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 12/19/2002 Operator:
R. Heller

Test performed: by hand File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412 \text{ GHz}$

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
30.00	13.0	14.3	27.3	40.0	
64.40	10.5	9.8	20.3	40.0	
99.88	22.7	10.7	33.4	43.5	
166.52	20.3	14.5	34.8	43.5	
399.68	14.2	18.7	32.9	46.0	
433.00	6.6	19.5	26.1	46.0	
463.97	10.3	20.1	30.4	46.0	
499.58	10.6	20.7	31.3	46.0	
563.40	8.2	21.7	29.9	46.0	
766.10	7.5	25.0	32.5	46.0	
816.11	10.2	25.9	36.1	46.0	
866.06	4.3	27.2	31.5	46.0	
927.84	7.3	27.4	34.7	46.0	
948.96	10.5	27.4	37.9	46.0	

Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Horizontal Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off

- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector:
Peak

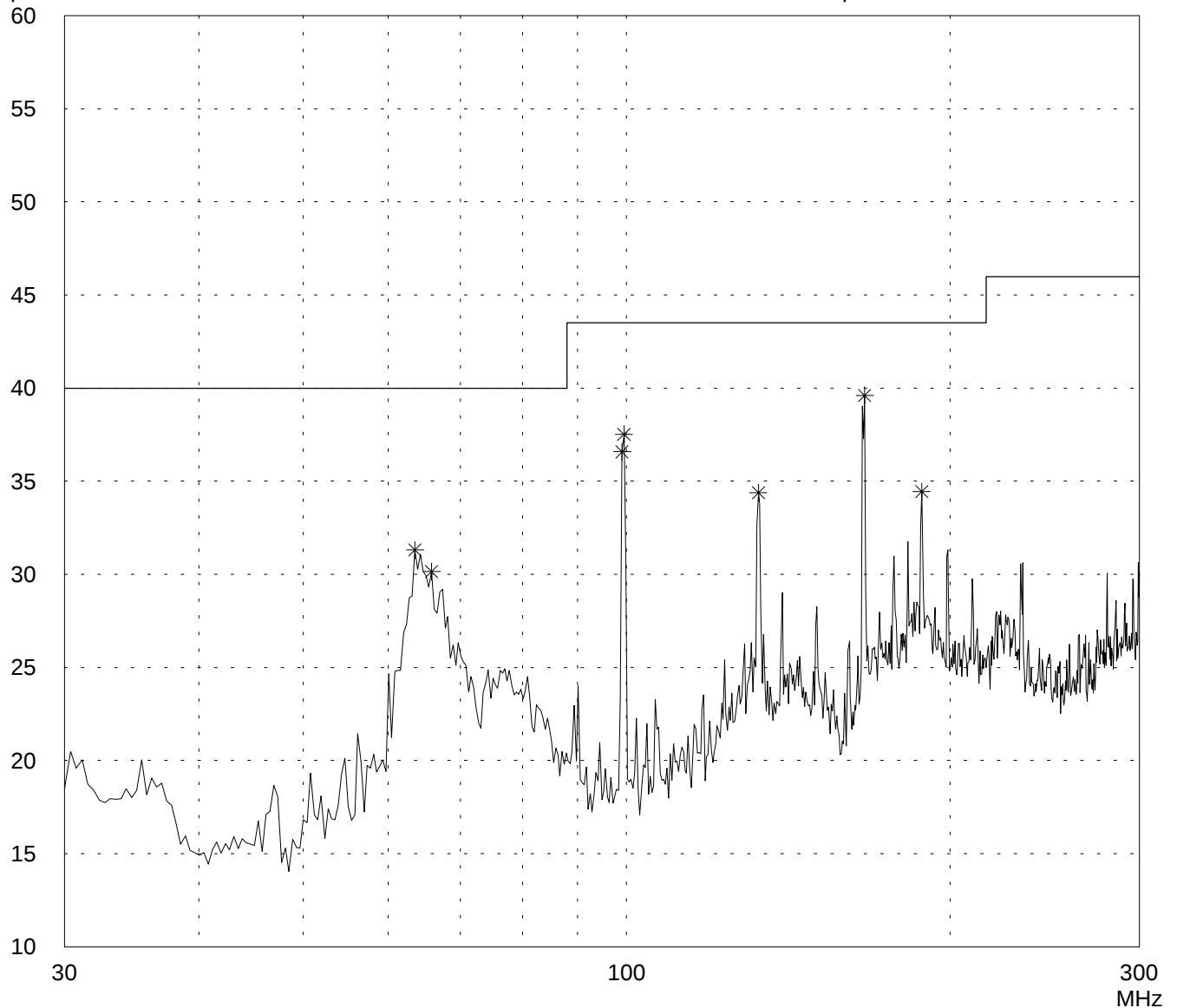
List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Horizontal Polarization**

Date of test: Operator:
12/12/2002 R. Heller

Test performed: File name:
automatically

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off

- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

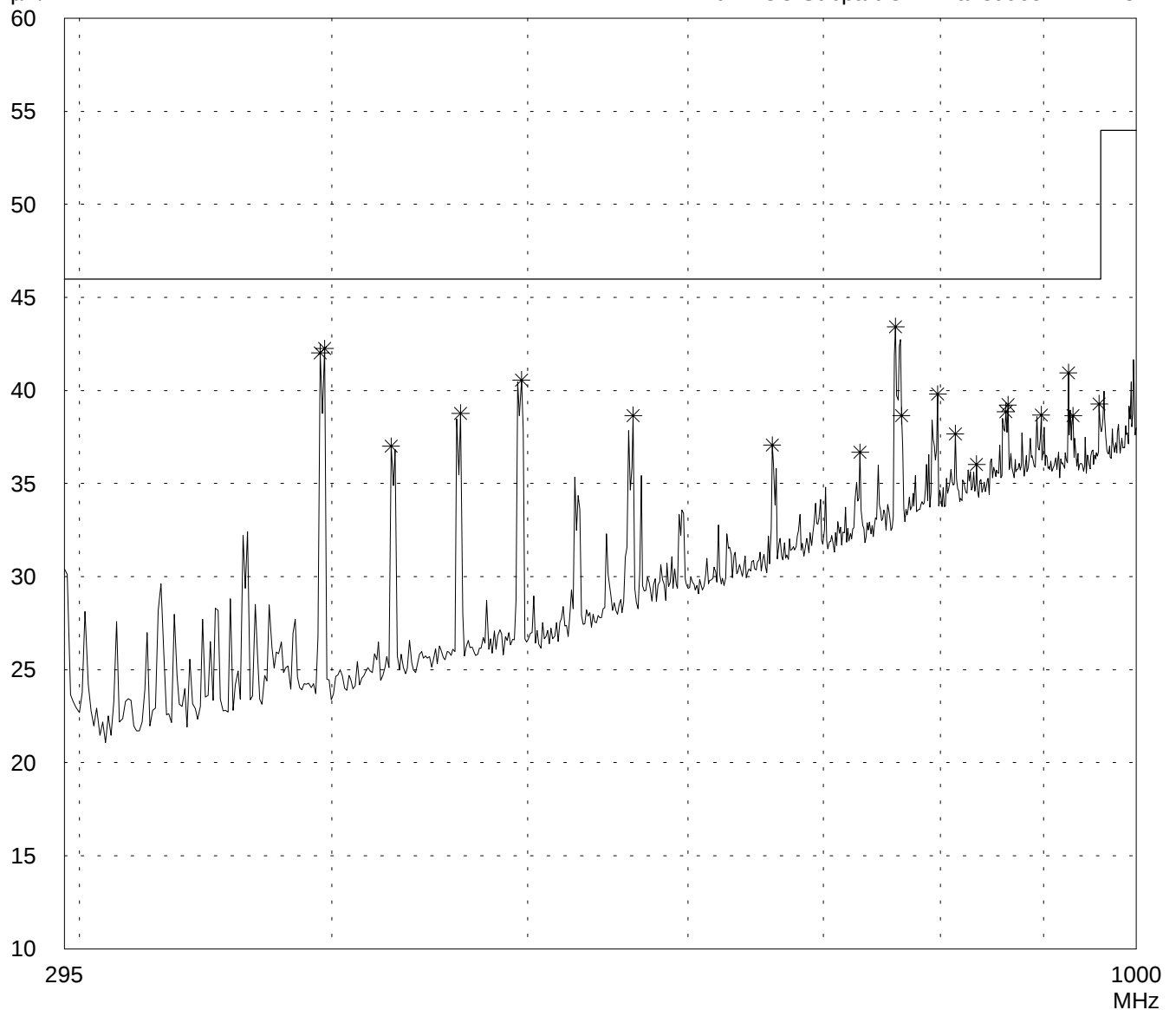
- TX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

dB μ V/m

Limit1: FCC Subpart C Transducer: HL 223



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off

- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:

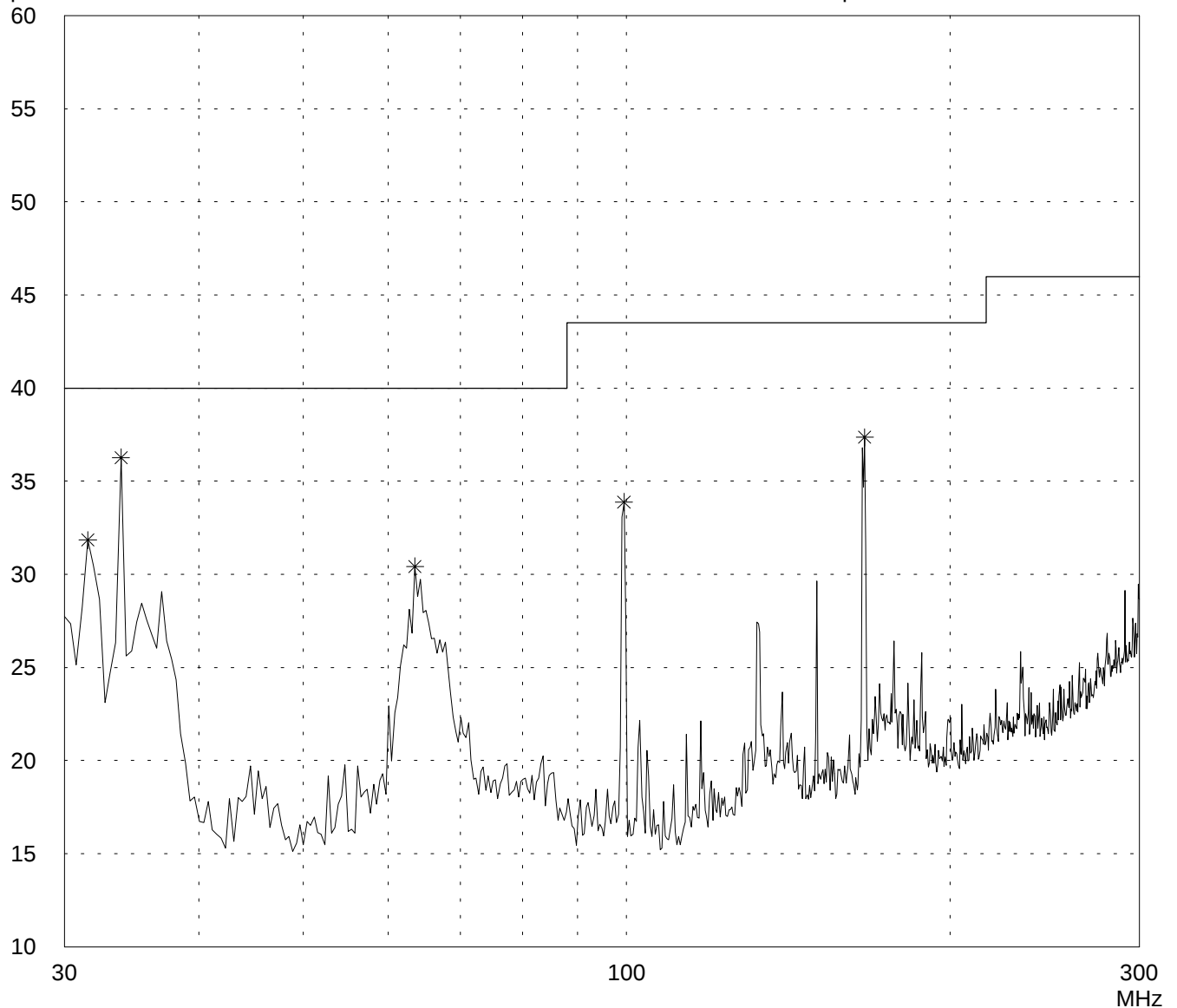
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Subpart C

Transducer: HK 116



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Detector:
Peak

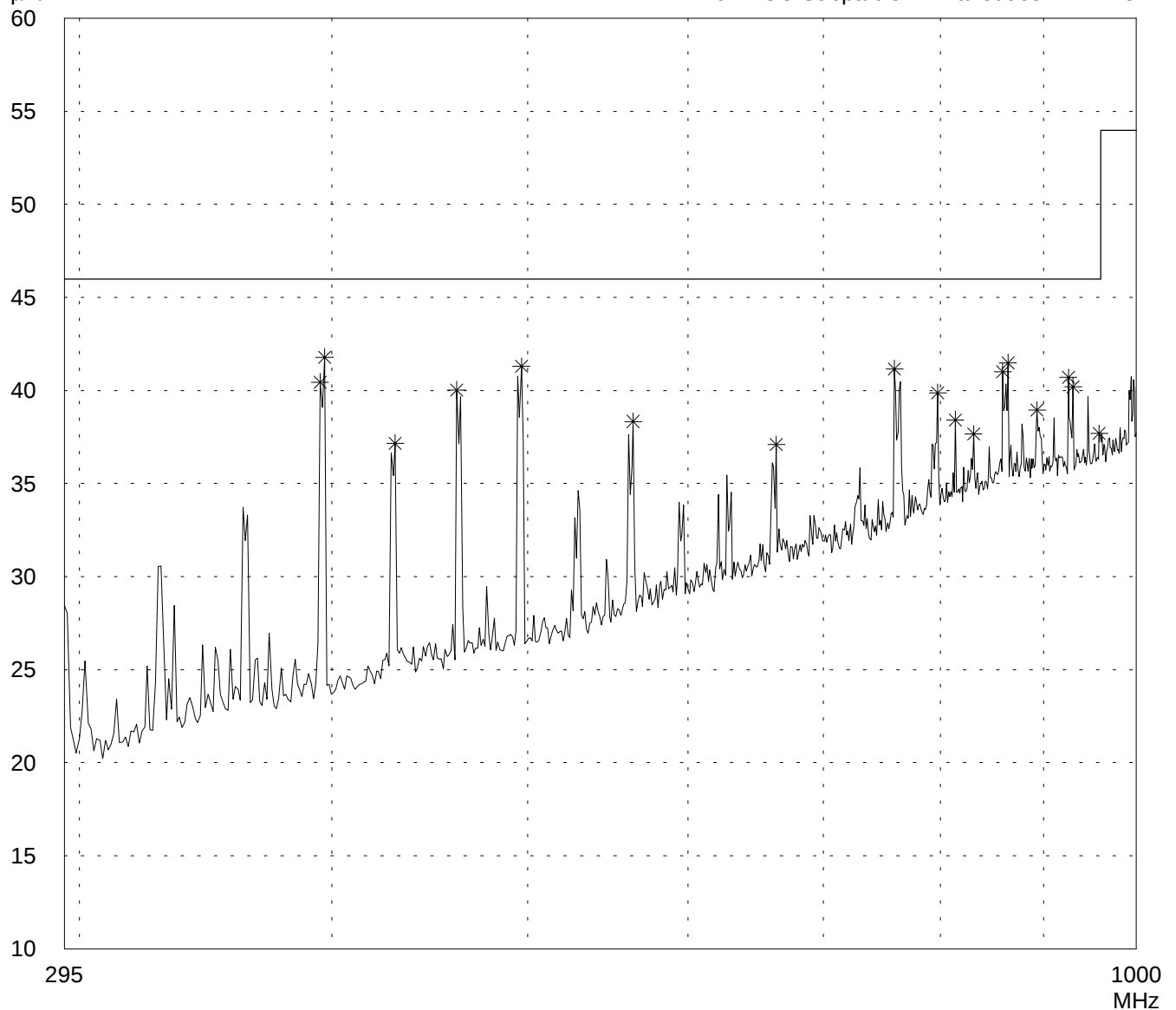
List of values:

10 dB Margin

50 Subranges

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

Limit1: FCC Subpart C Transducer: HL 223



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
by hand

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off

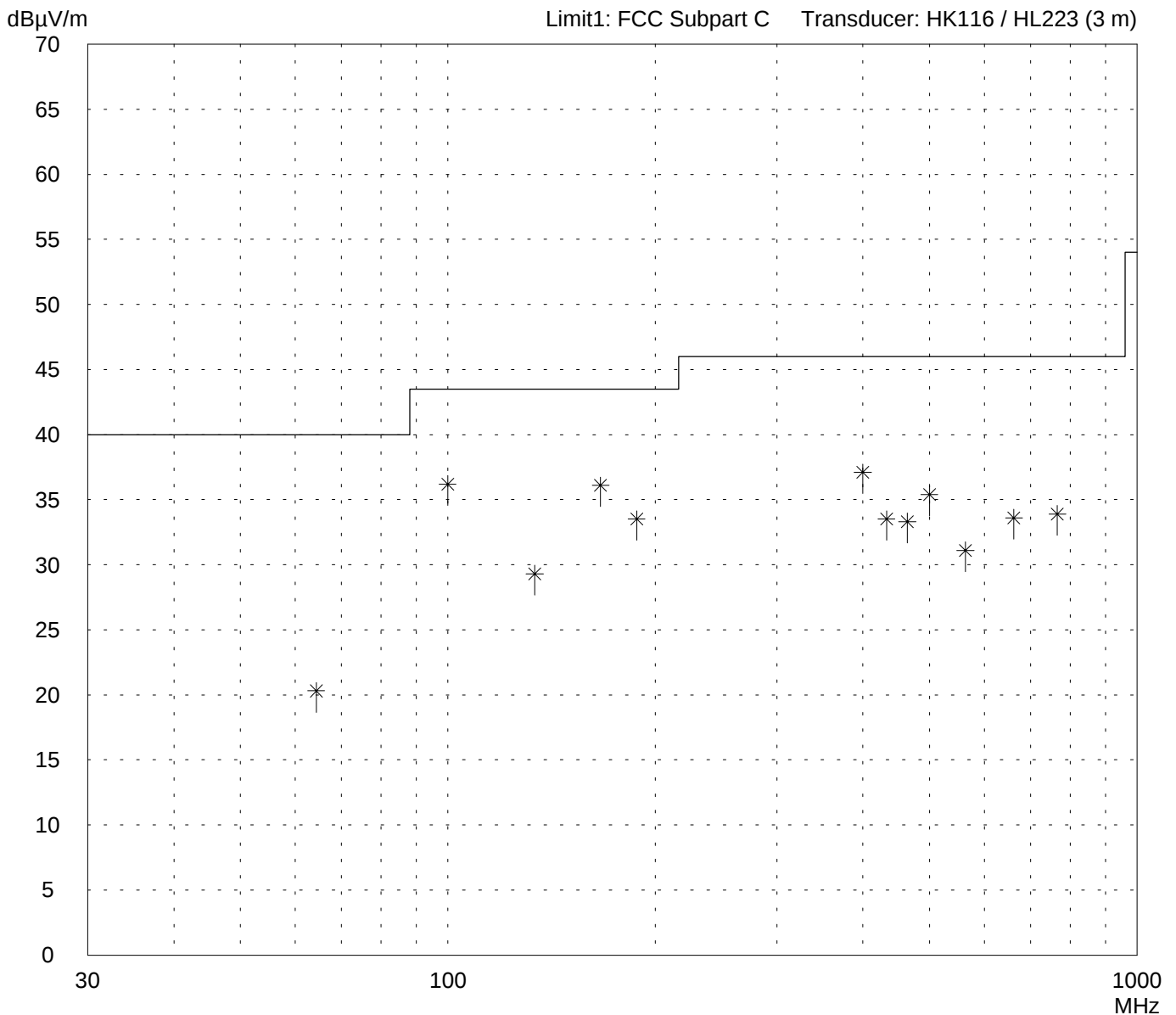
- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 12/19/2002 Operator:
R. Heller

Test performed: by hand File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off

- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
64.40	10.5	9.8	20.3	40.0	
99.88	25.5	10.7	36.2	43.5	
133.56	16.0	13.3	29.3	43.5	
166.48	21.6	14.5	36.1	43.5	
187.38	17.6	15.9	33.5	43.5	
399.68	18.4	18.7	37.1	46.0	
433.00	14.0	19.5	33.5	46.0	
463.97	13.2	20.1	33.3	46.0	
499.58	14.7	20.7	35.4	46.0	
563.40	9.4	21.7	31.1	46.0	
662.78	9.9	23.7	33.6	46.0	
766.13	8.9	25.0	33.9	46.0	

Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
by hand

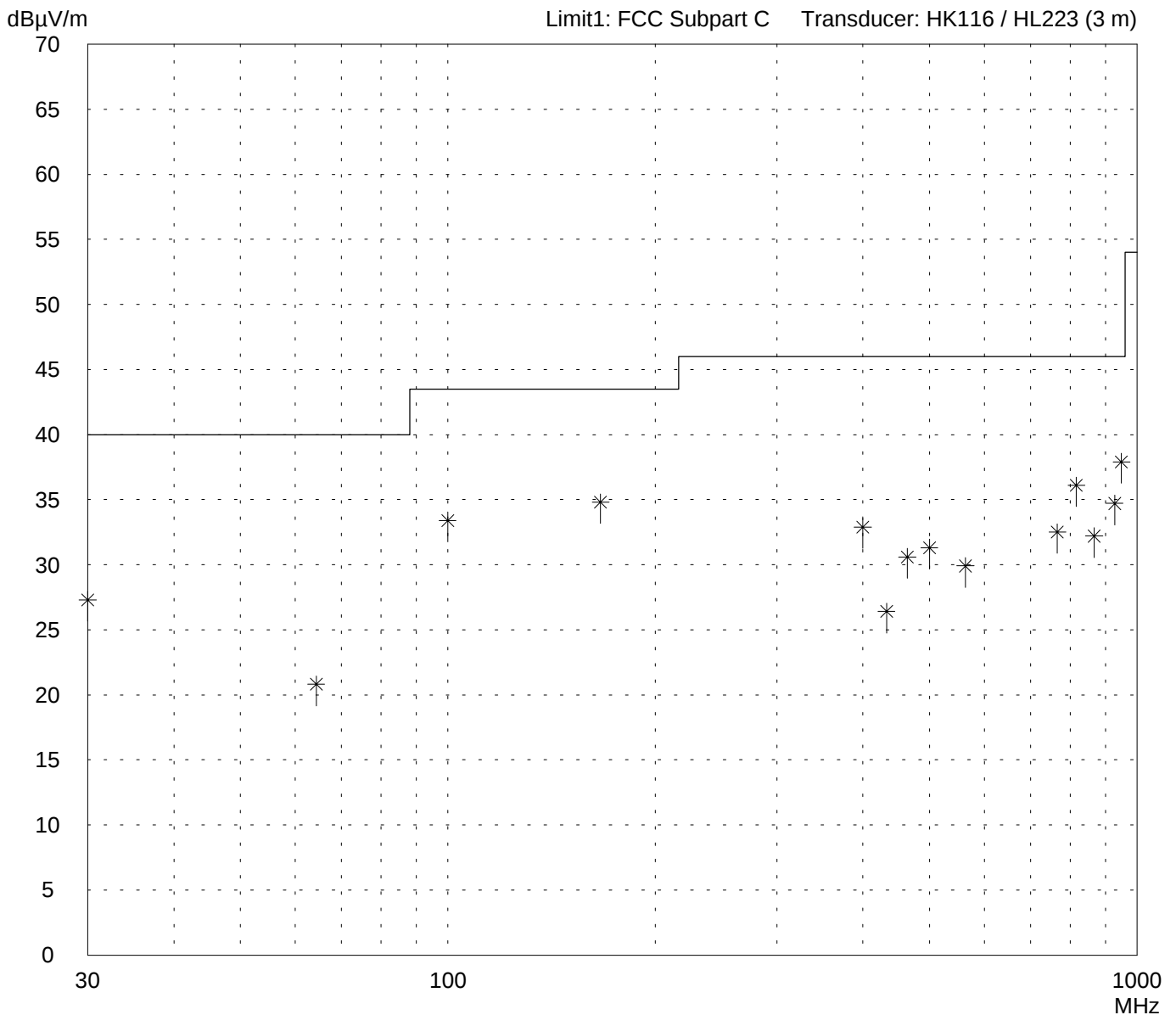
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 12/19/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
30.00	13.0	14.3	27.3	40.0	
64.40	11.0	9.8	20.8	40.0	
99.88	22.7	10.7	33.4	43.5	
166.52	20.3	14.5	34.8	43.5	
399.68	14.2	18.7	32.9	46.0	
433.00	6.9	19.5	26.4	46.0	
463.97	10.5	20.1	30.6	46.0	
499.58	10.6	20.7	31.3	46.0	
563.40	8.2	21.7	29.9	46.0	
766.10	7.5	25.0	32.5	46.0	
816.11	10.2	25.9	36.1	46.0	
866.06	5.0	27.2	32.2	46.0	
927.84	7.3	27.4	34.7	46.0	
948.96	10.5	27.4	37.9	46.0	

Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Horizontal Polarization**

Date of test: 12/12/2002
Operator: R. Heller

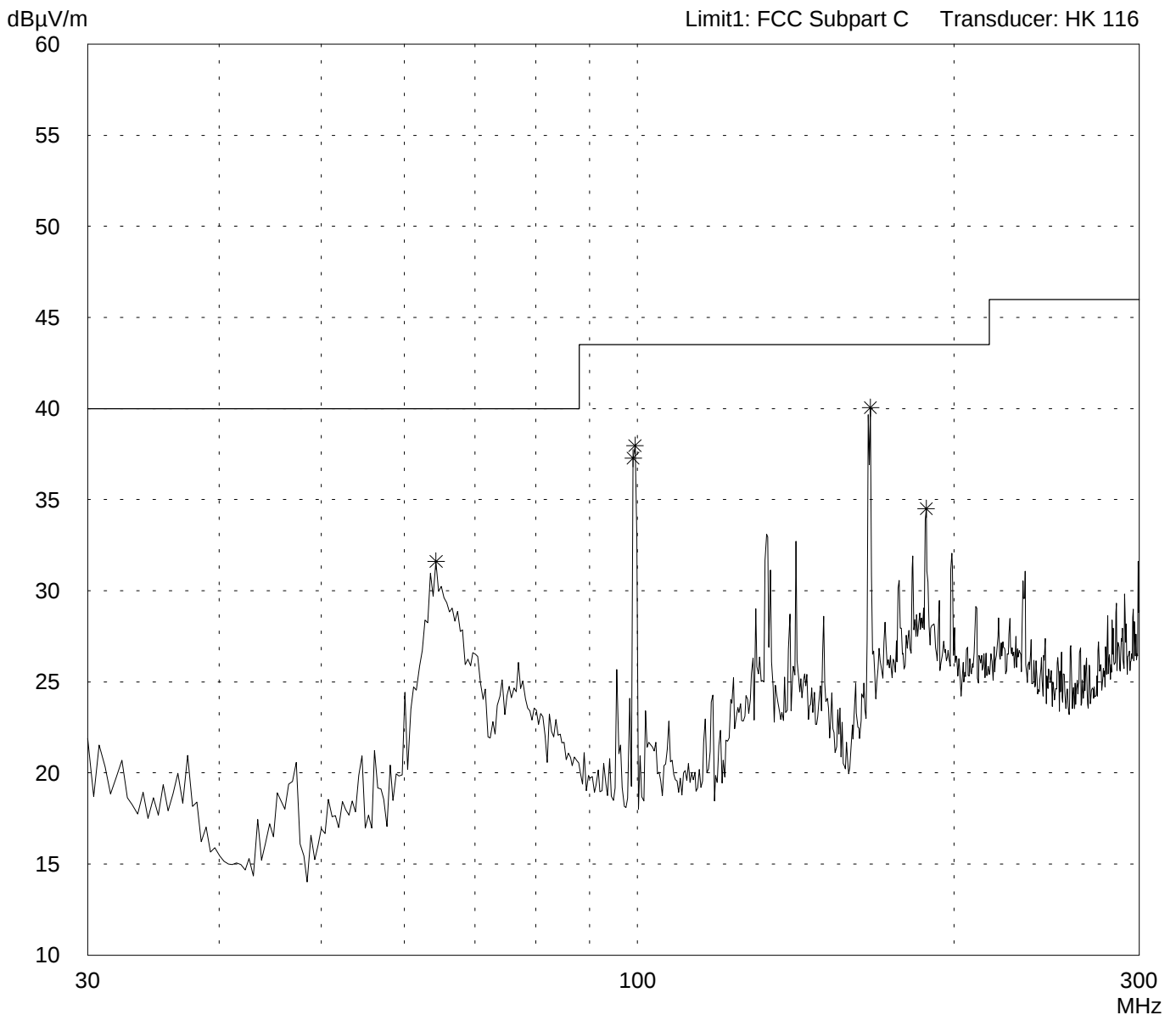
Test performed: automatically
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Horizontal Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Peak

