

Straubing, April 8, 2002

TEST-REPORT

No. 56305-20162-3

for

PC24E-11-FC/R S

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

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):	PC24E-11-FC/R S
Serial number(s):	02UT06373519
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:	IMRWLPCE2411R
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:	March 11, 2002
Date of test:	March 19 to April 4, 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
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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),
- conducted emission 450 kHz - 30 MHz (§15.207) and
- radiated emission (§15.247.c, §15.205.a,b, §15.209)

set forth in the Code of Regulations Part 15 Subpart C, Section §15.247 (intentional radiators) of the Federal Communication Commission (FCC).



Johann Roidt
Technical Manager



Rainer Heller
Test Engineer

4. Operation Mode of EUT

All tests were performed using the "WaveLAN-II Certification Test Program", Version v02.24Beta (Oct 22 2001). 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 PC24E-11-FC/R S 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 PCI-33W.

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	020710/A	02UT06373519	PC24E-11-FC/R S	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 ³	020202/A	21790001	PCI-33W	Agere

Table 1: EUT and accessories

² Including cable attenuation

³ With two additional springs mounted on printed board improving contact of PC-card to bracket (for details see "Photographs of EUT and Host" collected in Annex A)

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 (§ 15.247.b)

The maximum peak output power was measured with a power meter. The appropriate thermocouple sensor (indicating the RMS power) was 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, 18, 67, 68

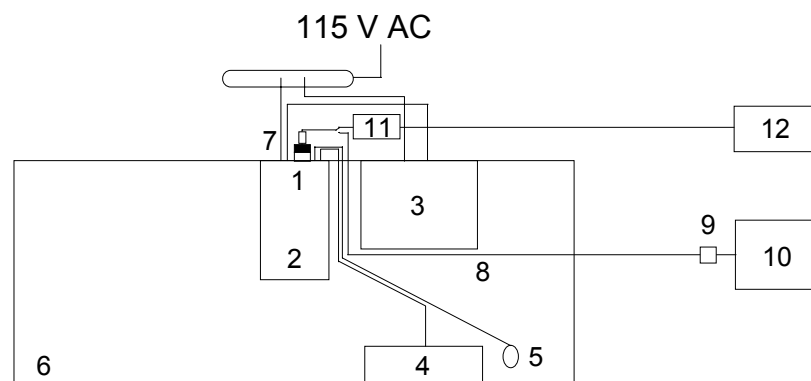


Figure 1: Measurement setup for testing on antenna connector

- | | |
|-----------------------------------|-------------------------------------|
| 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 0.45 MHz - 30 MHz (§15.207)

Conducted emissions were measured in the frequency range 0.45 MHz to 30 MHz. The bandwidth of the EMI-Receiver was set to 9 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 performed on phase and neutral lines of the power-cords of the tested system. Preliminary scans were taken with the detector-function of the EMI-receiver set to peak to determine the conducted EMI-profile of the EUT. At the final test the cables and equipment were placed and moved within the range of positions likely to find their maximum emissions.

See figure 2 for the measurement setup.

Test equipment used (see equipment list for details):

04, 22, 23, 60, 63

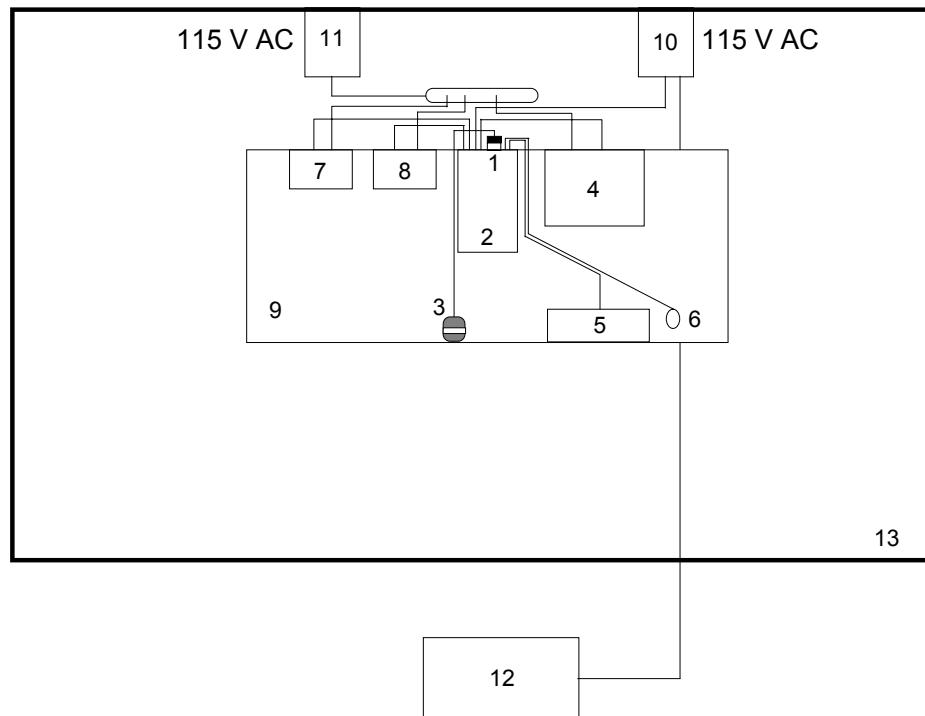


Figure 2: Measurement setup for conducted emission test

- | | | | |
|----------|--------------------------|-----------|-----------------------------|
| 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 (§15.209, §15.247.c, §15.205.a,b)

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

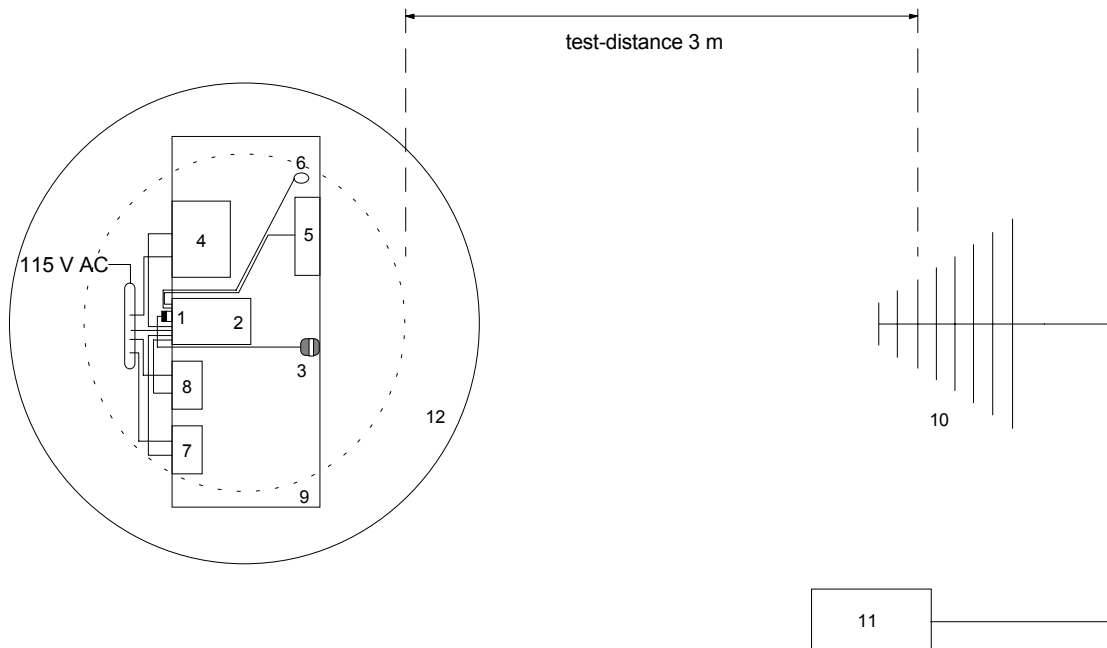


Figure 3: Measurement setup for radiated emission test below 1 GHz

- | | | | |
|----------|--------------------------|-----------|---------------------|
| 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 (§15.209, §15.247.c, §15.205.a,b)

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. To eliminate variations in amplification of the preamplifiers a signal generator was used for substitution (however, during testing a correction according to the minimum amplification was added).

Substitution was performed in the following steps:

- antenna cable was disconnected from receiving antenna and connected to signal generator output
- level of signal generator was increased until the reading value of the analyzer was the same as caused by EUT
- level of signal generator was noted
- final value was calculated by converting the signal generator level to dB μ V/m and adding the antenna correction factor.

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

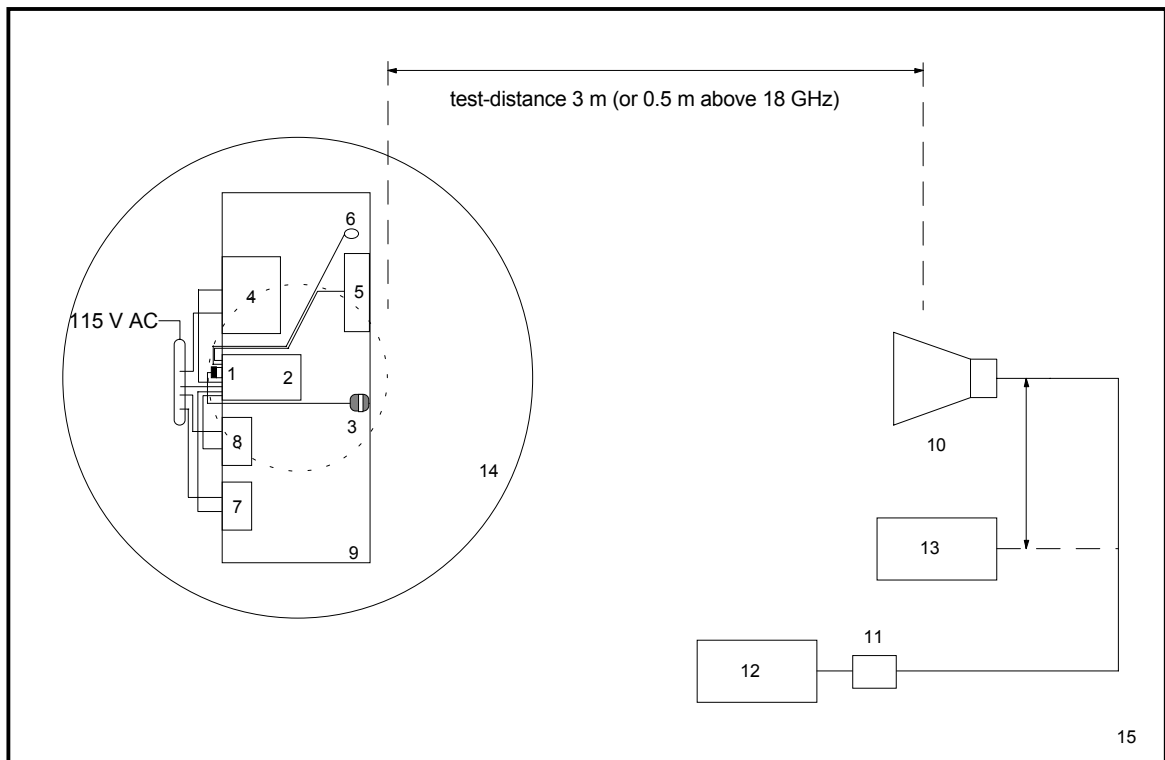


Figure 4: Measurement setup for radiated emission test above 1 GHz

- | | | | |
|----------|--------------------------|-----------|------------------------------|
| 1 | RF-modem | 10 | Measurement antenna |
| 2 | Personal computer (host) | 11 | Preamplifier (if applicable) |
| 3 | External antenna | 12 | Spectrum analyzer |
| 4 | Monitor | 13 | Signal generator |
| 5 | Keyboard | 14 | Turn table |
| 6 | Mouse | 15 | Semi-anechoic room |
| 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

9. Photographs Taken During Testing

Photo No. 9.1

Test setup for conducted emission test 450 kHz - 30 MHz



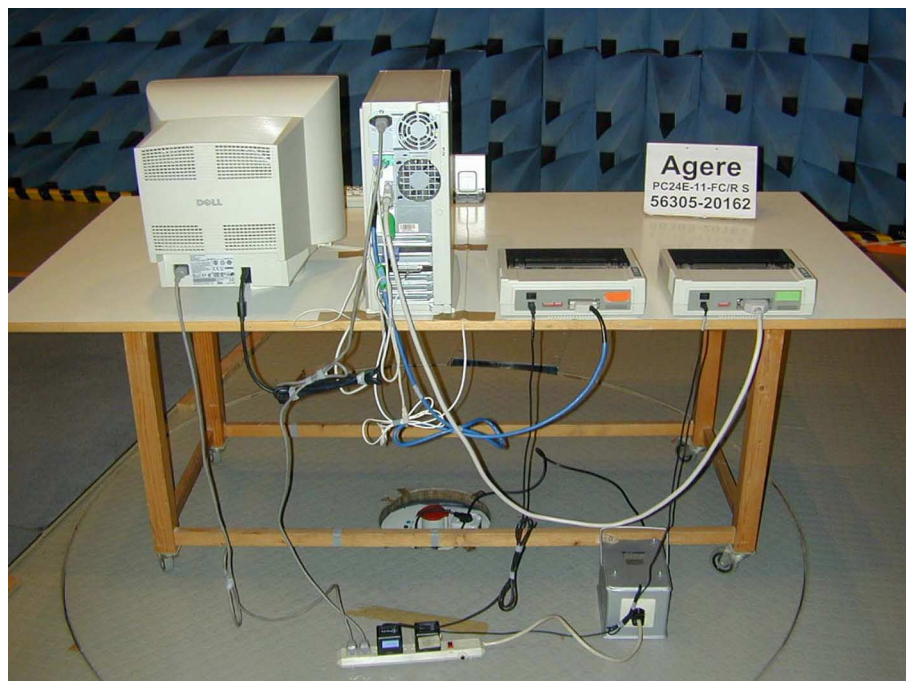
Photos No. 9.2 - 9.3

**Test setup for conducted emission test 450 kHz - 30 MHz
- continued -**



Photos No. 9.4 - 9.5

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



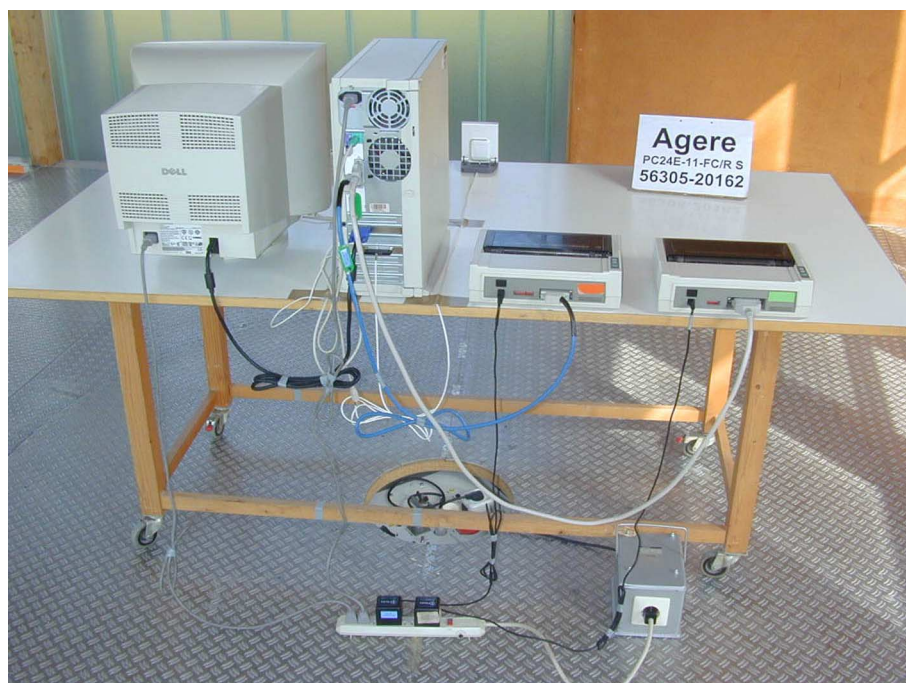
Photos No. 9.6 - 9.7

**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)



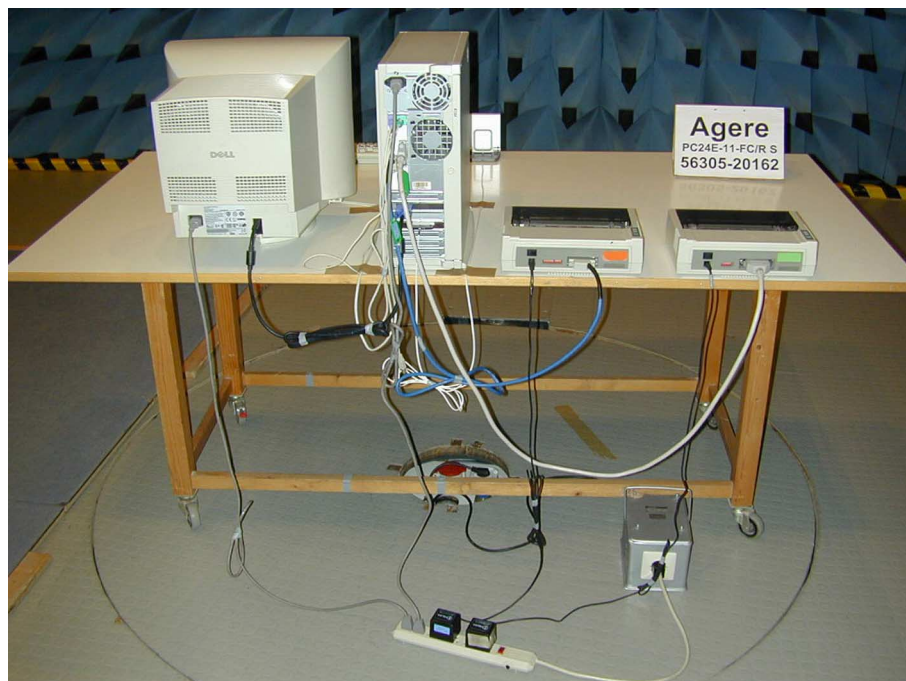
Photos No. 9.10 - 9.11

**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. List of Measurements

FCC Part 15 Subpart C			
Section(s):	Test	Page	Result
	Transmit mode (TX):	31	
§15.247.a2	Minimum 6 dB bandwidth	---	not performed ⁴
§15.247.b	Maximum peak output power	32	passed
§15.247.d	Peak power density	---	not performed ⁴
§15.247.e	Processing gain	---	performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	33	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	57	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	81	passed
	Receive mode (RX):	133	
§15.207	Conducted emission test 450 kHz - 30 MHz	134	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	142	passed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	150	passed

⁴ See Senton test report no. 56305-20162-1

Note: 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 difference especially in average 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.

Having less significant differences in peak results than in average levels only critical harmonics observed with 11 Mbps (i.e. with less than 10 dB margin of peak levels to average limit) had to be retested with bit rate set to 2 Mbps.

11. Test Results

Test results for
Transmit (TX) mode

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

Model: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Date of test: 04/03/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- with external antenna Melco WLE-DA
- TX mode

Tested on: Antenna connector

Selected bit rate	Operating frequency [GHz]	Power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit (see note 1) [dBm]
11 Mbps	2.412	14.9	0.2	15.1	30
	2.442	15.0	0.2	15.2	30
	2.462	15.1	0.2	15.3	30
5.5 Mbps	2.412	15.0	0.2	15.2	30
	2.442	15.1	0.2	15.3	30
	2.462	15.1	0.2	15.3	30
2 Mbps	2.412	14.9	0.2	15.1	30
	2.442	15.0	0.2	15.2	30
	2.462	15.0	0.2	15.2	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 the DC block.
The maximum power values were recorded.
Note 3: The duty cycle of the EUT is > 99%

Result: The limit is kept

Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 04/03/2002 Operator: R. Heller

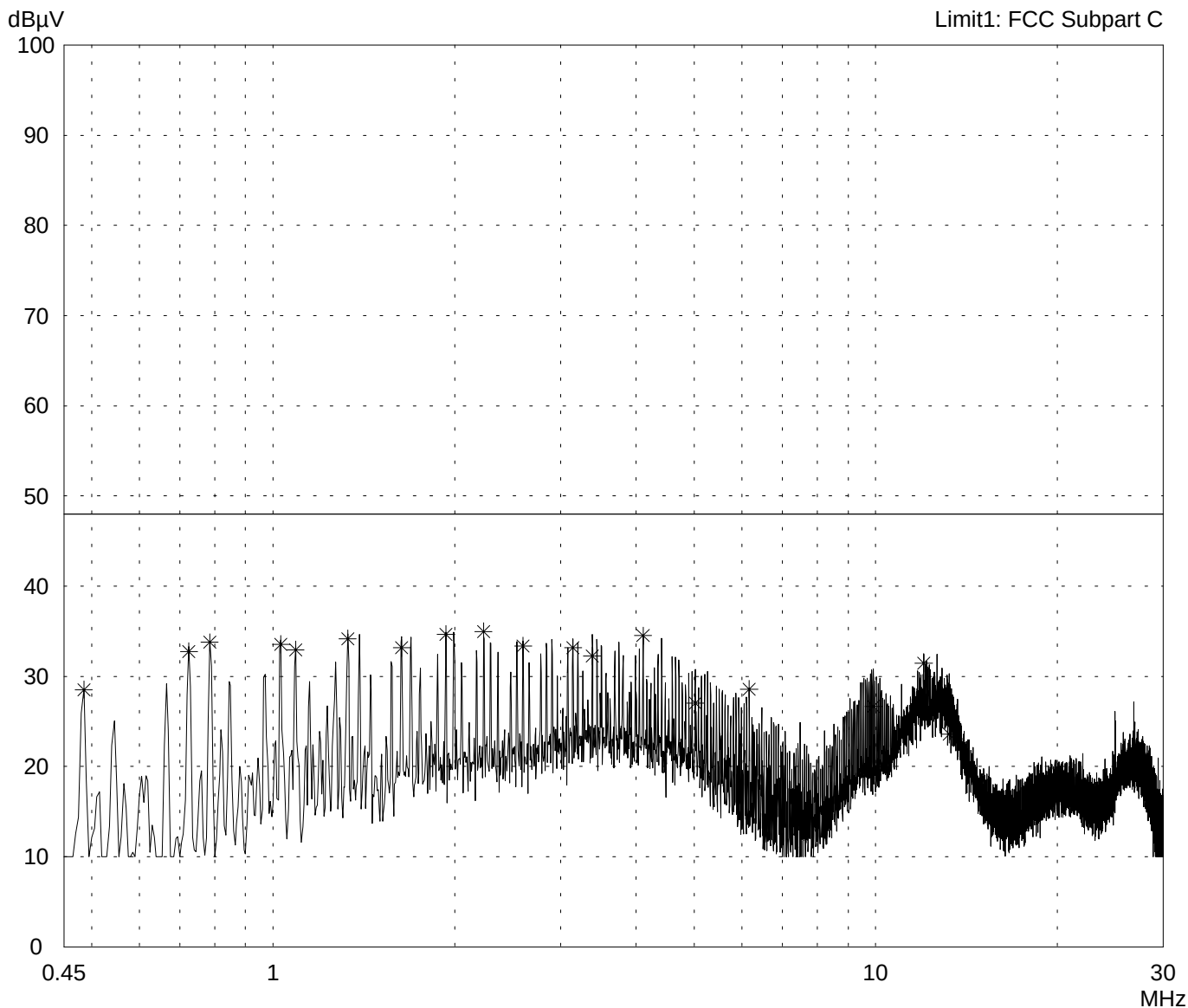
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 04/03/2002 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 Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
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>
0.485	28.5		28.5	48.0	
0.725	32.7		32.7	48.0	
0.785	33.8		33.8	48.0	
1.030	33.6		33.6	48.0	
1.090	32.9		32.9	48.0	
1.330	34.2		34.2	48.0	
1.635	33.2		33.2	48.0	
1.935	34.7		34.7	48.0	
2.235	35.0		35.0	48.0	
2.600	33.4		33.4	48.0	
3.145	33.2		33.2	48.0	
3.385	32.3		32.3	48.0	
4.110	34.5		34.5	48.0	
5.020	27.0		27.0	48.0	
6.165	28.6		28.6	48.0	
9.915	26.7		26.7	48.0	
12.015	31.4		31.4	48.0	
13.250	23.6		23.6	48.0	

Result:
Limit kept

Project file:
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 04/03/2002 Operator: R. Heller

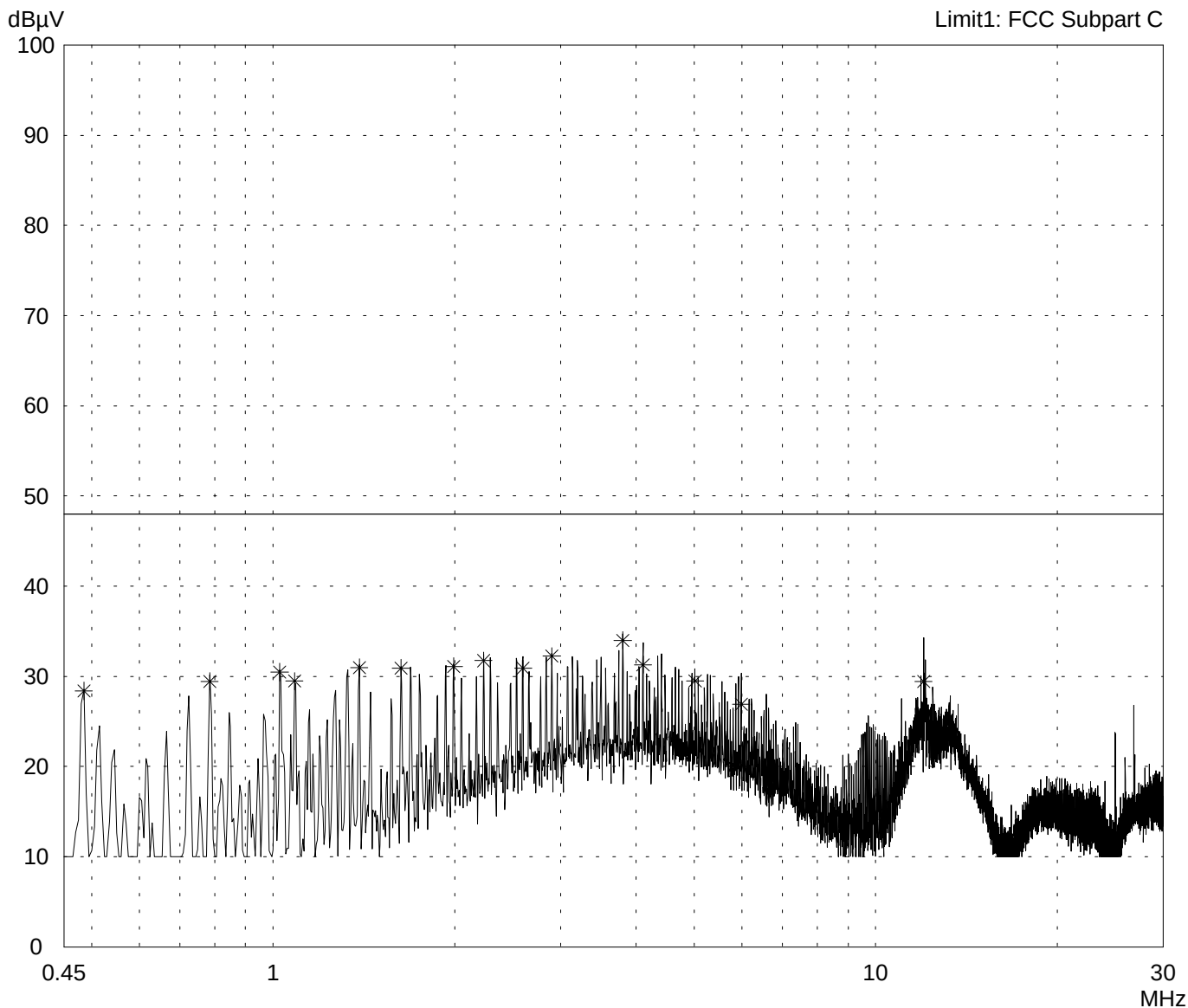
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S		Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - 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
Serial no.: 02UT06373519		
Applicant: Agere Systems Nederland B.V.		
Test site: Shielded room, cabin no. 1		
Tested on: Linecord personal computer (EUT) Phase N		
Date of test: 04/03/2002	Operator: R. Heller	
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>
0.485	28.4		28.4	48.0	
0.785	29.4		29.4	48.0	
1.025	30.5		30.5	48.0	
1.085	29.5		29.5	48.0	
1.390	31.0		31.0	48.0	
1.630	30.9		30.9	48.0	
1.995	31.1		31.1	48.0	
2.235	31.7		31.7	48.0	
2.600	30.9		30.9	48.0	
2.900	32.2		32.2	48.0	
3.805	34.0		34.0	48.0	
4.110	31.3		31.3	48.0	
5.015	29.5		29.5	48.0	
5.980	26.9		26.9	48.0	
12.010	29.4		29.4	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 36 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 04/03/2002 Operator: R. Heller