List of values:

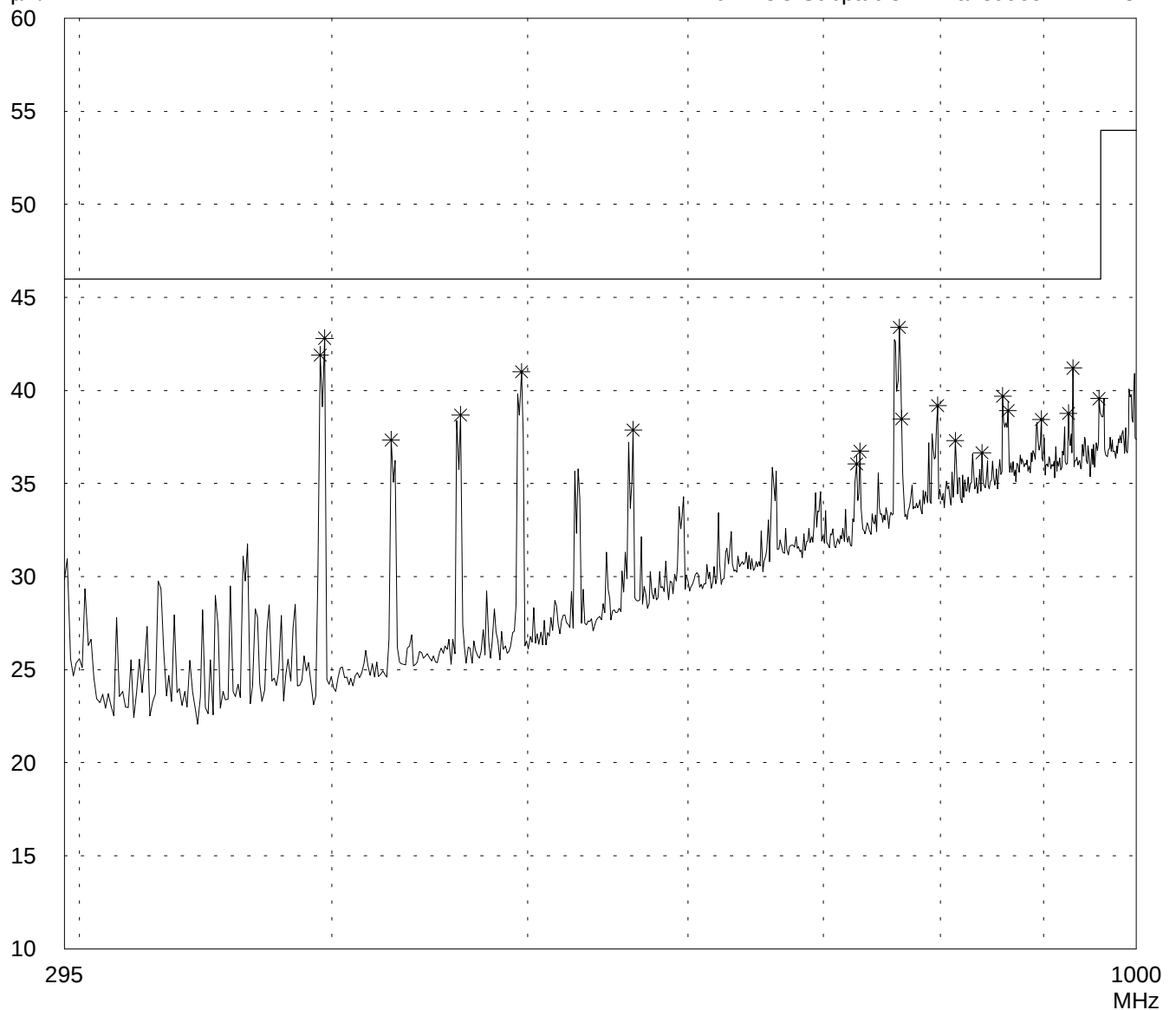
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Subpart C

Transducer: HL 223



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test: 12/12/2002 Operator:
R. Heller

Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off

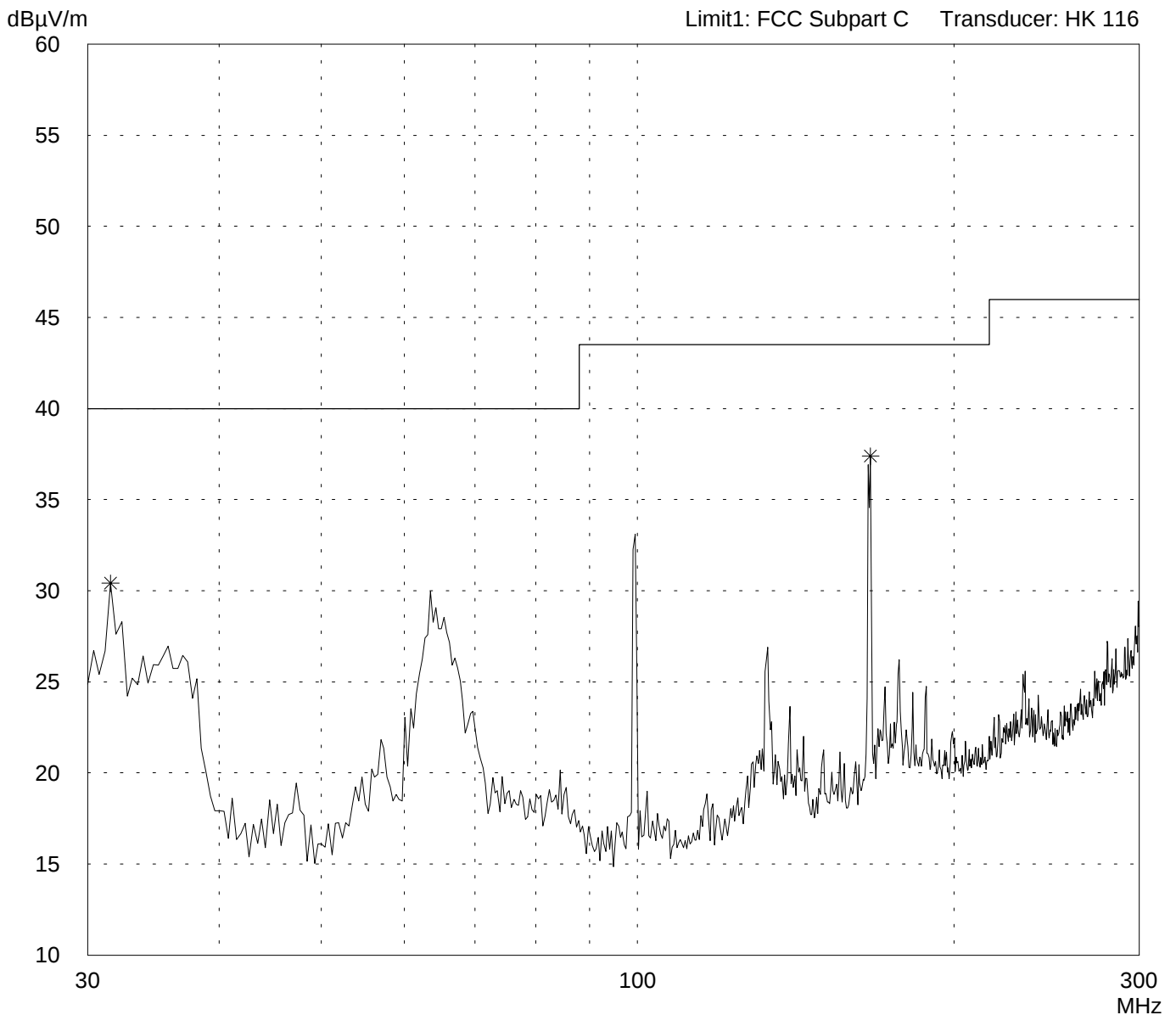
- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Peak

List of values:

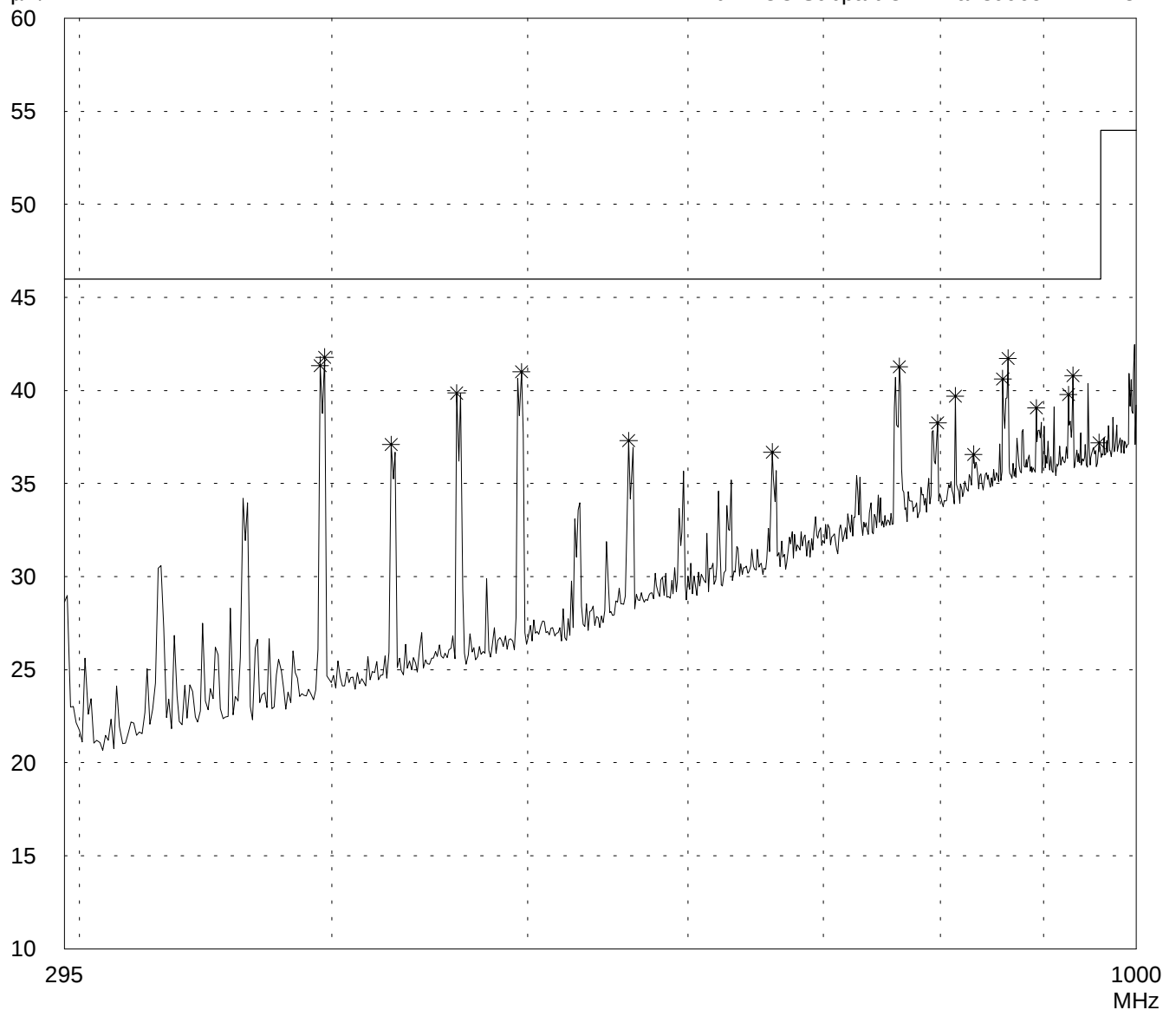
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Subpart C

Transducer: HL 223



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
**Test distance 3 meters
Horizontal Polarization**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
by hand

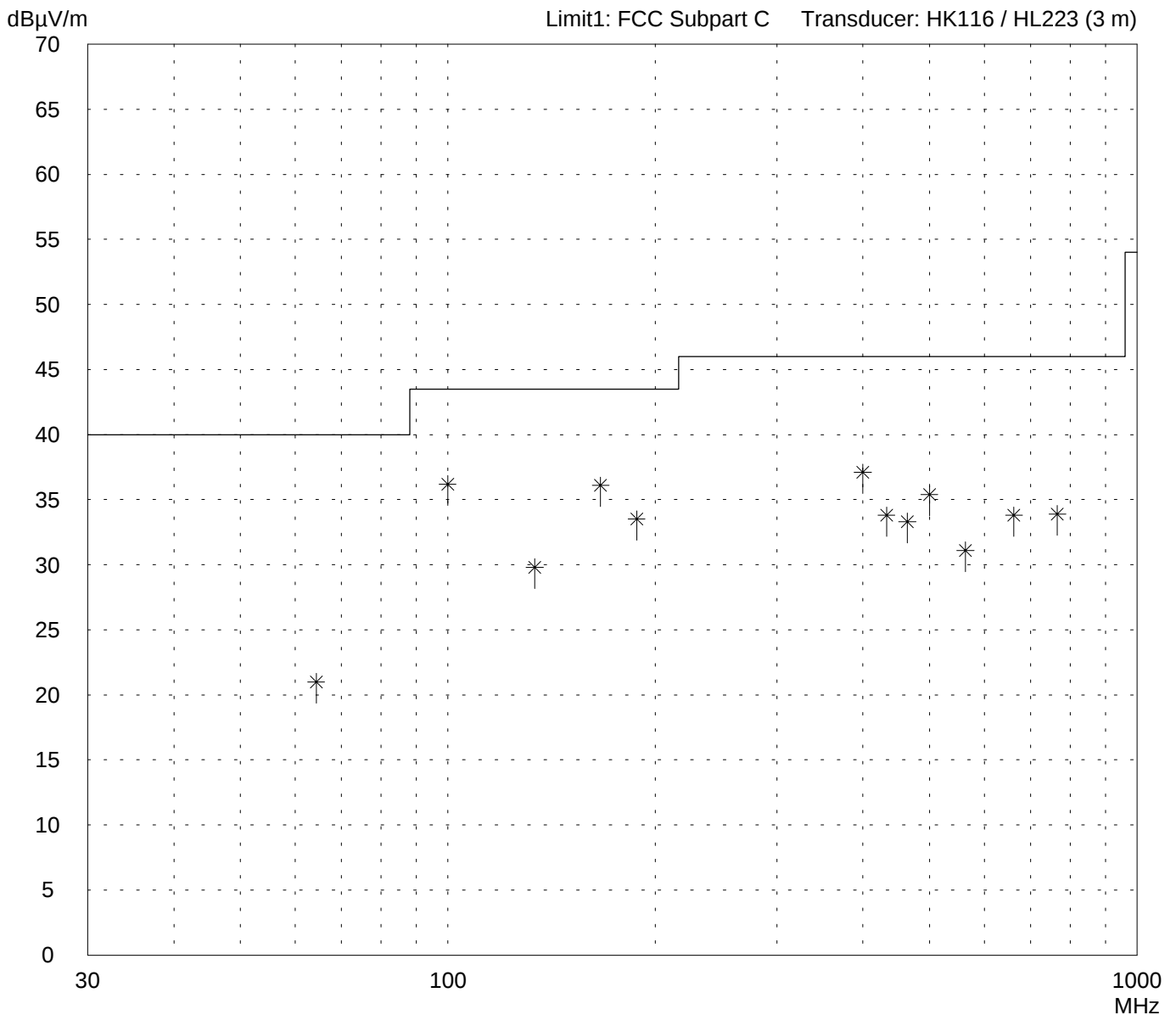
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 12/19/2002 Operator: R. Heller

Test performed: by hand File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
64.40	11.2	9.8	21.0	40.0	
99.88	25.5	10.7	36.2	43.5	
133.56	16.5	13.3	29.8	43.5	
166.48	21.6	14.5	36.1	43.5	
187.38	17.6	15.9	33.5	43.5	
399.68	18.4	18.7	37.1	46.0	
433.00	14.3	19.5	33.8	46.0	
463.97	13.2	20.1	33.3	46.0	
499.58	14.7	20.7	35.4	46.0	
563.40	9.4	21.7	31.1	46.0	
662.78	10.1	23.7	33.8	46.0	
766.13	8.9	25.0	33.9	46.0	

Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
by hand

File name:

Mode:

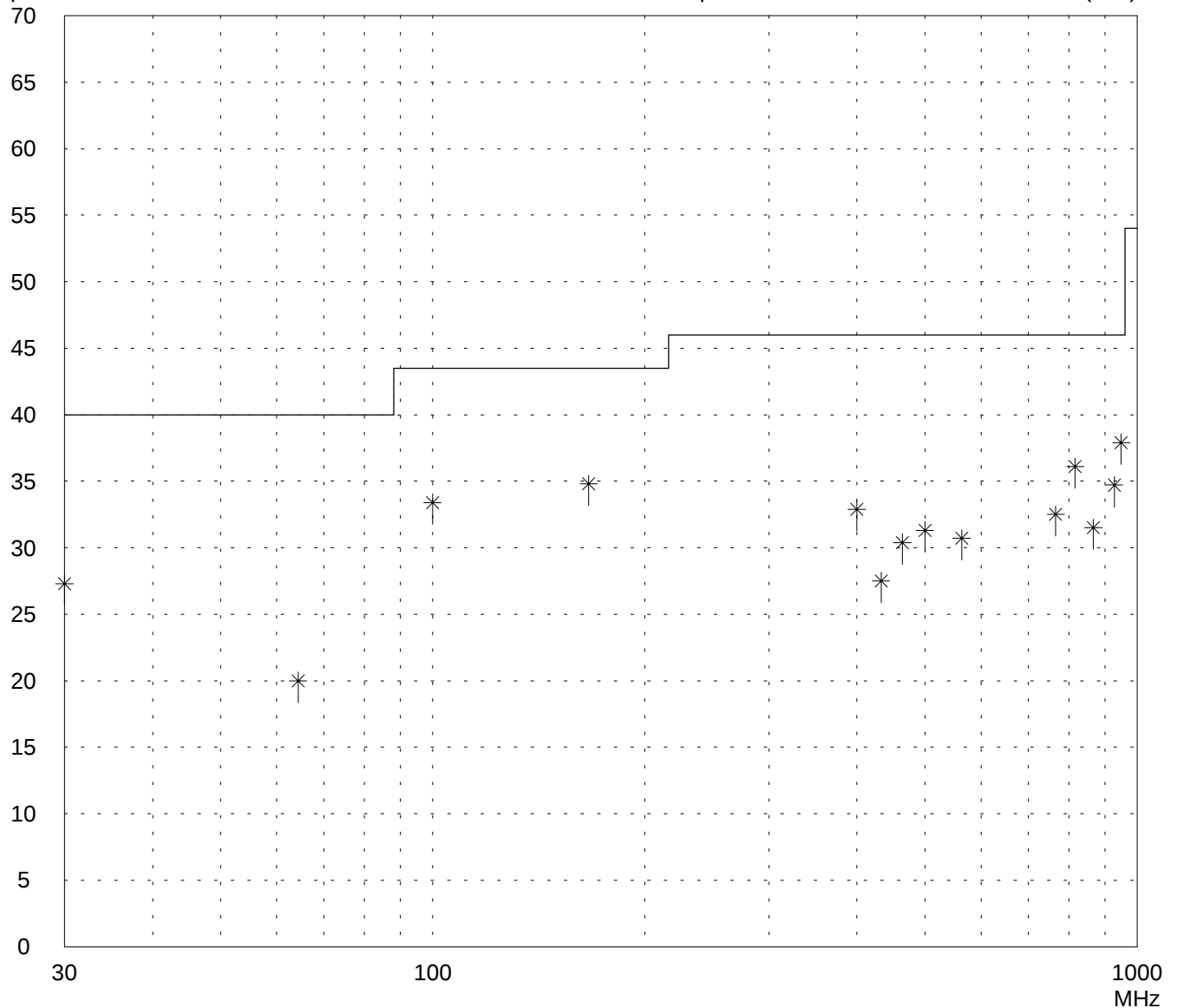
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

dB μ V/m

Limit1: FCC Subpart C Transducer: HK116 / HL223 (3 m)



Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 12/19/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
30.00	13.0	14.3	27.3	40.0	
64.40	10.2	9.8	20.0	40.0	
99.88	22.7	10.7	33.4	43.5	
166.52	20.3	14.5	34.8	43.5	
399.68	14.2	18.7	32.9	46.0	
433.00	8.0	19.5	27.5	46.0	
463.97	10.3	20.1	30.4	46.0	
499.58	10.6	20.7	31.3	46.0	
563.40	9.0	21.7	30.7	46.0	
766.10	7.5	25.0	32.5	46.0	
816.11	10.2	25.9	36.1	46.0	
866.06	4.3	27.2	31.5	46.0	
927.84	7.3	27.4	34.7	46.0	
948.96	10.5	27.4	37.9	46.0	

Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
1.0630	vertical	21.9	0.5	26.0	48.3	74
1.1633	horizontal	20.1	0.5	26.2	46.8	74
1.1991	vertical	23.8	0.5	26.3	50.5	74
1.3352	vertical	24.1	0.5	26.5	51.1	74
2.3900	vertical	32.0	0.6	20.7	53.3	74
2.3993	vertical	51.6	0.6	20.7	72.9	NRB
2.4000	vertical	50.8	0.6	20.7	72.2	NRB
2.4018	vertical	50.5	0.6	20.7	71.8	OB
2.4130	vertical	87.0	0.6	20.7	108.3	OB
2.4233	vertical	51.8	0.6	20.7	73.1	OB
2.7170	vertical	19.9	0.6	23.7	44.2	74
4.3701	horizontal	9.9	0.8	27.2	38.0	74
4.8303	horizontal	16.4	0.9	27.3	44.5	74
7.2313	horizontal	7.6	1.1	29.9	38.6	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 108.3 dB μ V/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

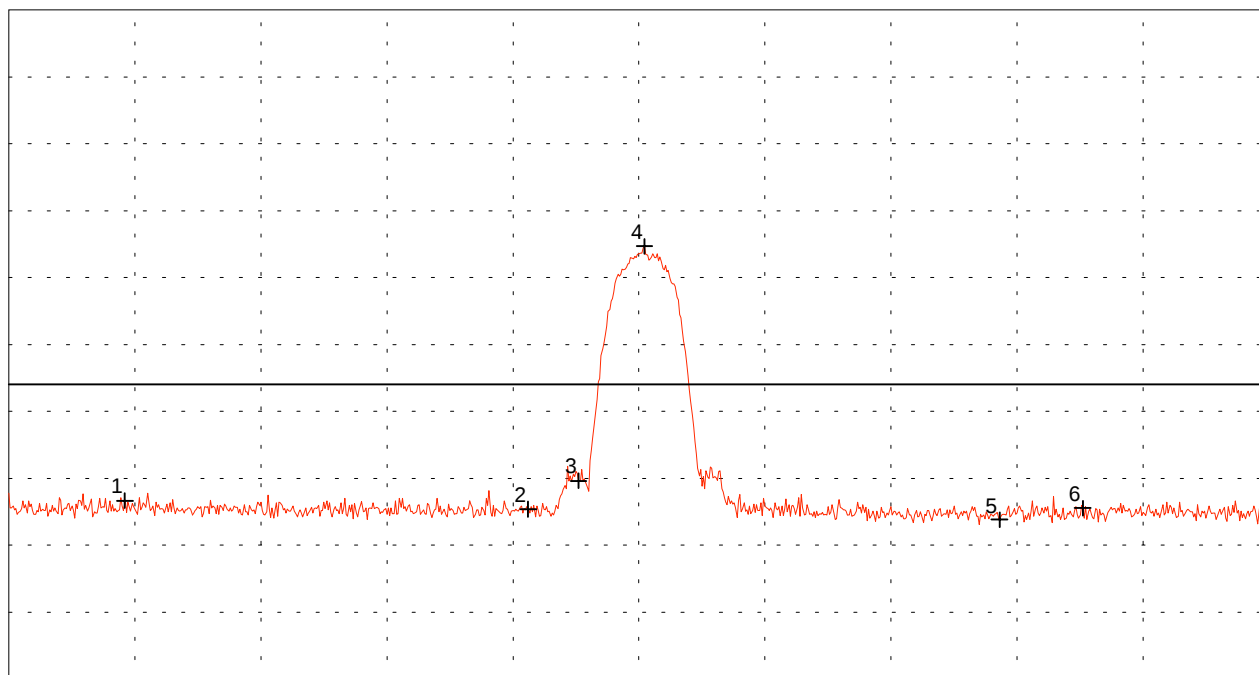
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	56.63 dB μ V/m
No. 2	2.390000 GHz	55.38 dB μ V/m
No. 3	2.400000 GHz	59.62 dB μ V/m
No. 4	2.413111 GHz	94.67 dB μ V/m
No. 5	2.483500 GHz	53.81 dB μ V/m
No. 6	2.500000 GHz	55.54 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

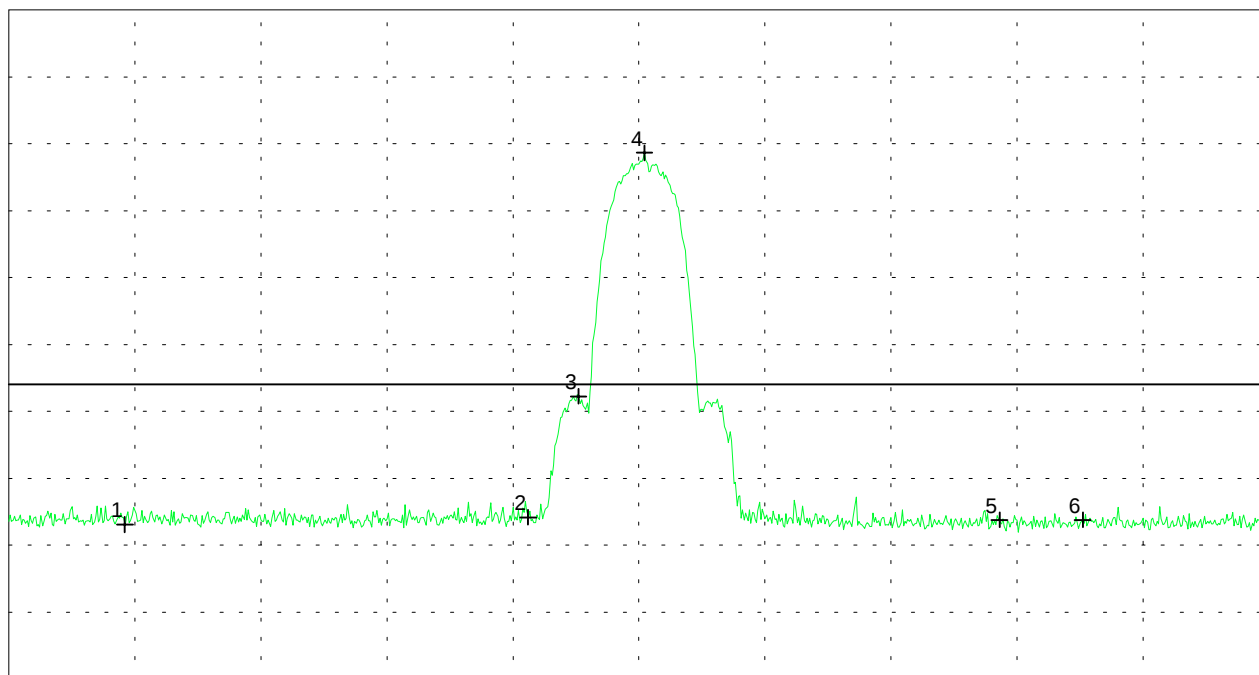
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	53.08 dB μ V/m
No. 2	2.390000 GHz	54.17 dB μ V/m
No. 3	2.400000 GHz	72.25 dB μ V/m
No. 4	2.413111 GHz	108.64 dB μ V/m
No. 5	2.483500 GHz	53.79 dB μ V/m
No. 6	2.500000 GHz	53.79 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

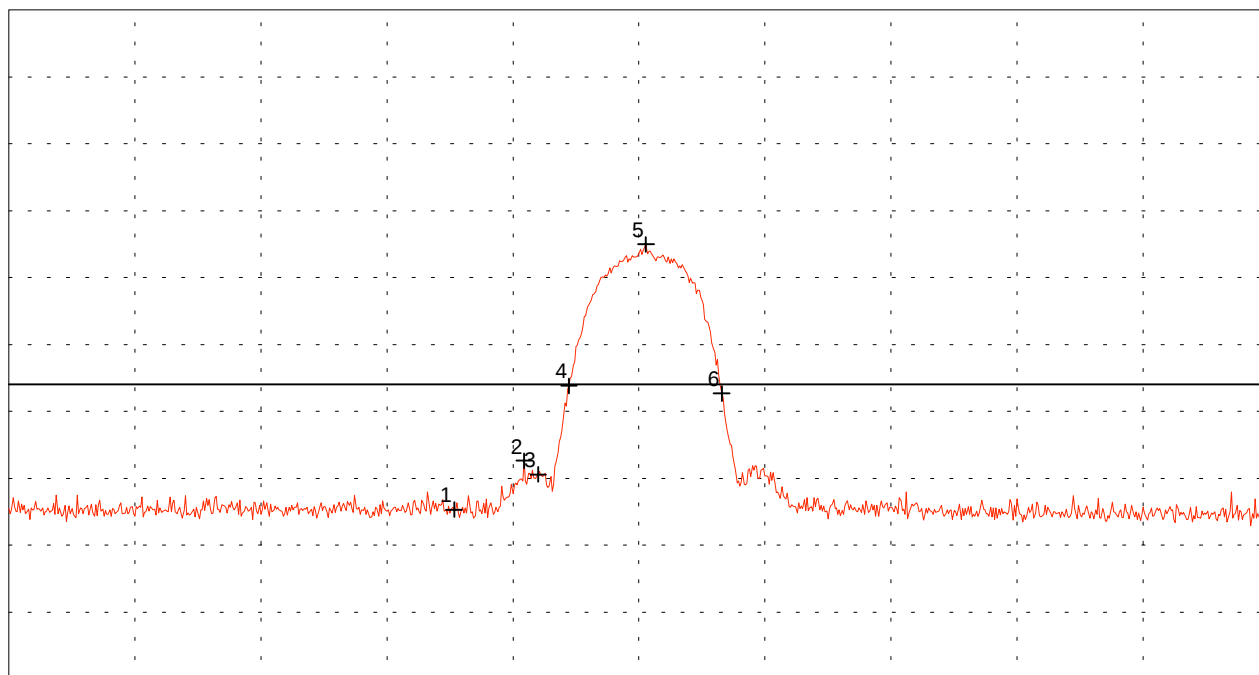
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

Multi Marker List

No. 1	2.390000 GHz	55.33 dB μ V/m
No. 2	2.398333 GHz	62.62 dB μ V/m
No. 3	2.400000 GHz	60.59 dB μ V/m
No. 4	2.403667 GHz	73.84 dB μ V/m
No. 5	2.412833 GHz	94.95 dB μ V/m
No. 6	2.421833 GHz	72.68 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

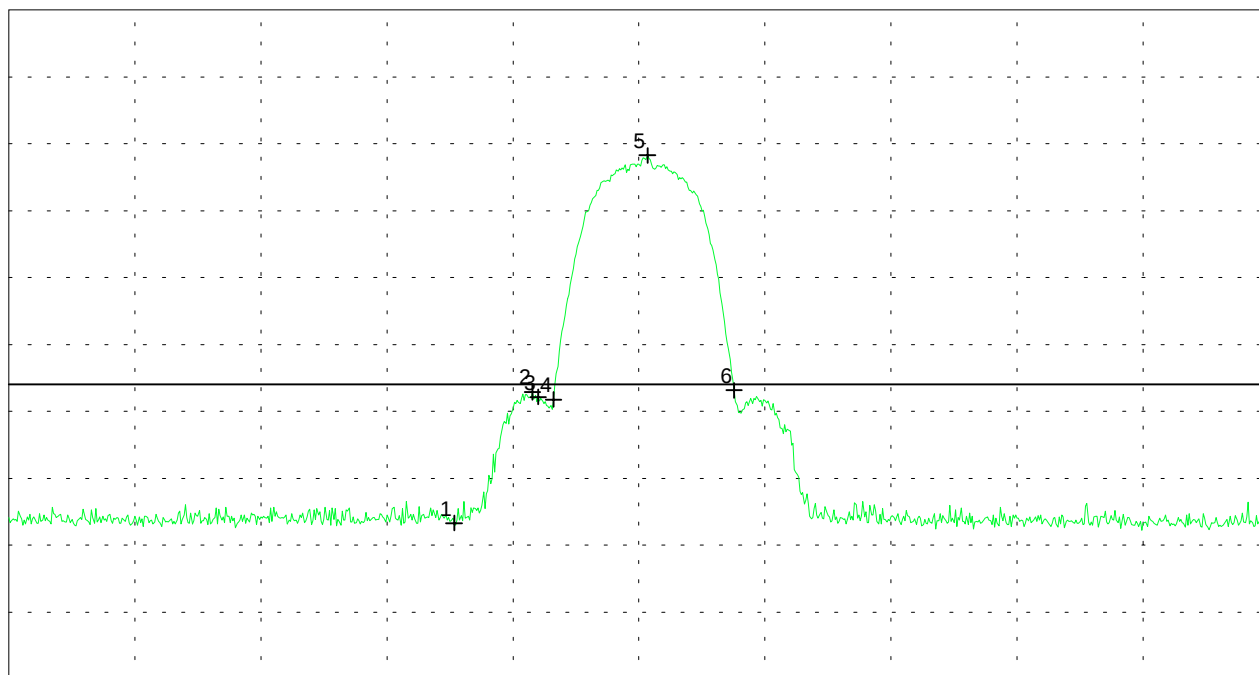
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

Multi Marker List

No. 1	2.390000 GHz	53.28 dB μ V/m
No. 2	2.399333 GHz	72.88 dB μ V/m
No. 3	2.400000 GHz	72.15 dB μ V/m
No. 4	2.401833 GHz	71.77 dB μ V/m
No. 5	2.413000 GHz	108.28 dB μ V/m
No. 6	2.423333 GHz	73.14 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
1.0614	vertical	< 16.3	0.5	26.0	< 42.7	54
1.1623	horizontal	< 10.4	0.5	26.2	< 37.1	54
1.1999	vertical	< 17.1	0.5	26.3	< 43.8	54
1.3337	vertical	< 17.7	0.5	26.5	< 44.7	54
1.5927	vertical	< 13.3	0.5	27.2	< 41.0	54
1.6619	vertical	< 13.7	0.5	27.5	< 41.8	54
2.3900	vertical	22.4	0.6	20.7	43.7	54
2.3950	vertical	32.5	0.6	20.7	53.8	NRB
2.3990	vertical	43.1	0.6	20.7	64.4	NRB
2.4000	vertical	42.6	0.6	20.7	63.9	NRB
2.4120	vertical	80.5	0.6	20.7	101.8	OB
2.4295	vertical	32.5	0.6	20.7	53.8	OB
2.7140	vertical	< 14.3	0.6	23.7	< 38.6	54
4.8240	horizontal	12.3	0.9	27.3	40.5	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 101.8 dB μ V/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

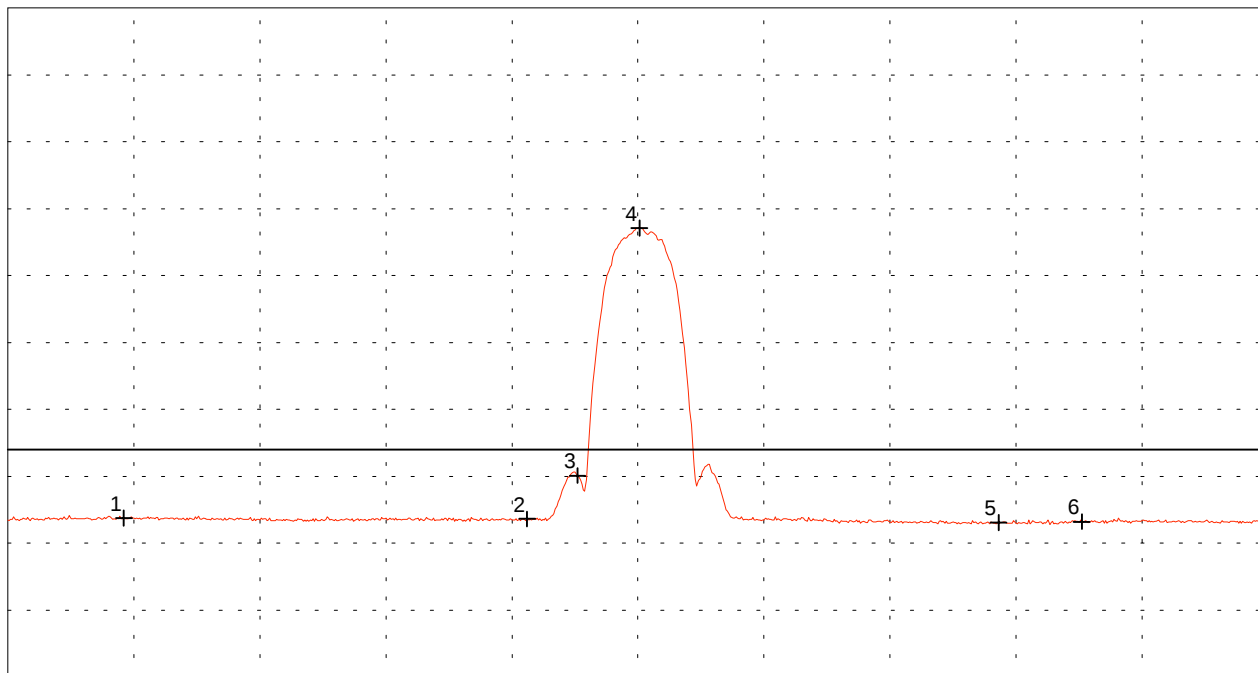
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz
SWP 260 ms

Multi Marker List

No. 1	2.310000 GHz	43.75 dB μ V/m
No. 2	2.390000 GHz	43.63 dB μ V/m
No. 3	2.400000 GHz	50.10 dB μ V/m
No. 4	2.412278 GHz	87.10 dB μ V/m
No. 5	2.483500 GHz	43.09 dB μ V/m
No. 6	2.500000 GHz	43.22 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

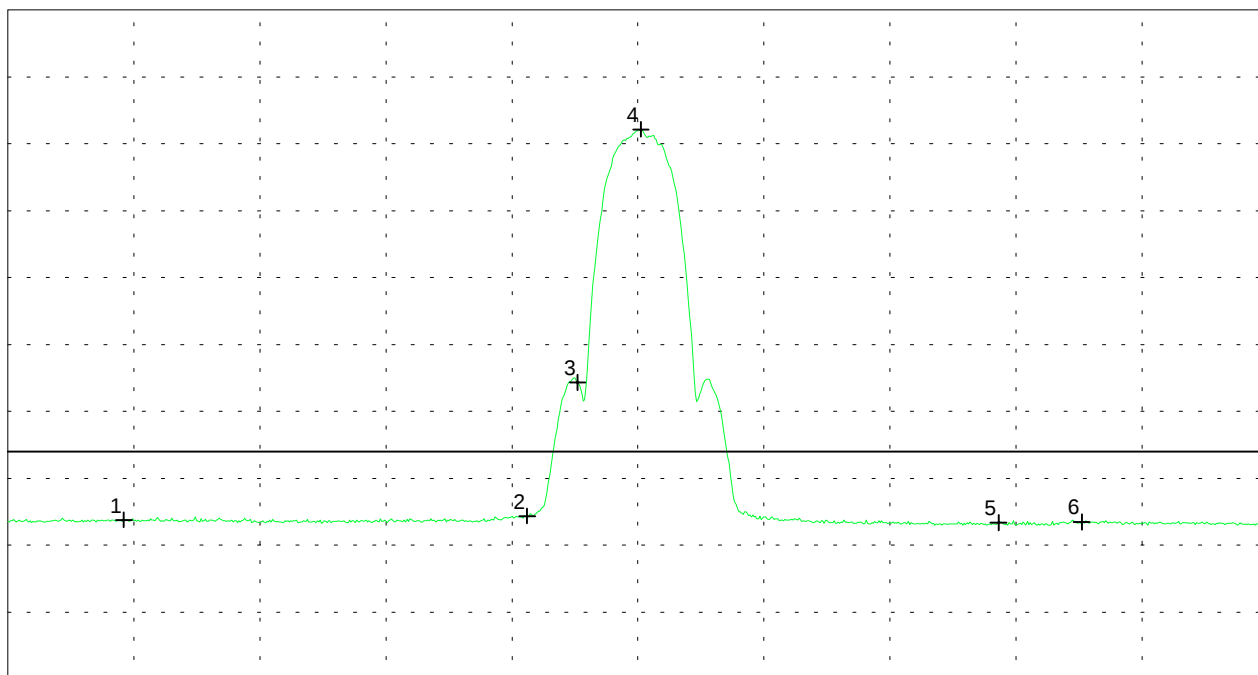
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz
SWP 260 ms

Multi Marker List

No. 1	2.310000 GHz	43.78 dB μ V/m
No. 2	2.390000 GHz	44.36 dB μ V/m
No. 3	2.400000 GHz	64.32 dB μ V/m
No. 4	2.412556 GHz	102.13 dB μ V/m
No. 5	2.483500 GHz	43.35 dB μ V/m
No. 6	2.500000 GHz	43.47 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

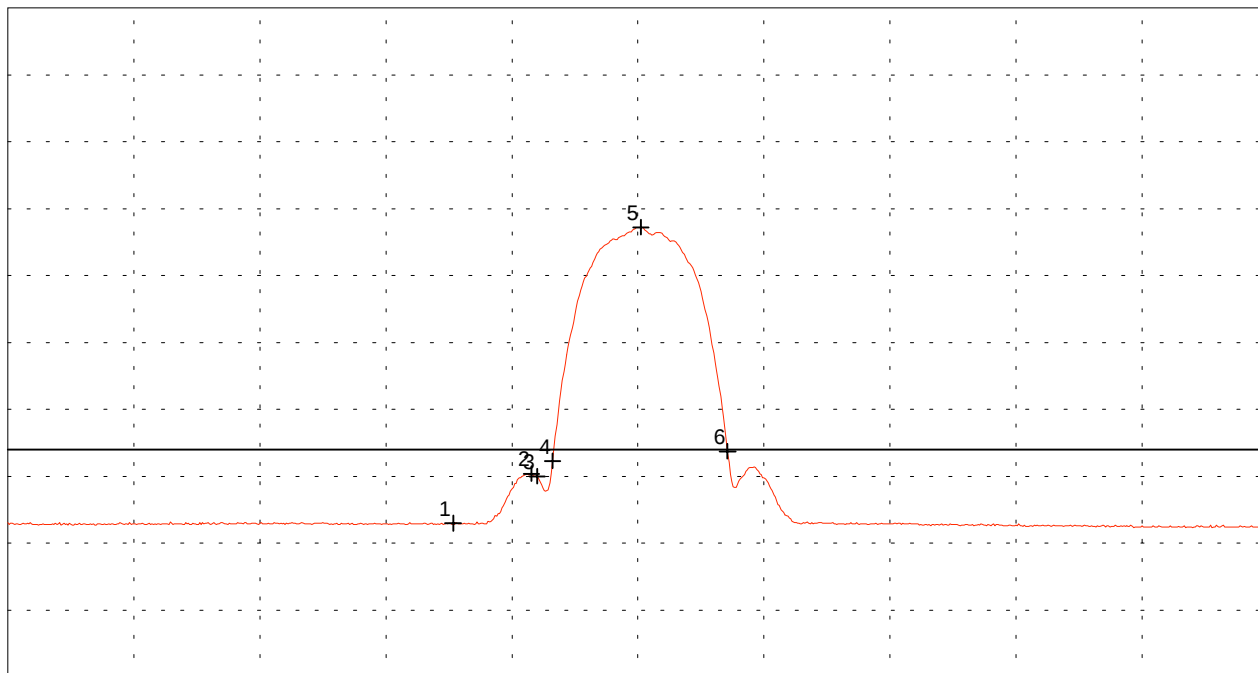
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.487 GHz
SWP 460 ms

Multi Marker List

No. 1	2.390000 GHz	42.97 dB μ V/m
No. 2	2.399333 GHz	50.36 dB μ V/m
No. 3	2.400000 GHz	50.00 dB μ V/m
No. 4	2.401833 GHz	52.29 dB μ V/m
No. 5	2.412333 GHz	87.23 dB μ V/m
No. 6	2.422667 GHz	53.73 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

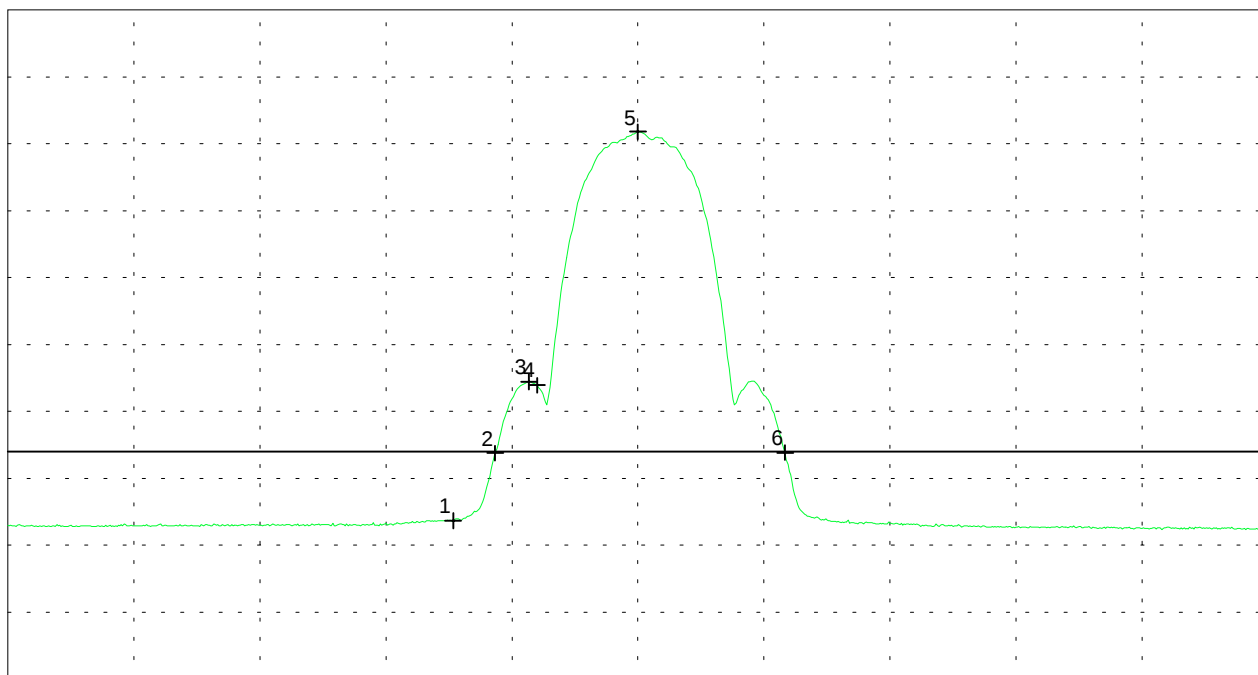
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.487 GHz
SWP 460 ms

Multi Marker List

No. 1	2.390000 GHz	43.65 dB μ V/m
No. 2	2.395000 GHz	53.76 dB μ V/m
No. 3	2.399000 GHz	64.40 dB μ V/m
No. 4	2.400000 GHz	63.92 dB μ V/m
No. 5	2.412000 GHz	101.80 dB μ V/m
No. 6	2.429500 GHz	53.83 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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**Radiated Emission 1 GHz - 25 GHz (Additional Test Results)
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)**

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.3900	vertical	32.4	0.6	20.7	53.7	74
2.3992	vertical	50.0	0.6	20.7	71.3	NRB
2.4000	vertical	49.3	0.6	20.7	70.6	NRB
2.4020	vertical	51.9	0.6	20.7	73.2	OB
2.4113	vertical	84.2	0.6	20.7	105.5	OB
2.4232	vertical	52.2	0.6	20.7	73.5	OB
4.8239	horizontal	17.9	0.9	27.3	46.0	74

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.5 dB μ V/m.

Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

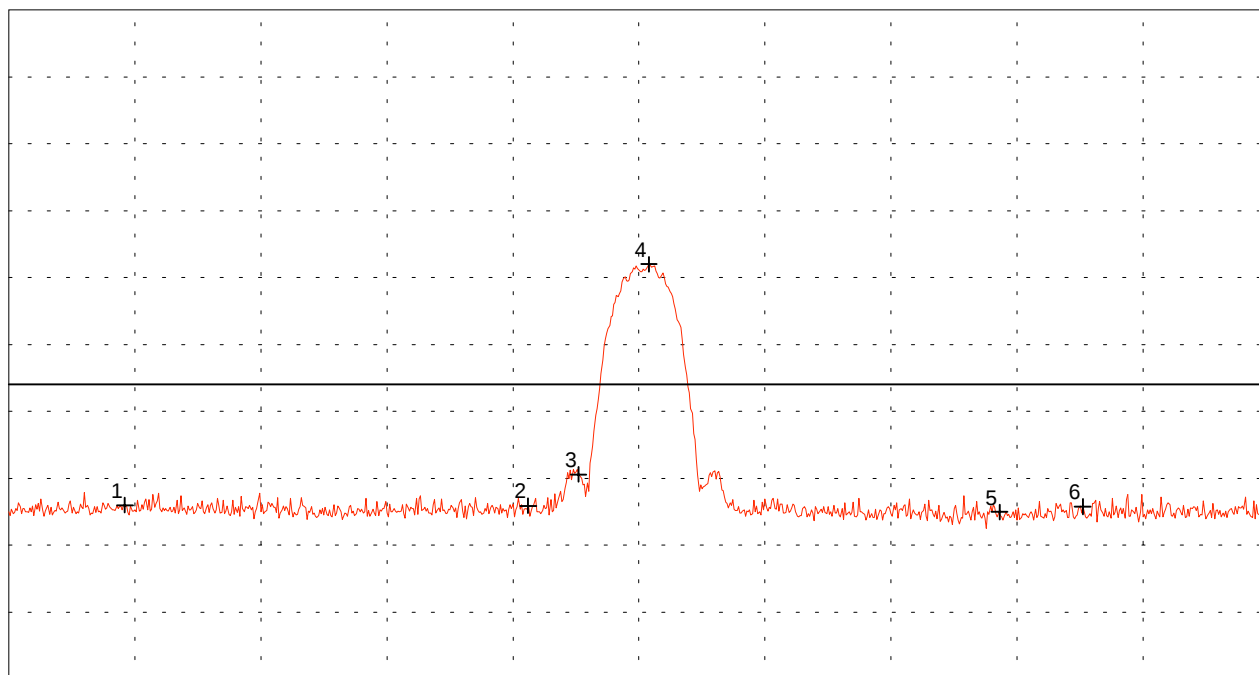
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	55.97 dB μ V/m
No. 2	2.390000 GHz	55.87 dB μ V/m
No. 3	2.400000 GHz	60.56 dB μ V/m
No. 4	2.413944 GHz	92.00 dB μ V/m
No. 5	2.483500 GHz	54.95 dB μ V/m
No. 6	2.500000 GHz	55.76 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

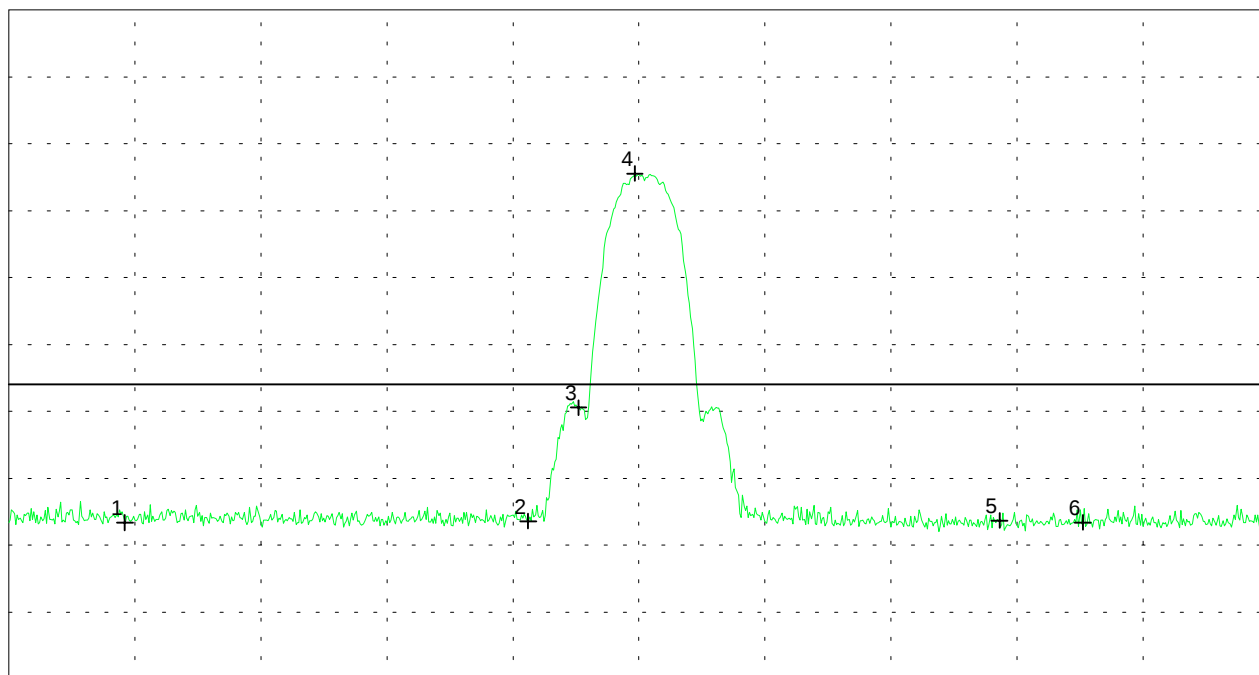
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	53.36 dB μ V/m
No. 2	2.390000 GHz	53.58 dB μ V/m
No. 3	2.400000 GHz	70.55 dB μ V/m
No. 4	2.411167 GHz	105.56 dB μ V/m
No. 5	2.483500 GHz	53.69 dB μ V/m
No. 6	2.500000 GHz	53.41 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