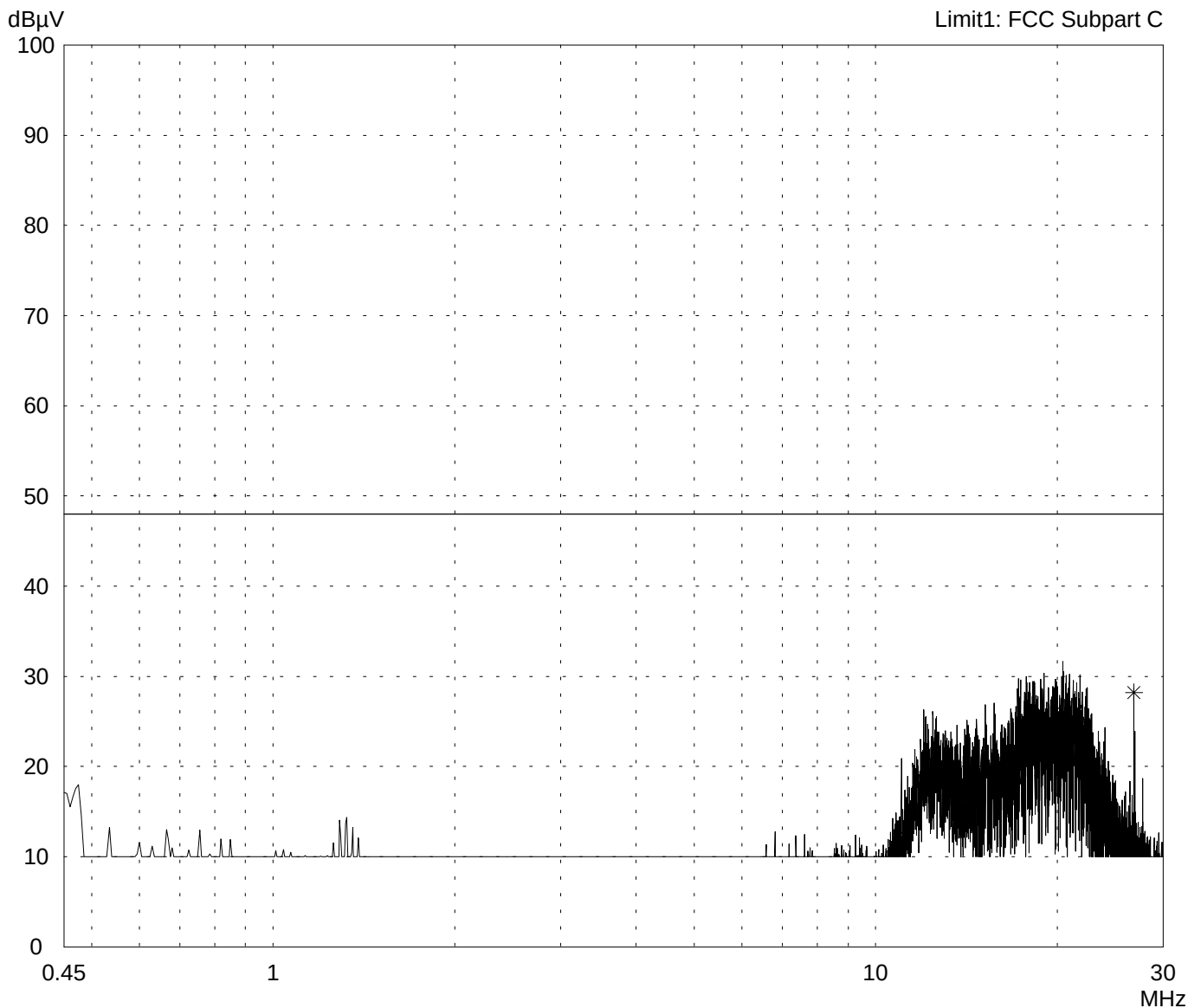
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - 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
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 1	
Tested on: Linecord peripheral devices Phase L1	
Date of test: 04/03/2002 Operator: R. Heller	
Test performed: automatically File name:	

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

[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 38 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord peripheral devices
Phase N

Date of test: 04/03/2002 Operator: R. Heller

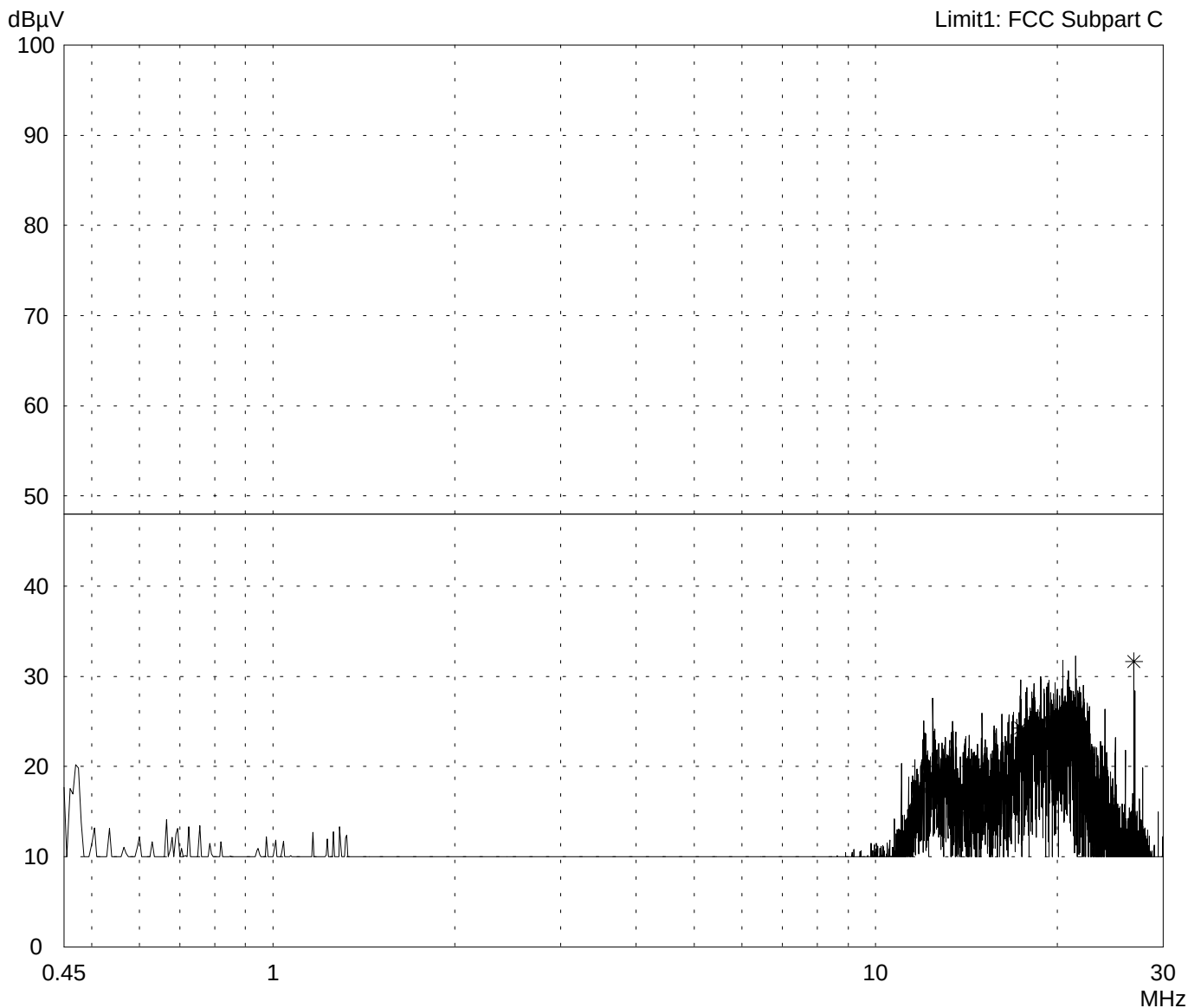
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S		Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - 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
Serial no.: 02UT06373519		
Applicant: Agere Systems Nederland B.V.		
Test site: Shielded room, cabin no. 1		
Tested on: Linecord peripheral devices Phase N		
Date of test: 04/03/2002	Operator: R. Heller	
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>
17.385	24.2		24.2	48.0	
20.435	22.3		22.3	48.0	
21.445	25.9		25.9	48.0	
26.825	31.7		31.7	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 40 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 04/03/2002 Operator: R. Heller

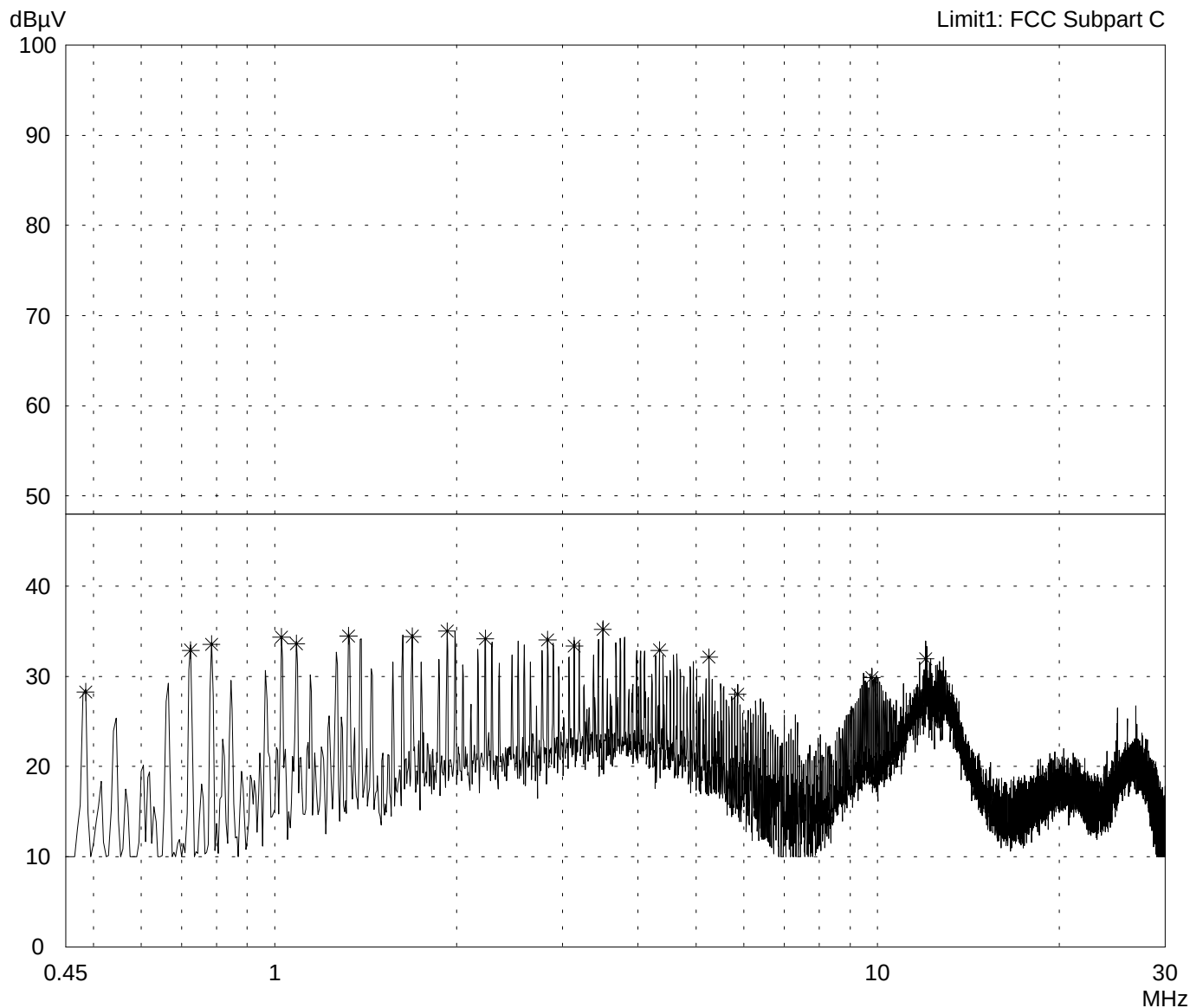
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 04/03/2002 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 Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
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>
0.485	28.3		28.3	48.0	
0.725	32.9		32.9	48.0	
0.785	33.6		33.6	48.0	
1.025	34.4		34.4	48.0	
1.085	33.6		33.6	48.0	
1.325	34.5		34.5	48.0	
1.690	34.4		34.4	48.0	
1.930	35.0		35.0	48.0	
2.235	34.2		34.2	48.0	
2.835	34.1		34.1	48.0	
3.140	33.4		33.4	48.0	
3.500	35.2		35.2	48.0	
4.345	32.9		32.9	48.0	
5.250	32.1		32.1	48.0	
5.855	28.0		28.0	48.0	
9.775	29.8		29.8	48.0	
12.010	32.0		32.0	48.0	
12.975	27.5		27.5	48.0	

Result:
Limit kept

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 04/03/2002 Operator: R. Heller

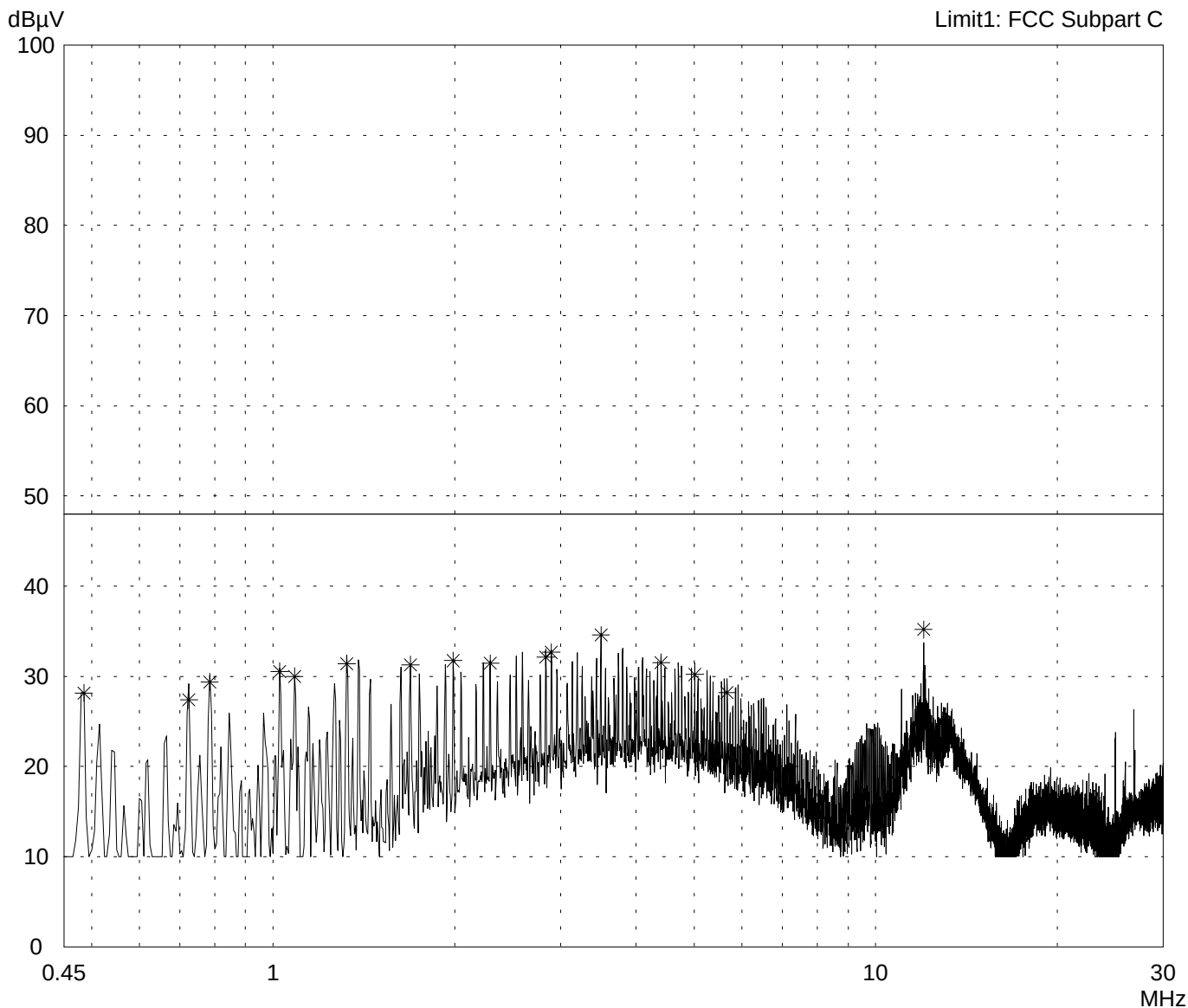
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	- with external antenna Melco WLE-DA standing on table in vertical position
Test site: Shielded room, cabin no. 1	- operating with bit rate 11 Mbps
Tested on: Linecord personal computer (EUT) Phase N	- TX mode with $f = 2.442$ GHz
Date of test: 04/03/2002	Operator: R. Heller
Test performed: automatically	File name:

Detector: Peak / Final Results: QP	Final results: 20 dB Margin	25 Subranges
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<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>
0.485	28.2		28.2	48.0	
0.725	27.4		27.4	48.0	
0.785	29.4		29.4	48.0	
1.025	30.5		30.5	48.0	
1.085	30.0		30.0	48.0	
1.325	31.4		31.4	48.0	
1.690	31.3		31.3	48.0	
1.990	31.7		31.7	48.0	
2.295	31.4		31.4	48.0	
2.835	32.1		32.1	48.0	
2.895	32.7		32.7	48.0	
3.500	34.6		34.6	48.0	
4.405	31.5		31.5	48.0	
5.010	30.2		30.2	48.0	
5.670	28.2		28.2	48.0	
12.010	35.2		35.2	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 44 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 04/03/2002 Operator: R. Heller

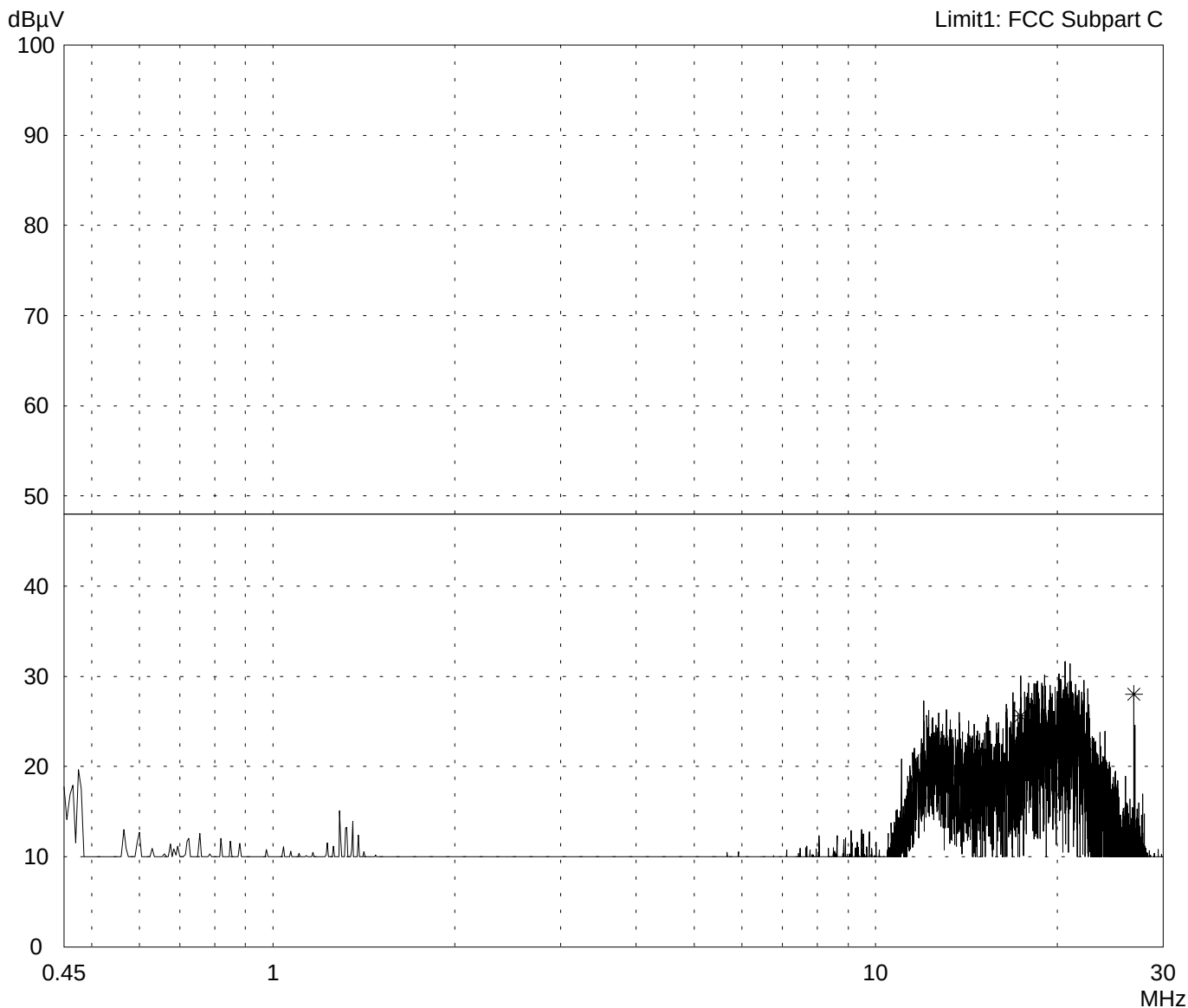
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - 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
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 1	
Tested on: Linecord peripheral devices Phase L1	
Date of test: 04/03/2002 Operator: R. Heller	
Test performed: automatically File name:	

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

[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 46 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord peripheral devices
Phase N

Date of test: 04/03/2002 Operator: R. Heller

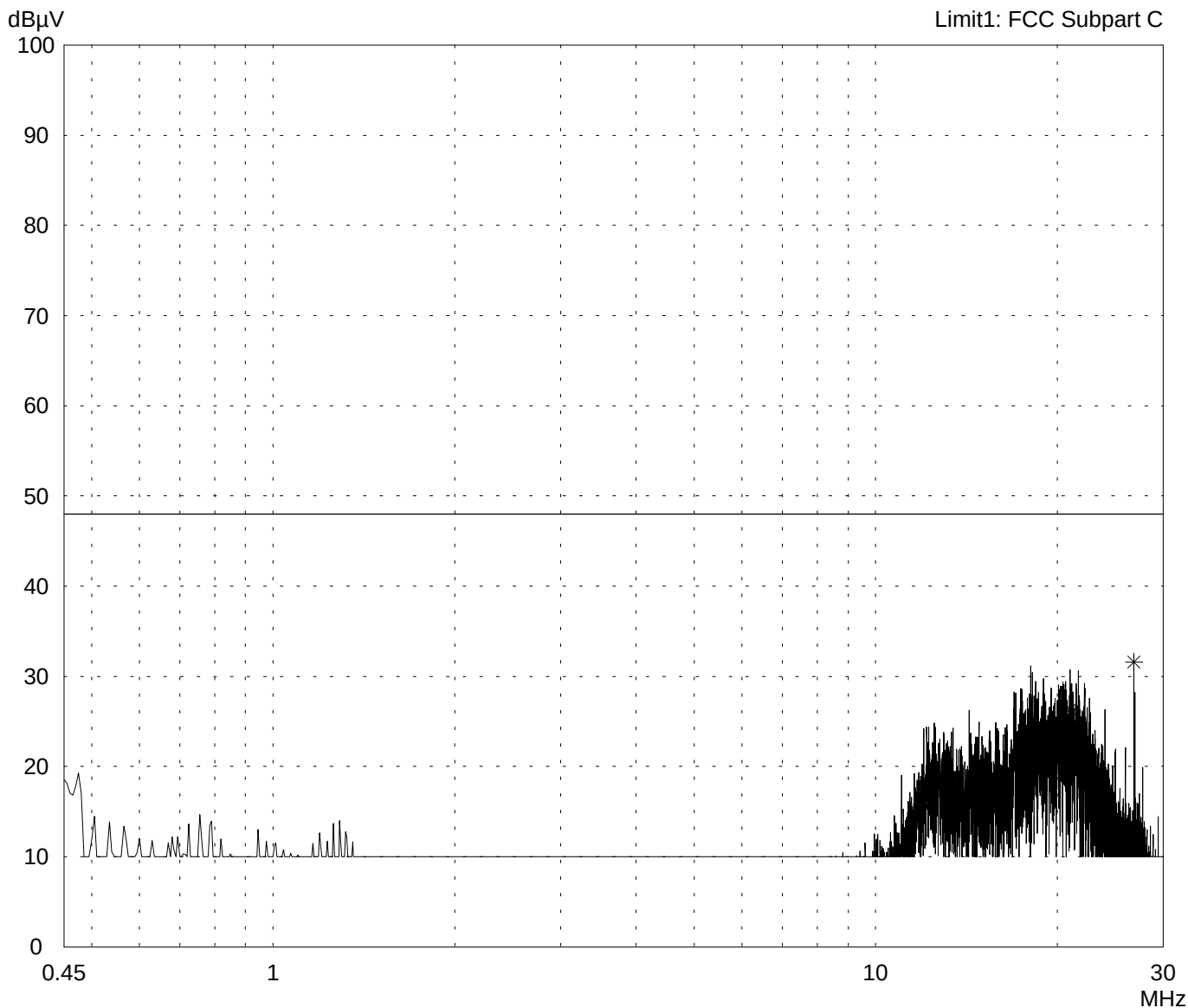
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S		Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - 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
Serial no.: 02UT06373519		
Applicant: Agere Systems Nederland B.V.		
Test site: Shielded room, cabin no. 1		
Tested on: Linecord peripheral devices Phase N		
Date of test: 04/03/2002	Operator: R. Heller	
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>
18.075	23.3		23.3	48.0	
21.005	26.3		26.3	48.0	
21.700	24.6		24.6	48.0	
26.820	31.6		31.6	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 48 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 04/03/2002 Operator: R. Heller