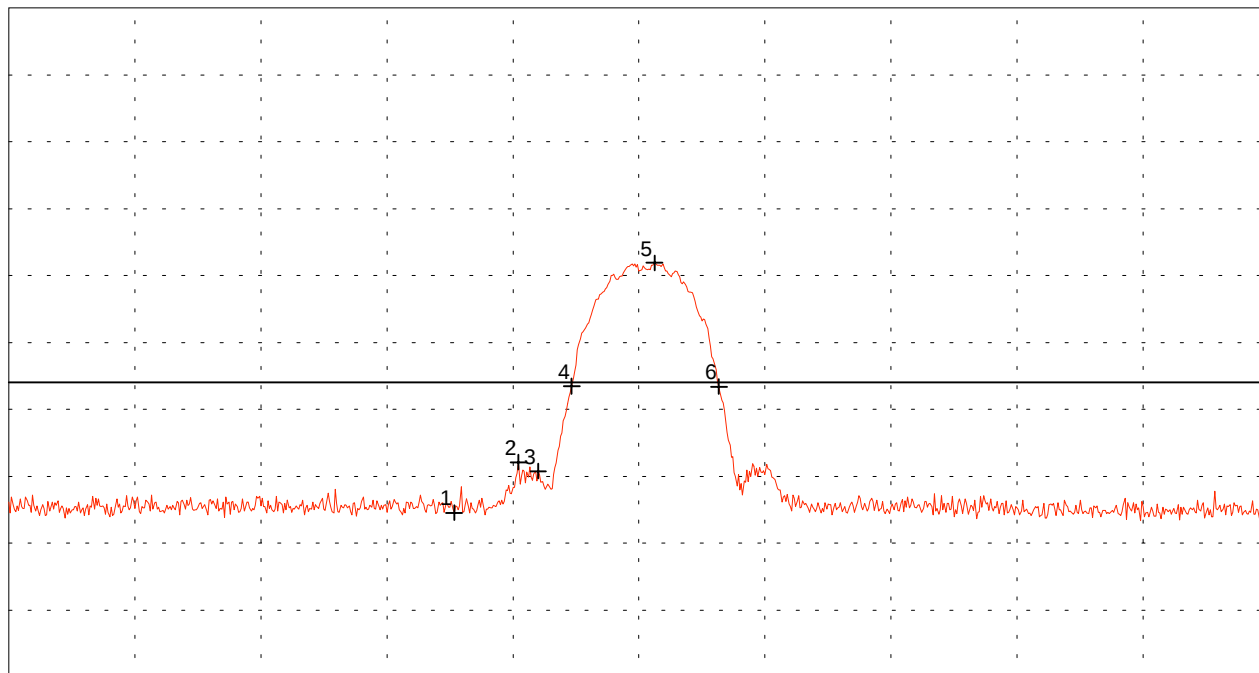
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

Multi Marker List

No. 1	2.390000 GHz	54.55 dB μ V/m
No. 2	2.397667 GHz	62.09 dB μ V/m
No. 3	2.400000 GHz	60.77 dB μ V/m
No. 4	2.404000 GHz	73.46 dB μ V/m
No. 5	2.413833 GHz	91.90 dB μ V/m
No. 6	2.421500 GHz	73.41 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

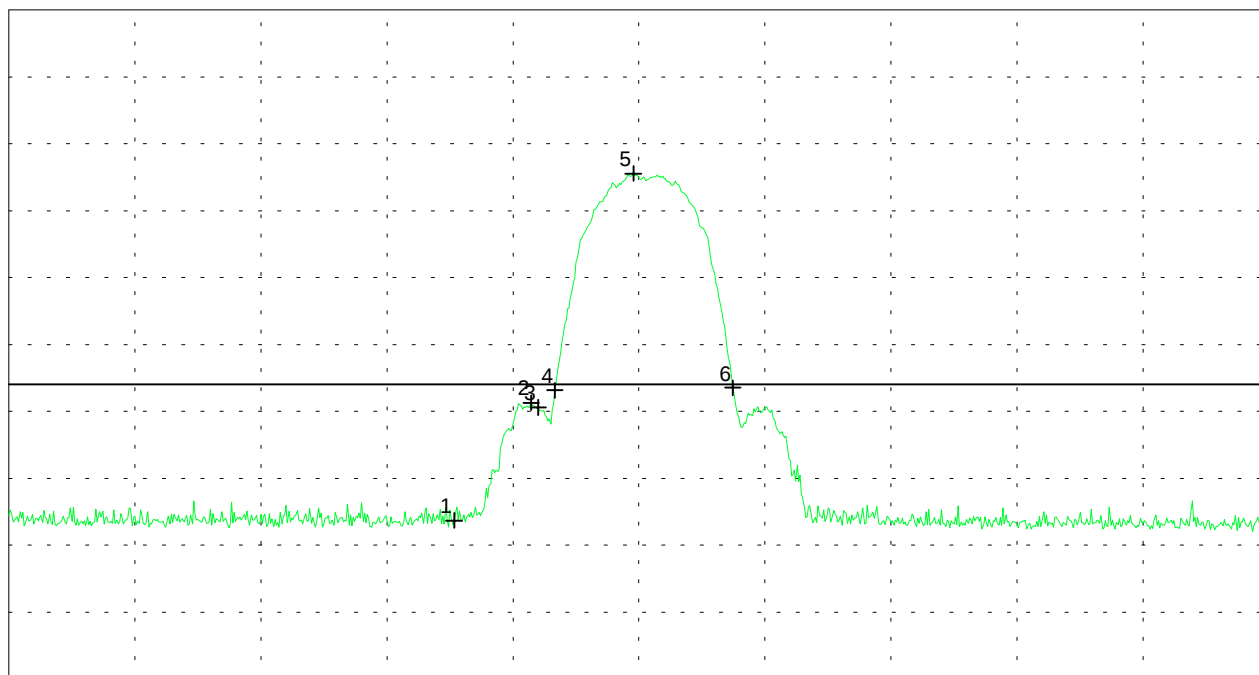
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

Multi Marker List

No. 1	2.390000 GHz	53.69 dB μ V/m
No. 2	2.399167 GHz	71.28 dB μ V/m
No. 3	2.400000 GHz	70.60 dB μ V/m
No. 4	2.402000 GHz	73.16 dB μ V/m
No. 5	2.411333 GHz	105.54 dB μ V/m
No. 6	2.423167 GHz	73.52 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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**Radiated Emission 1 GHz - 25 GHz (Additional Test Results)
 according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)**

Model: 0111-PC
 Type: RF-modem for wireless LAN
 Serial No.: 02UT45300010
 Applicant: Agere Systems Nederland B.V.
 Test-site: Semi anechoic room
 Test distance: 3 meters
 Date of test: 12/16/2002
 Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.3900	vertical	22.5	0.6	20.7	43.8	54
2.3955	vertical	31.9	0.6	20.7	53.2	NRB
2.3985	vertical	45.2	0.6	20.7	66.5	NRB
2.4000	vertical	42.7	0.6	20.7	64.0	NRB
2.4128	vertical	80.5	0.6	20.7	101.9	OB
2.4290	vertical	31.9	0.6	20.7	53.2	OB
4.8241	horizontal	13.1	0.9	27.3	41.2	54

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 101.9 dB μ V/m.

Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

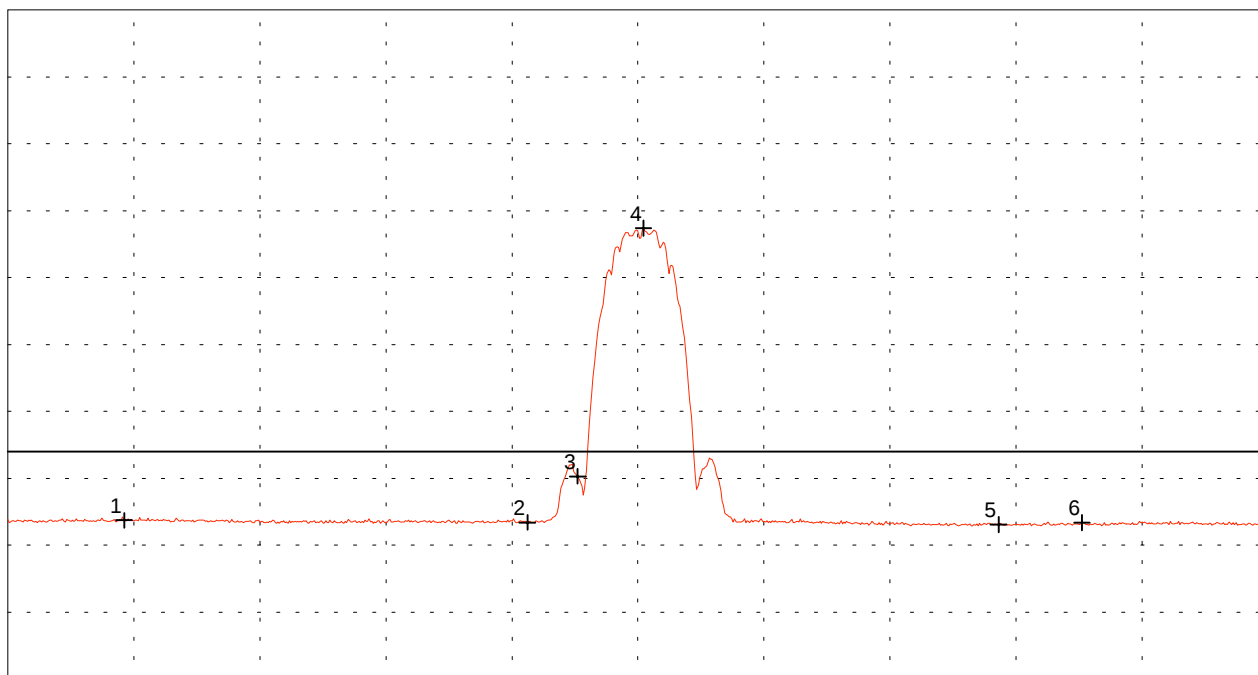
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz
SWP 260 ms

Multi Marker List

No. 1	2.310056 GHz	43.70 dB μ V/m
No. 2	2.390056 GHz	43.42 dB μ V/m
No. 3	2.400056 GHz	50.28 dB μ V/m
No. 4	2.413111 GHz	87.38 dB μ V/m
No. 5	2.483500 GHz	43.07 dB μ V/m
No. 6	2.500056 GHz	43.37 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

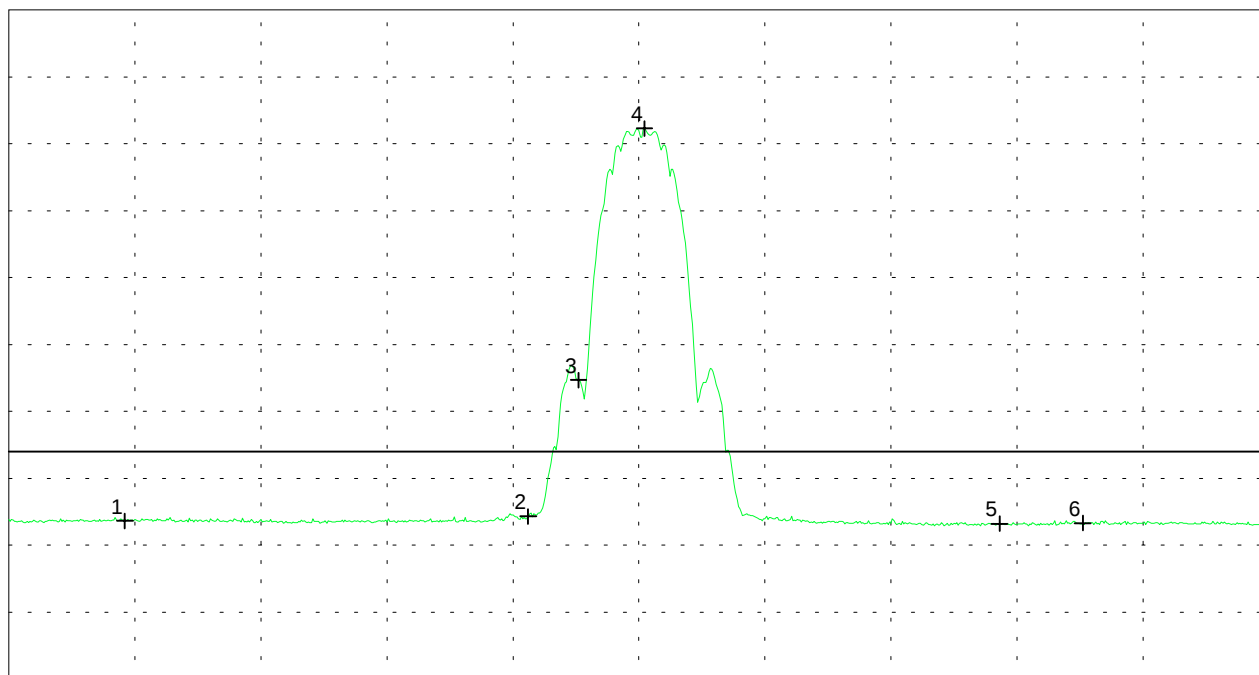
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz
SWP 260 ms

Multi Marker List

No. 1	2.310000 GHz	43.63 dB μ V/m
No. 2	2.390000 GHz	44.29 dB μ V/m
No. 3	2.400000 GHz	64.68 dB μ V/m
No. 4	2.413111 GHz	102.29 dB μ V/m
No. 5	2.483500 GHz	43.19 dB μ V/m
No. 6	2.500000 GHz	43.30 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

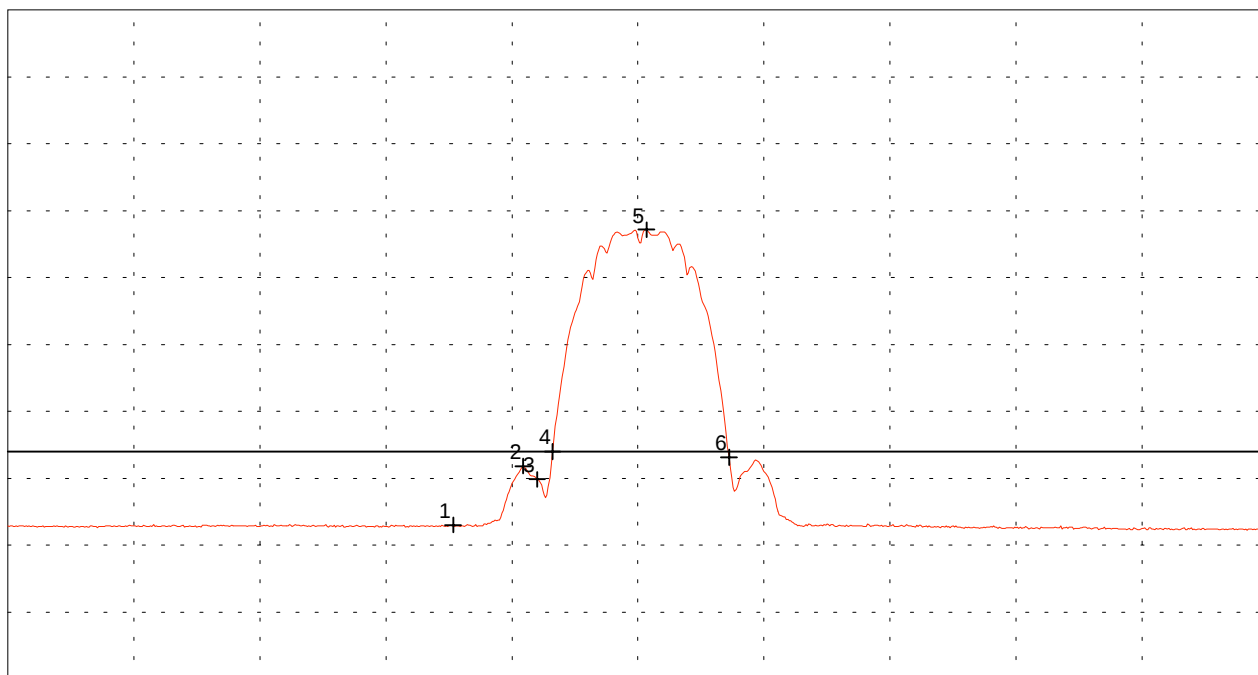
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.487 GHz
SWP 460 ms

Multi Marker List

No. 1	2.390000 GHz	43.02 dB μ V/m
No. 2	2.398333 GHz	51.83 dB μ V/m
No. 3	2.400000 GHz	49.82 dB μ V/m
No. 4	2.401833 GHz	53.99 dB μ V/m
No. 5	2.413000 GHz	87.15 dB μ V/m
No. 6	2.422833 GHz	53.12 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

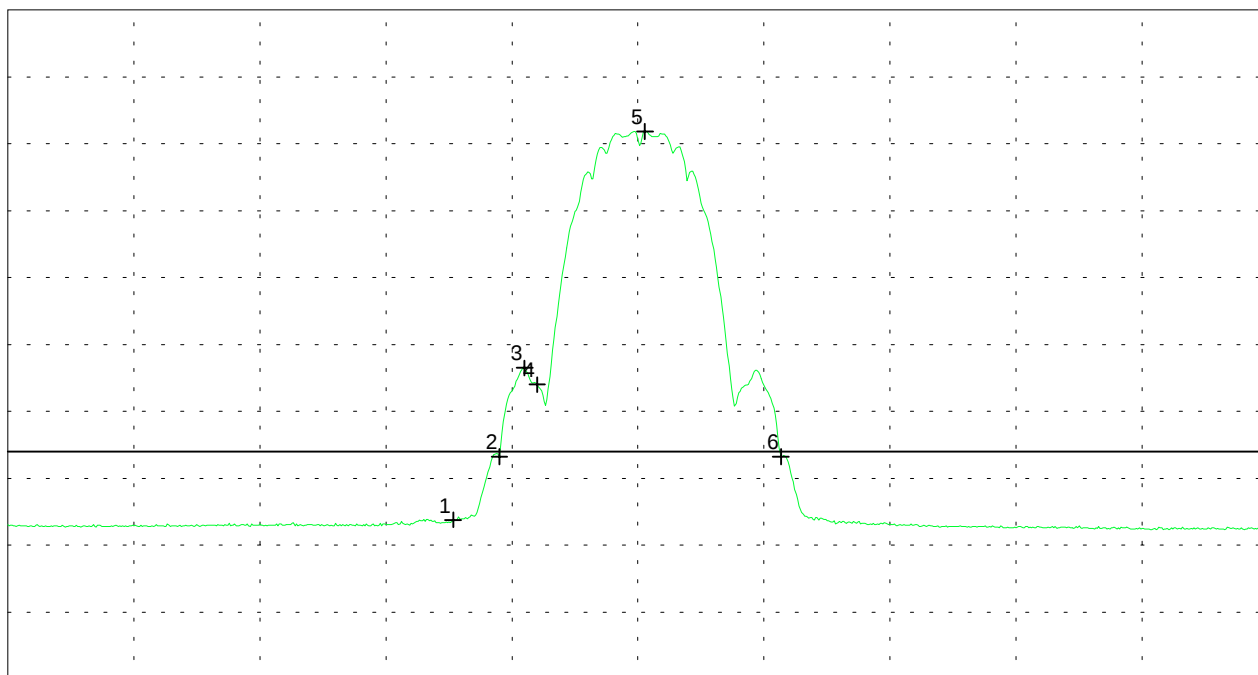
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.487 GHz
SWP 460 ms

Multi Marker List

No. 1	2.390000 GHz	43.78 dB μ V/m
No. 2	2.395500 GHz	53.22 dB μ V/m
No. 3	2.398500 GHz	66.51 dB μ V/m
No. 4	2.400000 GHz	64.02 dB μ V/m
No. 5	2.412833 GHz	101.85 dB μ V/m
No. 6	2.429000 GHz	53.22 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
1.0614	vertical	22.1	0.5	26.0	48.6	74
1.1631	horizontal	18.0	0.5	26.2	44.7	74
1.1983	vertical	23.7	0.5	26.3	50.4	74
1.3352	vertical	24.3	0.5	26.5	51.3	74
1.5942	vertical	21.0	0.5	27.2	48.7	74
2.4292	vertical	51.9	0.6	20.7	73.3	OB
2.4428	vertical	87.6	0.6	20.7	108.9	OB
2.4533	vertical	52.4	0.6	20.7	73.7	OB
2.7290	vertical	20.2	0.6	23.7	44.6	74
4.4736	horizontal	10.9	0.8	27.2	38.9	74
4.8894	horizontal	18.4	0.9	27.3	46.5	74
7.3305	horizontal	6.8	1.1	29.9	37.8	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 108.9 dB μ V/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

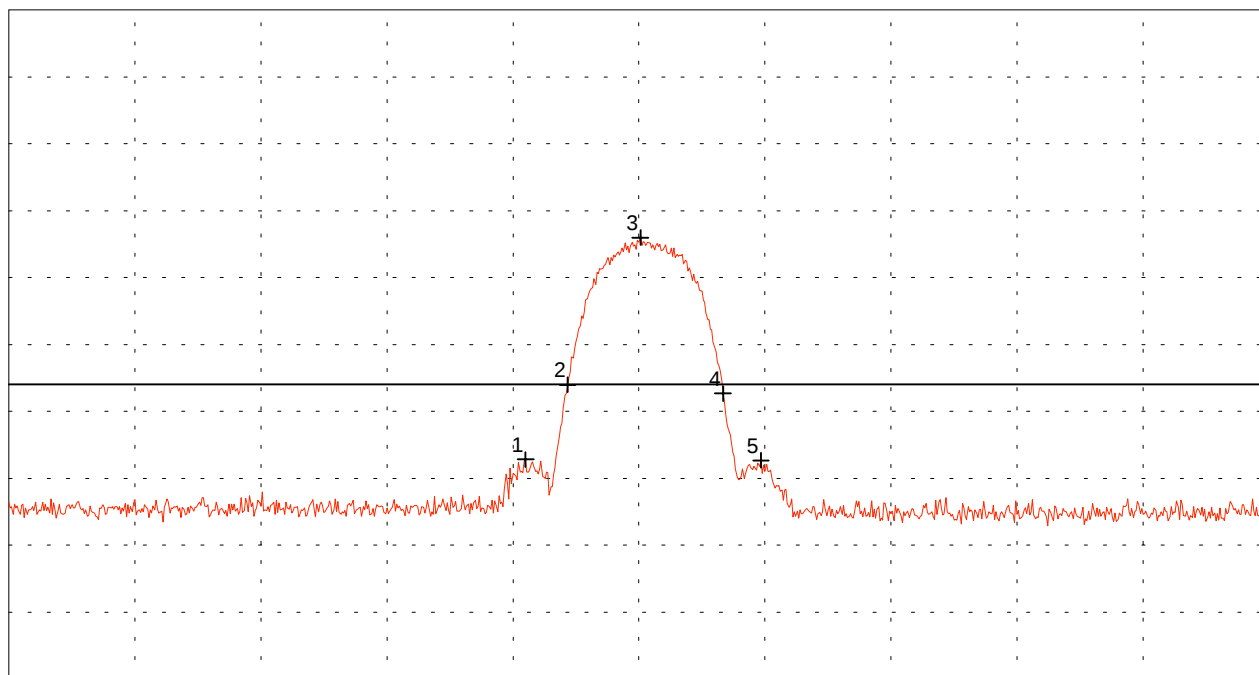
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

Multi Marker List

No. 1	2.428500 GHz	62.82 dB μ V/m
No. 2	2.433500 GHz	73.95 dB μ V/m
No. 3	2.442167 GHz	95.99 dB μ V/m
No. 4	2.452000 GHz	72.65 dB μ V/m
No. 5	2.456500 GHz	62.67 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

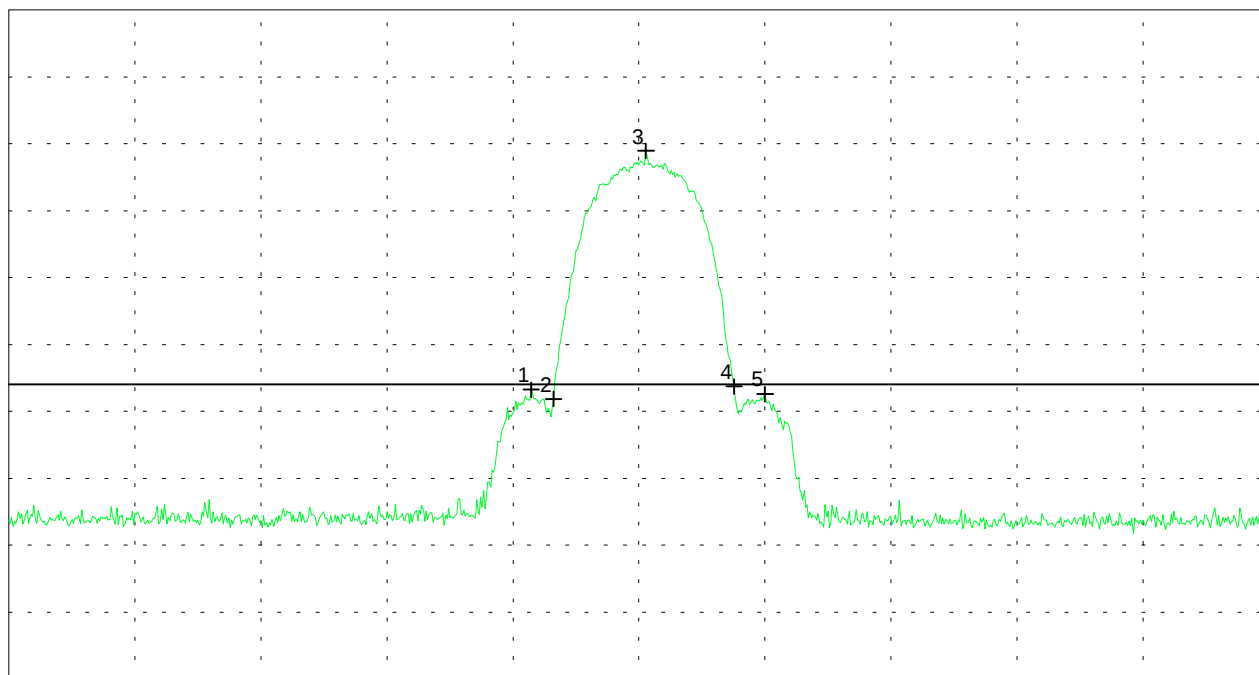
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