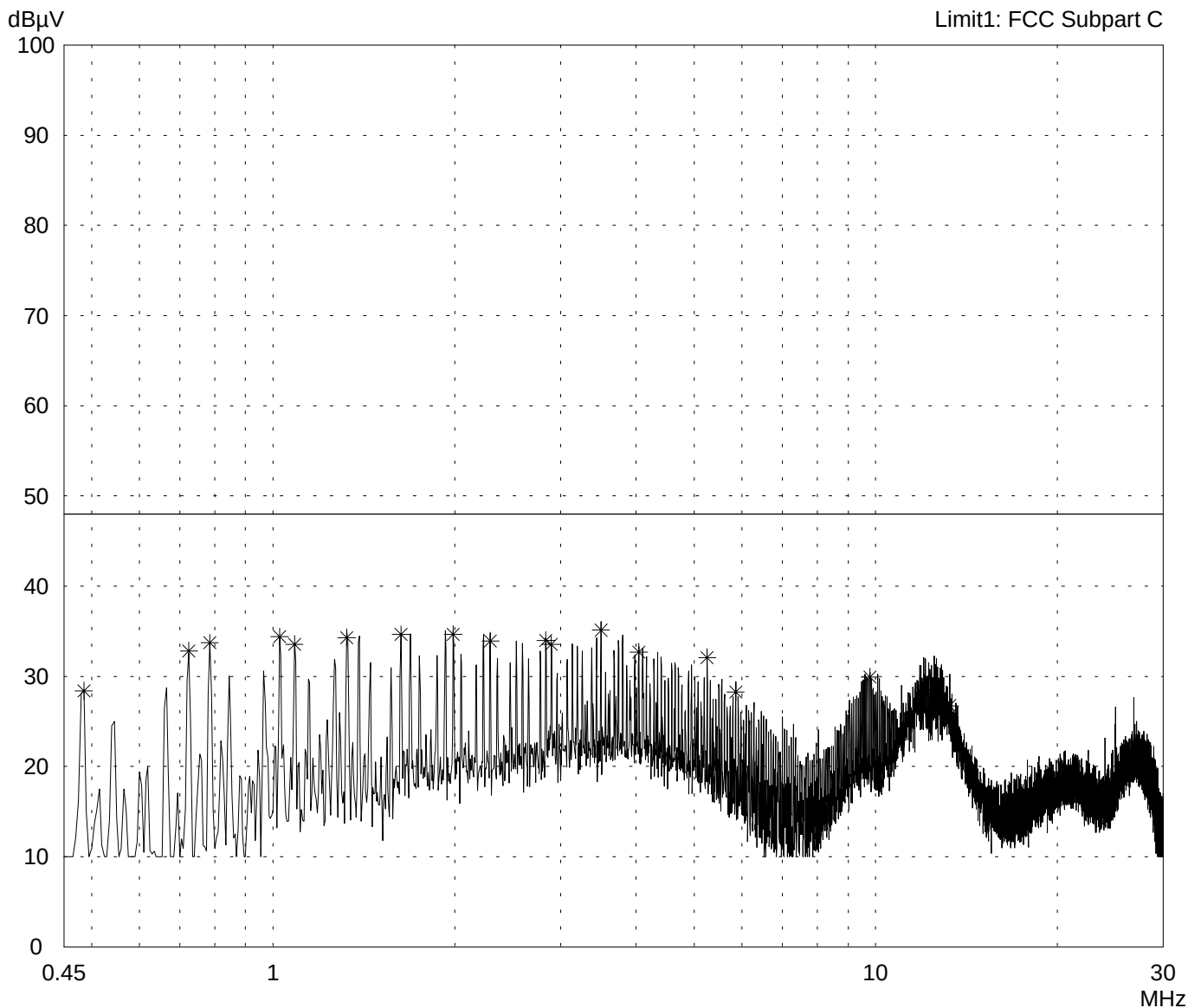
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	- with external antenna Melco WLE-DA standing on table in vertical position
Test site: Shielded room, cabin no. 1	- operating with bit rate 11 Mbps
Tested on: Linecord personal computer (EUT) Phase L1	- TX mode with f = 2.462 GHz
Date of test: 04/03/2002	Operator: R. Heller
Test performed: automatically	File name:

Detector: Peak / Final Results: QP	Final results: 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>
0.485	28.4		28.4	48.0	
0.725	32.8		32.8	48.0	
0.785	33.7		33.7	48.0	
1.025	34.4		34.4	48.0	
1.085	33.5		33.5	48.0	
1.325	34.3		34.3	48.0	
1.630	34.6		34.6	48.0	
1.990	34.7		34.7	48.0	
2.295	33.9		33.9	48.0	
2.835	34.0		34.0	48.0	
2.895	33.5		33.5	48.0	
3.500	35.1		35.1	48.0	
4.045	32.7		32.7	48.0	
5.250	32.1		32.1	48.0	
5.855	28.2		28.2	48.0	
9.775	29.9		29.9	48.0	
12.495	28.0		28.0	48.0	
13.275	26.8		26.8	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 50 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 04/03/2002 Operator: R. Heller

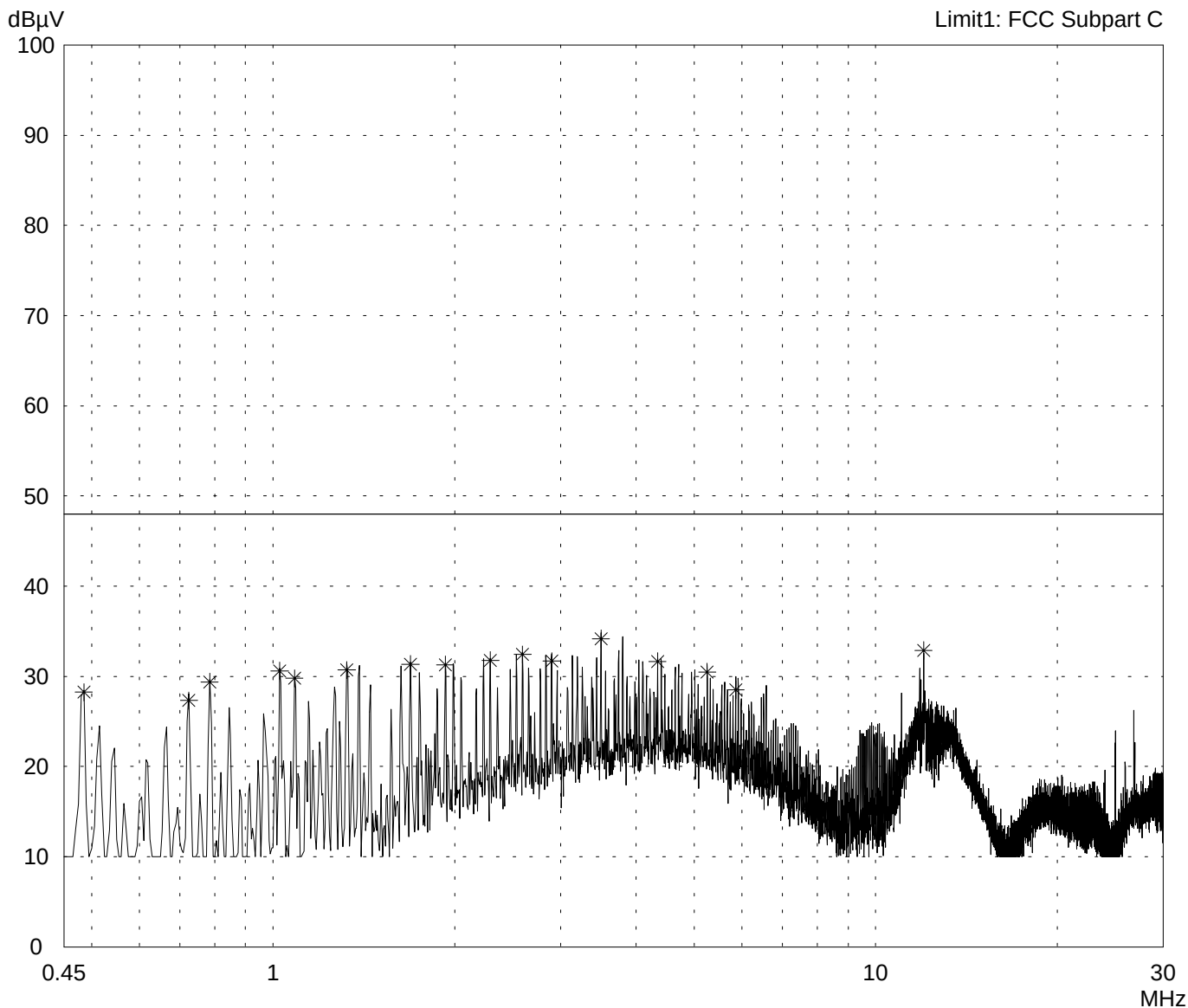
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
Serial no.: 02UT06373519	- with external antenna Melco WLE-DA standing on table in vertical position
Applicant: Agere Systems Nederland B.V.	- operating with bit rate 11 Mbps
Test site: Shielded room, cabin no. 1	- TX mode with f = 2.462 GHz
Tested on: Linecord personal computer (EUT) Phase N	
Date of test: 04/03/2002	Operator: R. Heller
Test performed: automatically	File name:

Detector: Peak / Final Results: QP	Final results: 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>
0.485	28.2		28.2	48.0	
0.725	27.3		27.3	48.0	
0.785	29.4		29.4	48.0	
1.025	30.6		30.6	48.0	
1.085	29.8		29.8	48.0	
1.325	30.7		30.7	48.0	
1.690	31.3		31.3	48.0	
1.930	31.3		31.3	48.0	
2.295	31.8		31.8	48.0	
2.595	32.4		32.4	48.0	
2.900	31.7		31.7	48.0	
3.500	34.2		34.2	48.0	
4.345	31.7		31.7	48.0	
5.250	30.5		30.5	48.0	
5.855	28.5		28.5	48.0	
12.010	32.9		32.9	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 52 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 04/03/2002 Operator: R. Heller

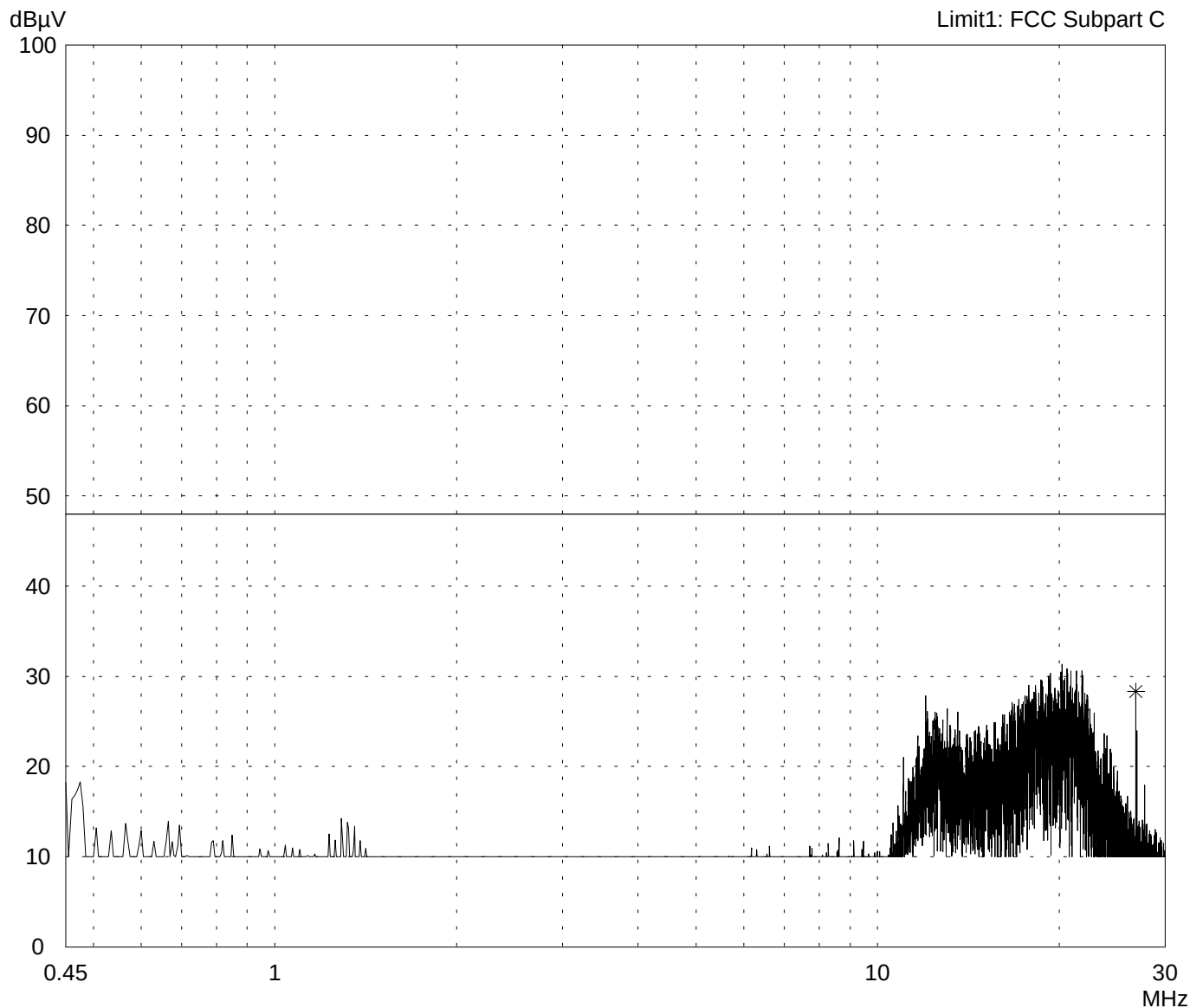
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
Selected by hand



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - 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
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 1	
Tested on: Linecord peripheral devices Phase L1	
Date of test: 04/03/2002	
Test performed: automatically	File name:

Detector:	Final results:
Peak / Final Results: QP	Selected by hand

[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 54 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord peripheral devices
Phase N

Date of test: 04/03/2002 Operator: R. Heller

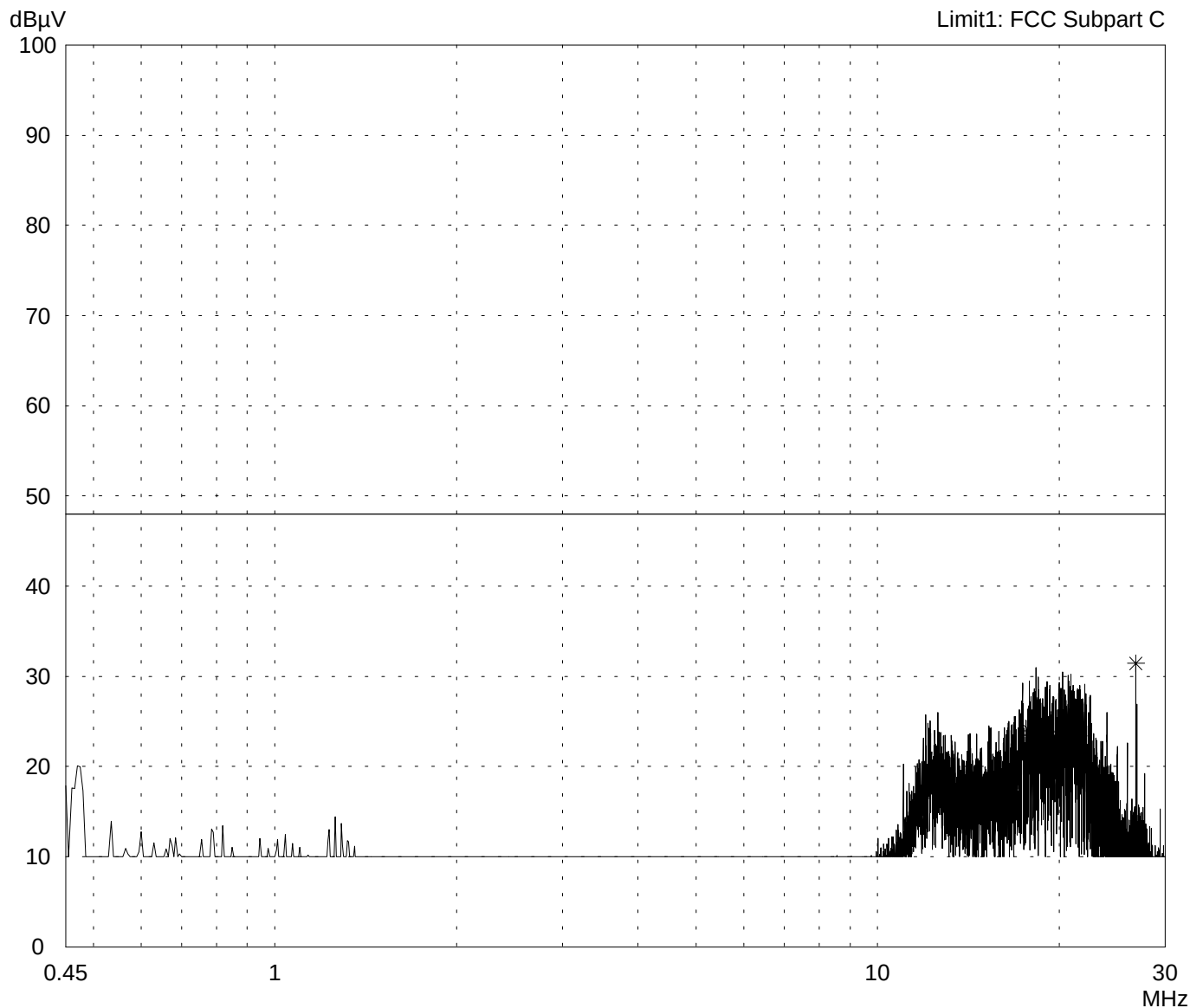
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S		Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - 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
Serial no.: 02UT06373519		
Applicant: Agere Systems Nederland B.V.		
Test site: Shielded room, cabin no. 1		
Tested on: Linecord peripheral devices Phase N		
Date of test: 04/03/2002	Operator: R. Heller	
Test performed: automatically	File name:	

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

[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 56 of 152 Pages
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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002
Operator: R. Heller

Test performed: automatically
File name:

Mode:

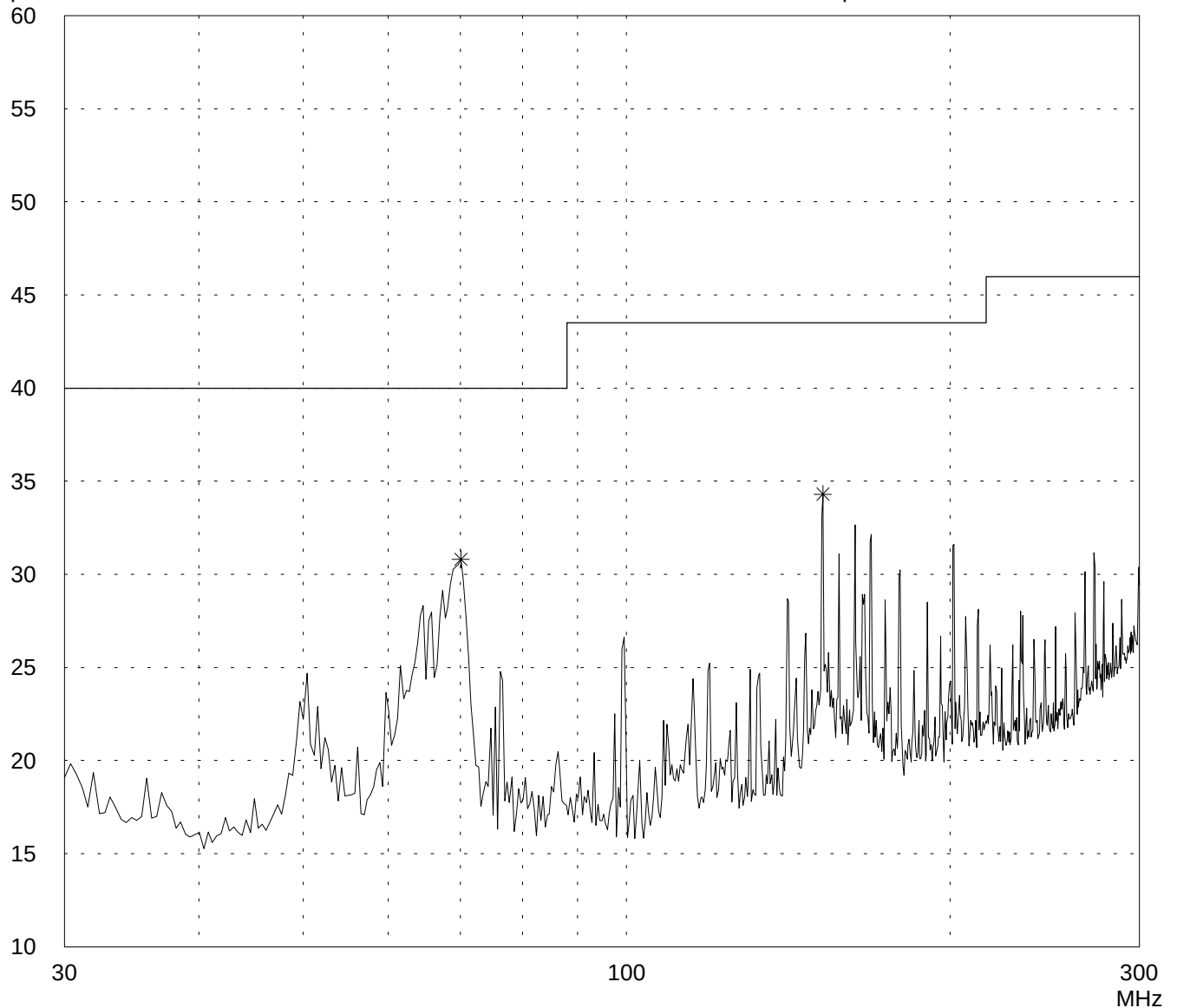
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator:
R. Heller

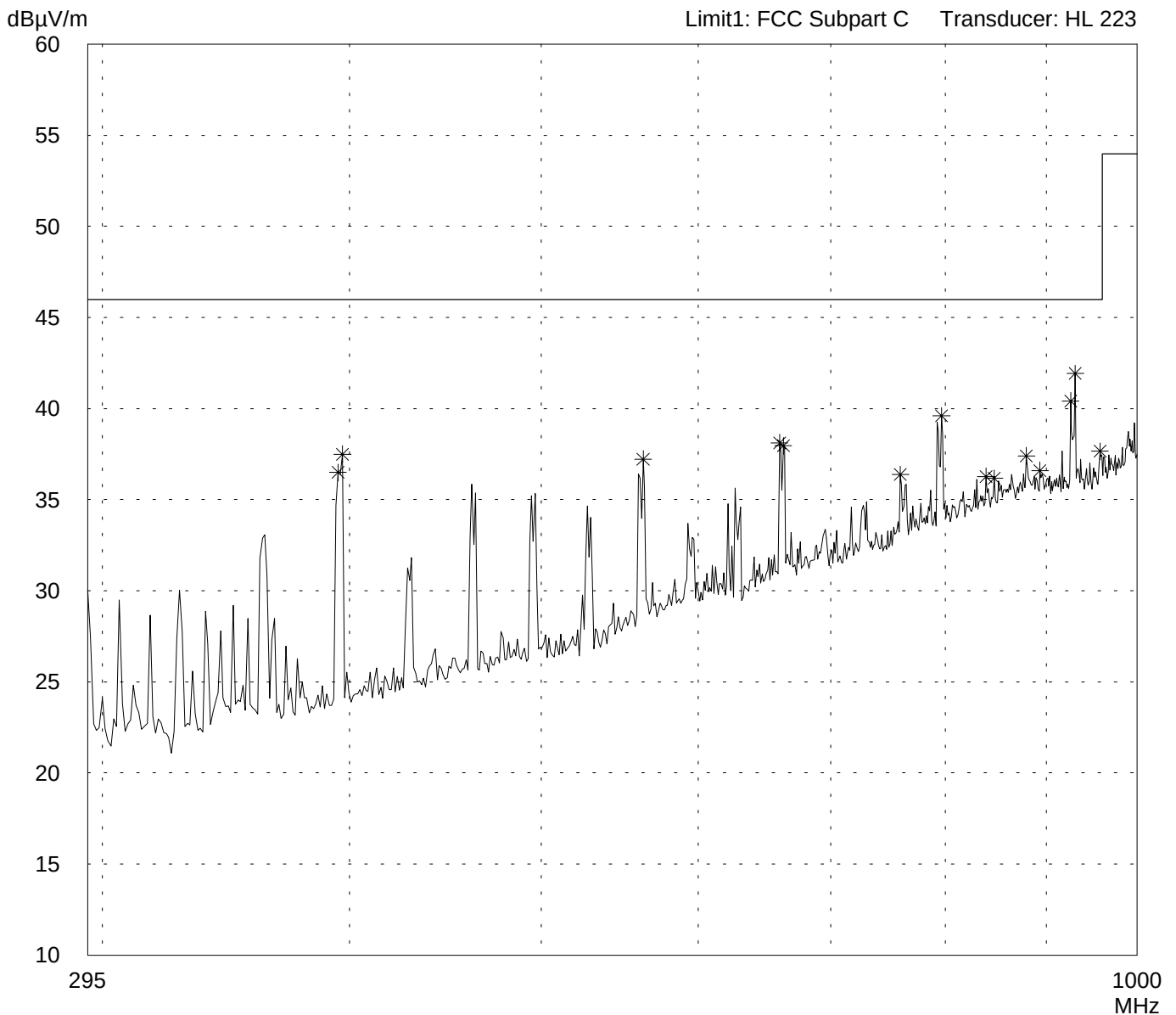
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- 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