Multi Marker List

No. 1	2.429167 GHz	73.26 dB μ V/m
No. 2	2.431833 GHz	71.87 dB μ V/m
No. 3	2.442833 GHz	108.94 dB μ V/m
No. 4	2.453333 GHz	73.70 dB μ V/m
No. 5	2.457000 GHz	72.58 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
1.0614	vertical	< 16.0	0.5	26.0	< 42.4	54
1.1633	horizontal	< 11.4	0.5	26.2	< 38.1	54
1.2007	vertical	< 17.2	0.5	26.3	< 44.0	54
1.3344	vertical	< 17.4	0.5	26.5	< 44.4	54
1.5934	vertical	< 12.9	0.5	27.2	< 40.6	54
1.6619	vertical	< 14.6	0.5	27.5	< 42.6	54
2.4252	vertical	32.6	0.6	20.7	54.0	OB
2.4420	vertical	80.5	0.6	20.7	101.8	OB
2.4595	vertical	32.5	0.6	20.7	53.8	OB
2.7305	vertical	< 14.1	0.6	23.7	< 38.4	54
4.8841	horizontal	12.9	0.9	27.3	41.1	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 101.8 dB μ V/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

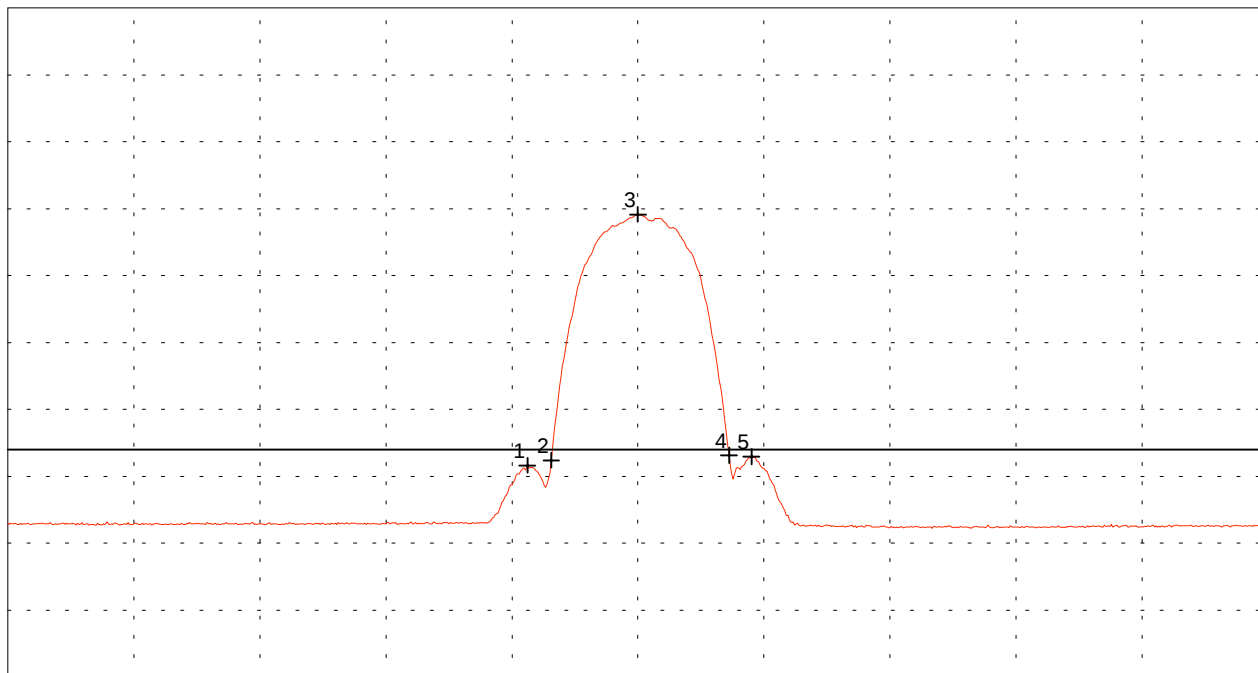
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz
SWP 460 ms

Multi Marker List

No. 1	2.428833 GHz	51.63 dB μ V/m
No. 2	2.431667 GHz	52.41 dB μ V/m
No. 3	2.442000 GHz	89.13 dB μ V/m
No. 4	2.452833 GHz	53.12 dB μ V/m
No. 5	2.455500 GHz	52.92 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

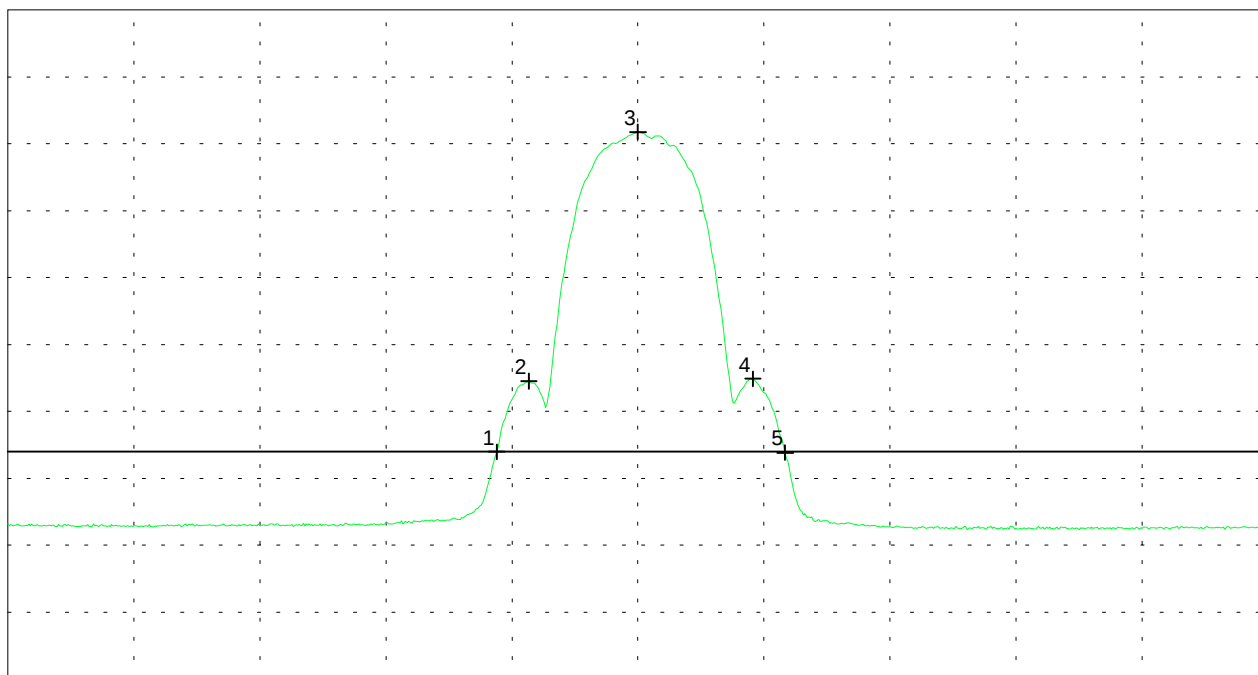
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz
SWP 460 ms

Multi Marker List

No. 1	2.425167 GHz	53.96 dB μ V/m
No. 2	2.429000 GHz	64.50 dB μ V/m
No. 3	2.442000 GHz	101.78 dB μ V/m
No. 4	2.455667 GHz	64.86 dB μ V/m
No. 5	2.459500 GHz	53.83 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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**Radiated Emission 1 GHz - 25 GHz (Additional Test Results)
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)**

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode: - FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA standing on table
in vertical position

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dB μ V]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.4320	vertical	52.1	0.6	20.7	73.4	OB
2.4445	vertical	84.1	0.6	20.7	105.5	OB
2.4532	vertical	52.3	0.6	20.7	73.6	OB
4.8841	horizontal	21.3	0.9	27.3	49.5	74

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.5 dB μ V/m.

Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

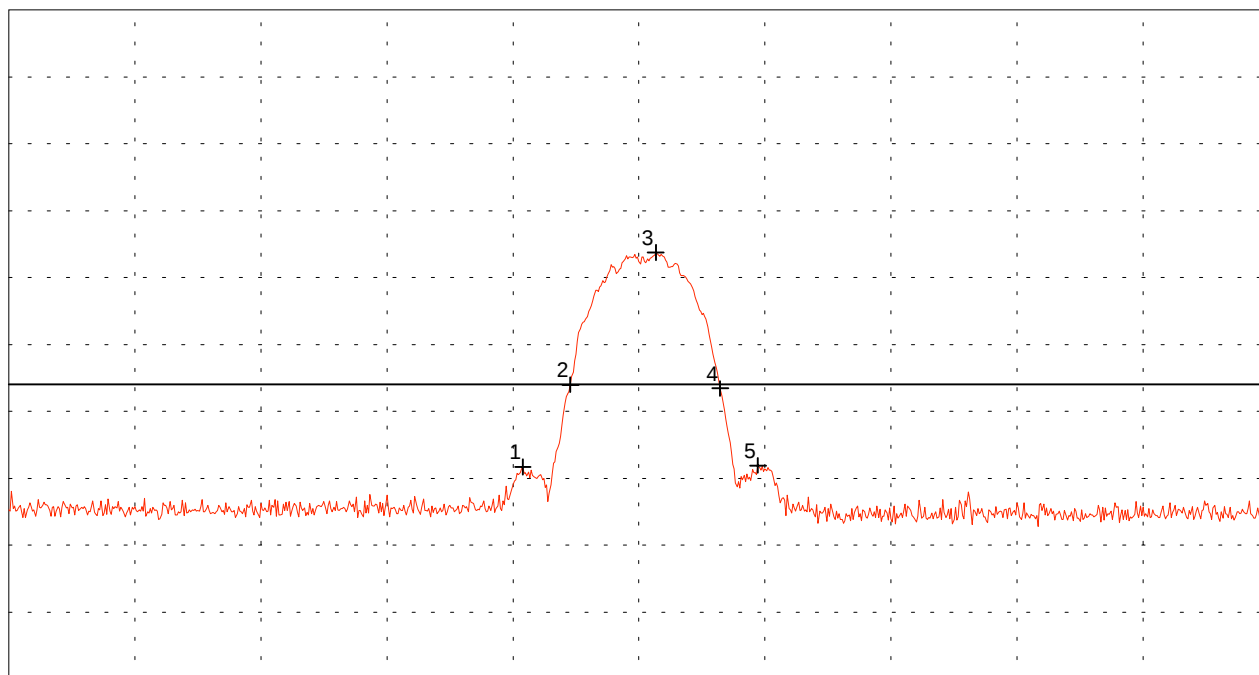
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

Multi Marker List

No. 1	2.428167 GHz	61.68 dB μ V/m
No. 2	2.433833 GHz	73.95 dB μ V/m
No. 3	2.444000 GHz	93.75 dB μ V/m
No. 4	2.451667 GHz	73.44 dB μ V/m
No. 5	2.456167 GHz	61.93 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

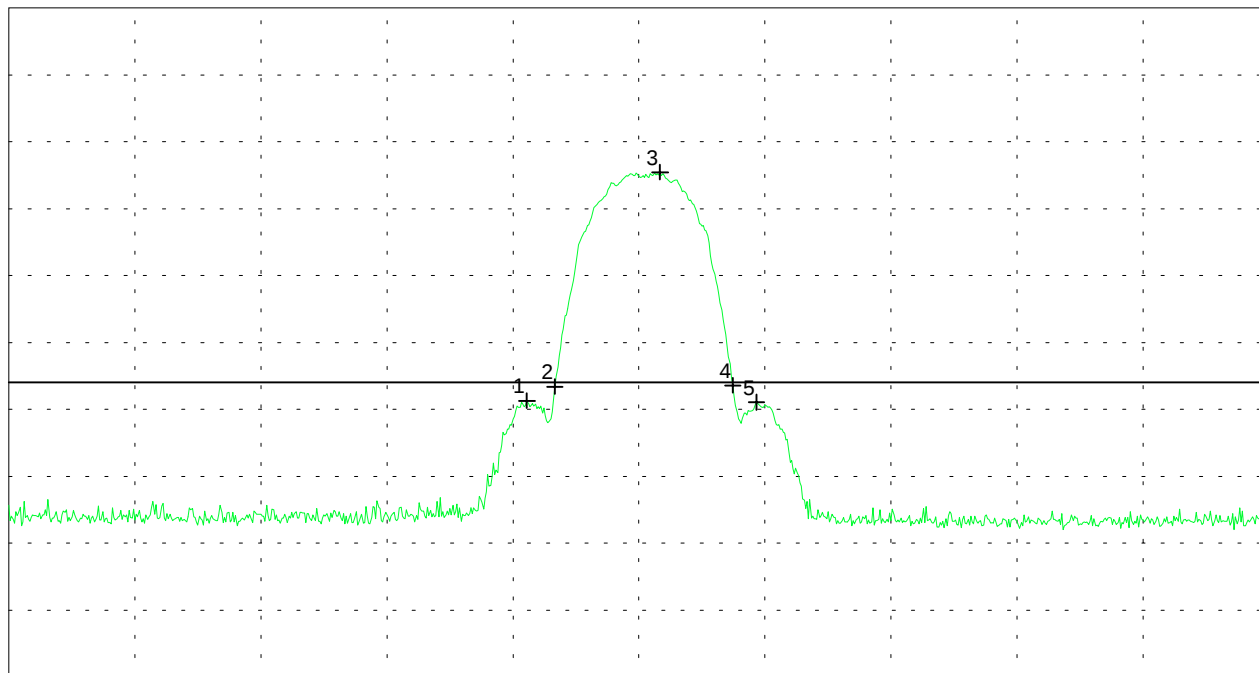
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

Multi Marker List

No. 1	2.428667 GHz	71.28 dB μ V/m
No. 2	2.432000 GHz	73.39 dB μ V/m
No. 3	2.444500 GHz	105.46 dB μ V/m
No. 4	2.453167 GHz	73.59 dB μ V/m
No. 5	2.456000 GHz	71.05 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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**Radiated Emission 1 GHz - 25 GHz (Additional Test Results)
 according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)**

Model: 0111-PC
 Type: RF-modem for wireless LAN
 Serial No.: 02UT45300010
 Applicant: Agere Systems Nederland B.V.
 Test-site: Semi anechoic room
 Test distance: 3 meters
 Date of test: 12/16/2002
 Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.4255	vertical	31.9	0.6	20.7	53.2	OB
2.4428	vertical	80.7	0.6	20.7	102.1	OB
2.4598	vertical	32.3	0.6	20.7	53.7	OB
4.8842	horizontal	16.6	0.9	27.3	44.8	54

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 102.1 dB μ V/m.

Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

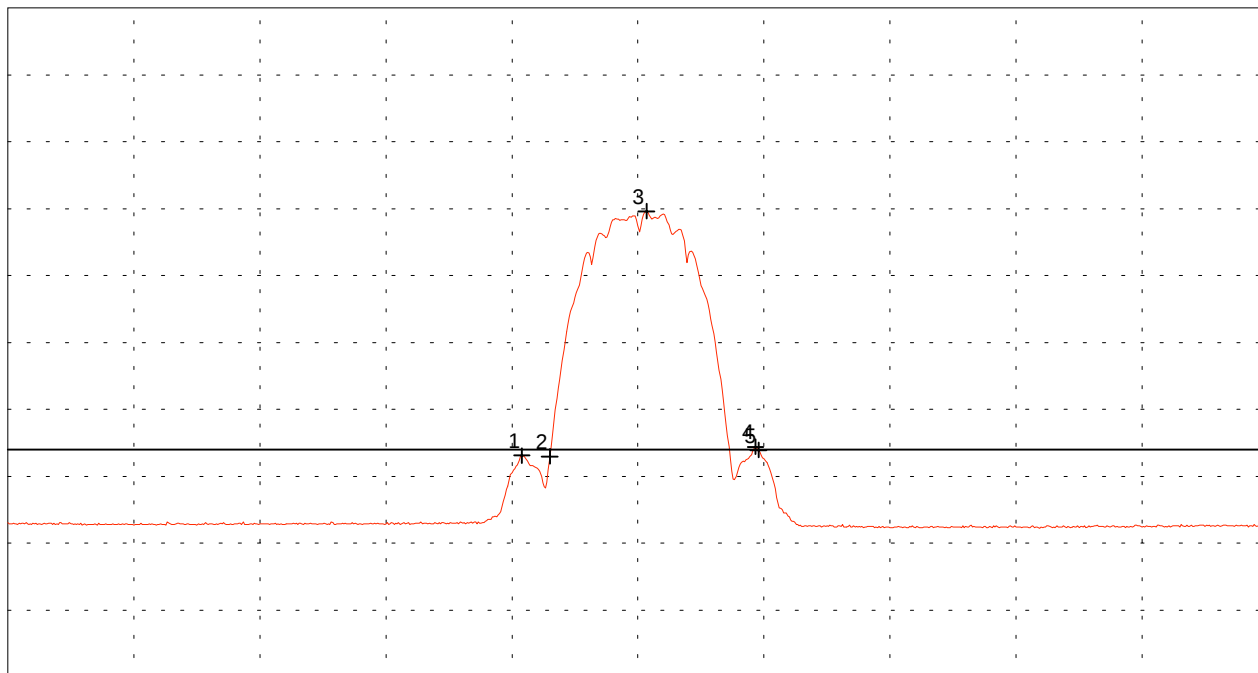
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz
SWP 460 ms

Multi Marker List

No. 1	2.428167 GHz	53.07 dB μ V/m
No. 2	2.431500 GHz	52.95 dB μ V/m
No. 3	2.443000 GHz	89.59 dB μ V/m
No. 4	2.456000 GHz	54.42 dB μ V/m
No. 5	2.456333 GHz	53.94 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

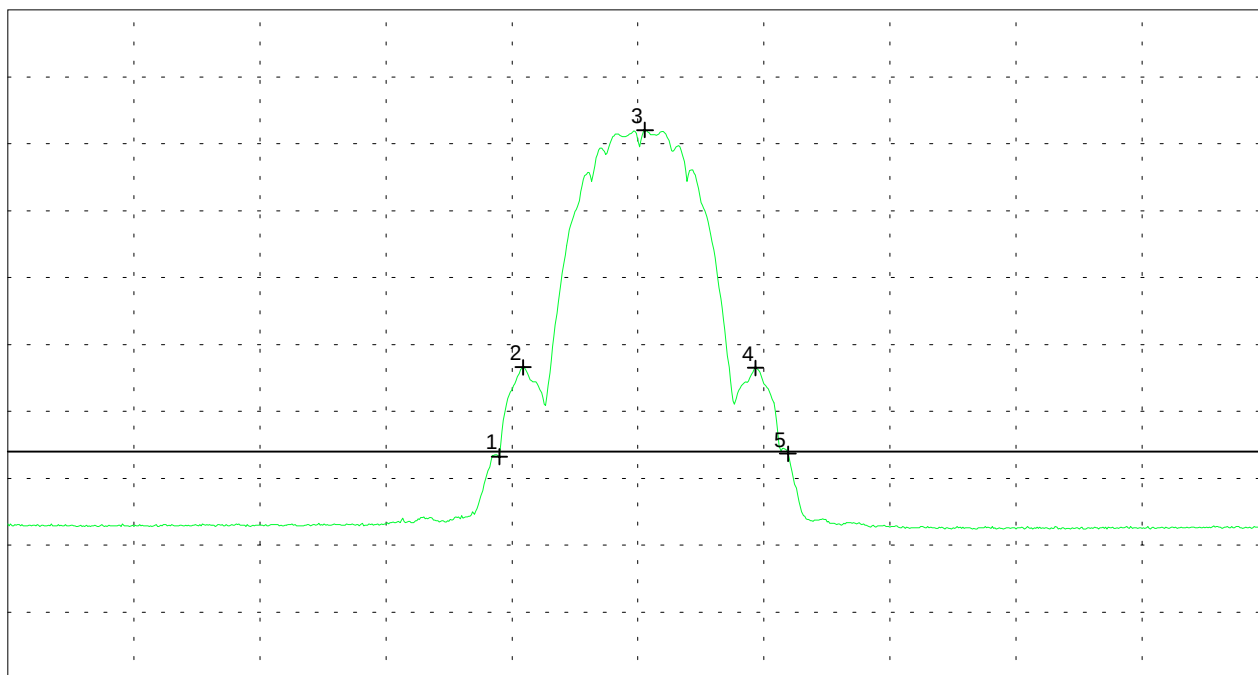
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz
SWP 460 ms

Multi Marker List

No. 1	2.425500 GHz	53.22 dB μ V/m
No. 2	2.428333 GHz	66.58 dB μ V/m
No. 3	2.442833 GHz	102.06 dB μ V/m
No. 4	2.456000 GHz	66.48 dB μ V/m
No. 5	2.459833 GHz	53.66 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
1.0638	vertical	23.1	0.5	26.0	49.5	74
1.1952	vertical	23.7	0.5	26.3	50.4	74
1.3352	vertical	24.0	0.5	26.5	50.9	74
1.5973	vertical	20.2	0.5	27.2	48.0	74
2.4518	vertical	50.3	0.6	20.7	71.6	OB
2.4628	vertical	87.1	0.6	20.7	108.5	OB
2.4733	vertical	51.7	0.6	20.7	73.0	OB
2.4835	vertical	33.1	0.6	20.7	54.4	74
2.4885	vertical	34.5	0.6	20.7	55.8	74
2.5000	vertical	31.8	0.6	20.7	53.1	74
2.7530	vertical	20.7	0.6	23.7	45.0	74
3.9901	horizontal	9.9	0.8	27.2	37.9	74
4.9296	horizontal	18.3	0.9	27.3	46.5	74
7.3906	horizontal	8.4	1.1	30.0	39.4	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 108.5 dB μ V/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

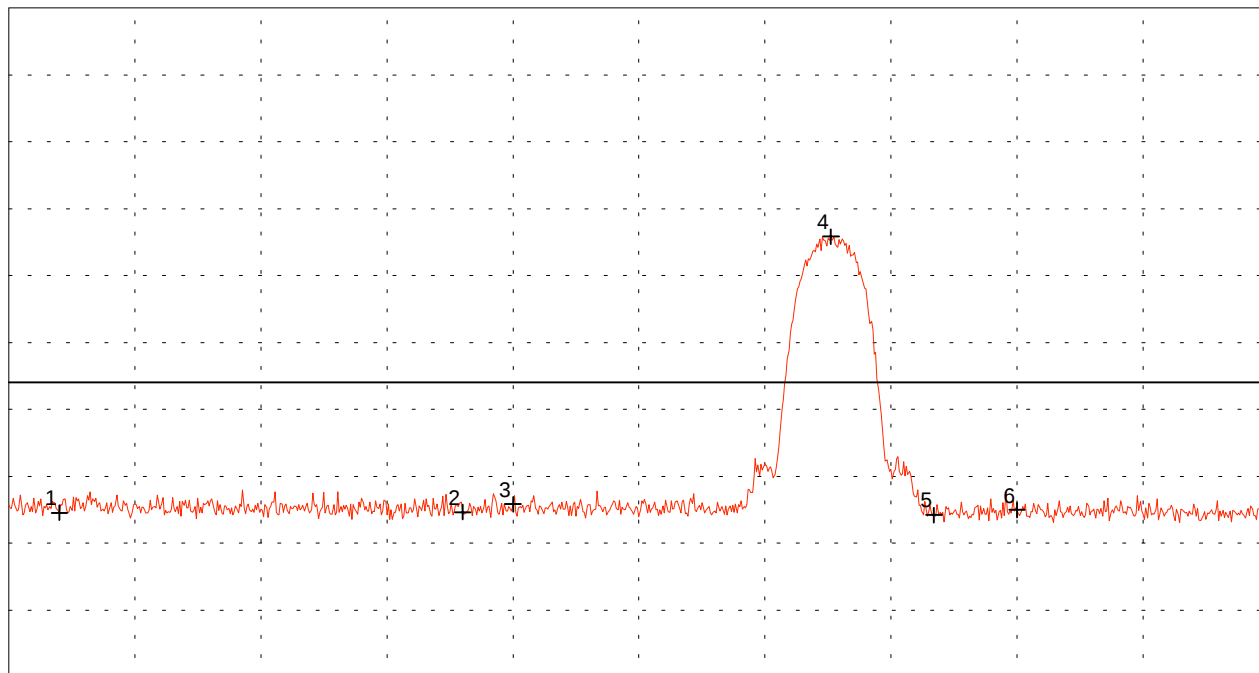
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.550 GHz
SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	54.55 dB μ V/m
No. 2	2.390000 GHz	54.62 dB μ V/m
No. 3	2.400000 GHz	55.82 dB μ V/m
No. 4	2.463056 GHz	95.84 dB μ V/m
No. 5	2.483500 GHz	54.22 dB μ V/m
No. 6	2.500000 GHz	54.95 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

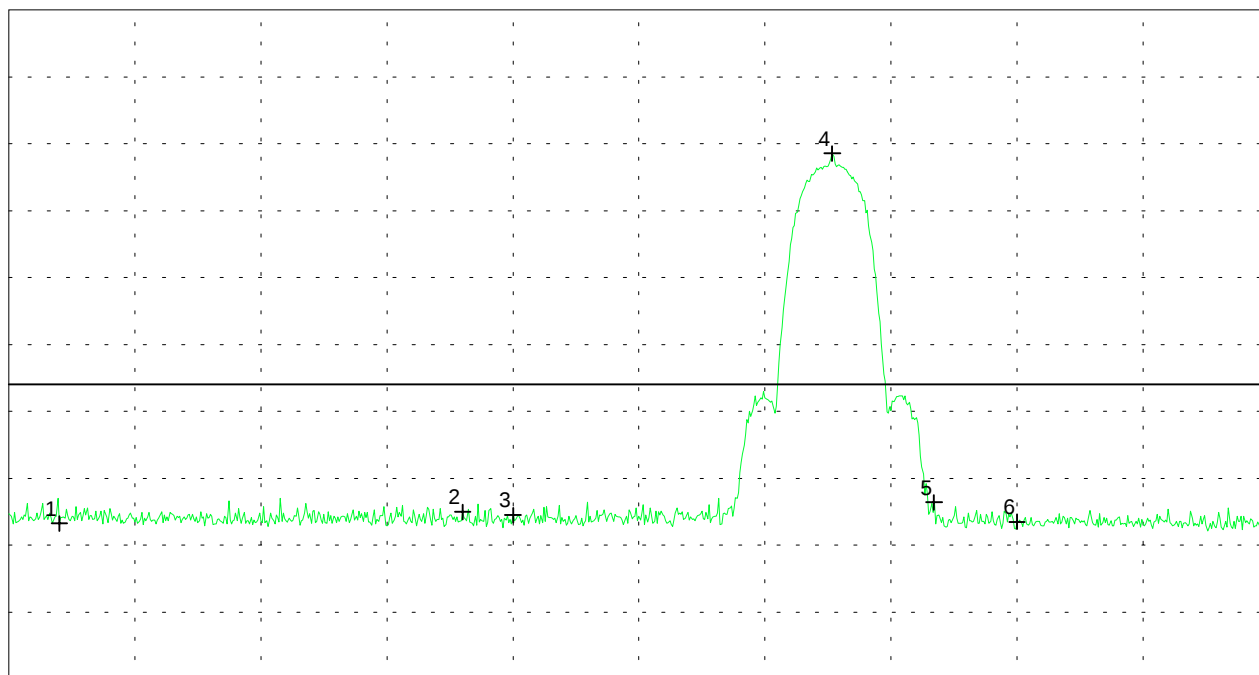
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.550 GHz
SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	53.23 dB μ V/m
No. 2	2.390000 GHz	54.98 dB μ V/m
No. 3	2.400000 GHz	54.50 dB μ V/m
No. 4	2.463333 GHz	108.54 dB μ V/m
No. 5	2.483500 GHz	56.38 dB μ V/m
No. 6	2.500000 GHz	53.48 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

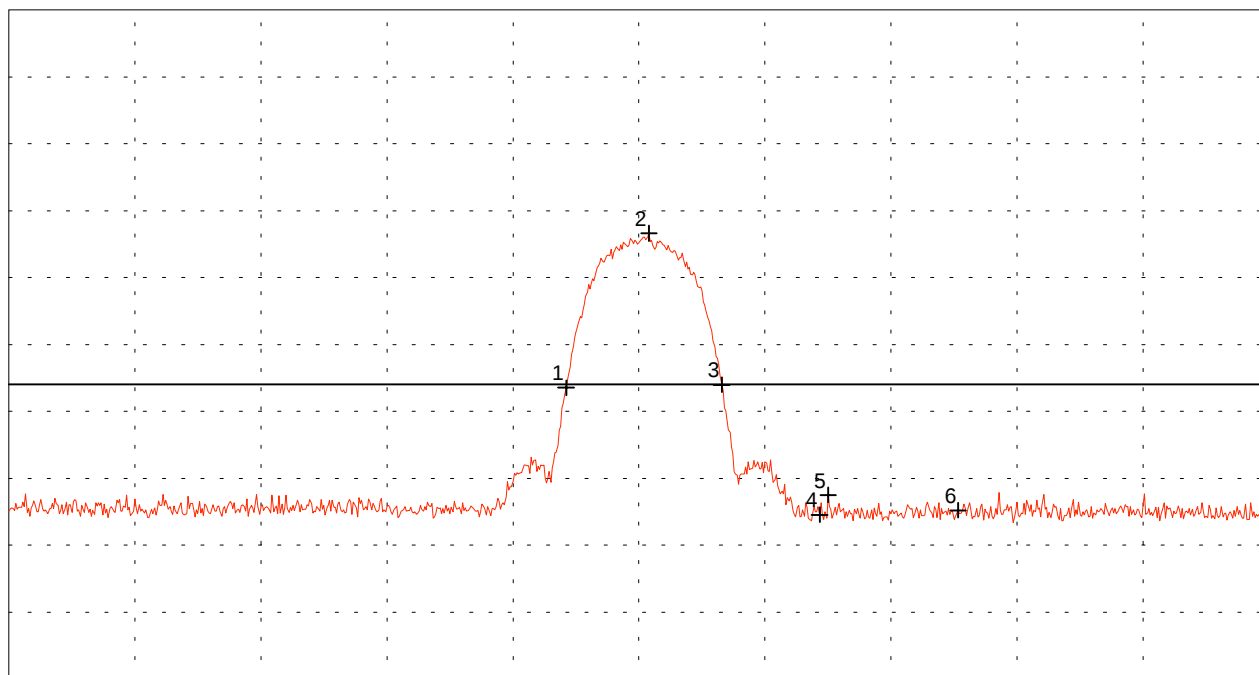
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

Multi Marker List

No. 1	2.453333 GHz	73.54 dB μ V/m
No. 2	2.463167 GHz	96.62 dB μ V/m
No. 3	2.471833 GHz	73.95 dB μ V/m
No. 4	2.483500 GHz	54.55 dB μ V/m
No. 5	2.484500 GHz	57.49 dB μ V/m
No. 6	2.500000 GHz	55.23 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

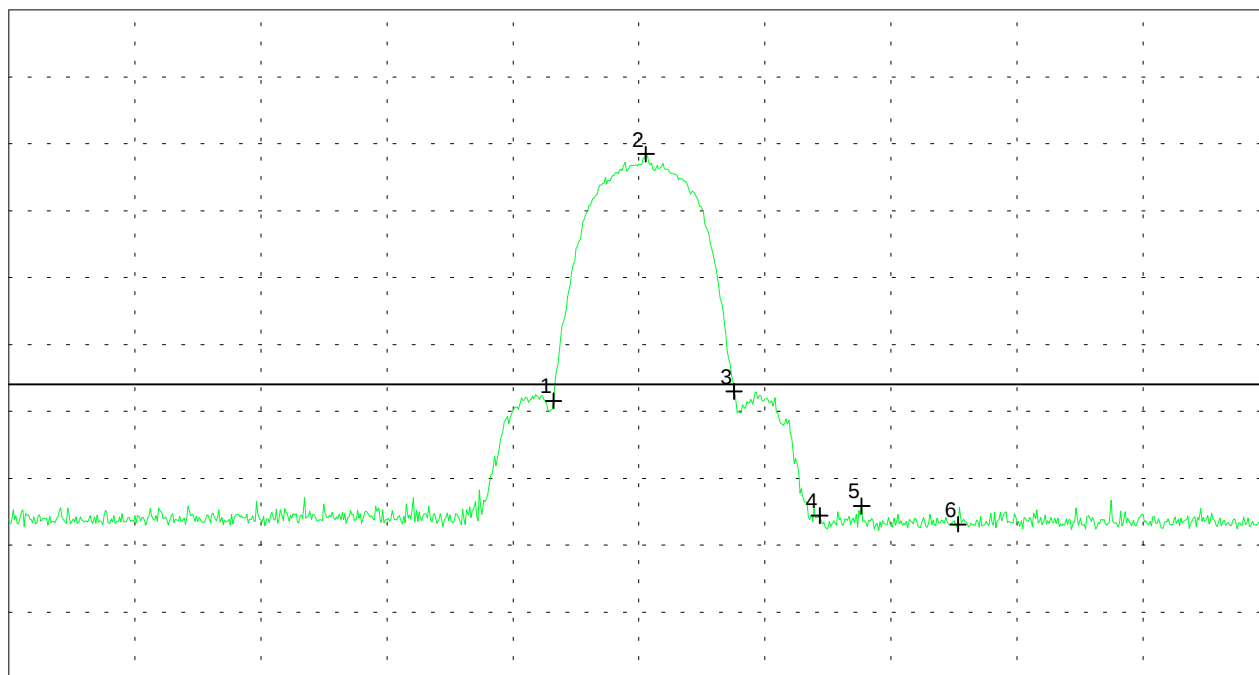
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

Multi Marker List

No. 1	2.451833 GHz	71.59 dB μ V/m
No. 2	2.462833 GHz	108.46 dB μ V/m
No. 3	2.473333 GHz	72.98 dB μ V/m
No. 4	2.483500 GHz	54.42 dB μ V/m
No. 5	2.488500 GHz	55.84 dB μ V/m
No. 6	2.500000 GHz	53.10 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
1.0614	vertical	< 15.8	0.5	26.0	< 42.3	54
1.1944	vertical	< 17.4	0.5	26.2	< 44.1	54
1.3337	vertical	< 17.5	0.5	26.5	< 44.5	54
1.5934	vertical	< 12.9	0.5	27.2	< 40.6	54
1.6619	vertical	< 14.1	0.5	27.5	< 42.2	54
2.4452	vertical	32.4	0.6	20.7	53.7	OB
2.4620	vertical	80.6	0.6	20.7	101.9	OB
2.4797	vertical	32.5	0.6	20.7	53.8	OB
2.4835	vertical	22.2	0.6	20.7	43.5	54
2.4860	vertical	22.3	0.6	20.7	43.6	54
2.5000	vertical	21.2	0.6	20.7	42.6	54
2.7515	vertical	< 14.4	0.6	23.7	< 38.7	54
4.9241	horizontal	14.2	0.9	27.3	42.4	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 101.9 dB μ V/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

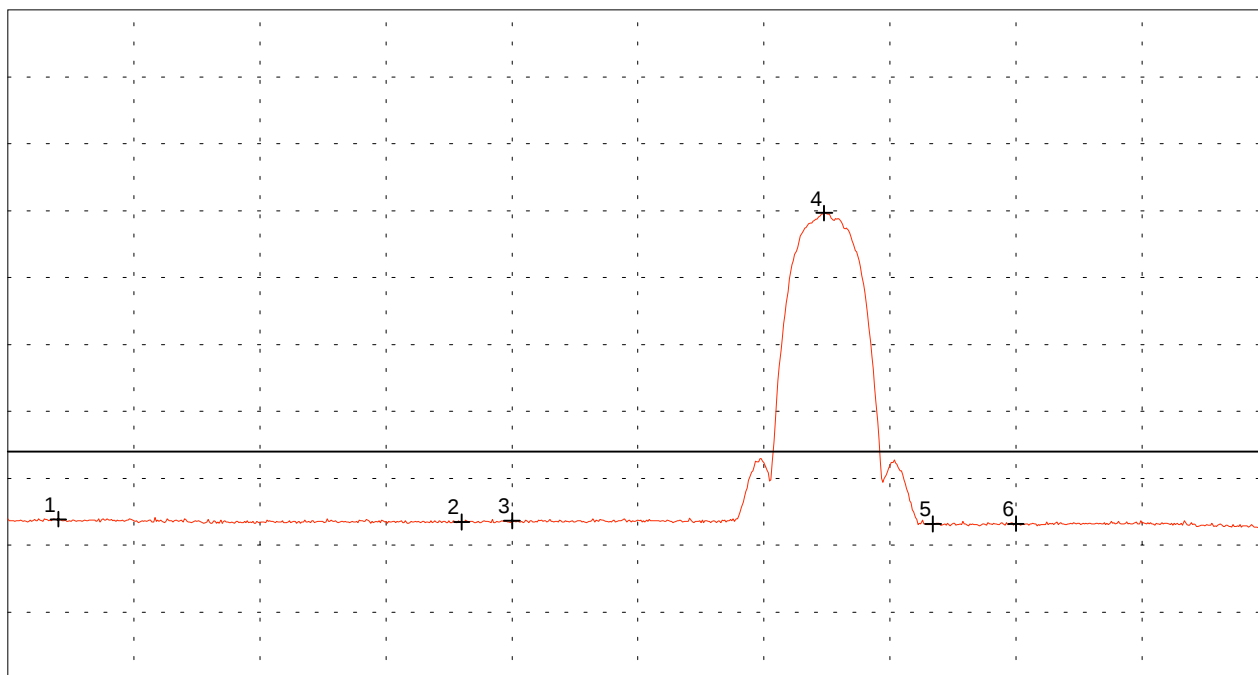
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz
SWP 260 ms

Multi Marker List

No. 1	2.310000 GHz	43.88 dB μ V/m
No. 2	2.390000 GHz	43.47 dB μ V/m
No. 3	2.400000 GHz	43.65 dB μ V/m
No. 4	2.461944 GHz	89.66 dB μ V/m
No. 5	2.483500 GHz	43.17 dB μ V/m
No. 6	2.500000 GHz	43.19 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

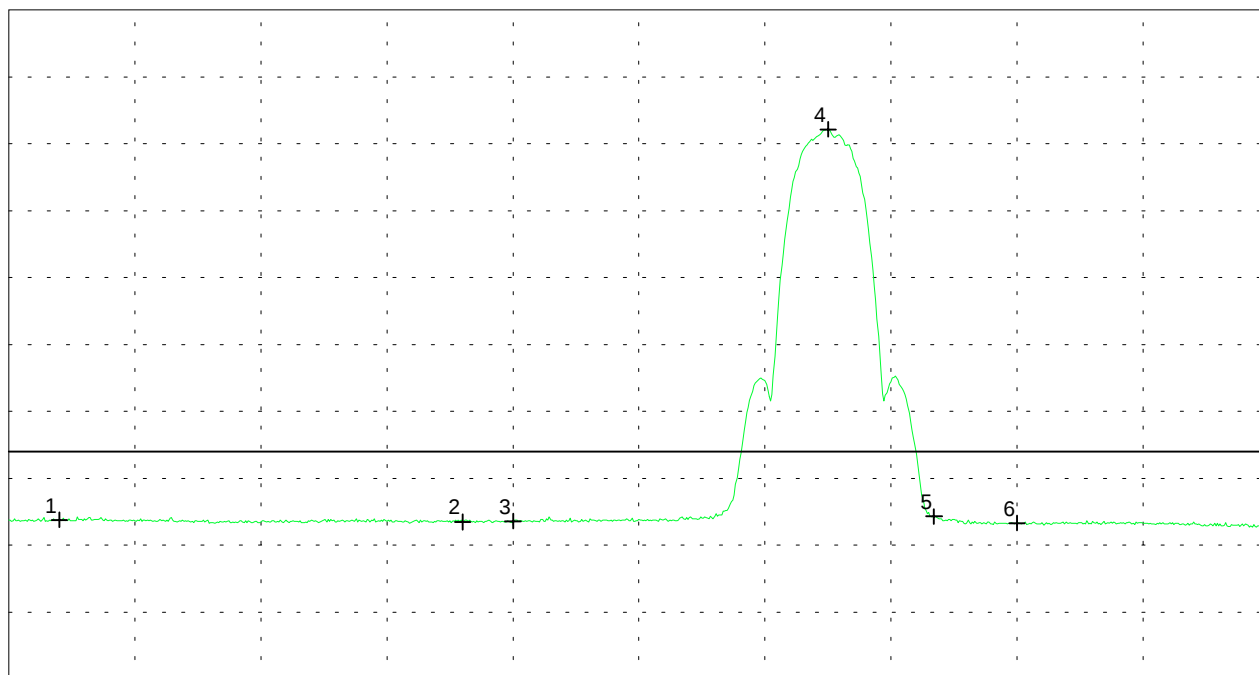
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz
SWP 260 ms

Multi Marker List

No. 1	2.310000 GHz	43.78 dB μ V/m
No. 2	2.390000 GHz	43.45 dB μ V/m
No. 3	2.400000 GHz	43.58 dB μ V/m
No. 4	2.462500 GHz	102.13 dB μ V/m
No. 5	2.483500 GHz	44.29 dB μ V/m
No. 6	2.500000 GHz	43.30 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

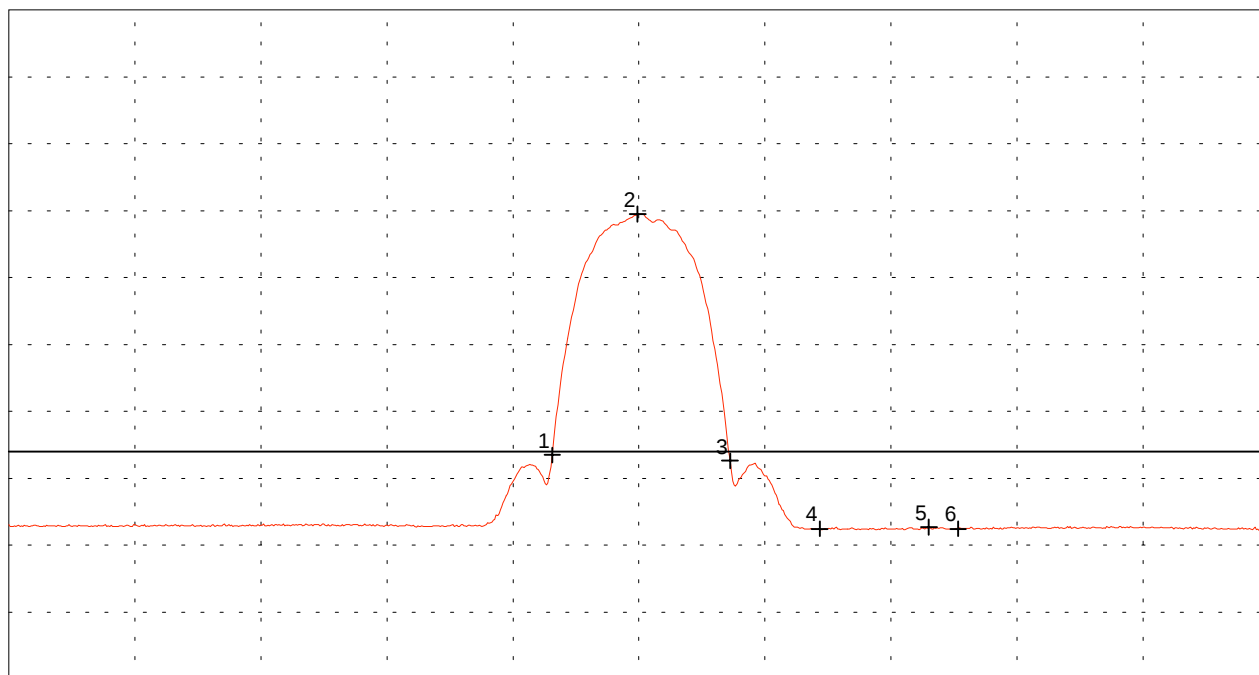
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.537 GHz
SWP 460 ms

Multi Marker List

No. 1	2.451667 GHz	53.48 dB μ V/m
No. 2	2.461833 GHz	89.49 dB μ V/m
No. 3	2.472833 GHz	52.62 dB μ V/m
No. 4	2.483500 GHz	42.43 dB μ V/m
No. 5	2.496500 GHz	42.69 dB μ V/m
No. 6	2.500000 GHz	42.46 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

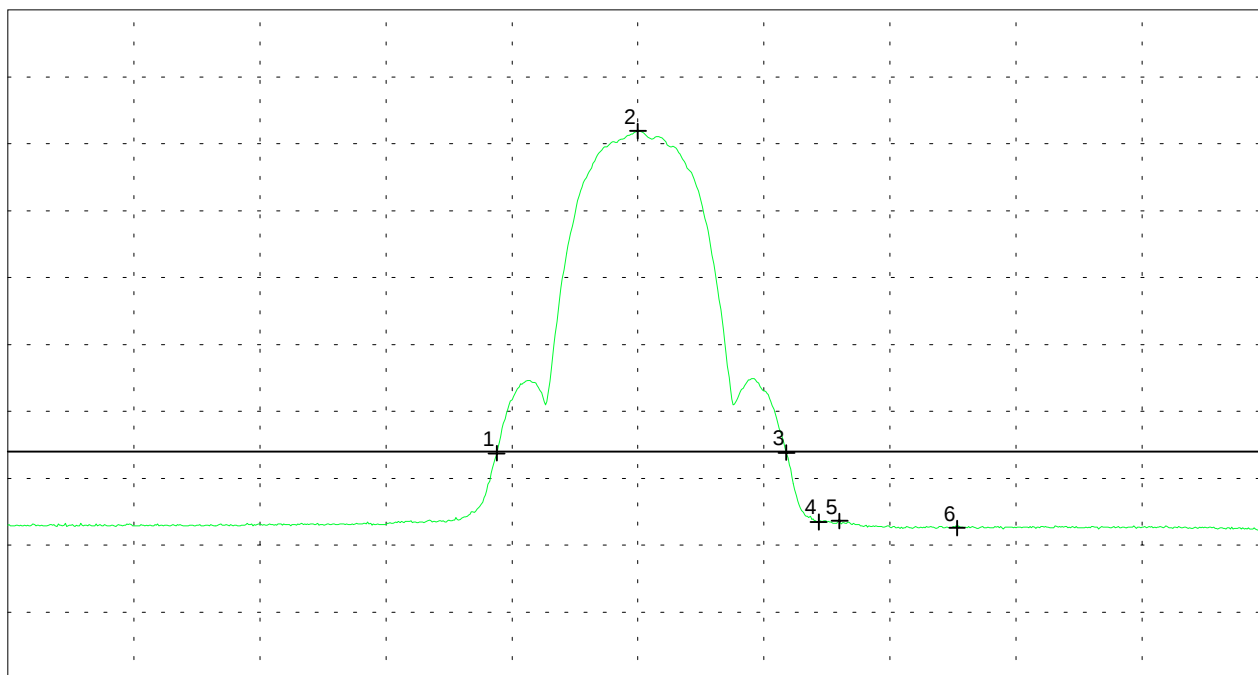
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.537 GHz
SWP 460 ms

Multi Marker List

No. 1	2.445167 GHz	53.71 dB μ V/m
No. 2	2.462000 GHz	101.88 dB μ V/m
No. 3	2.479667 GHz	53.83 dB μ V/m
No. 4	2.483500 GHz	43.47 dB μ V/m
No. 5	2.486000 GHz	43.60 dB μ V/m
No. 6	2.500000 GHz	42.56 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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**Radiated Emission 1 GHz - 25 GHz (Additional Test Results)
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)**

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.4520	vertical	51.8	0.6	20.7	73.1	OB
2.4617	vertical	84.0	0.6	20.7	105.4	OB
2.4732	vertical	52.0	0.6	20.7	73.3	OB
2.4835	vertical	31.9	0.6	20.7	53.2	74
2.4837	vertical	34.1	0.6	20.7	55.5	74
2.5000	vertical	32.1	0.6	20.7	53.4	74
4.9241	horizontal	21.1	0.9	27.3	49.3	74

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.4 dB μ V/m.

Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

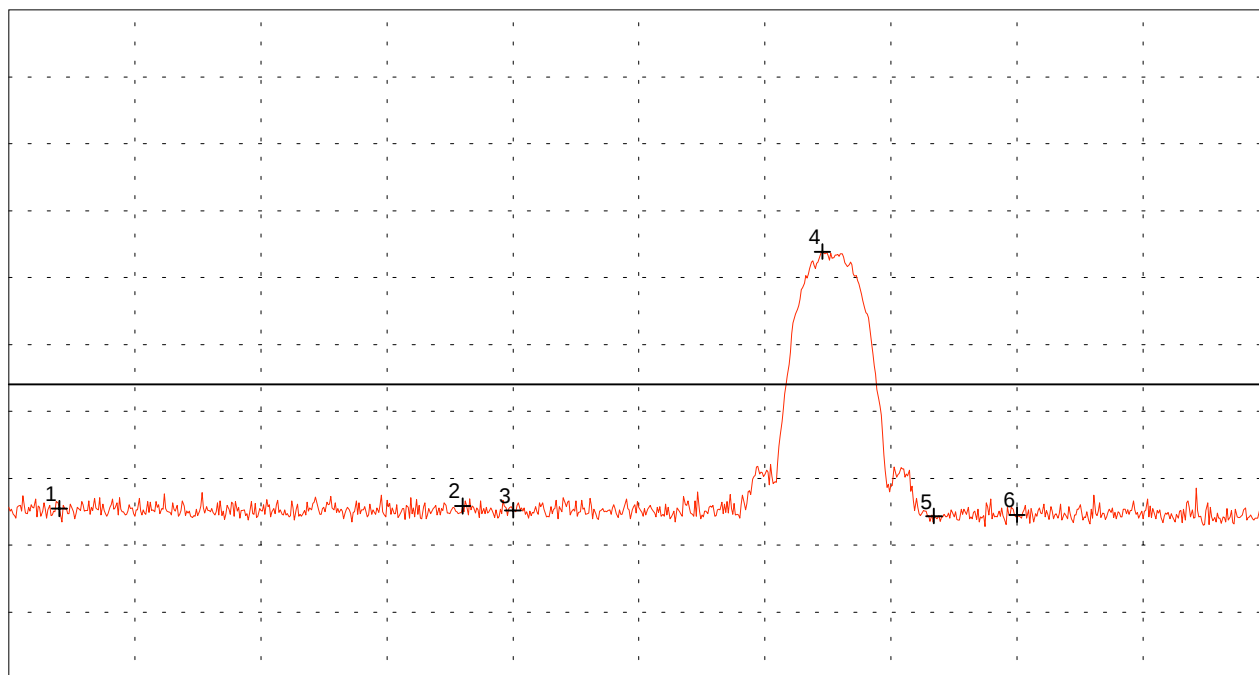
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.550 GHz
SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	55.46 dB μ V/m
No. 2	2.390000 GHz	55.84 dB μ V/m
No. 3	2.400000 GHz	55.21 dB μ V/m
No. 4	2.461389 GHz	93.88 dB μ V/m
No. 5	2.483500 GHz	54.37 dB μ V/m
No. 6	2.500000 GHz	54.55 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

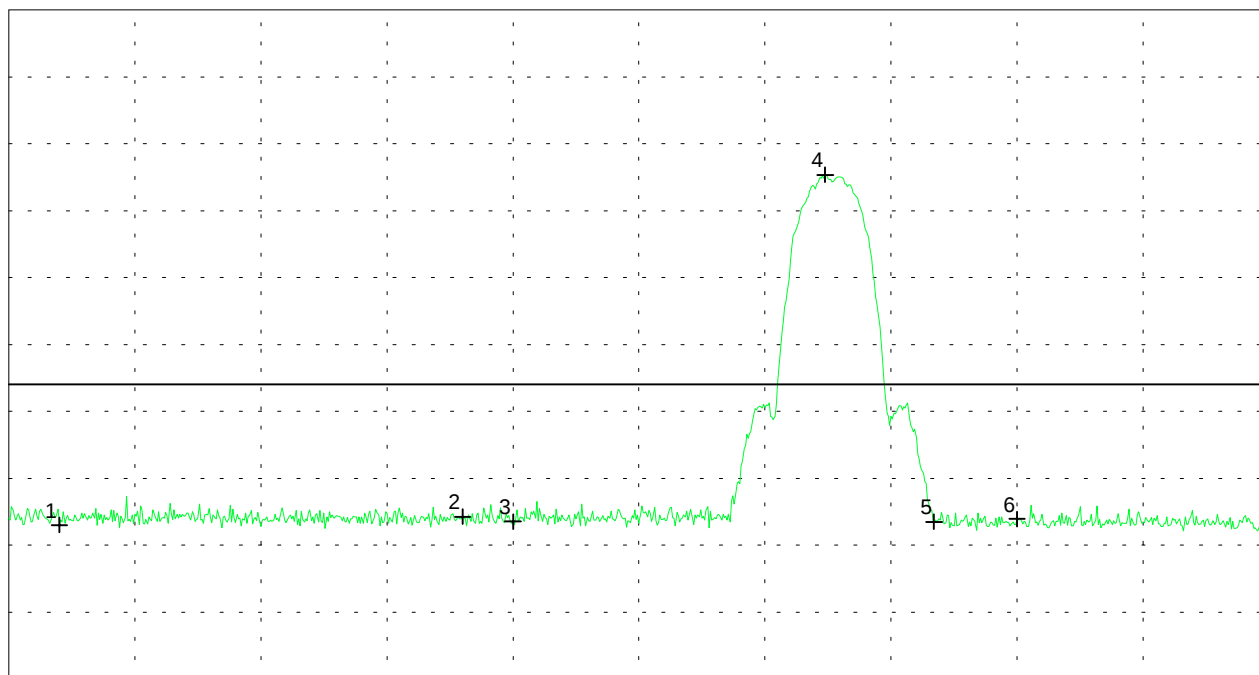
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.550 GHz
SWP 20 ms

Multi Marker List

No. 1	2.310000 GHz	53.00 dB μ V/m
No. 2	2.390000 GHz	54.27 dB μ V/m
No. 3	2.400000 GHz	53.53 dB μ V/m
No. 4	2.461944 GHz	105.36 dB μ V/m
No. 5	2.483500 GHz	53.48 dB μ V/m
No. 6	2.500000 GHz	53.91 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