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator: R. Heller

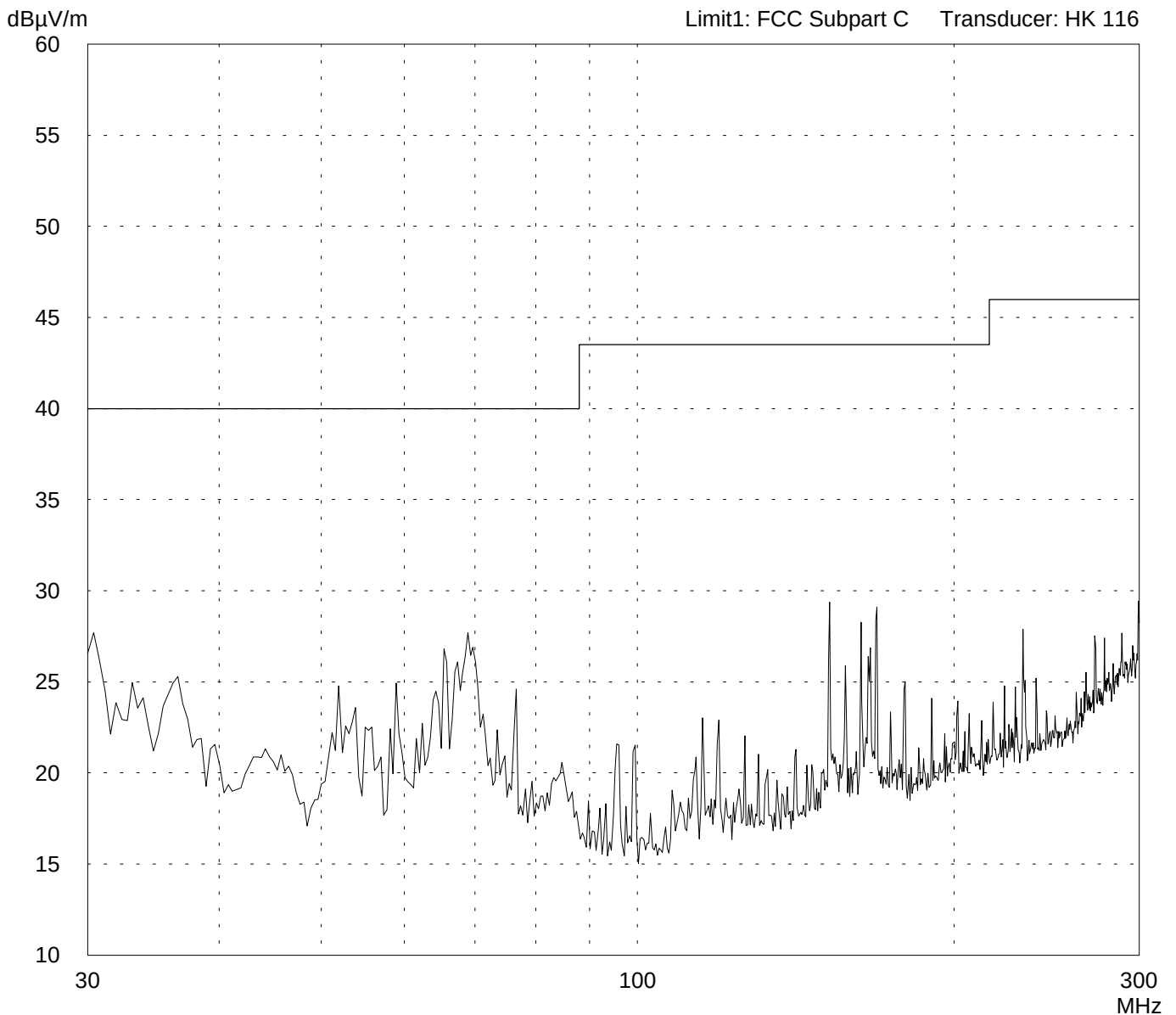
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- 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



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002
Operator: R. Heller

Test performed: automatically
File name:

Mode:

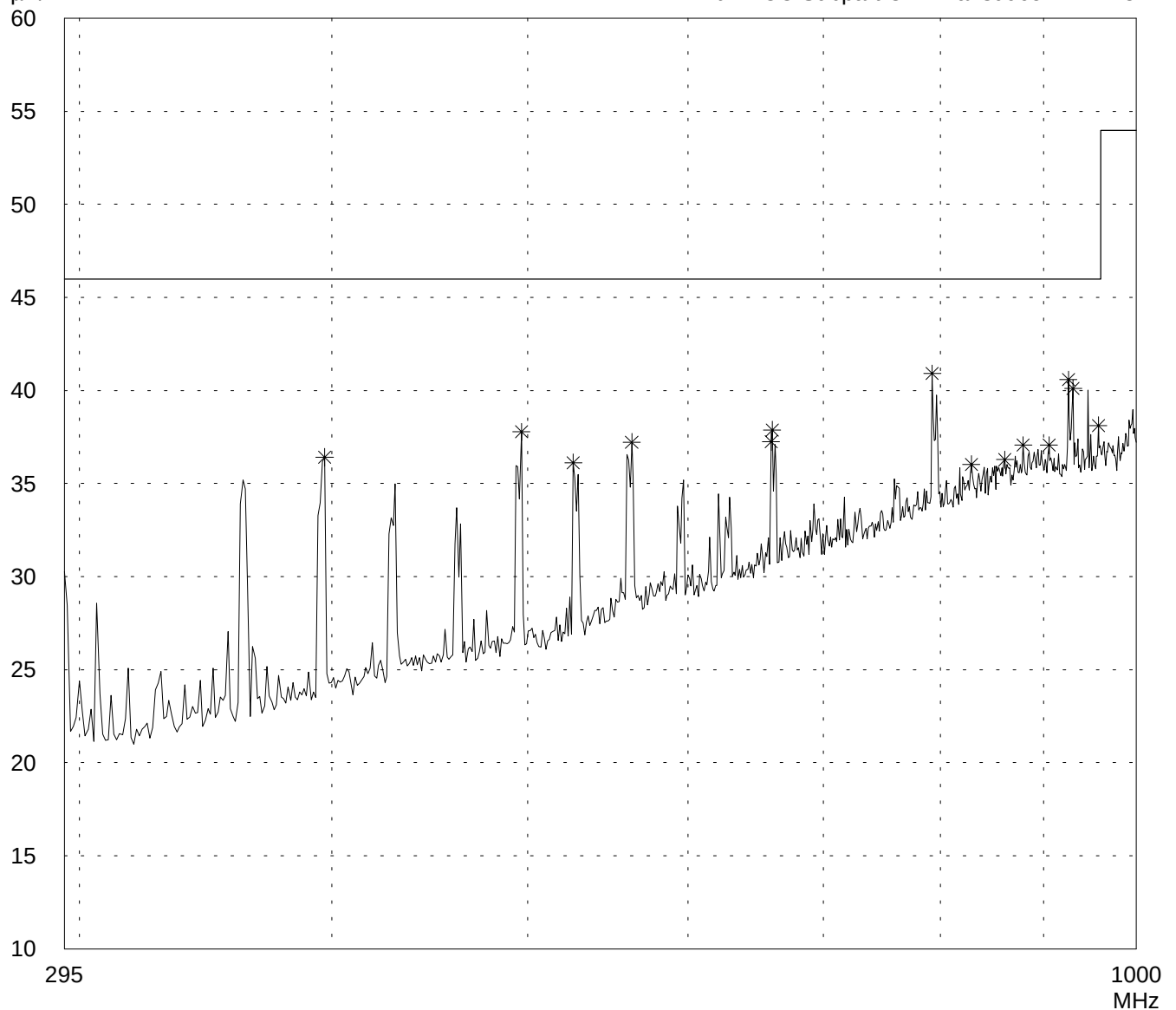
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

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

Limit1: FCC Subpart C Transducer: HL 223



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
03/28/2002

Operator:
R. Heller

Test performed:
by hand

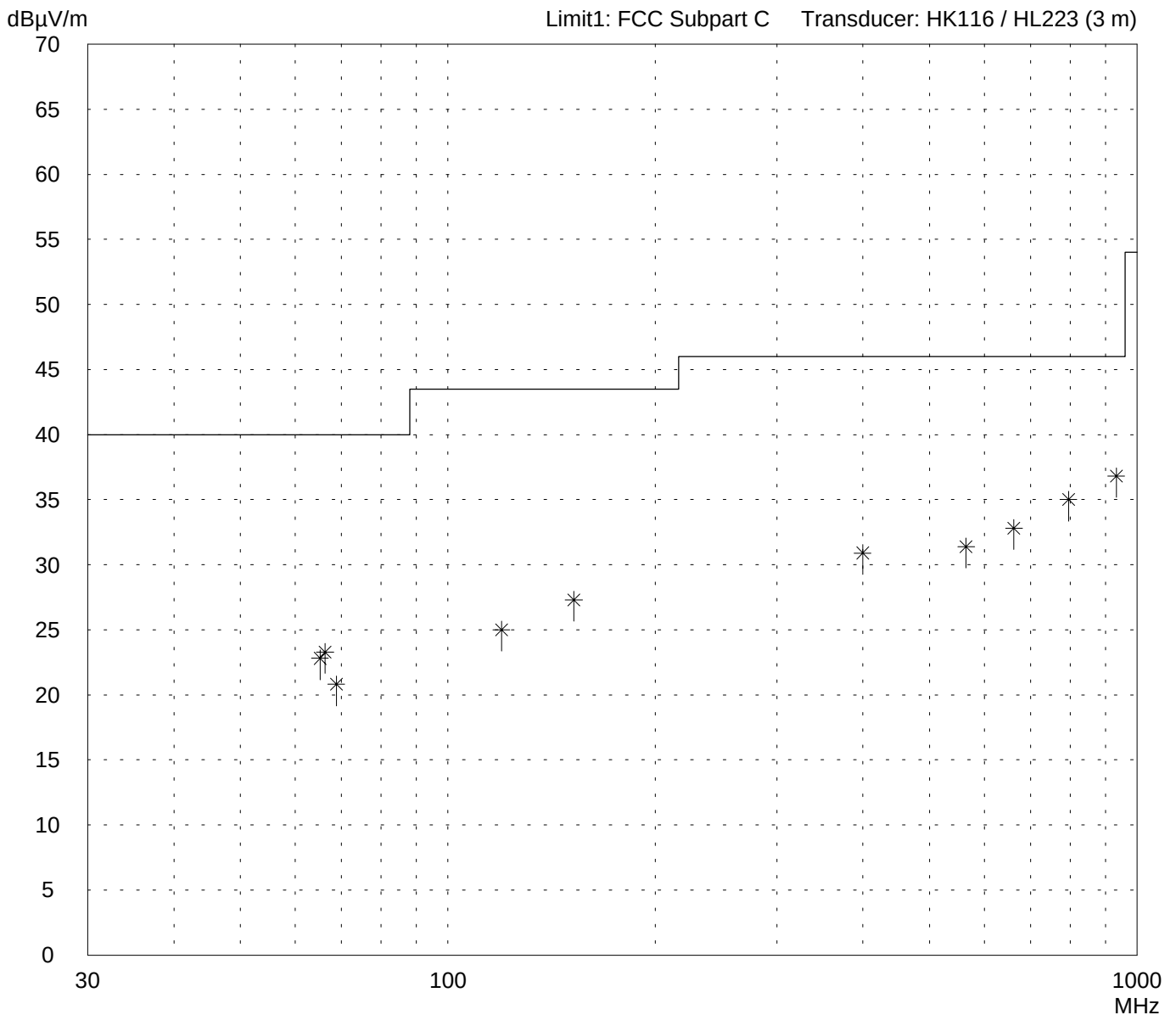
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 03/28/2002 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 Orinoco PCI-33W
- 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>
65.21	12.0	10.8	22.8	40.0	
66.31	12.5	10.8	23.3	40.0	
68.84	10.0	10.8	20.8	40.0	
119.55	10.5	14.5	25.0	43.5	
152.28	11.0	16.3	27.3	43.5	
399.61	8.5	22.4	30.9	46.0	
564.74	4.5	26.9	31.4	46.0	
662.76	3.0	29.8	32.8	46.0	
795.37	3.0	32.0	35.0	46.0	
932.78	2.5	34.3	36.8	46.0	

Result:
Limit kept

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test:
03/28/2002

Operator:
R. Heller

Test performed:
by hand

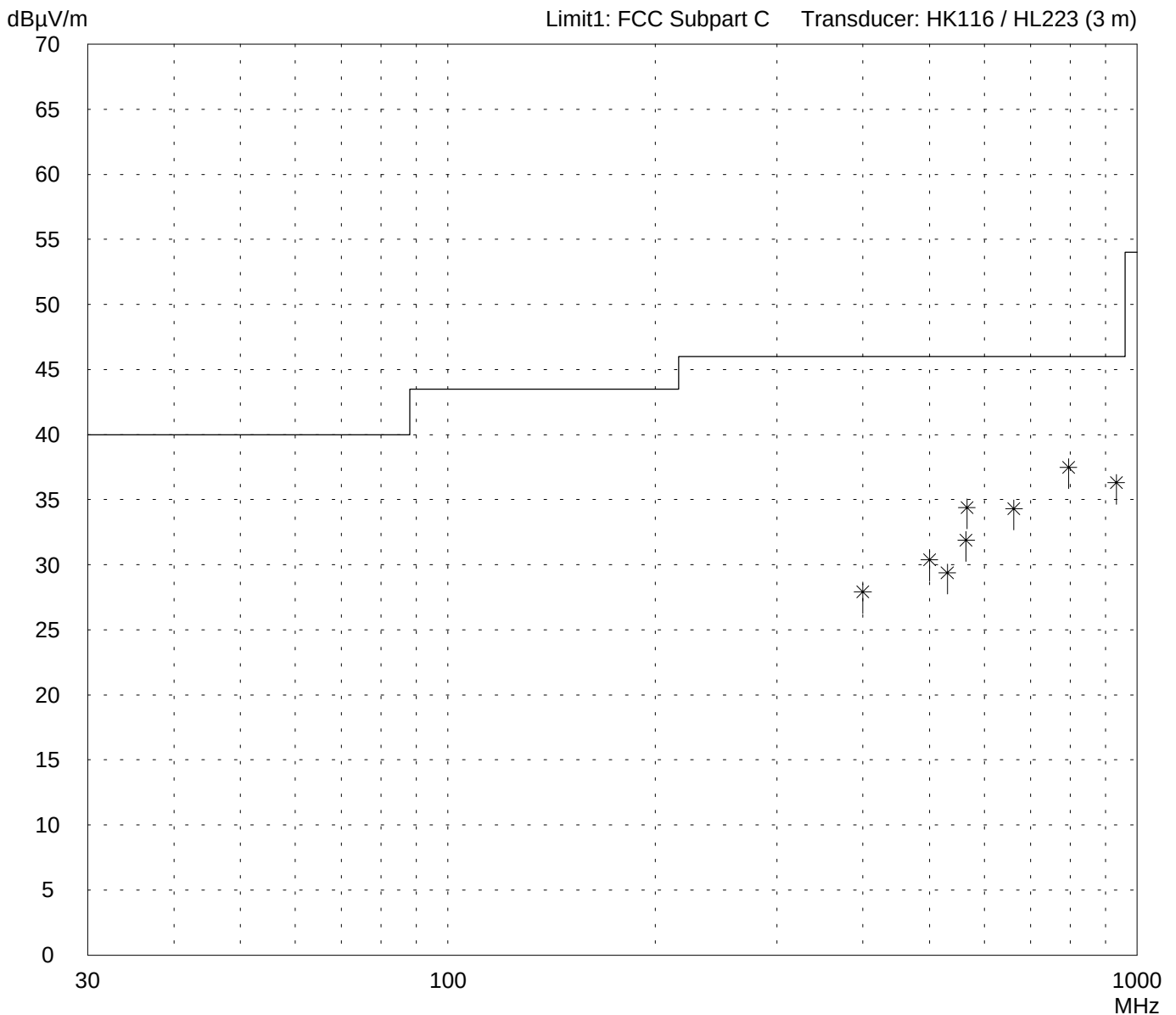
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W - 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
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 03/28/2002 Operator: R. Heller	
Test performed: by hand File name:	

Detector: Quasi-Peak	List of values: Selected by hand
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[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 64 of 152 Pages
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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator:
R. Heller

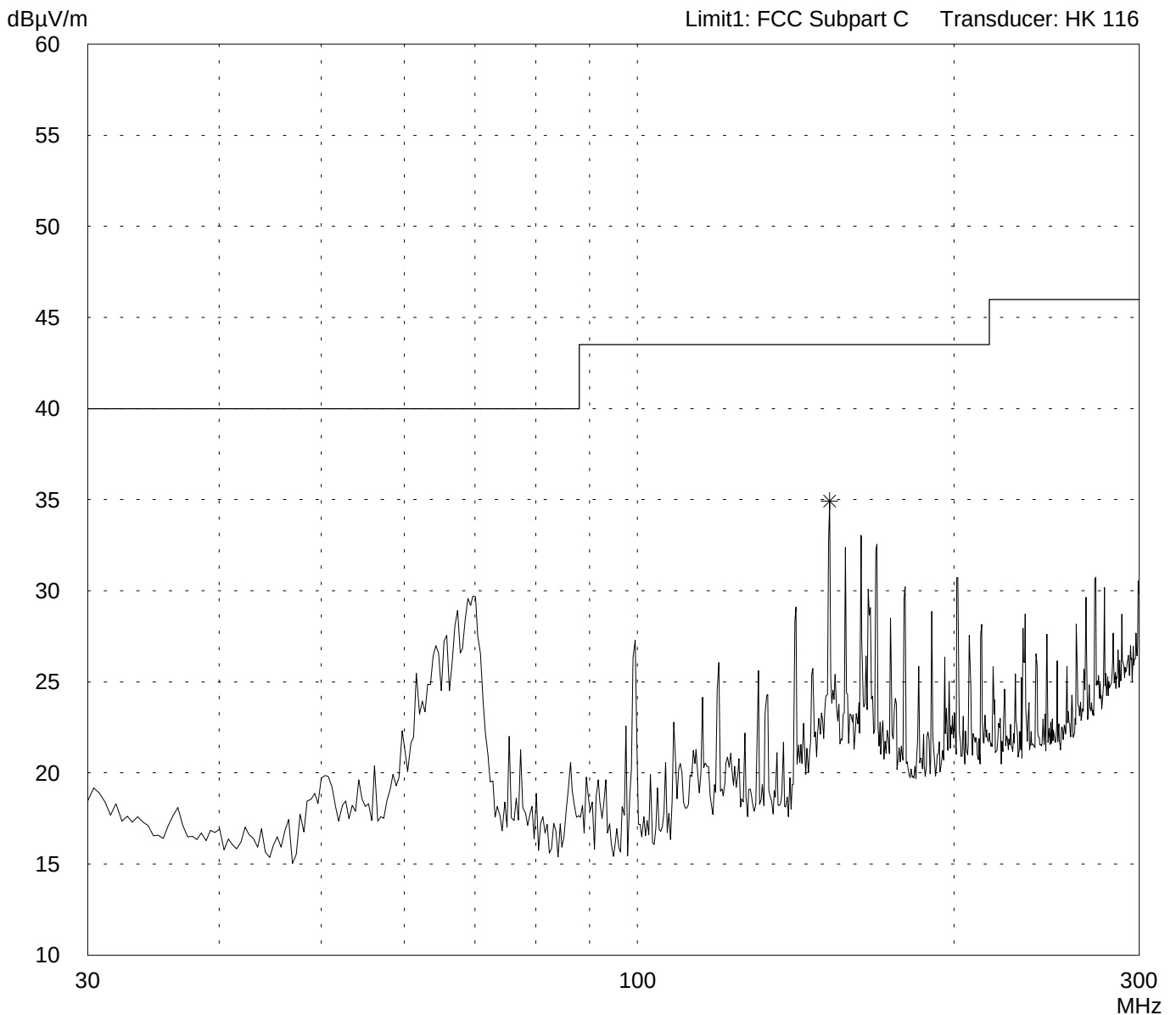
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- 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



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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:
03/22/2002

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 Orinoco PCI-33W
- 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

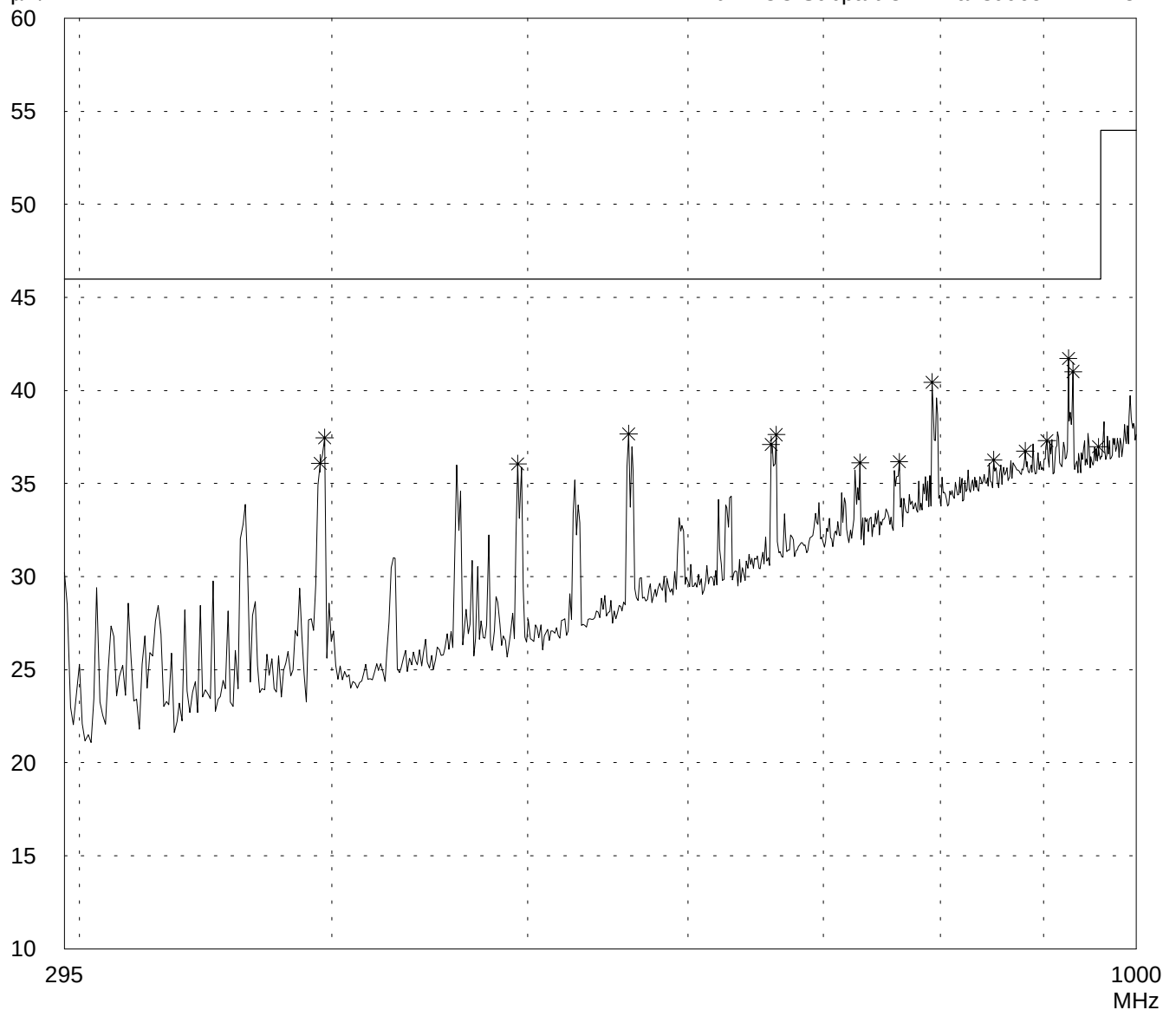
List of values:

10 dB Margin

50 Subranges

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

Limit1: FCC Subpart C Transducer: HL 223



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002
Operator: R. Heller

Test performed: automatically
File name:

Mode:

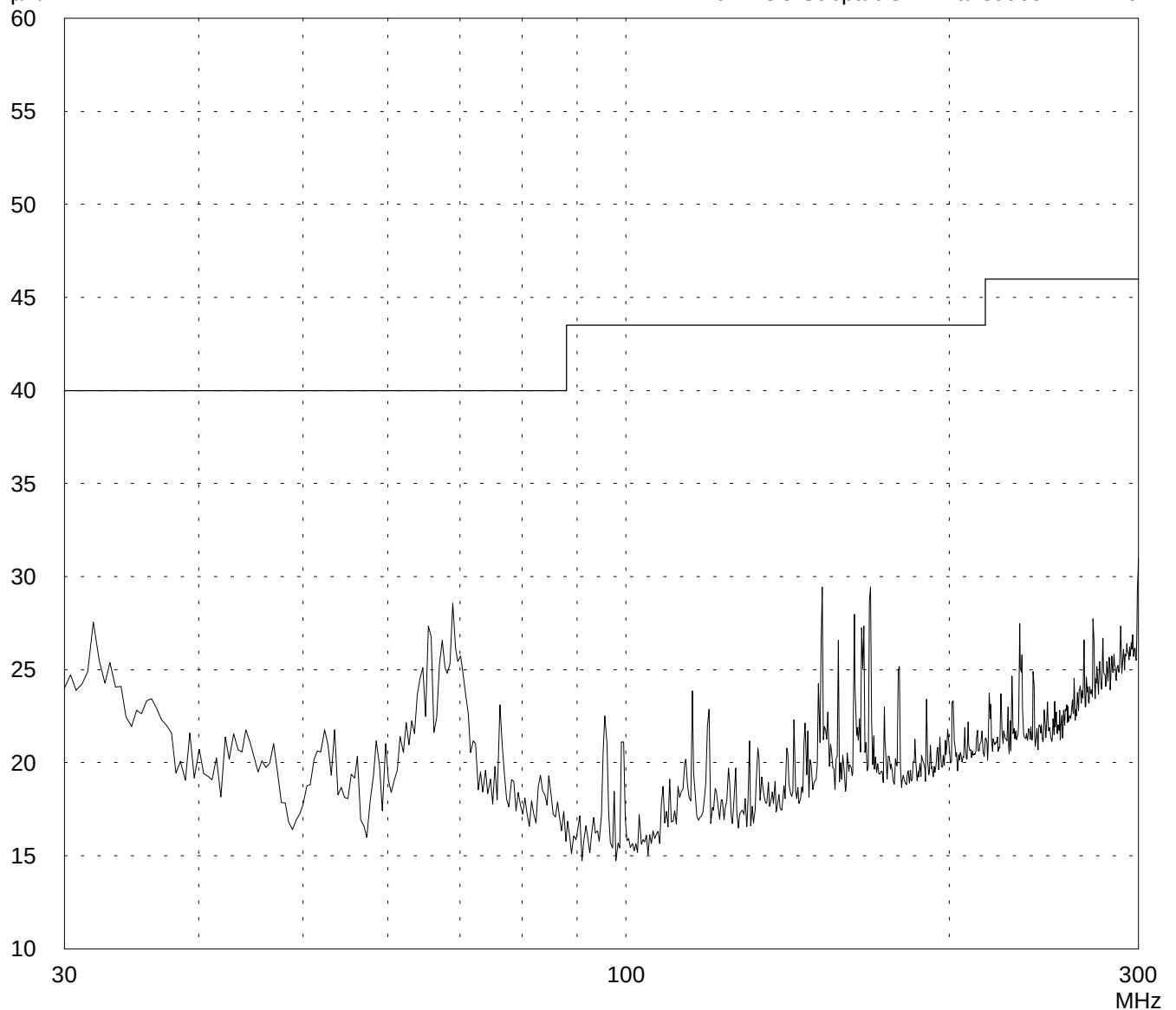
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

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

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002
Operator: R. Heller

Test performed: automatically
File name:

Mode:

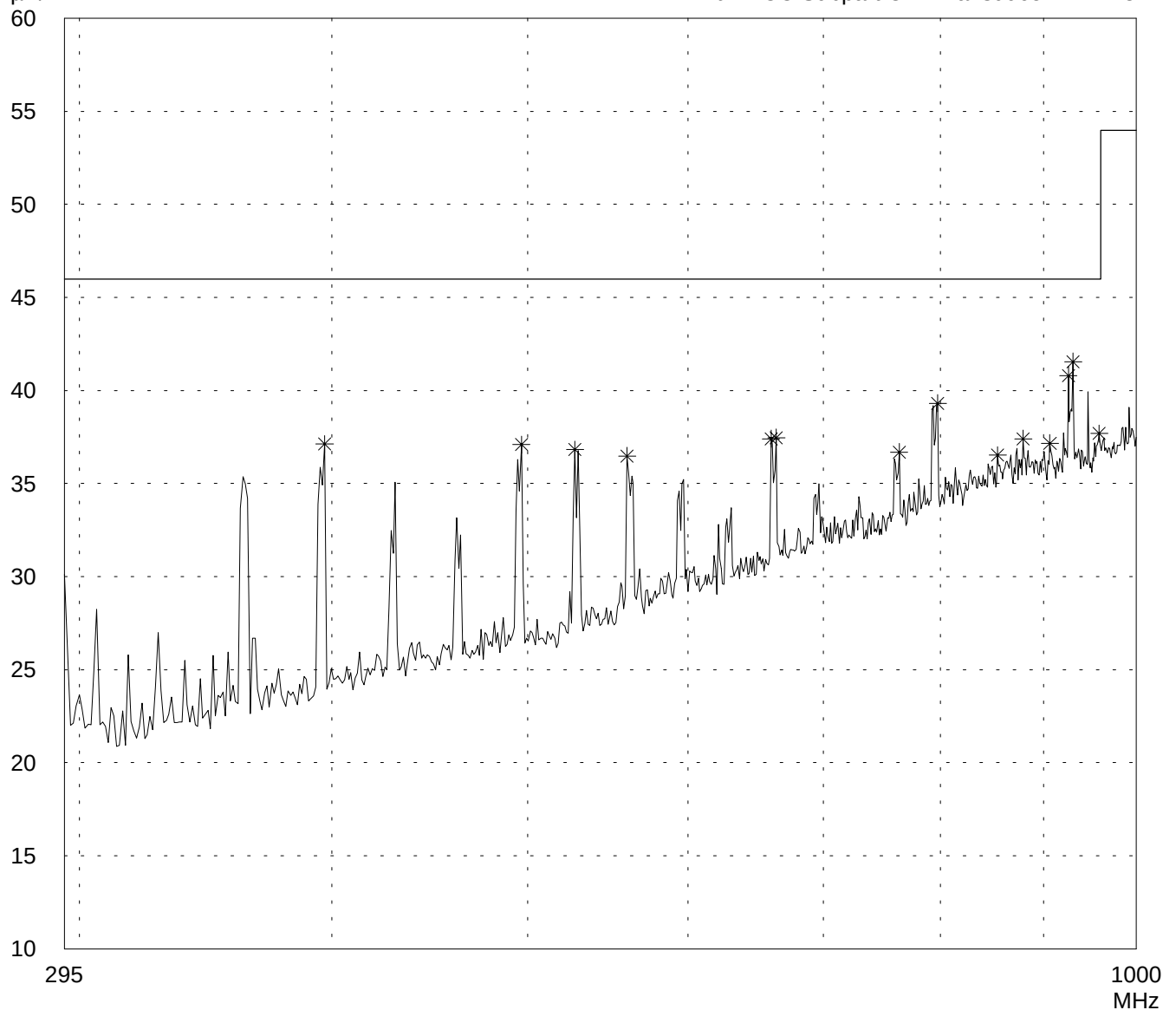
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 03/28/2002
Operator: R. Heller

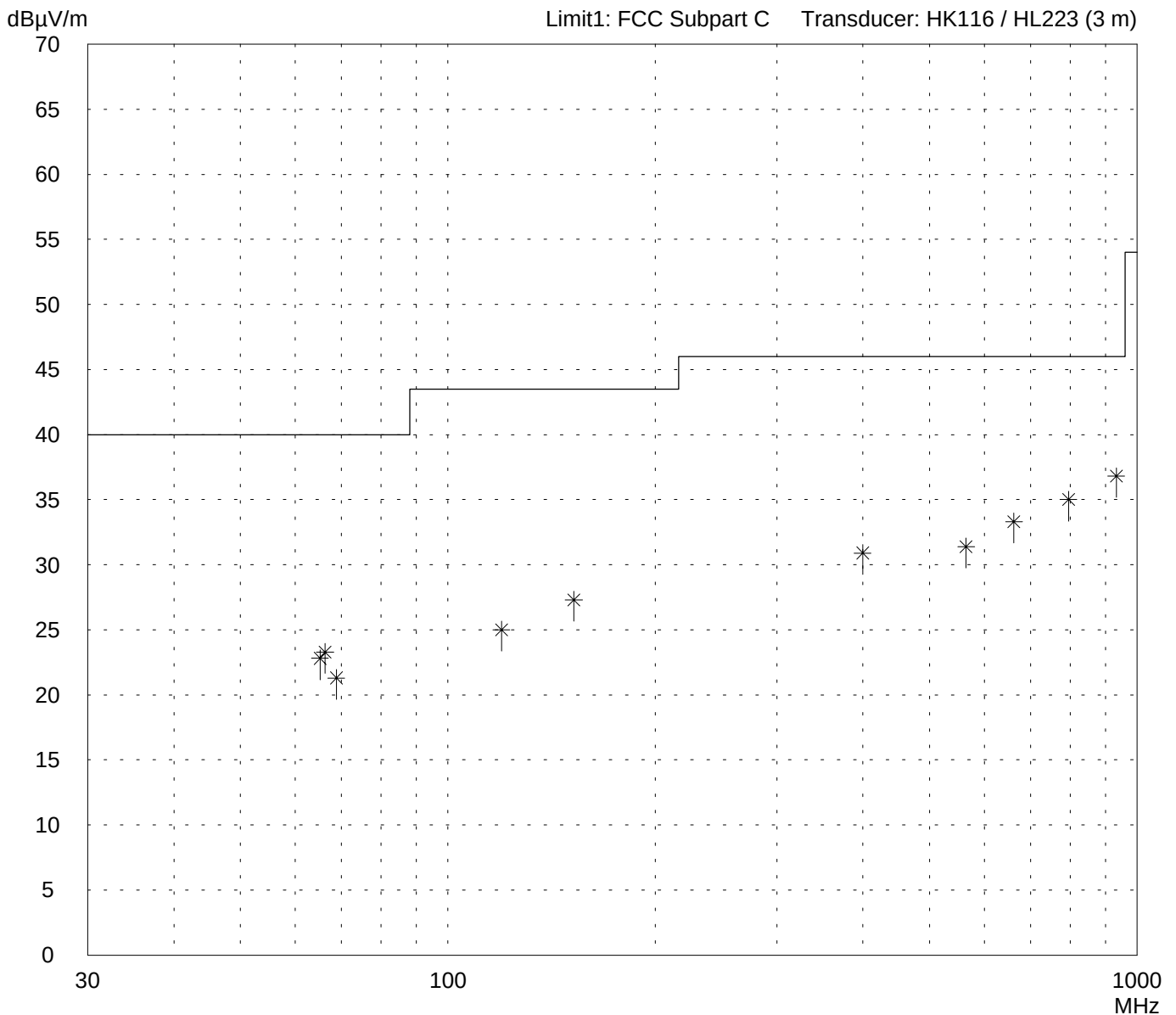
Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 03/28/2002 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 Orinoco PCI-33W
- 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>
65.21	12.0	10.8	22.8	40.0	
66.31	12.5	10.8	23.3	40.0	
68.84	10.5	10.8	21.3	40.0	
119.55	10.5	14.5	25.0	43.5	
152.28	11.0	16.3	27.3	43.5	
399.61	8.5	22.4	30.9	46.0	
564.74	4.5	26.9	31.4	46.0	
662.76	3.5	29.8	33.3	46.0	
795.37	3.0	32.0	35.0	46.0	
932.78	2.5	34.3	36.8	46.0	

Result:
Limit kept

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 03/28/2002
Operator: R. Heller

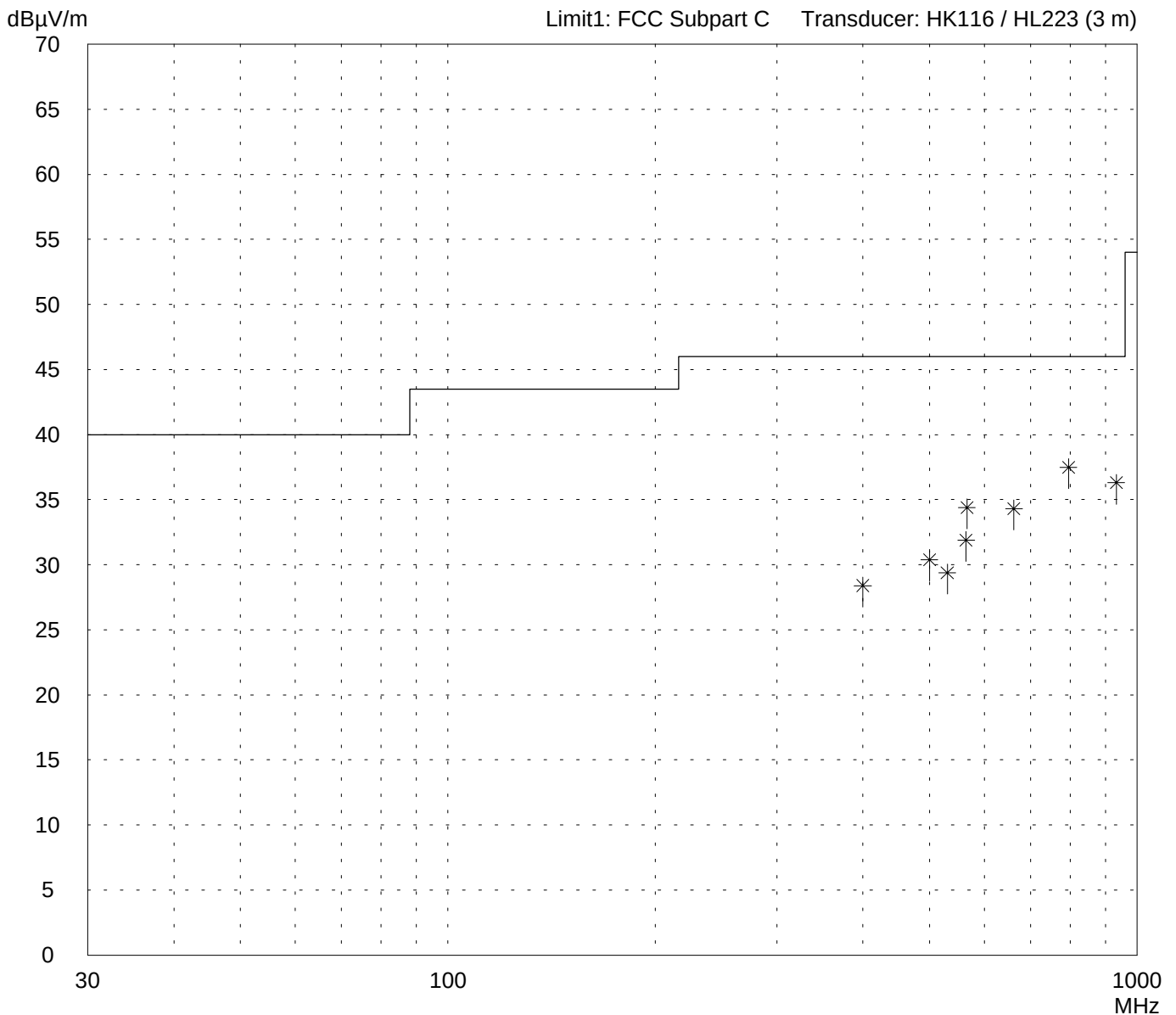
Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W - monitor switched off - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - TX mode with $f = 2.442 \text{ GHz}$
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 03/28/2002	
Test performed: by hand	File name:

Detector: Quasi-Peak	List of values: Selected by hand
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[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 72 of 152 Pages
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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator: R. Heller

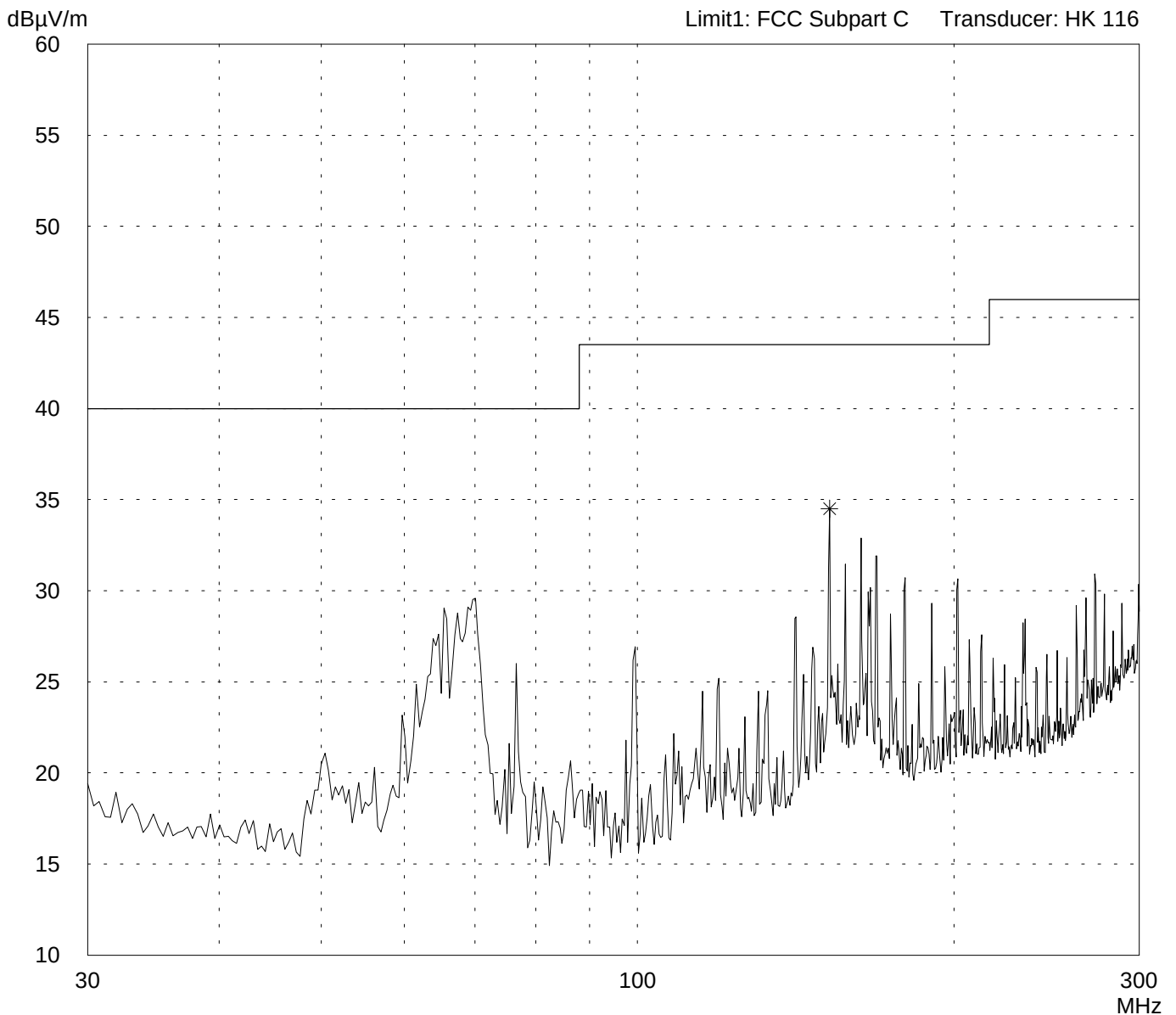
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- 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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator: R. Heller

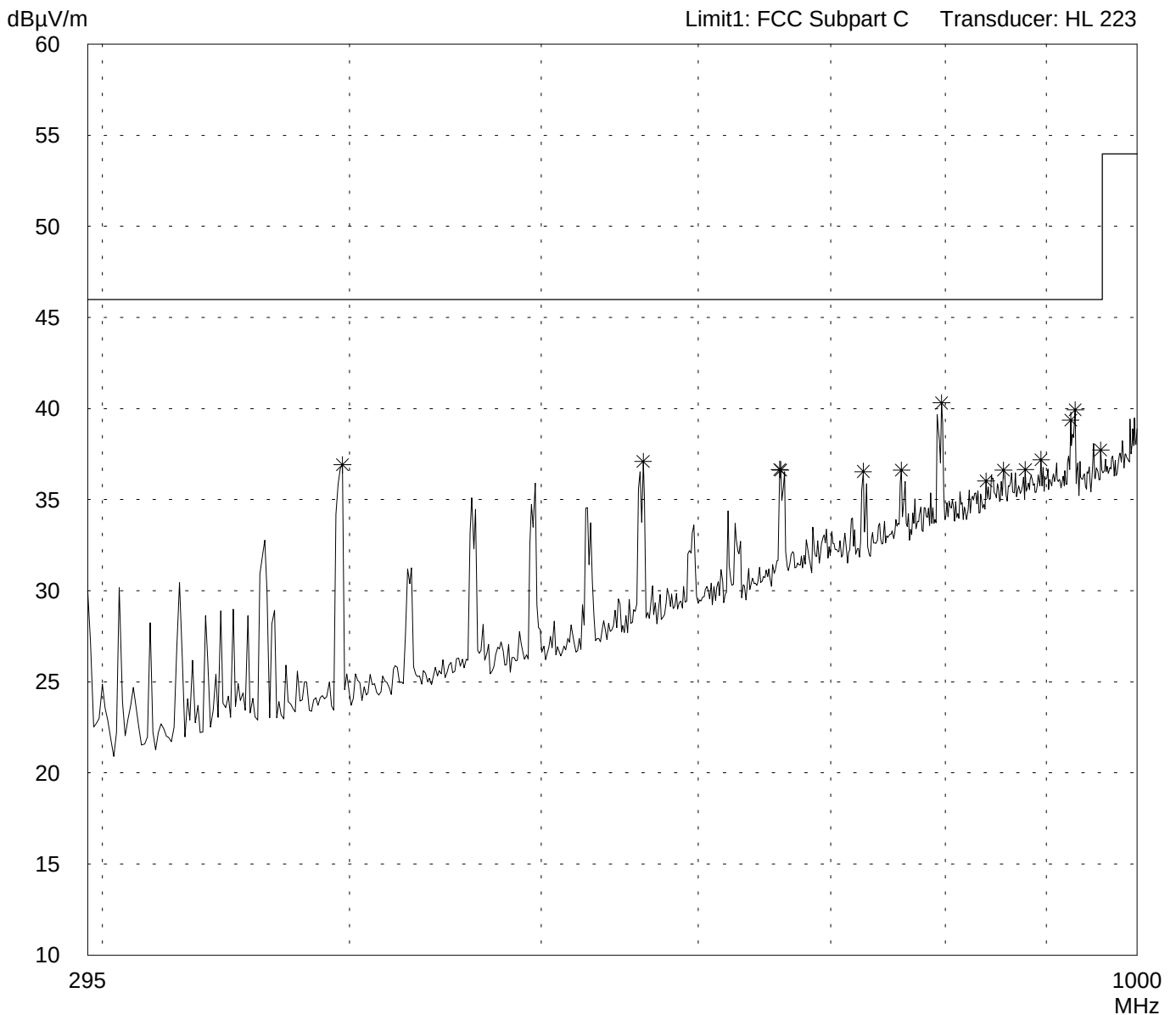
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- 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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002
Operator: R. Heller

Test performed: automatically
File name:

Mode:

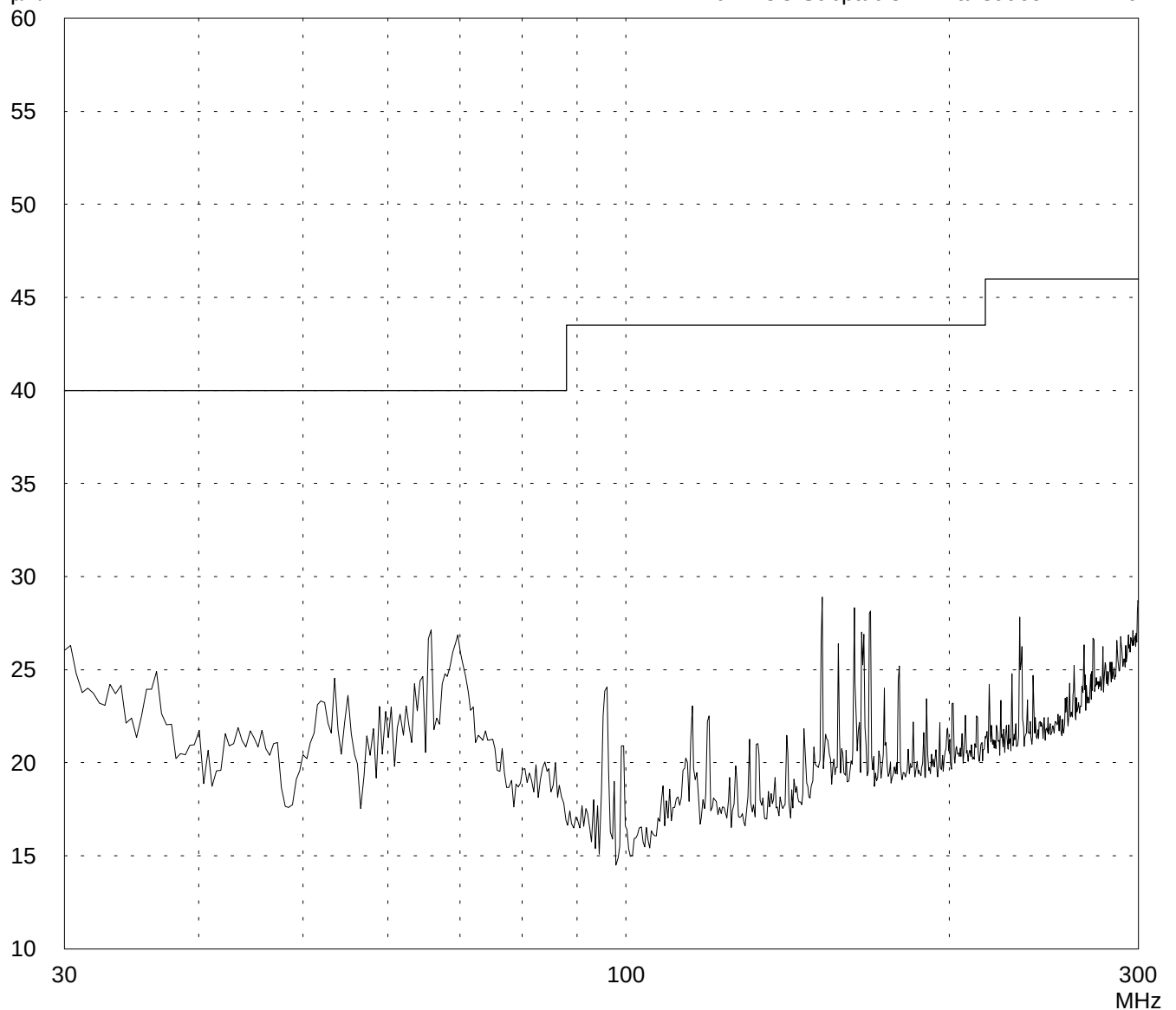
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

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

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator: R. Heller

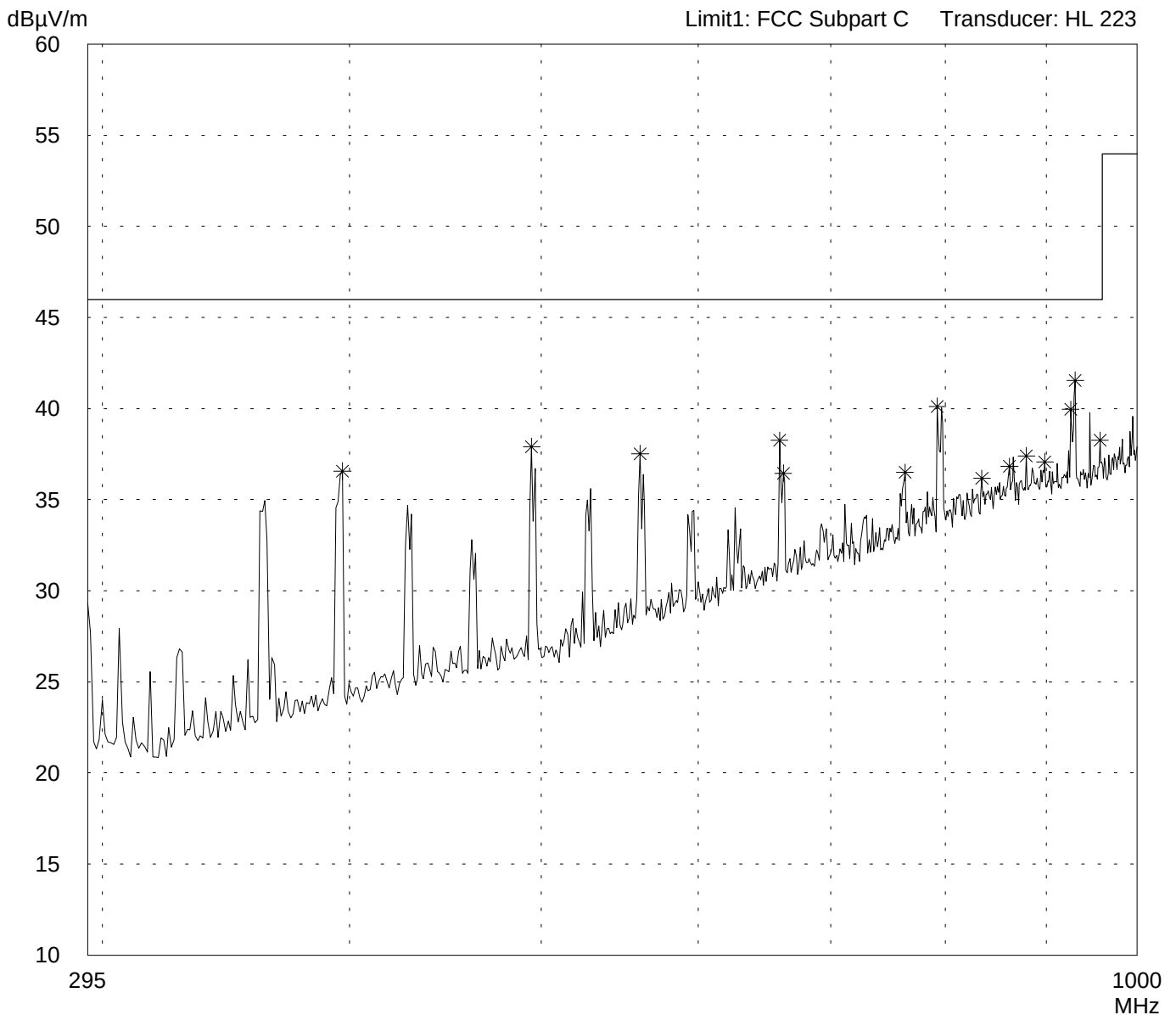
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 03/28/2002
Operator: R. Heller