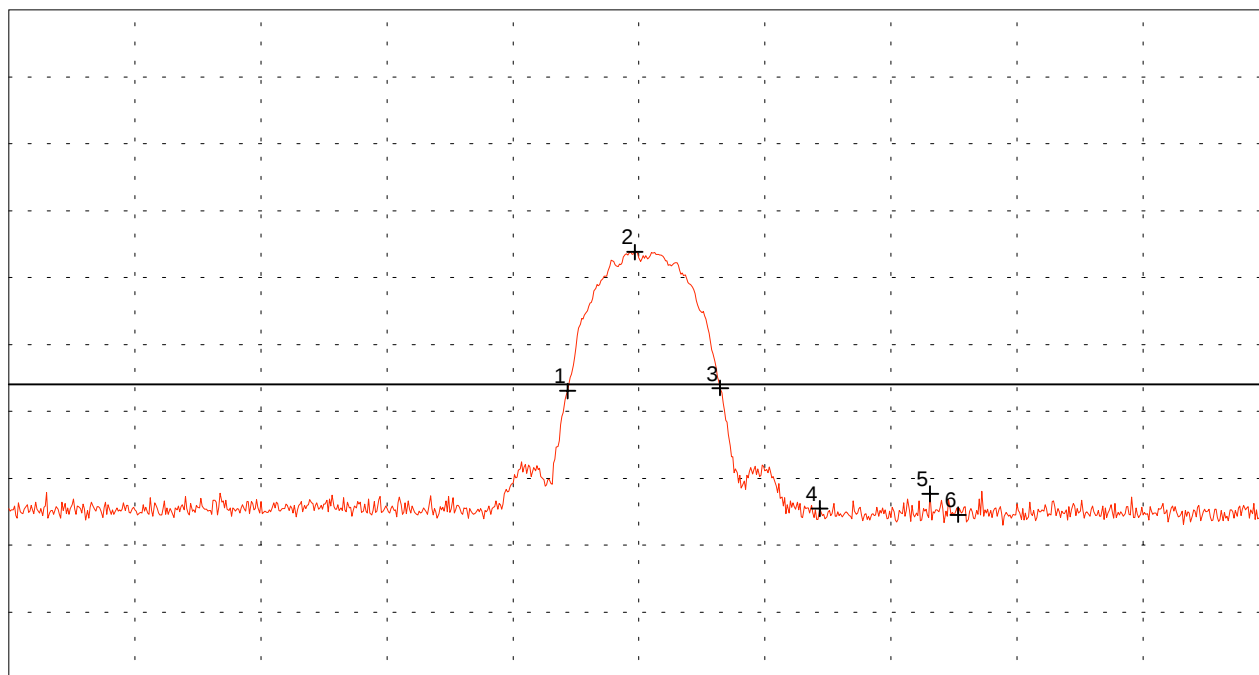
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

Multi Marker List

No. 1	2.453500 GHz	73.06 dB μ V/m
No. 2	2.461500 GHz	93.83 dB μ V/m
No. 3	2.471667 GHz	73.49 dB μ V/m
No. 4	2.483500 GHz	55.48 dB μ V/m
No. 5	2.496667 GHz	57.67 dB μ V/m
No. 6	2.500000 GHz	54.55 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

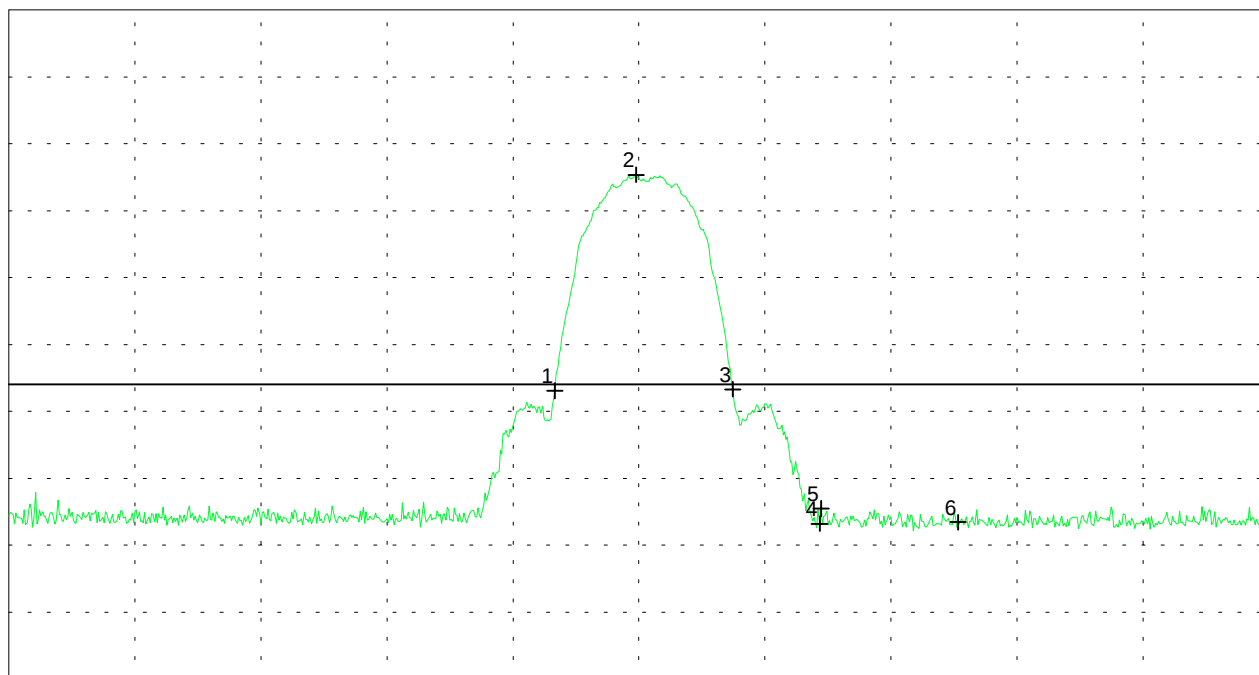
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

Multi Marker List

No. 1	2.452000 GHz	73.09 dB μ V/m
No. 2	2.461667 GHz	105.36 dB μ V/m
No. 3	2.473167 GHz	73.31 dB μ V/m
No. 4	2.483500 GHz	53.18 dB μ V/m
No. 5	2.483667 GHz	55.46 dB μ V/m
No. 6	2.500000 GHz	53.43 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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**Radiated Emission 1 GHz - 25 GHz (Additional Test Results)
according to FCC Part 15 Subpart C (§15.247.c, §15.209, §15.205.a,b)**

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.4455	vertical	31.9	0.6	20.7	53.2	OB
2.4628	vertical	80.8	0.6	20.7	102.1	OB
2.4800	vertical	32.6	0.6	20.7	53.9	OB
2.4835	vertical	22.4	0.6	20.7	43.7	54
2.4878	vertical	22.5	0.6	20.7	43.8	54
2.5000	vertical	21.3	0.6	20.7	42.7	54
4.9241	horizontal	18.1	0.9	27.3	46.3	54

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 102.1 dB μ V/m.

Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

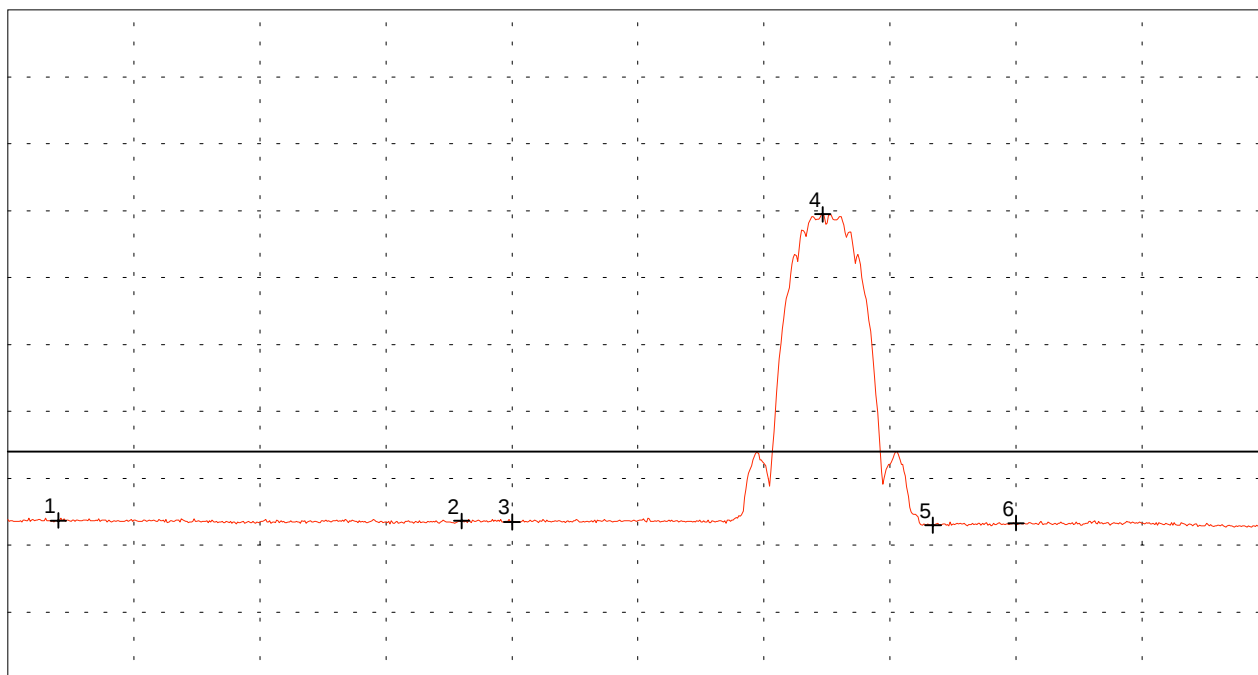
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz
SWP 260 ms

Multi Marker List

No. 1	2.310000 GHz	43.68 dB μ V/m
No. 2	2.390000 GHz	43.60 dB μ V/m
No. 3	2.400000 GHz	43.47 dB μ V/m
No. 4	2.461667 GHz	89.46 dB μ V/m
No. 5	2.483500 GHz	42.97 dB μ V/m
No. 6	2.500000 GHz	43.32 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Overview scan checking restricted bands
around operation band (acc. to §15.205)

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

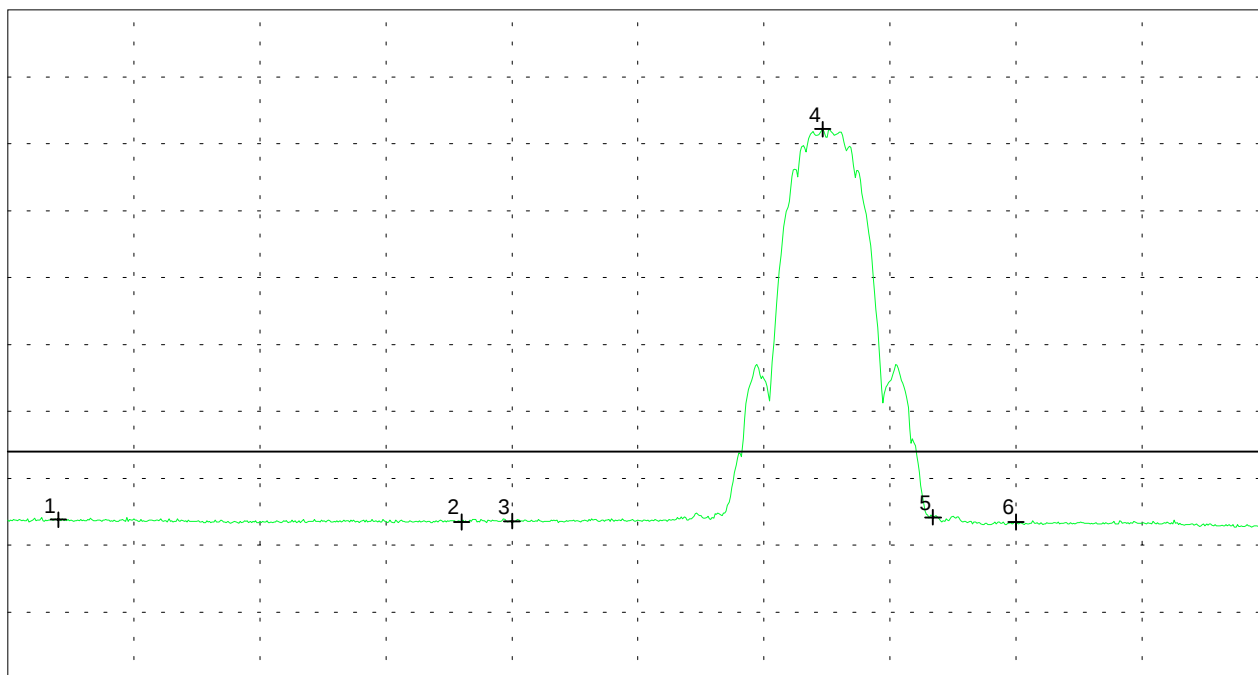
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz
SWP 260 ms

Multi Marker List

No. 1	2.310000 GHz	43.80 dB μ V/m
No. 2	2.390000 GHz	43.47 dB μ V/m
No. 3	2.400000 GHz	43.58 dB μ V/m
No. 4	2.461667 GHz	102.18 dB μ V/m
No. 5	2.483500 GHz	44.16 dB μ V/m
No. 6	2.500000 GHz	43.45 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

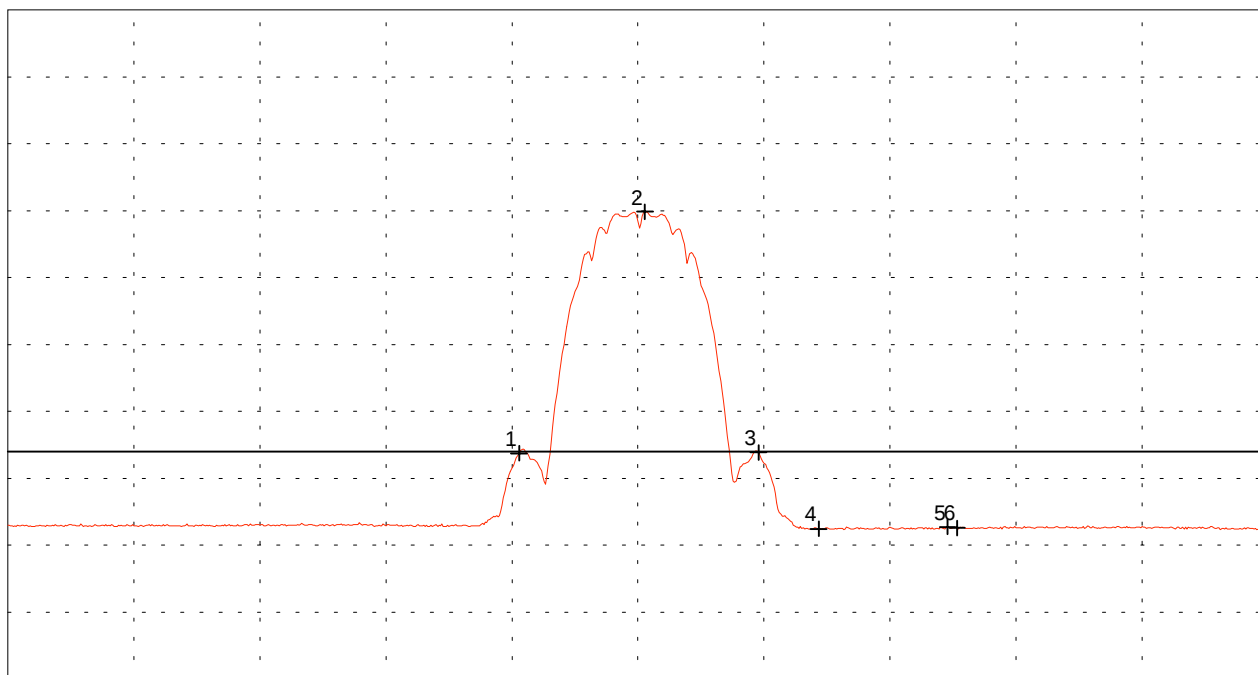
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.537 GHz
SWP 460 ms

Multi Marker List

No. 1	2.447833 GHz	53.73 dB μ V/m
No. 2	2.462833 GHz	89.84 dB μ V/m
No. 3	2.476333 GHz	53.86 dB μ V/m
No. 4	2.483500 GHz	42.46 dB μ V/m
No. 5	2.498833 GHz	42.71 dB μ V/m
No. 6	2.500000 GHz	42.58 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model:
0111-PC

Serial No.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

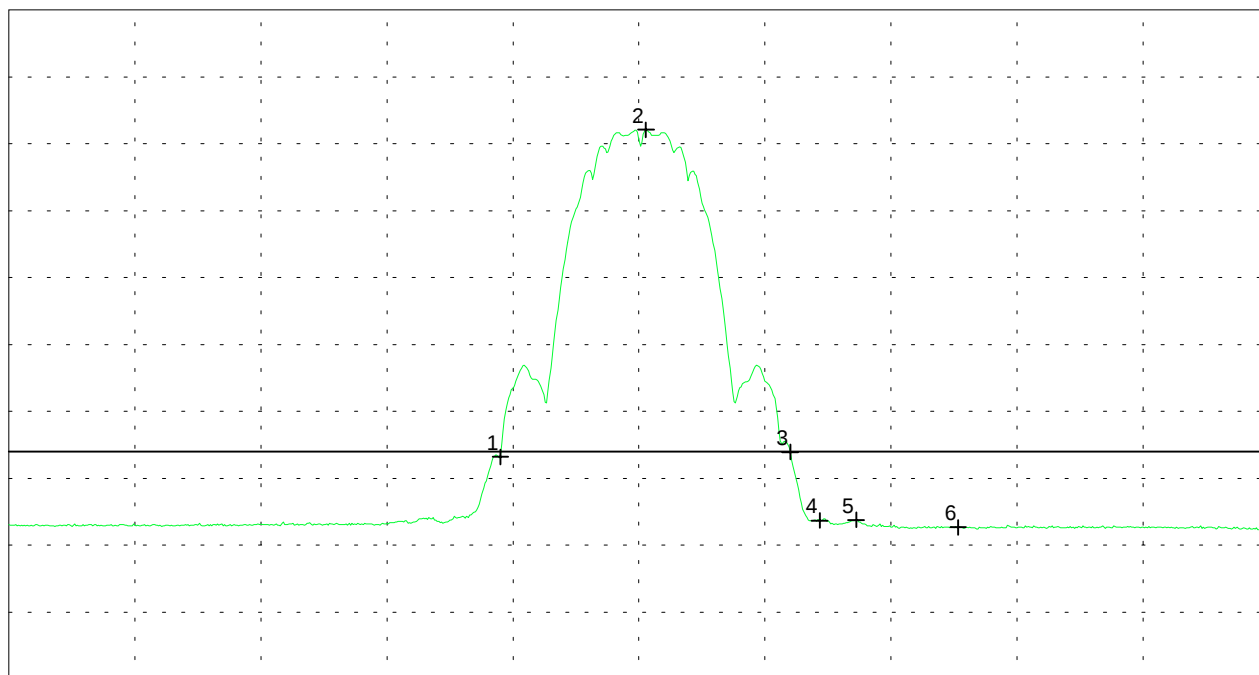
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.537 GHz
SWP 460 ms

Multi Marker List

No. 1	2.445500 GHz	53.20 dB μ V/m
No. 2	2.462833 GHz	102.08 dB μ V/m
No. 3	2.480000 GHz	53.94 dB μ V/m
No. 4	2.483500 GHz	43.68 dB μ V/m
No. 5	2.487833 GHz	43.78 dB μ V/m
No. 6	2.500000 GHz	42.66 dB μ V/m

Tested by:
Rainer Heller

Date:
12/16/2002

Project-No.:
56305-20559-6

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Test results for
Receive (RX) mode

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

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Final result with AV detector:
0.180 MHz: 47.5 dB μ V

Detector:

Peak / Final Results: QP

Final results:

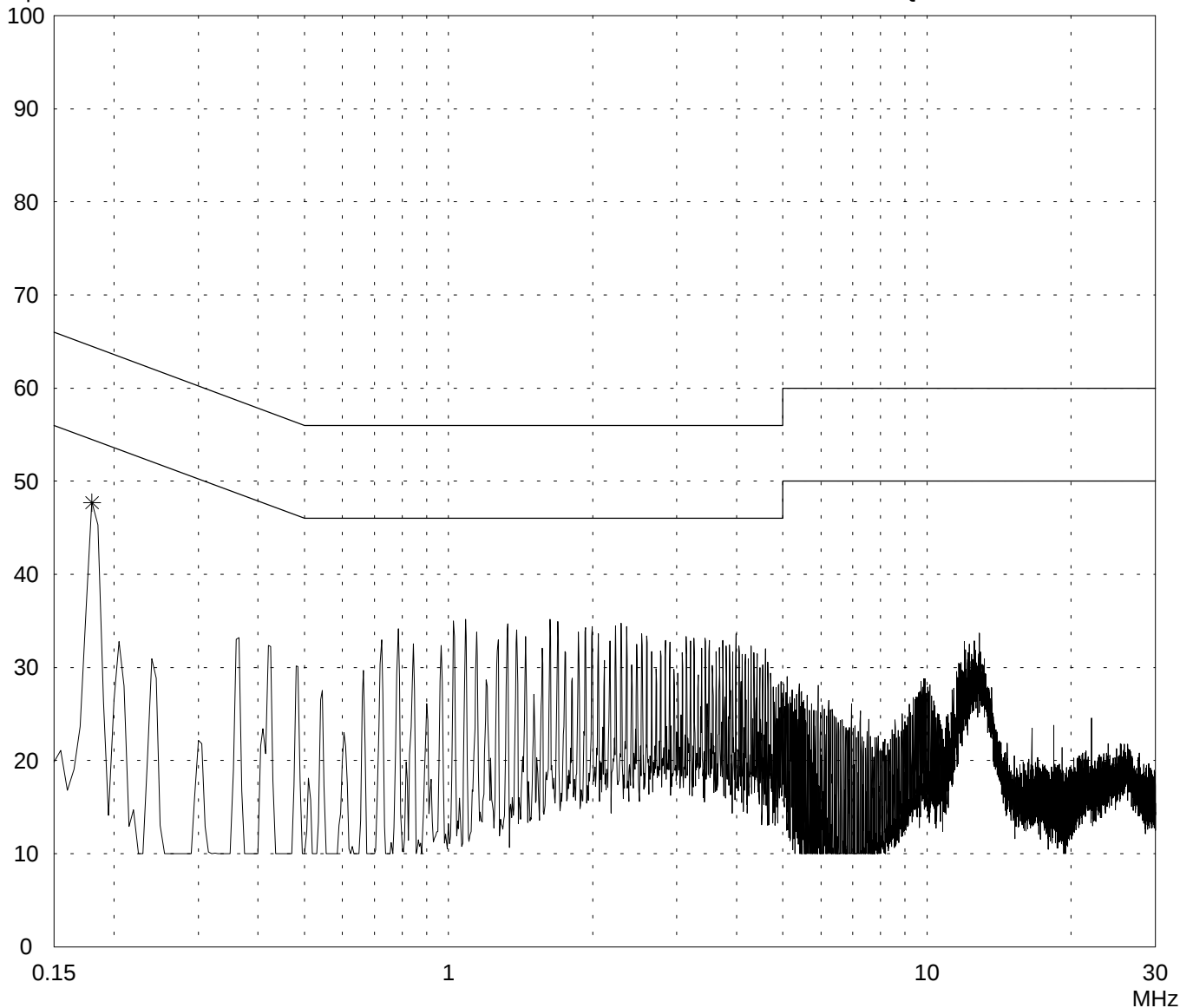
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP

Limit2: FCC C / AV



Result:
Limit kept

Project file:
56305-20559-6

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

Model: 0111-PC	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - RX mode with $f = 2.442$ GHz Final result with AV detector: 0.180 MHz: 47.5 dB μ V
Serial no.: 02UT45300010	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase L1	
Date of test: 12/19/2002	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.18	47.7		47.7	64.5	

Result: Limit kept	Project file: 56305-20559-6	Page 126 of 139 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
**Linecord personal computer (EUT)
Phase N**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Final result with AV detector:
0.180 MHz: 49.4 dB μ V

Detector:

Peak / Final Results: QP

Final results:

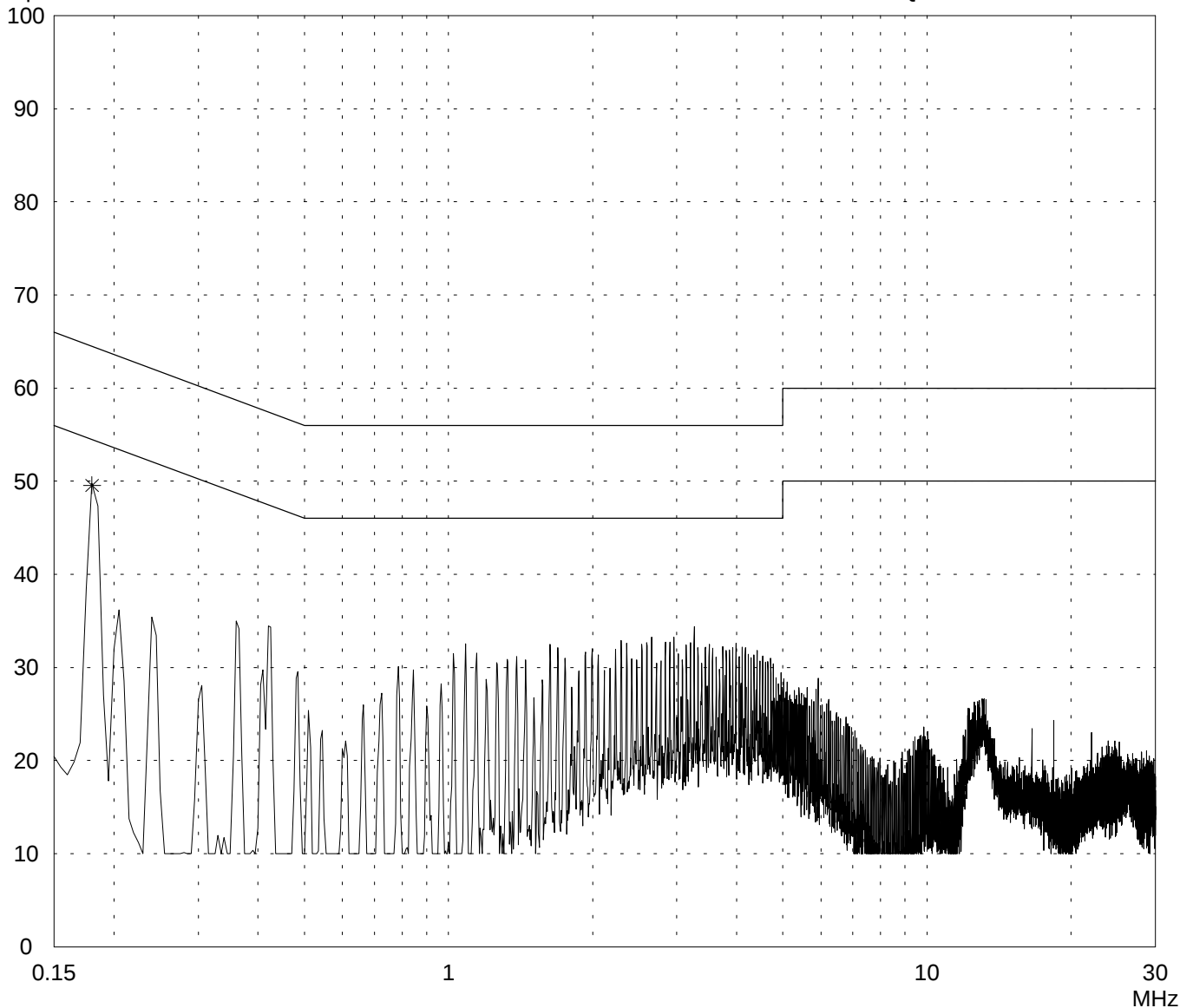
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP