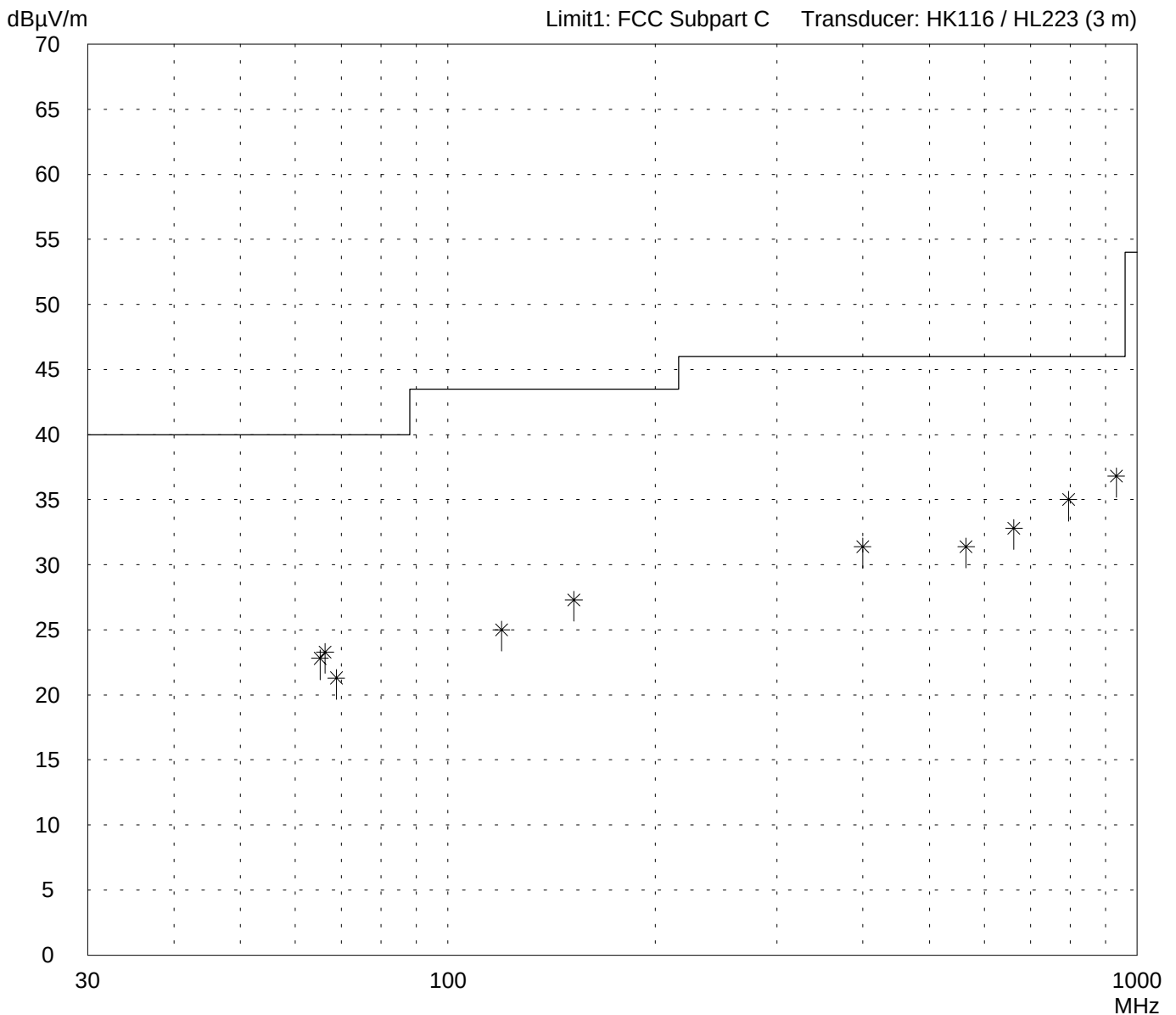
Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 03/28/2002 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 Orinoco PCI-33W
- 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>
65.21	12.0	10.8	22.8	40.0	
66.31	12.5	10.8	23.3	40.0	
68.84	10.5	10.8	21.3	40.0	
119.55	10.5	14.5	25.0	43.5	
152.28	11.0	16.3	27.3	43.5	
399.61	9.0	22.4	31.4	46.0	
564.74	4.5	26.9	31.4	46.0	
662.76	3.0	29.8	32.8	46.0	
795.37	3.0	32.0	35.0	46.0	
932.78	2.5	34.3	36.8	46.0	

Result:
Limit kept

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 03/28/2002
Operator: R. Heller

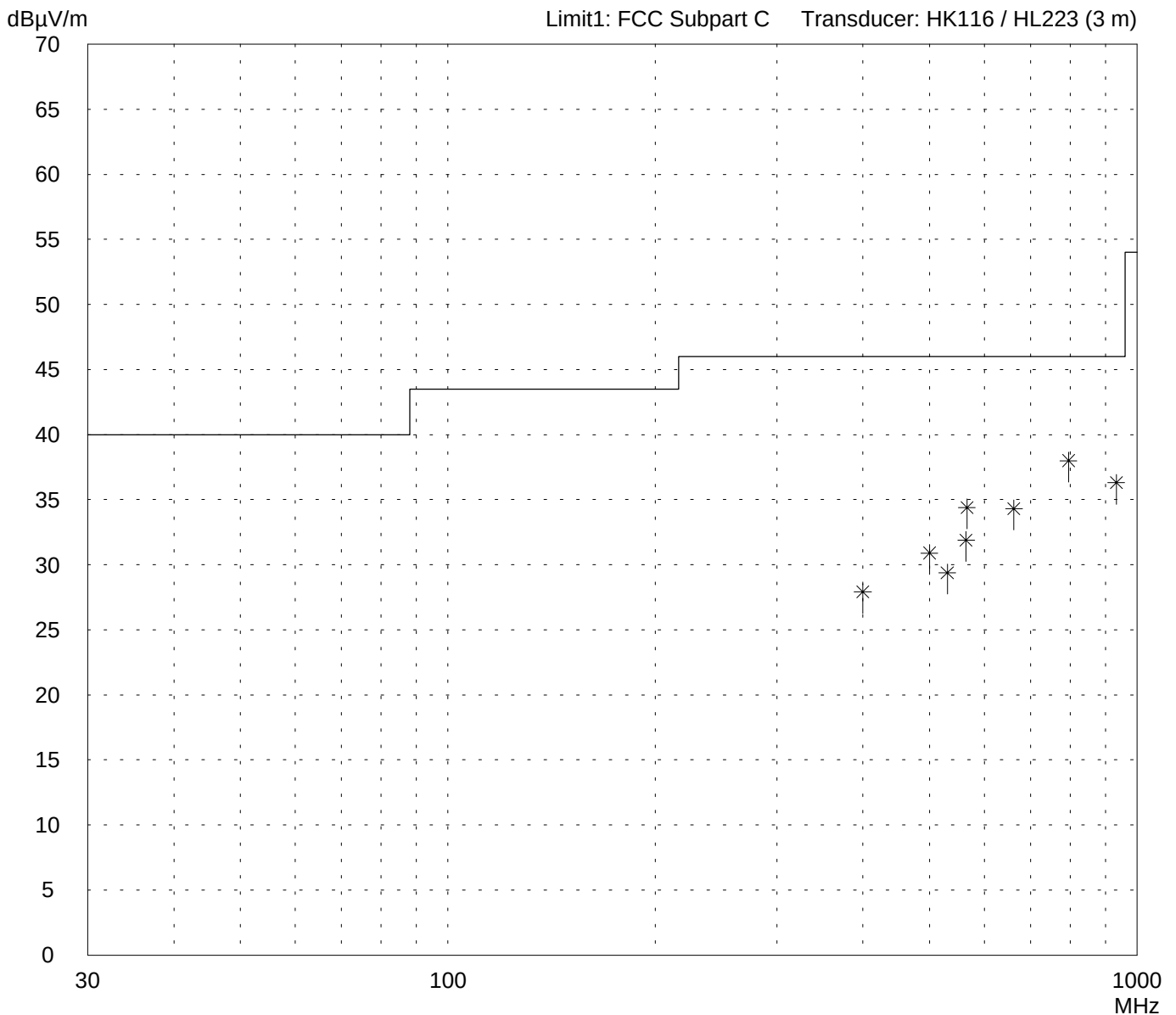
Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W - 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
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 03/28/2002 Operator: R. Heller	
Test performed: by hand File name:	

Detector: Quasi-Peak	List of values: Selected by hand
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[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 80 of 152 Pages
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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna
mounted on left side of PC
- 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]
2.3900	vertical	33.7	0.6	20.7	55.0	74
2.3965	vertical	52.5	0.6	20.7	73.8	NRB
2.3998	vertical	55.2	0.6	20.7	76.5	NRB
2.4000	vertical	54.0	0.6	20.7	75.3	NRB
2.4137	vertical	88.2	0.6	20.7	109.5	OB
2.4288	vertical	51.4	0.6	20.7	72.8	OB
2.7890	vertical	20.7	0.7	23.7	45.1	74
4.8303	horizontal	16.7	0.9	27.3	44.9	74
7.2417	vertical	9.7	1.1	29.9	40.7	NRB
9.6467	vertical	8.1	1.3	33.4	42.7	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 109.5 dB μ V/m.

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

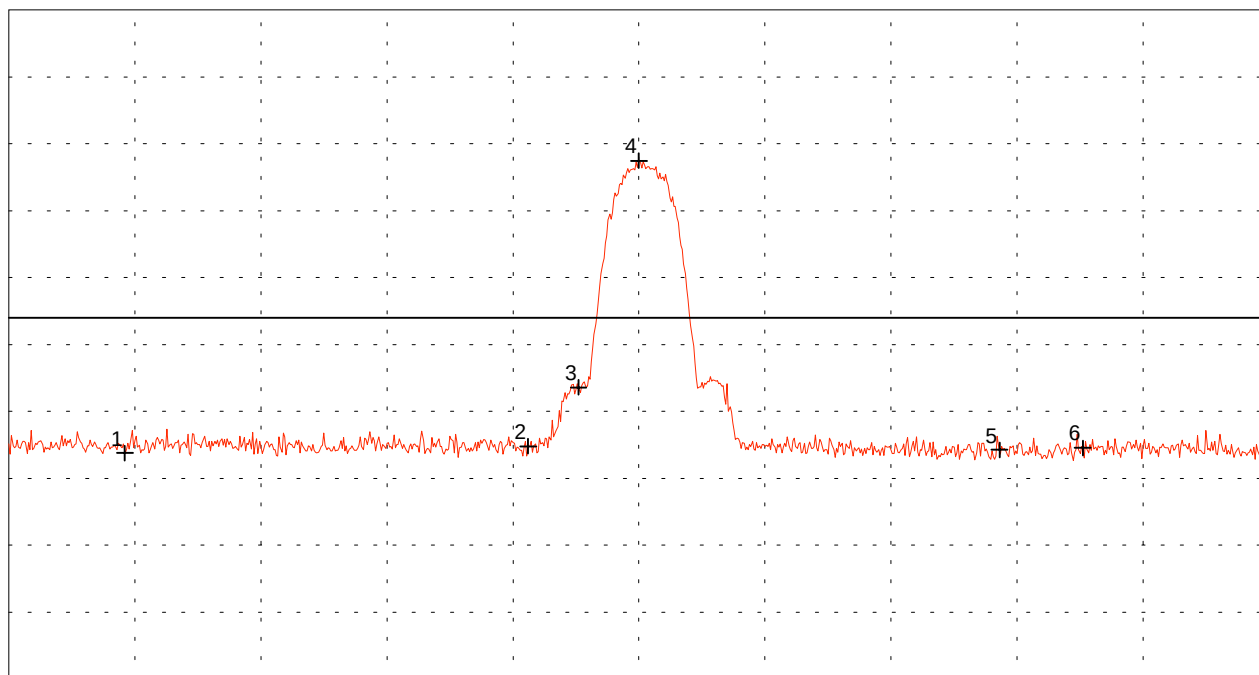
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	53.76 dB μ V/m
No. 2	2.390000 GHz	54.77 dB μ V/m
No. 3	2.400000 GHz	63.59 dB μ V/m
No. 4	2.412000 GHz	97.46 dB μ V/m
No. 5	2.483500 GHz	54.24 dB μ V/m
No. 6	2.500000 GHz	54.55 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

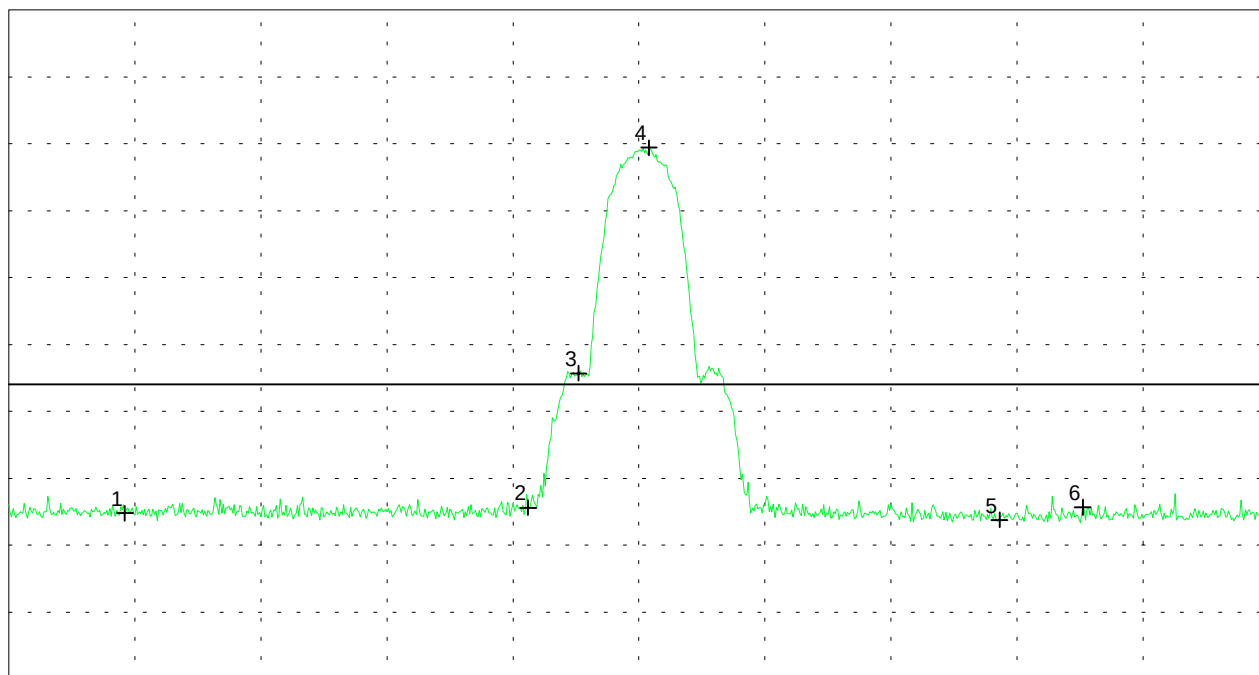
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	54.77 dB μ V/m
No. 2	2.390000 GHz	55.61 dB μ V/m
No. 3	2.400000 GHz	75.70 dB μ V/m
No. 4	2.413944 GHz	109.42 dB μ V/m
No. 5	2.483500 GHz	53.76 dB μ V/m
No. 6	2.500000 GHz	55.66 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

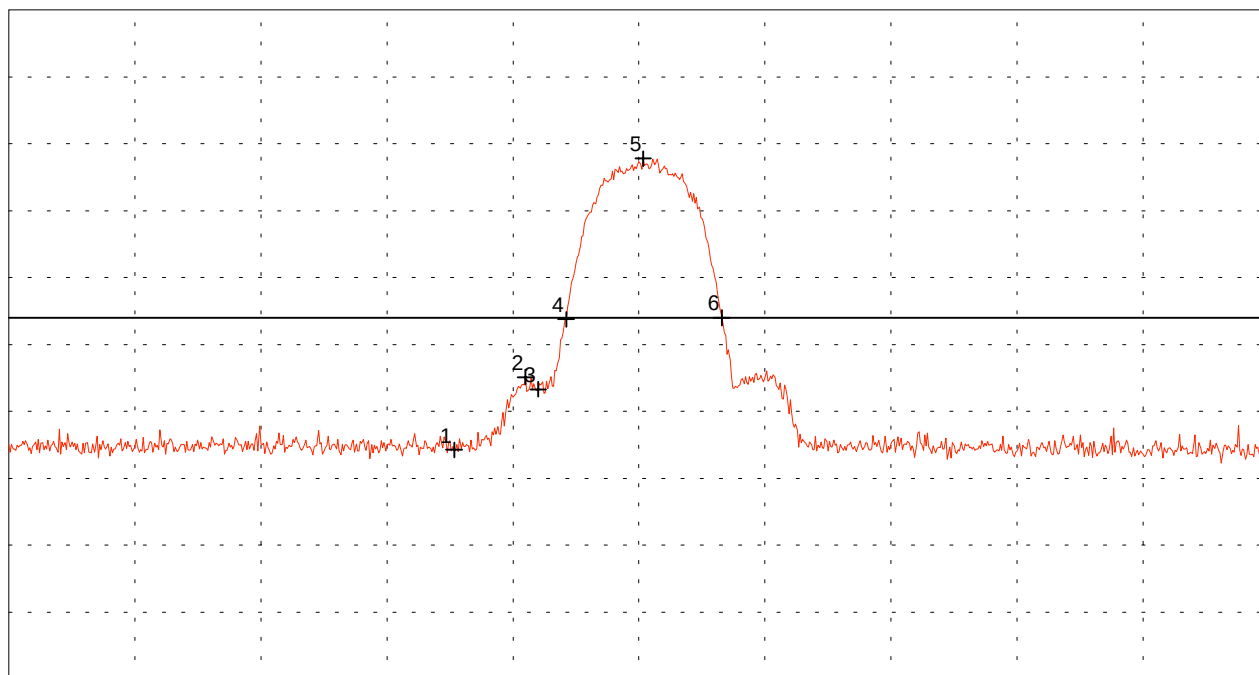
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	54.24 dB μ V/m
No. 2	2.398500 GHz	65.11 dB μ V/m
No. 3	2.400000 GHz	63.31 dB μ V/m
No. 4	2.403333 GHz	73.77 dB μ V/m
No. 5	2.412500 GHz	97.77 dB μ V/m
No. 6	2.421833 GHz	73.97 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

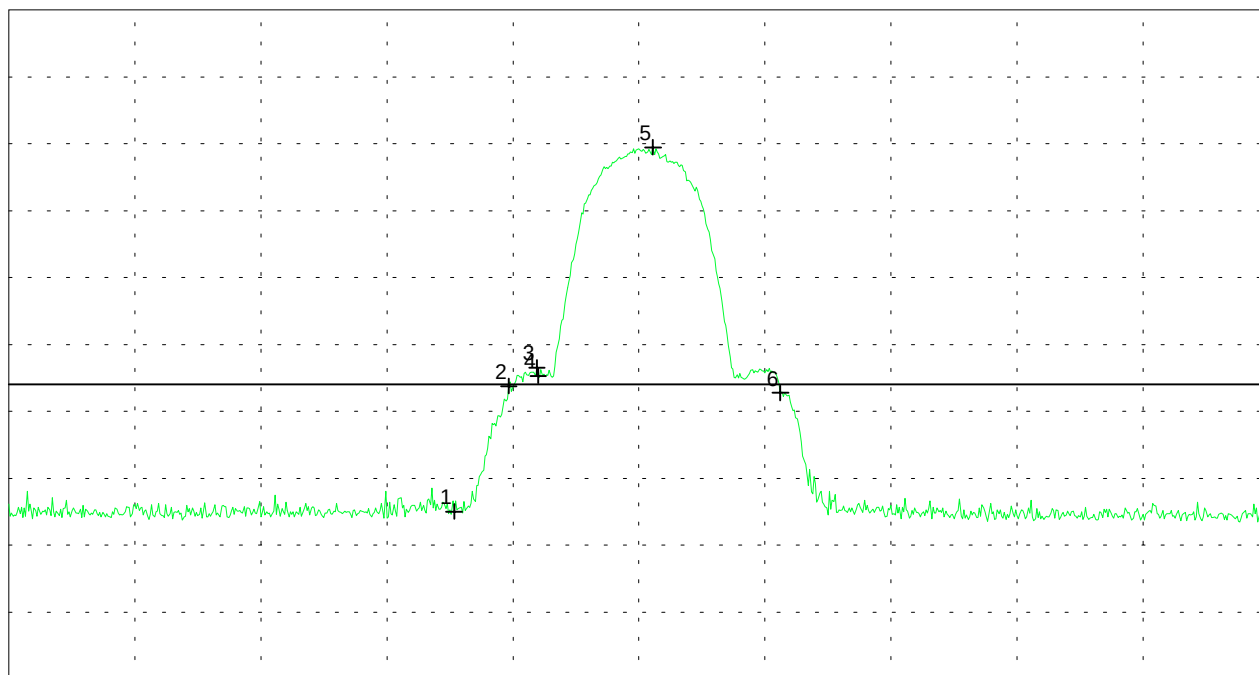
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	55.03 dB μ V/m
No. 2	2.396500 GHz	73.77 dB μ V/m
No. 3	2.399833 GHz	76.53 dB μ V/m
No. 4	2.400000 GHz	75.31 dB μ V/m
No. 5	2.413667 GHz	109.47 dB μ V/m
No. 6	2.428833 GHz	72.75 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna
mounted on left side of PC
- 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]
1.3337	vertical	< 17.4	0.5	26.5	< 44.4	54
2.3900	vertical	23.8	0.6	20.7	45.1	54
2.3938	vertical	32.4	0.6	20.7	53.7	NRB
2.3988	vertical	46.9	0.6	20.7	68.2	NRB
2.4000	vertical	46.0	0.6	20.7	67.3	NRB
2.4118	vertical	81.7	0.6	20.7	103.1	OB
2.4308	vertical	31.8	0.6	20.7	53.2	OB
4.8241	vertical	14.3	0.9	27.3	42.5	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 103.1 dB μ V/m.

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

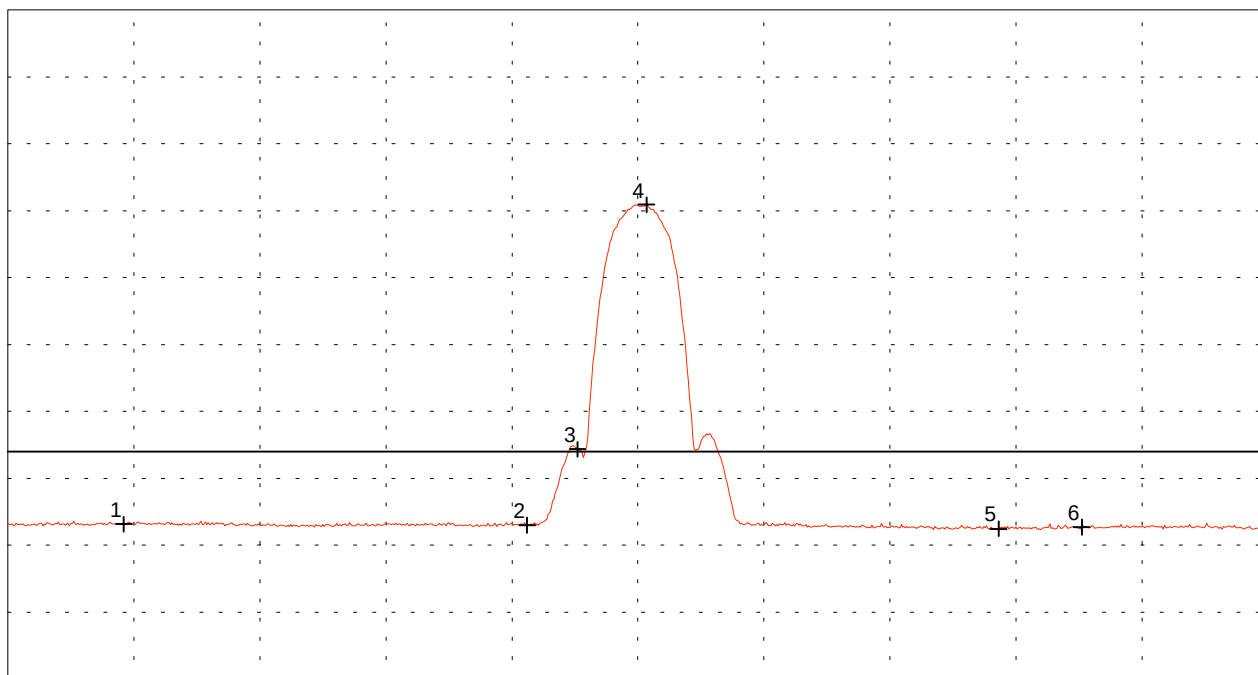
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	43.14 dB μ V/m
No. 2	2.390000 GHz	42.99 dB μ V/m
No. 3	2.400000 GHz	54.34 dB μ V/m
No. 4	2.413667 GHz	90.88 dB μ V/m
No. 5	2.483500 GHz	42.46 dB μ V/m
No. 6	2.500000 GHz	42.69 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

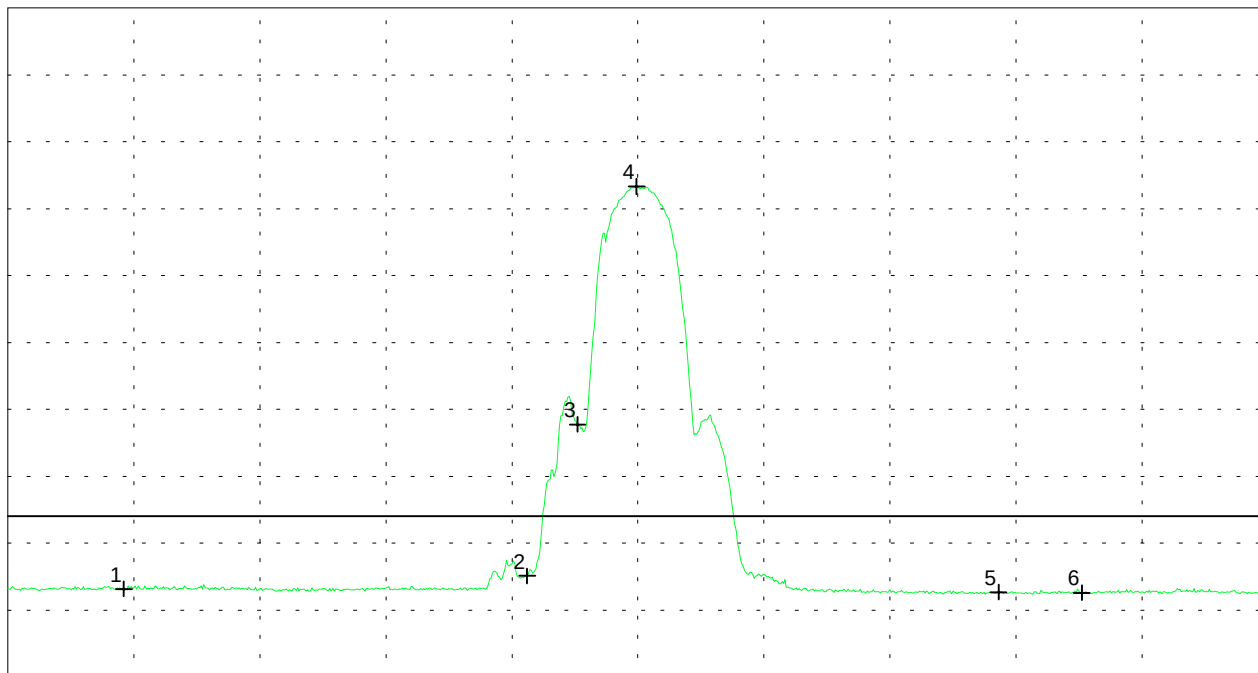
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	43.17 dB μ V/m
No. 2	2.390000 GHz	45.12 dB μ V/m
No. 3	2.400000 GHz	67.75 dB μ V/m
No. 4	2.411722 GHz	103.33 dB μ V/m
No. 5	2.483500 GHz	42.69 dB μ V/m
No. 6	2.500000 GHz	42.58 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

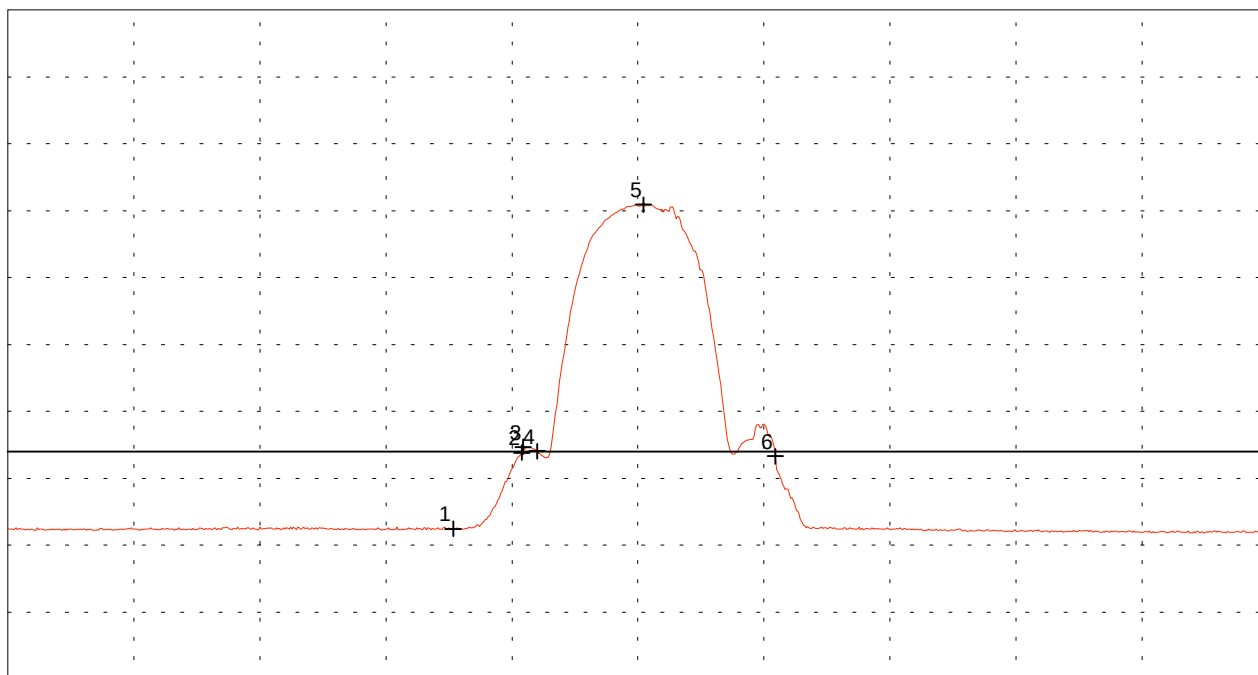
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	42.43 dB μ V/m
No. 2	2.398167 GHz	53.83 dB μ V/m
No. 3	2.398333 GHz	54.67 dB μ V/m
No. 4	2.400000 GHz	54.06 dB μ V/m
No. 5	2.412667 GHz	90.91 dB μ V/m
No. 6	2.428333 GHz	53.30 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

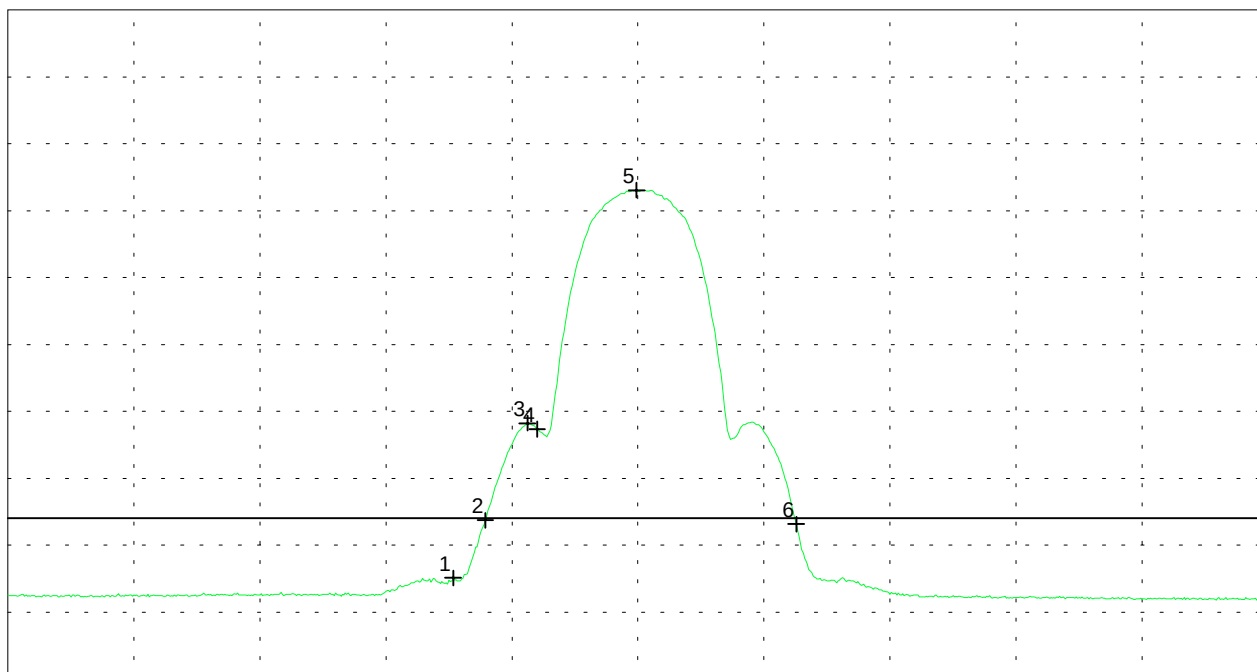
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	45.12 dB μ V/m
No. 2	2.393833 GHz	53.73 dB μ V/m
No. 3	2.398833 GHz	68.21 dB μ V/m
No. 4	2.400000 GHz	67.34 dB μ V/m
No. 5	2.411833 GHz	103.05 dB μ V/m
No. 6	2.430833 GHz	53.15 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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	35.1	0.6	20.7	56.4	74
2.3972	vertical	52.2	0.6	20.7	73.5	NRB
2.3987	vertical	53.7	0.6	20.7	75.0	NRB
2.4000	vertical	52.8	0.6	20.7	74.1	NRB
2.4127	vertical	86.1	0.6	20.7	107.4	OB
2.4282	vertical	52.5	0.6	20.7	73.8	OB
4.8239	horizontal	18.7	0.9	27.3	46.9	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 107.4 dB μ V/m.

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

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

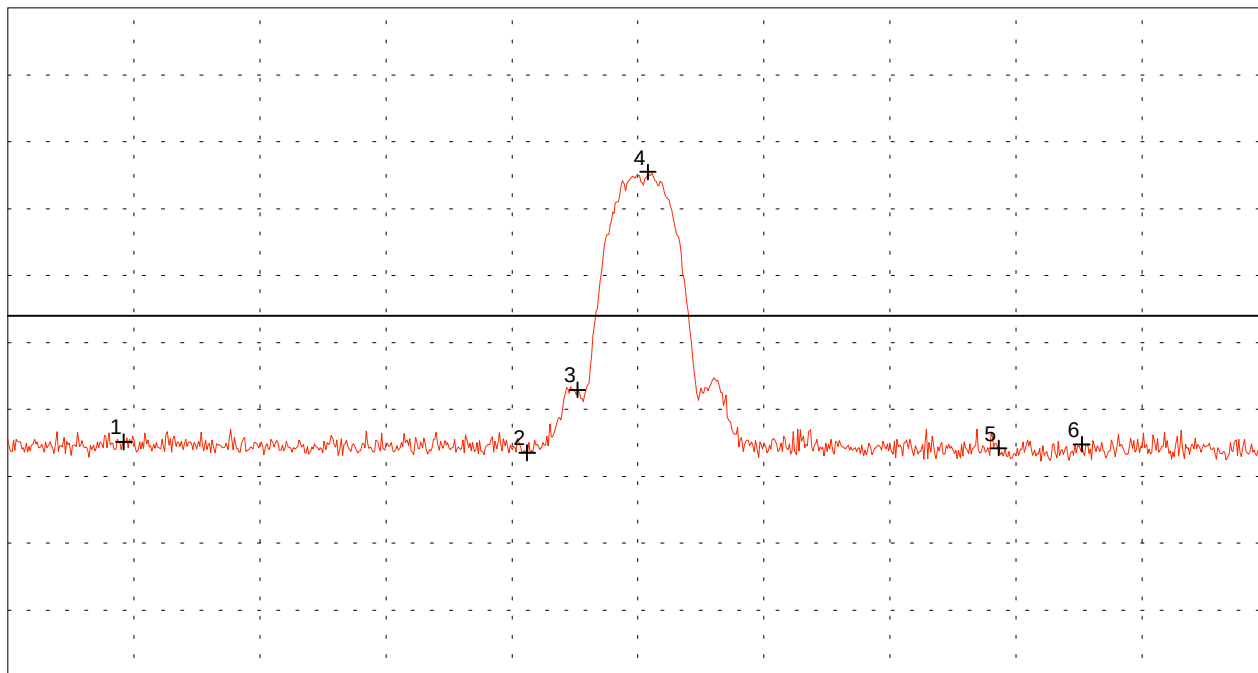
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	55.13 dB μ V/m
No. 2	2.390000 GHz	53.50 dB μ V/m
No. 3	2.400000 GHz	62.93 dB μ V/m
No. 4	2.413944 GHz	95.48 dB μ V/m
No. 5	2.483500 GHz	54.22 dB μ V/m
No. 6	2.500000 GHz	54.77 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

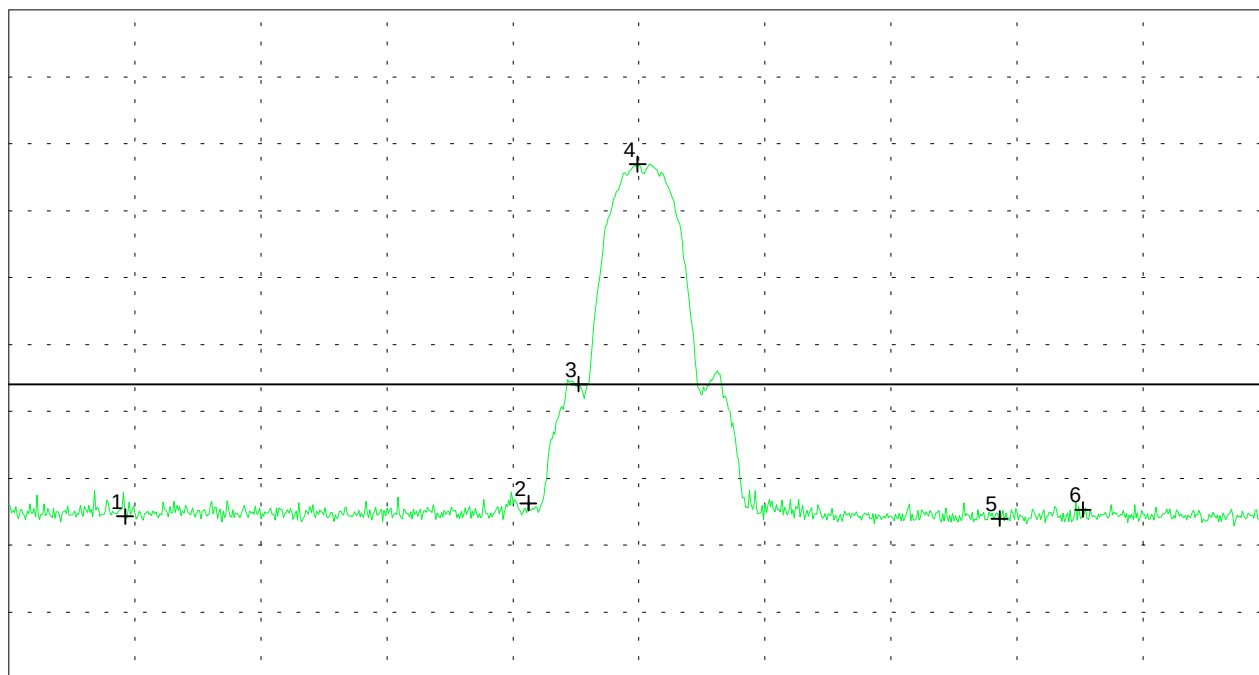
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.310056 GHz	54.29 dB μ V/m
No. 2	2.390056 GHz	56.29 dB μ V/m
No. 3	2.400056 GHz	74.05 dB μ V/m
No. 4	2.411722 GHz	106.96 dB μ V/m
No. 5	2.483500 GHz	53.96 dB μ V/m
No. 6	2.500056 GHz	55.30 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

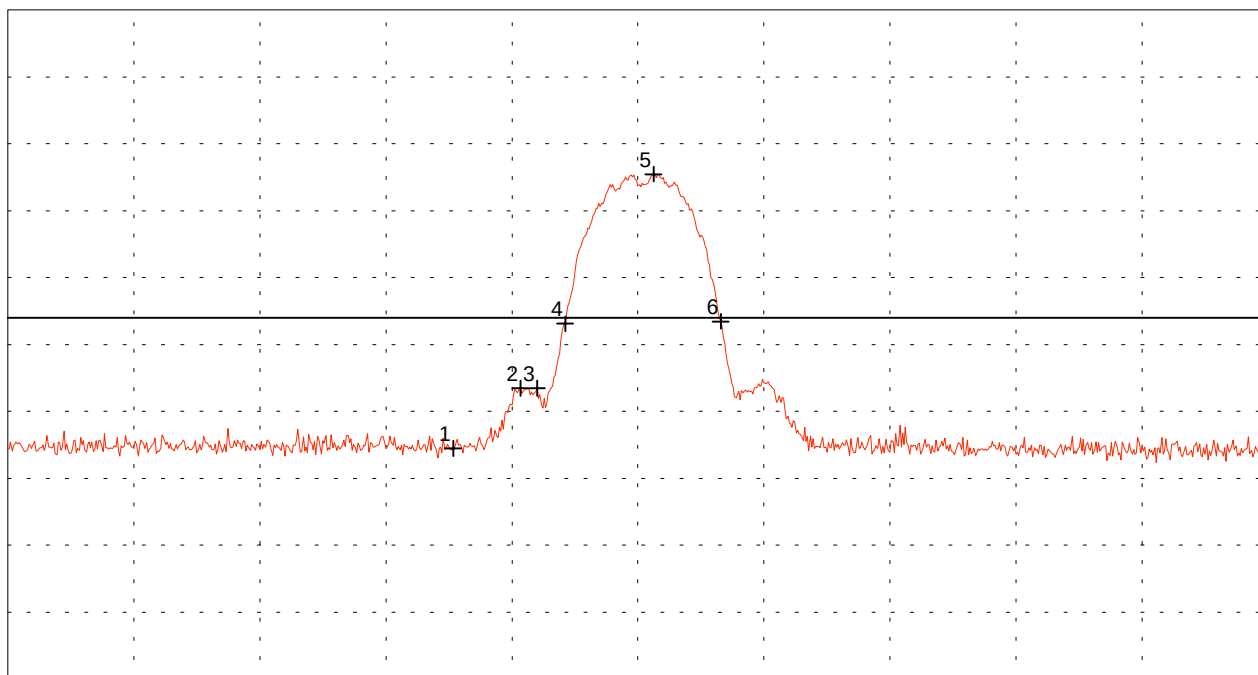
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	54.47 dB μ V/m
No. 2	2.398000 GHz	63.46 dB μ V/m
No. 3	2.400000 GHz	63.46 dB μ V/m
No. 4	2.403333 GHz	73.11 dB μ V/m
No. 5	2.413833 GHz	95.45 dB μ V/m
No. 6	2.421833 GHz	73.44 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

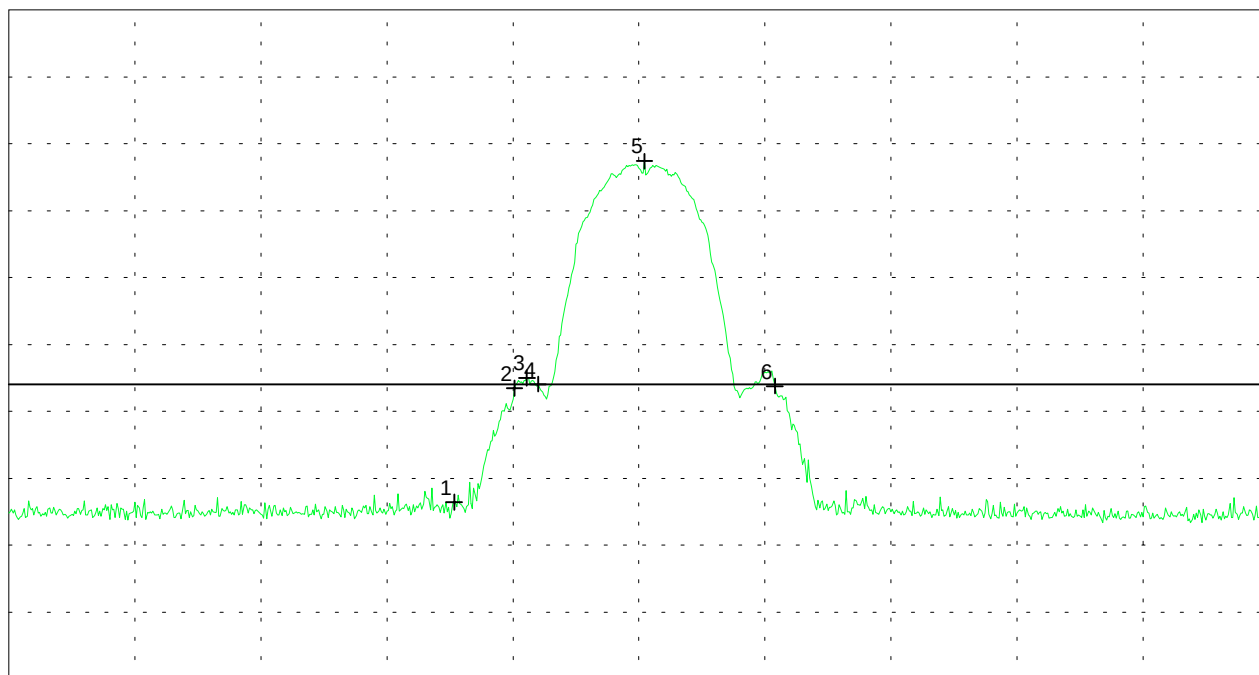
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	56.42 dB μ V/m
No. 2	2.397167 GHz	73.46 dB μ V/m
No. 3	2.398667 GHz	74.98 dB μ V/m
No. 4	2.400000 GHz	74.07 dB μ V/m
No. 5	2.412667 GHz	107.41 dB μ V/m
No. 6	2.428167 GHz	73.79 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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	23.7	0.6	20.7	45.0	54
2.3932	vertical	32.1	0.6	20.7	53.4	NRB
2.3983	vertical	49.3	0.6	20.7	70.6	NRB
2.4000	vertical	46.6	0.6	20.7	67.9	NRB
2.4128	vertical	82.1	0.6	20.7	103.4	OB
2.4313	vertical	31.2	0.6	20.7	52.5	OB
4.8241	vertical	14.0	0.9	27.3	42.2	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 103.4 dB μ V/m.

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

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

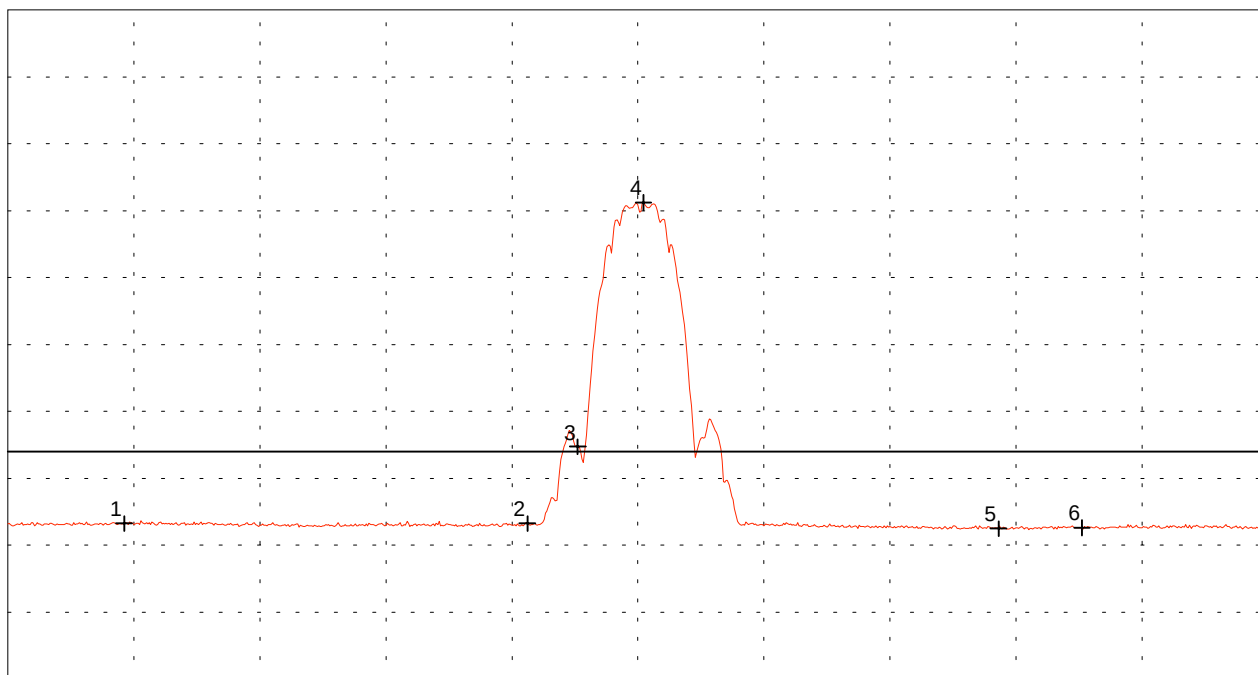
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	43.25 dB μ V/m
No. 2	2.390056 GHz	43.25 dB μ V/m
No. 3	2.400056 GHz	54.72 dB μ V/m
No. 4	2.413111 GHz	91.21 dB μ V/m
No. 5	2.483500 GHz	42.48 dB μ V/m
No. 6	2.500056 GHz	42.61 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

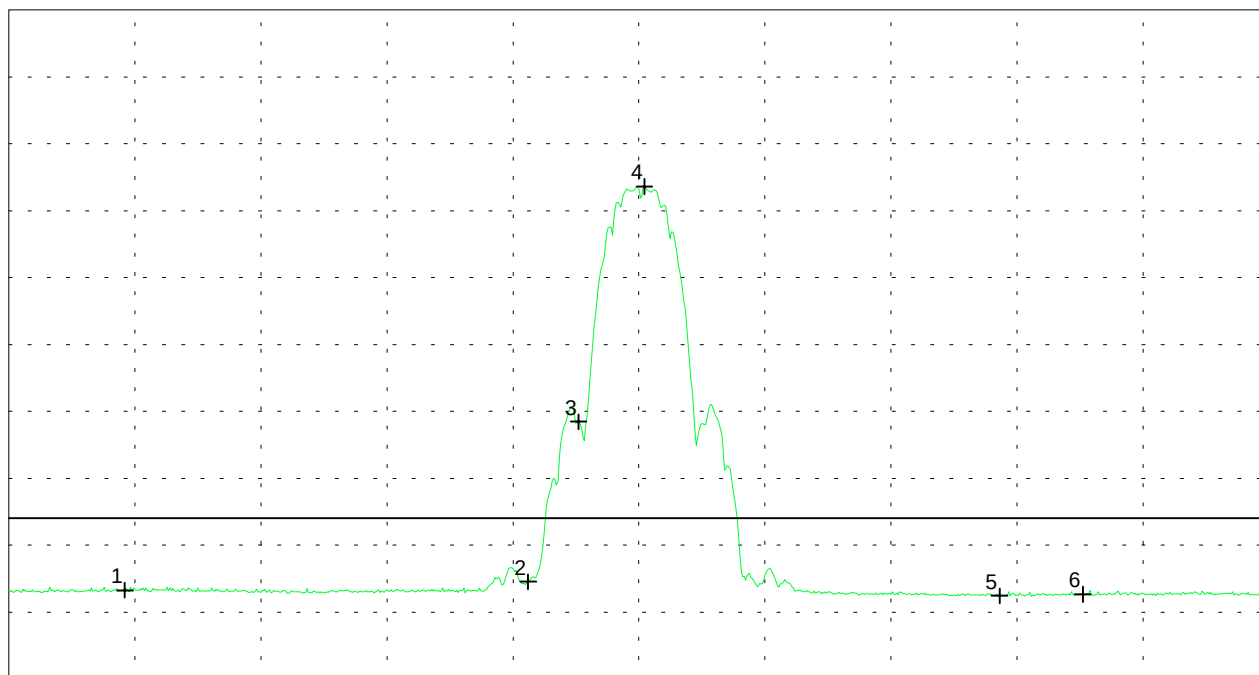
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	43.27 dB μ V/m
No. 2	2.390000 GHz	44.51 dB μ V/m
No. 3	2.400000 GHz	68.44 dB μ V/m
No. 4	2.413111 GHz	103.61 dB μ V/m
No. 5	2.483500 GHz	42.43 dB μ V/m
No. 6	2.500000 GHz	42.64 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