Limit2: FCC C / AV



Result:
Limit kept

Project file:
56305-20559-6

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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C
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Model: 0111-PC	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - RX mode with $f = 2.442$ GHz Final result with AV detector: 0.180 MHz: 49.4 dB μ V
Serial no.: 02UT45300010	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase N	
Date of test: 12/19/2002	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.18	49.6		49.6	64.5	

Result: Limit kept	Project file: 56305-20559-6	Page 128 of 139 Pages
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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Horizontal Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Peak

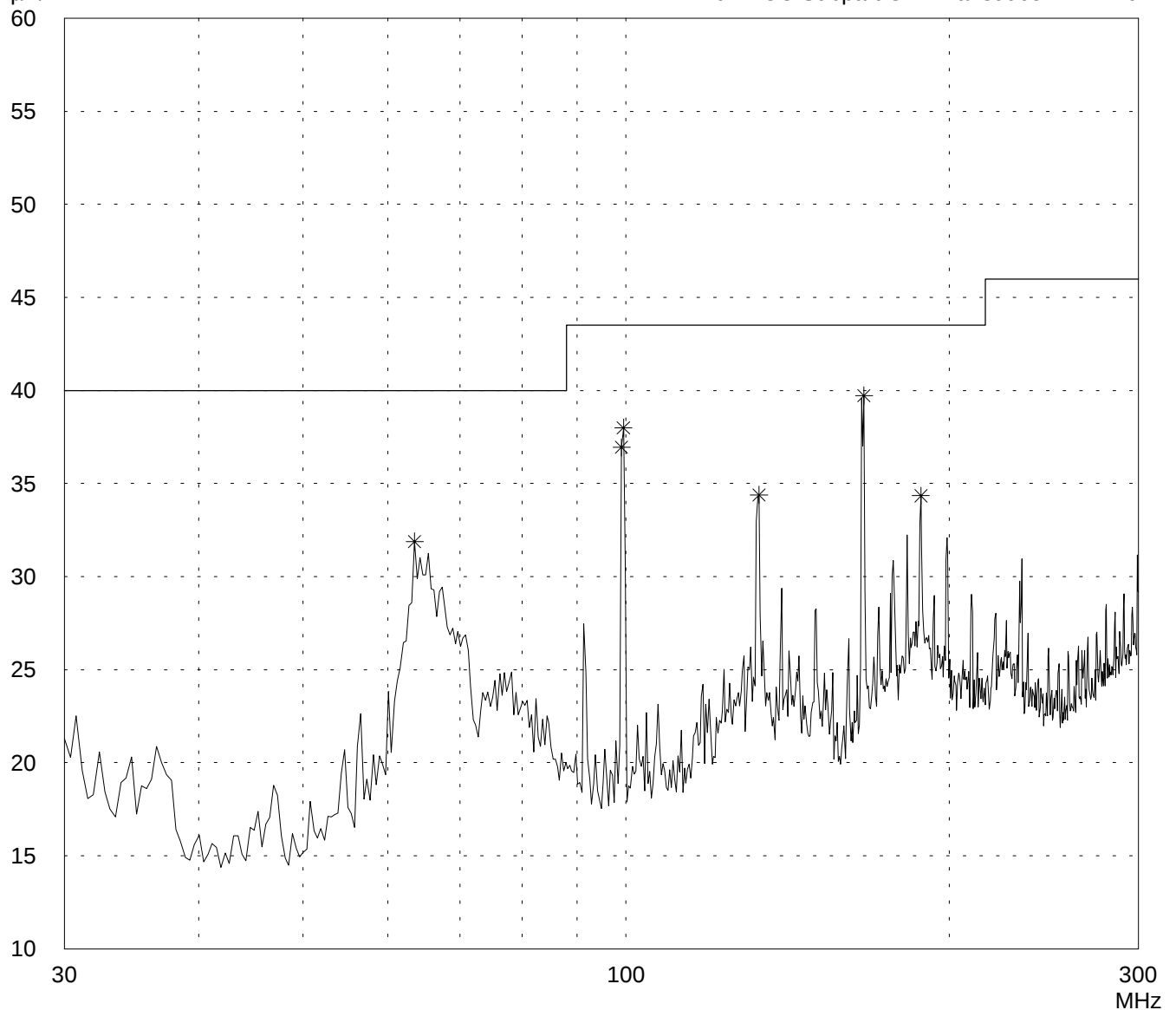
List of values:

10 dB Margin

50 Subranges

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

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 12/12/2002 Operator: R. Heller

Test performed: automatically File name:

Mode:

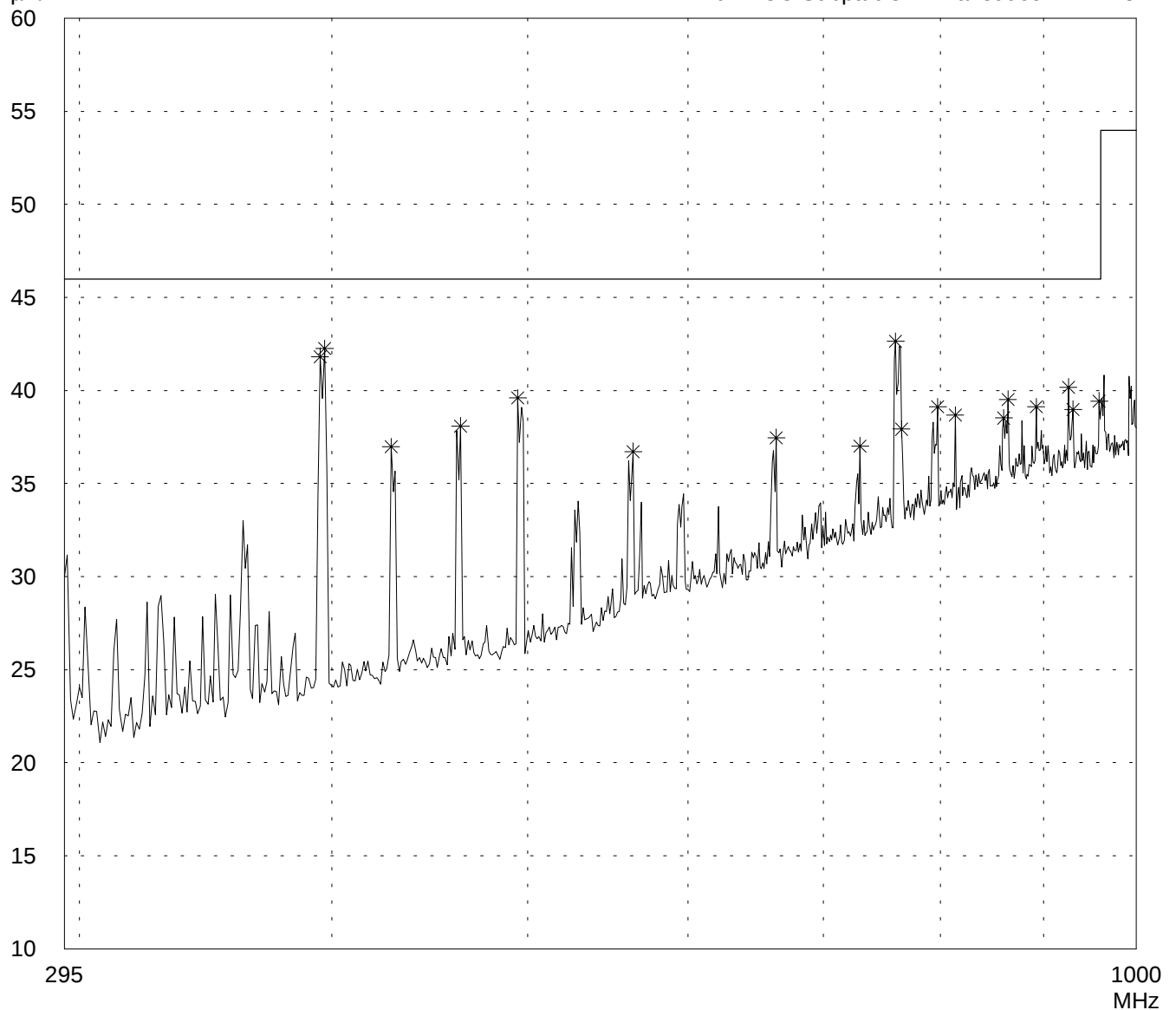
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

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

Limit1: FCC Subpart C Transducer: HL 223



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test: 12/12/2002 Operator:
R. Heller

Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off

- with external antenna Melco WLE-DA standing
on table in vertical position

- operating with bit rate 11 Mbps

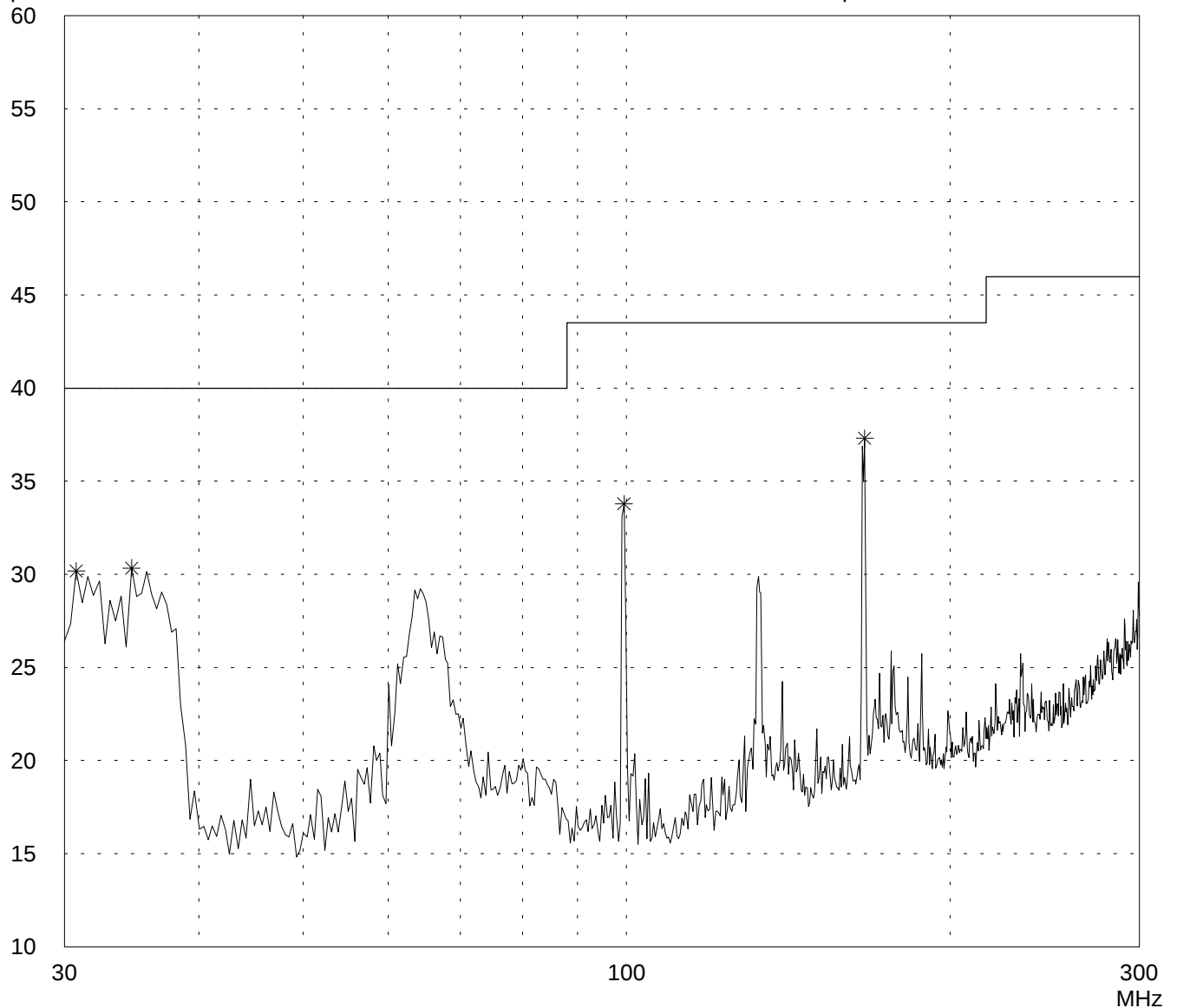
- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

dB μ V/m

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test:
12/12/2002

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:

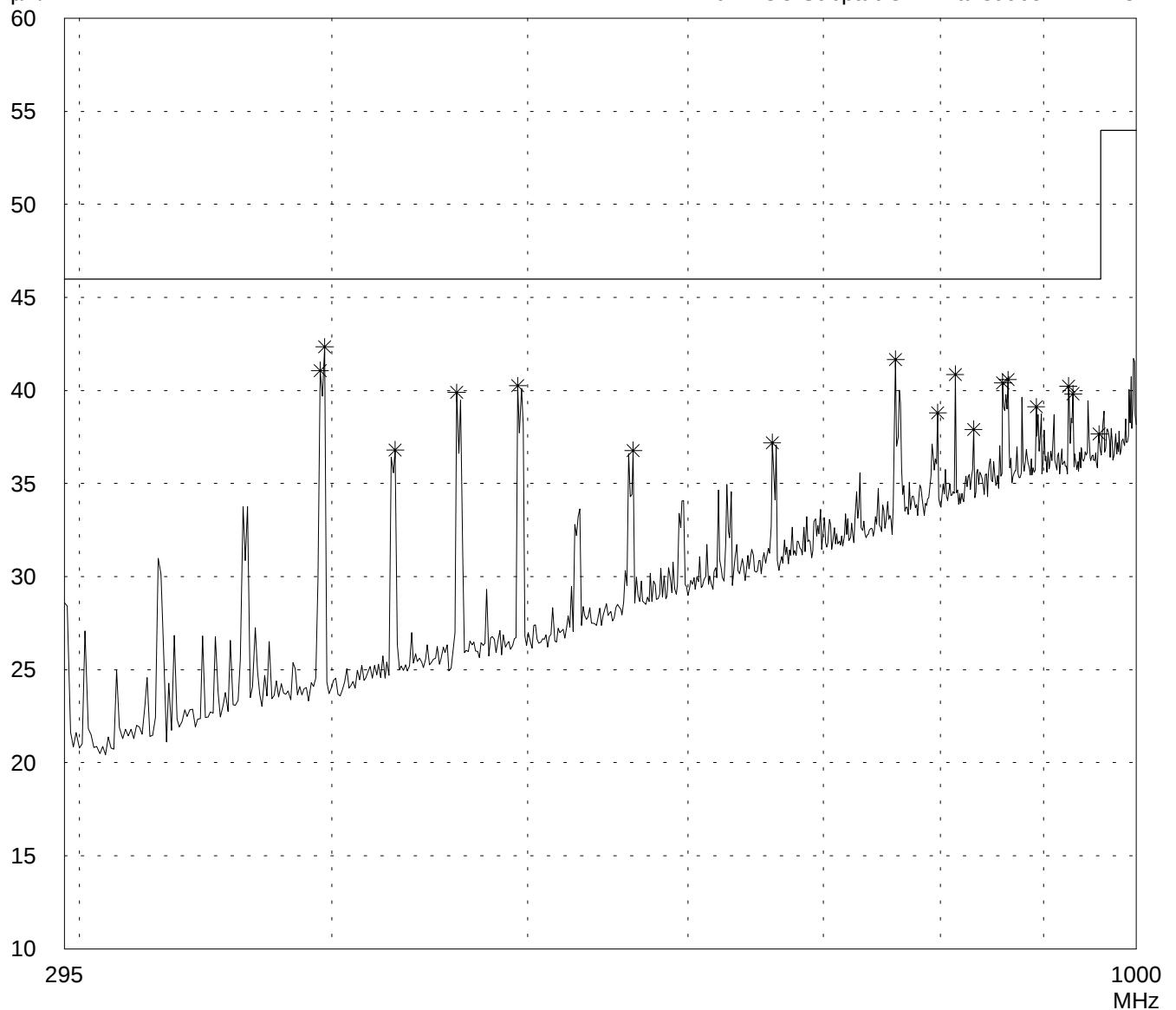
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Subpart C

Transducer: HL 223



Result:
Prescan

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
by hand

File name:

Mode:

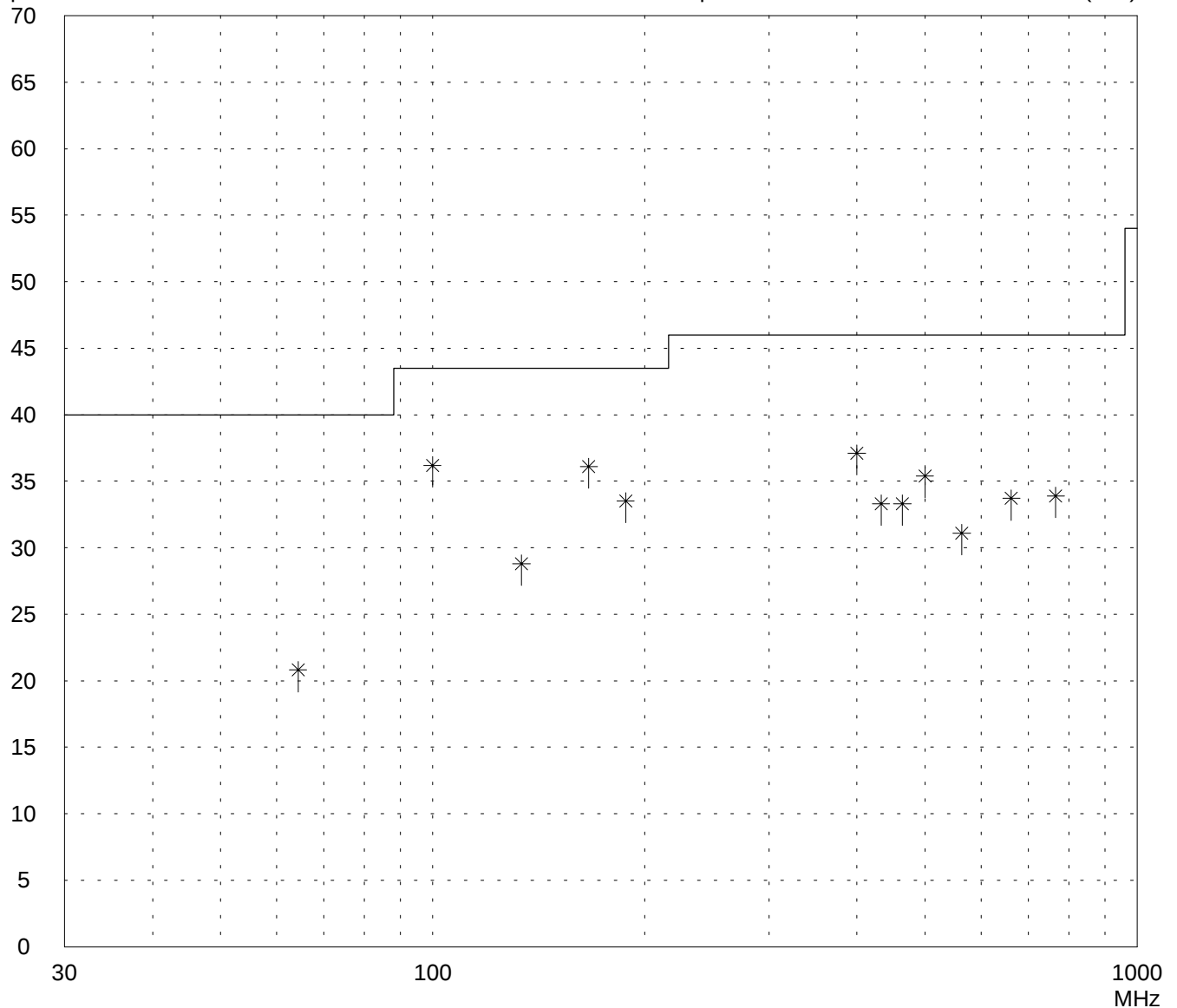
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

dB μ V/m

Limit1: FCC Subpart C Transducer: HK116 / HL223 (3 m)



Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 12/19/2002 Operator: R. Heller

Test performed: by hand File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
64.40	11.0	9.8	20.8	40.0	
99.88	25.5	10.7	36.2	43.5	
133.56	15.5	13.3	28.8	43.5	
166.48	21.6	14.5	36.1	43.5	
187.38	17.6	15.9	33.5	43.5	
399.68	18.4	18.7	37.1	46.0	
433.00	13.8	19.5	33.3	46.0	
463.97	13.2	20.1	33.3	46.0	
499.58	14.7	20.7	35.4	46.0	
563.40	9.4	21.7	31.1	46.0	
662.78	10.0	23.7	33.7	46.0	
766.13	8.9	25.0	33.9	46.0	

Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
**Test distance 3 meters
Vertical Polarization**

Date of test:
12/19/2002

Operator:
R. Heller

Test performed:
by hand

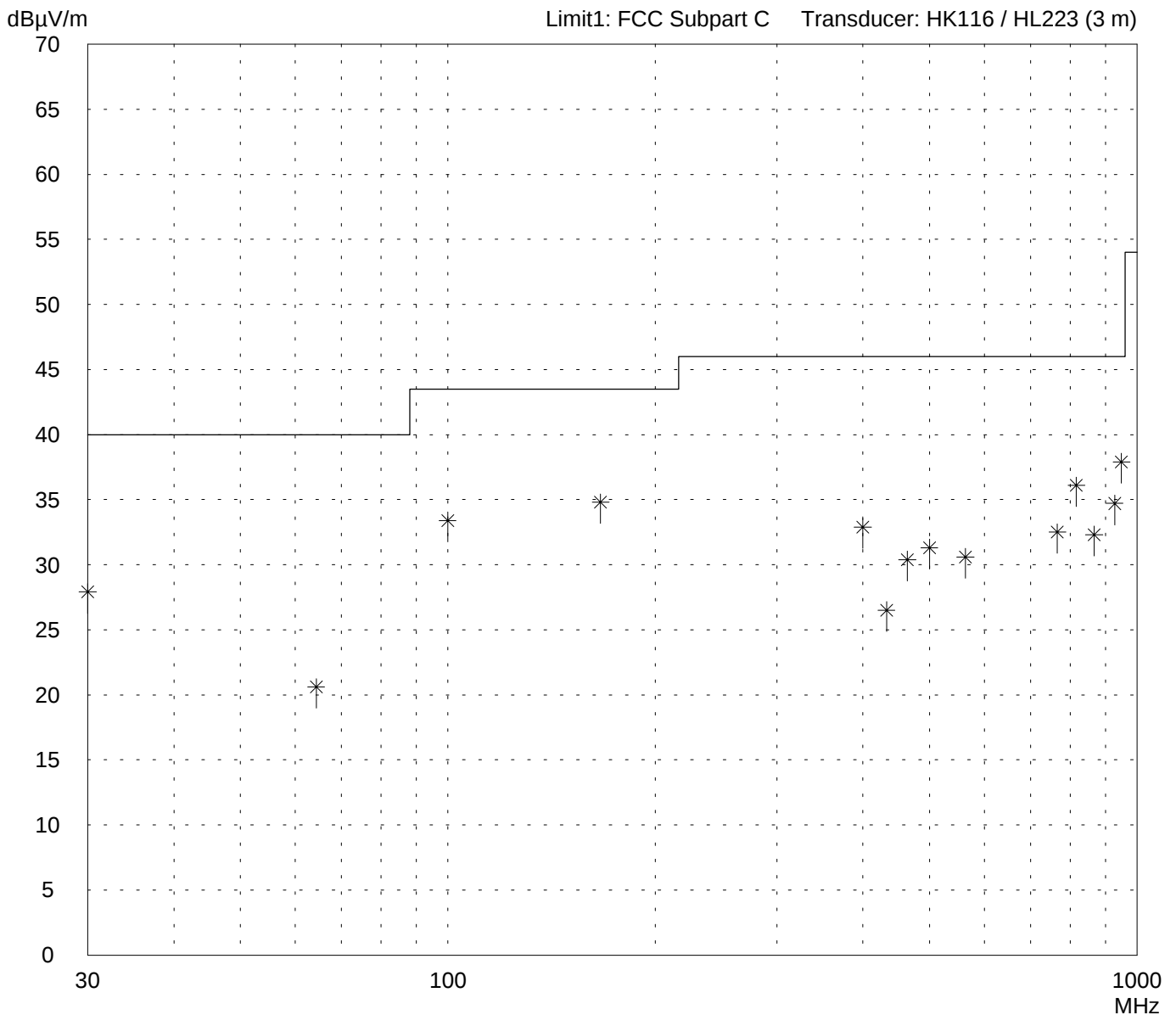
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-20559-6

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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
0111-PC

Serial no.:
02UT45300010

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 12/19/2002
Operator: R. Heller

Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC
- monitor switched off
- with external antenna Melco WLE-DA standing on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
30.00	13.6	14.3	27.9	40.0	
64.40	10.8	9.8	20.6	40.0	
99.88	22.7	10.7	33.4	43.5	
166.52	20.3	14.5	34.8	43.5	
399.68	14.2	18.7	32.9	46.0	
433.00	7.0	19.5	26.5	46.0	
463.97	10.3	20.1	30.4	46.0	
499.58	10.6	20.7	31.3	46.0	
563.40	8.9	21.7	30.6	46.0	
766.10	7.5	25.0	32.5	46.0	
816.11	10.2	25.9	36.1	46.0	
866.06	5.1	27.2	32.3	46.0	
927.84	7.3	27.4	34.7	46.0	
948.96	10.5	27.4	37.9	46.0	

Result:
Limit kept

Project file:
56305-20559-6

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**Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C (§15.209)**

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps

- RX mode with $f = 2.442$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dB μ V]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
1.0018	vertical	15.6	0.5	25.9	42.0	74
1.0658	vertical	19.7	0.5	26.0	46.2	74
1.1956	vertical	20.6	0.5	26.3	47.3	74
1.3342	vertical	23.2	0.5	26.5	50.2	74
1.5938	vertical	16.4	0.5	27.2	44.2	74
2.2587	vertical	15.7	0.6	29.6	45.9	74
2.7845	vertical	14.8	0.7	23.7	39.2	74
3.9859	vertical	11.2	0.8	27.2	39.2	74
4.8894	vertical	15.2	0.9	27.3	43.4	74

Result: The limits are kept

**Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C (§15.209)**

Model: 0111-PC
Type: RF-modem for wireless LAN
Serial No.: 02UT45300010
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/16/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor PCIPC

- with external antenna Melco WLE-DA standing on table in vertical position

- operating with bit rate 11 Mbps

- RX mode with $f = 2.442$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dB μ V]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
1.0000	vertical	< 8.7	0.5	25.9	< 35.0	54
1.0604	vertical	< 14.0	0.5	26.0	< 40.5	54
1.1956	vertical	< 14.6	0.5	26.3	< 41.3	54
1.3342	vertical	< 15.4	0.5	26.5	< 42.4	54
1.5938	vertical	< 9.8	0.5	27.2	< 37.5	54
1.6631	vertical	< 11.4	0.5	27.6	< 39.5	54
2.2551	vertical	< 5.8	0.6	29.6	< 35.9	54
2.7980	vertical	< 5.6	0.7	23.7	< 29.9	54
4.8841	vertical	13.0	0.9	27.3	41.2	54

Result: The limits are kept

13. Additional Information supplementary to the Test Report

Item	Description	Collected in
1	Photographs of EUT and Host	Annex A
2	Photographs Taken During Testing	Annex B