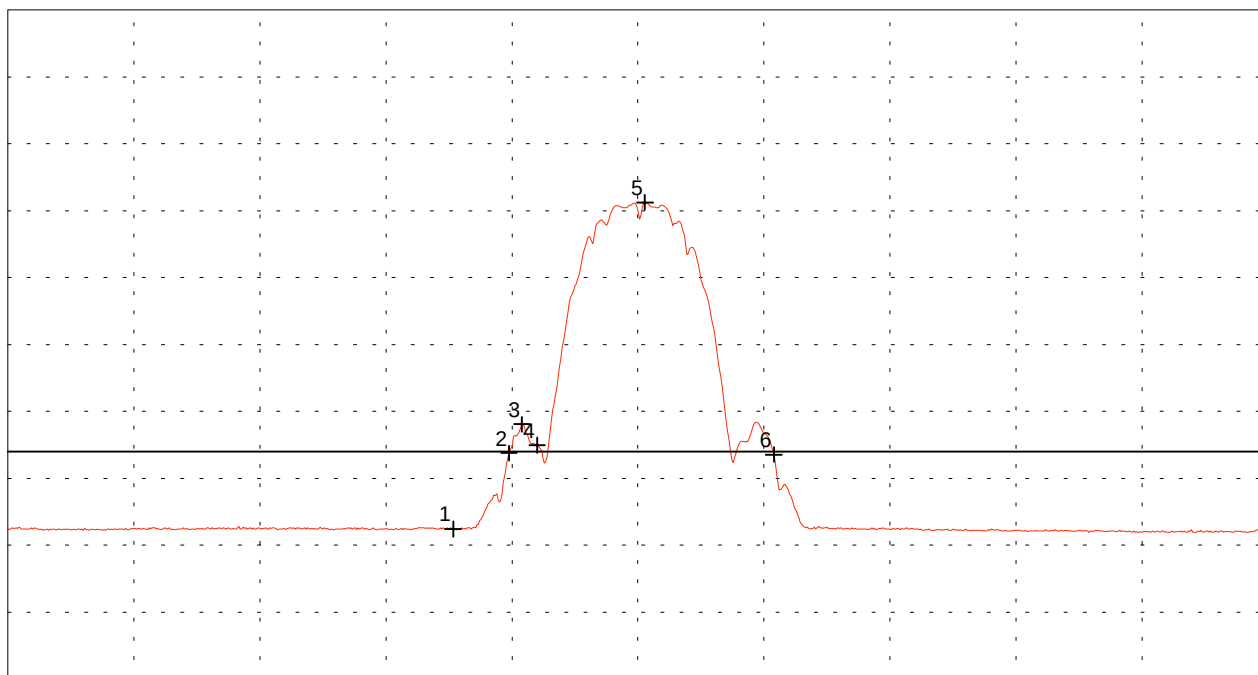
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	42.41 dB μ V/m
No. 2	2.396667 GHz	53.76 dB μ V/m
No. 3	2.398167 GHz	58.08 dB μ V/m
No. 4	2.400000 GHz	54.95 dB μ V/m
No. 5	2.412833 GHz	91.24 dB μ V/m
No. 6	2.428167 GHz	53.53 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

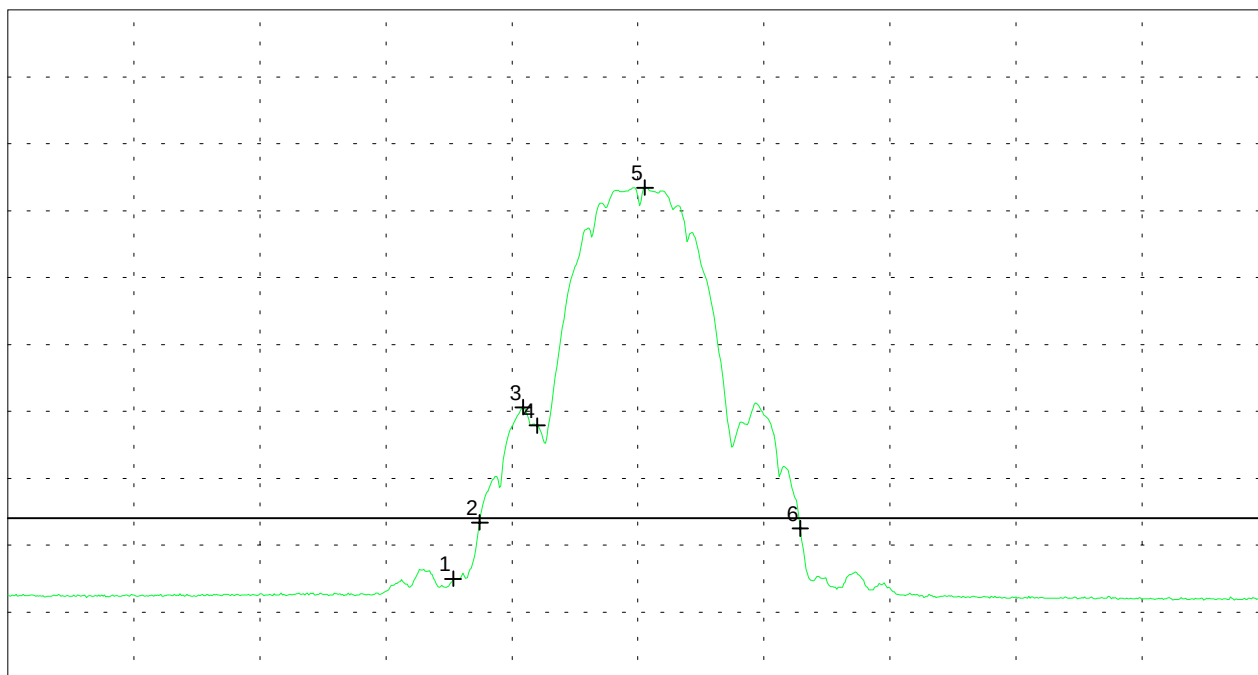
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	44.97 dB μ V/m
No. 2	2.393167 GHz	53.38 dB μ V/m
No. 3	2.398333 GHz	70.62 dB μ V/m
No. 4	2.400000 GHz	67.88 dB μ V/m
No. 5	2.412833 GHz	103.43 dB μ V/m
No. 6	2.431333 GHz	52.49 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna
mounted on left side of PC
- 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]
2.4263	vertical	51.9	0.6	20.7	73.3	OB
2.4417	vertical	88.4	0.6	20.7	109.7	OB
2.4588	vertical	51.6	0.6	20.7	72.9	OB
2.6615	vertical	18.8	0.6	23.7	43.1	74
2.7995	vertical	20.6	0.7	23.7	45.0	74
3.9365	vertical	19.6	0.8	23.8	44.2	74
4.8894	vertical	15.1	0.9	27.3	43.3	74
7.3305	vertical	9.6	1.1	29.9	40.6	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 109.7 dB μ V/m.

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

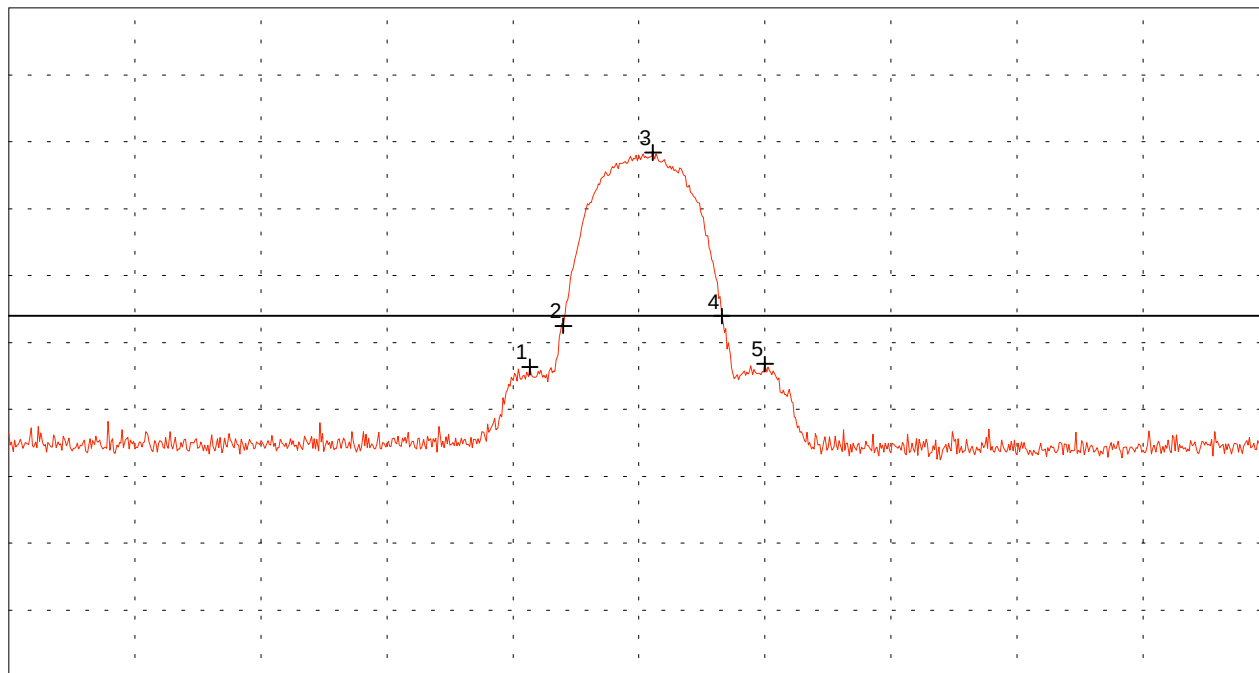
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	2.429000 GHz	66.33 dB μ V/m
No. 2	2.433000 GHz	72.50 dB μ V/m
No. 3	2.443667 GHz	98.40 dB μ V/m
No. 4	2.451833 GHz	73.95 dB μ V/m
No. 5	2.457000 GHz	66.79 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

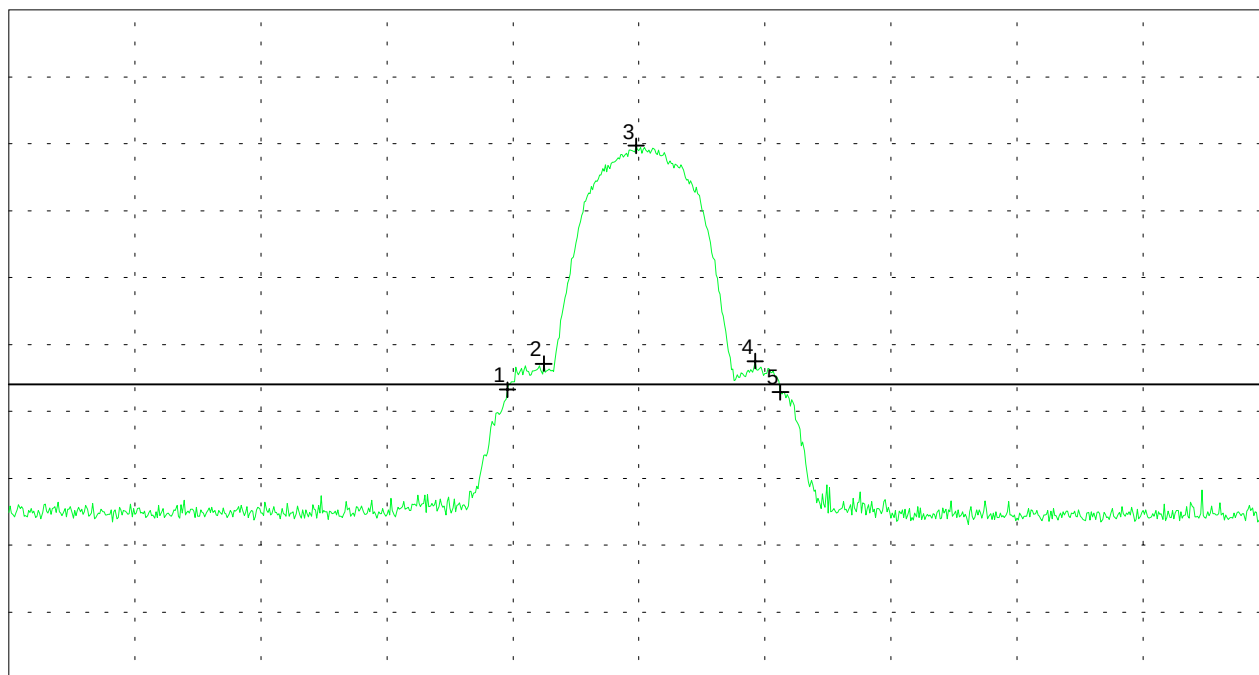
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.426333 GHz	73.26 dB μ V/m
No. 2	2.430667 GHz	77.12 dB μ V/m
No. 3	2.441667 GHz	109.70 dB μ V/m
No. 4	2.455833 GHz	77.52 dB μ V/m
No. 5	2.458833 GHz	72.88 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna
mounted on left side of PC
- 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]
1.3274	vertical	< 17.4	0.5	26.5	< 44.4	54
2.4233	vertical	31.6	0.6	20.7	52.9	OB
2.4417	vertical	82.1	0.6	20.7	103.4	OB
2.4610	vertical	32.2	0.6	20.7	53.5	OB

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 103.4 dB μ V/m.

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

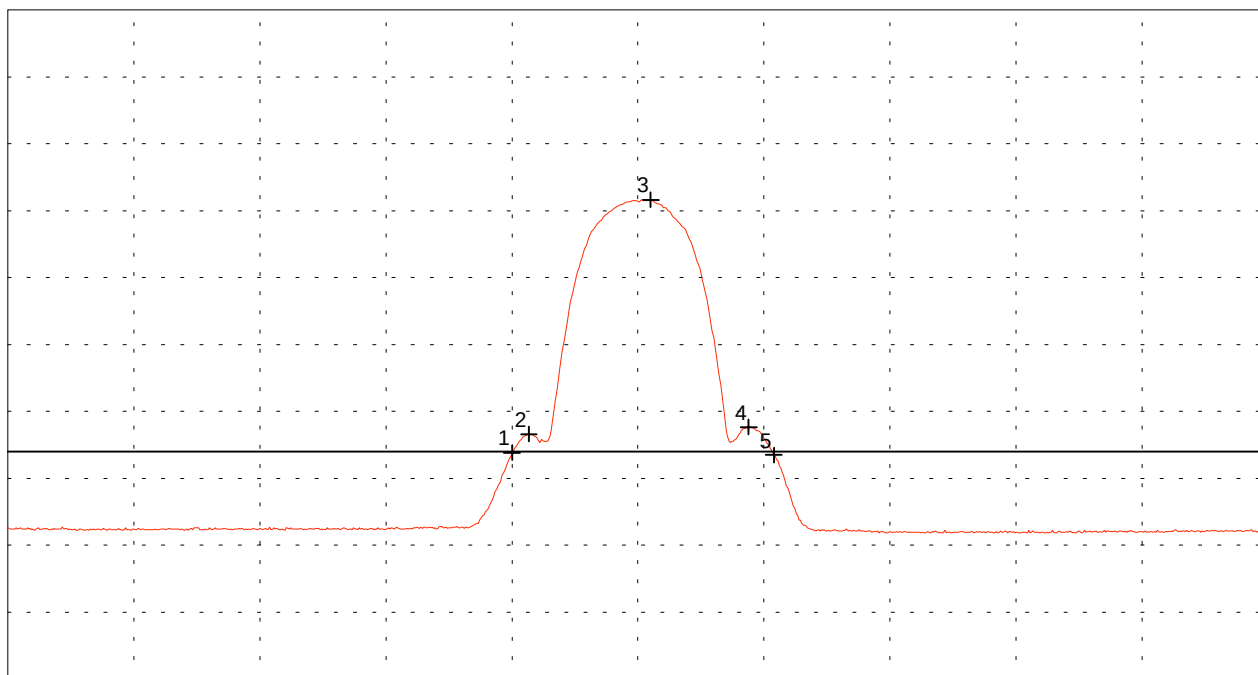
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	2.427000 GHz	53.83 dB μ V/m
No. 2	2.429000 GHz	56.60 dB μ V/m
No. 3	2.443500 GHz	91.62 dB μ V/m
No. 4	2.455167 GHz	57.67 dB μ V/m
No. 5	2.458167 GHz	53.48 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

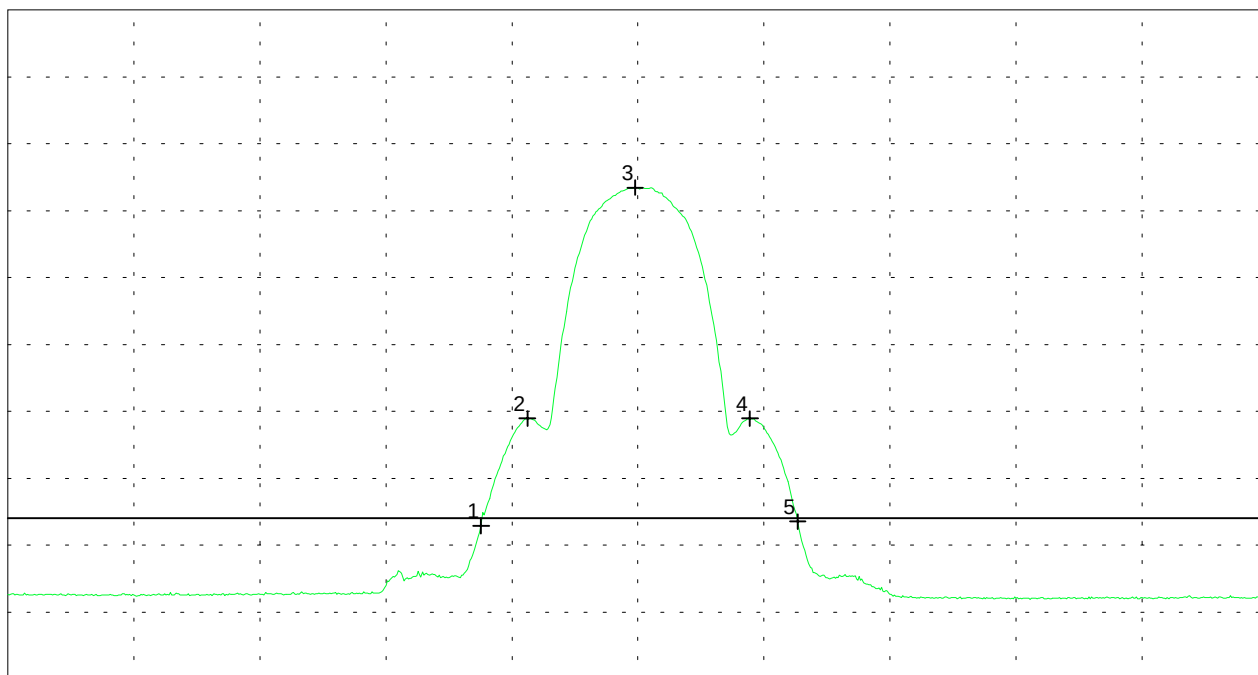
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.423333 GHz	52.89 dB μ V/m
No. 2	2.428833 GHz	68.92 dB μ V/m
No. 3	2.441667 GHz	103.43 dB μ V/m
No. 4	2.455333 GHz	68.94 dB μ V/m
No. 5	2.461000 GHz	53.50 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- 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]
2.4272	vertical	52.4	0.6	20.7	73.7	OB
2.4415	vertical	85.7	0.6	20.7	107.1	OB
2.4582	vertical	52.5	0.6	20.7	73.8	OB

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 107.1 dB μ V/m.

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

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

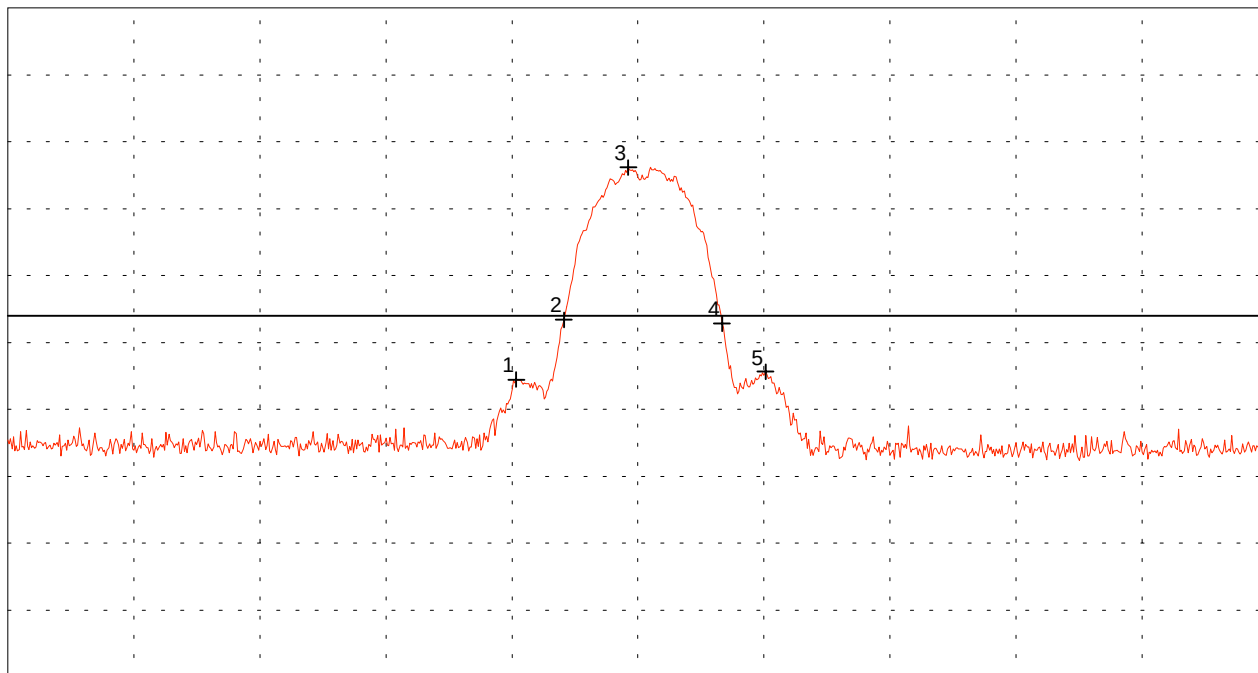
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	2.427500 GHz	64.45 dB μ V/m
No. 2	2.433167 GHz	73.41 dB μ V/m
No. 3	2.440833 GHz	96.17 dB μ V/m
No. 4	2.452000 GHz	72.83 dB μ V/m
No. 5	2.457167 GHz	65.62 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

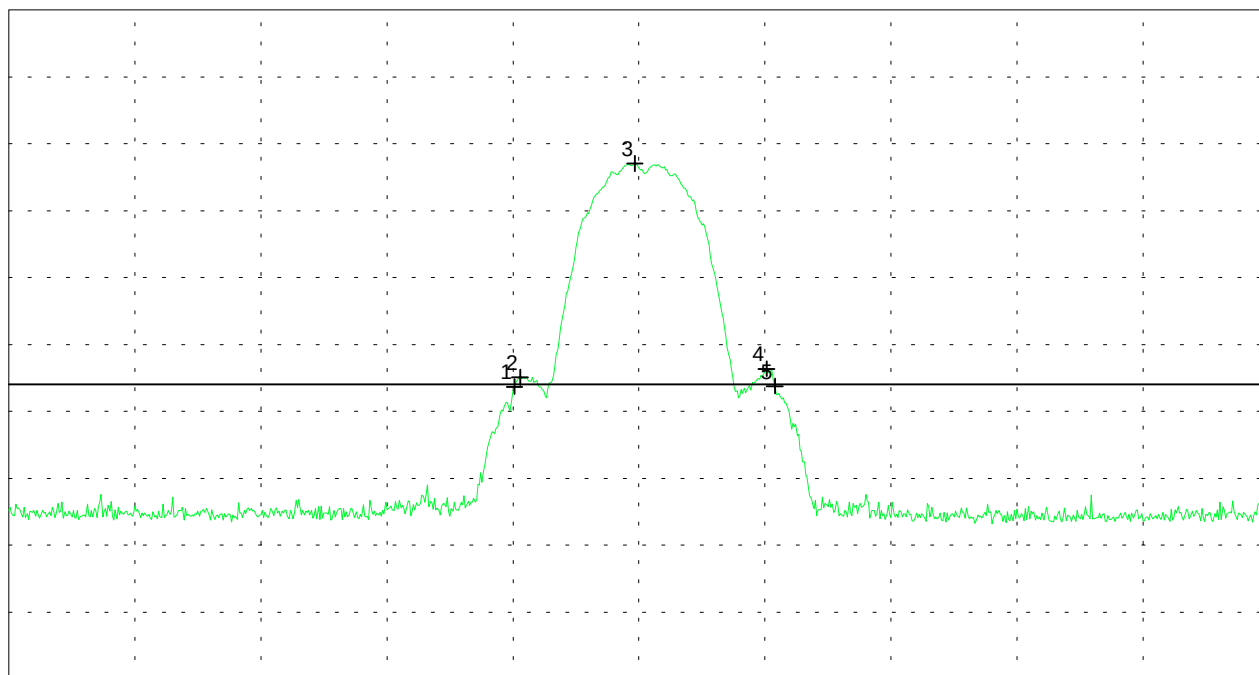
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.427167 GHz	73.69 dB μ V/m
No. 2	2.427833 GHz	75.09 dB μ V/m
No. 3	2.441500 GHz	107.06 dB μ V/m
No. 4	2.457167 GHz	76.38 dB μ V/m
No. 5	2.458167 GHz	73.77 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- 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]
2.4230	vertical	32.1	0.6	20.7	53.4	OB
2.4415	vertical	82.6	0.6	20.7	103.9	OB
2.4615	vertical	31.9	0.6	20.7	53.2	OB

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 103.9 dB μ V/m.

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

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

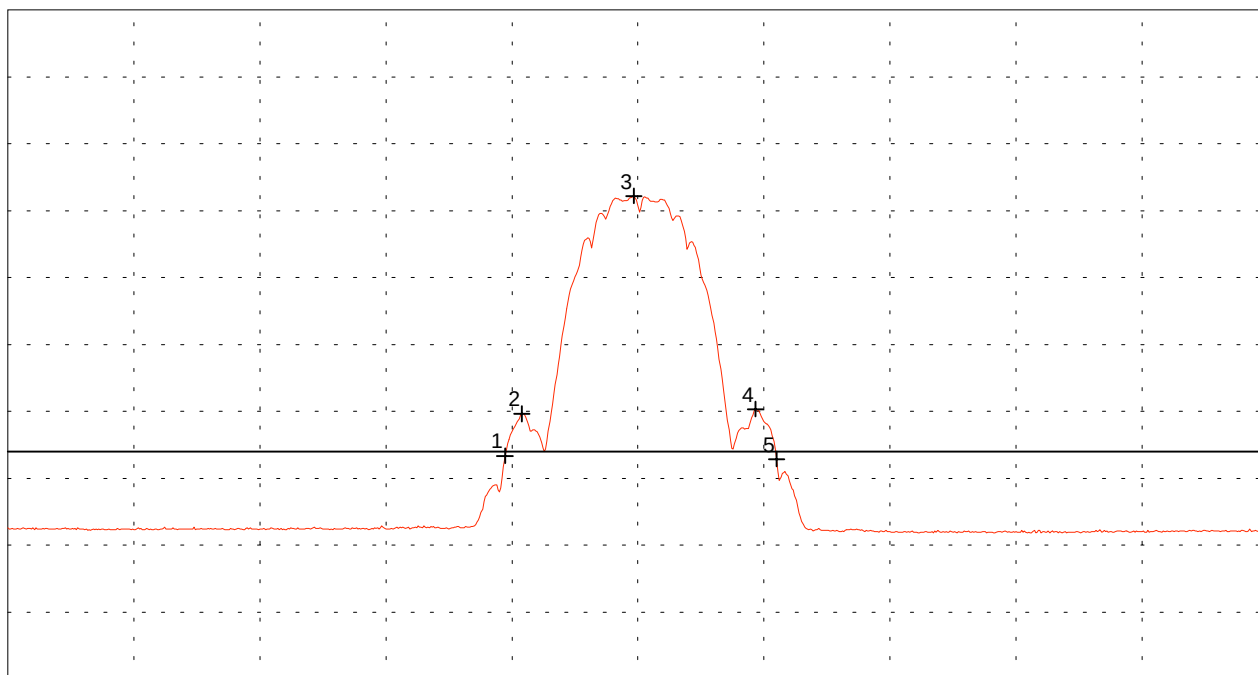
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	2.426167 GHz	53.35 dB μ V/m
No. 2	2.428167 GHz	59.62 dB μ V/m
No. 3	2.441500 GHz	92.20 dB μ V/m
No. 4	2.456000 GHz	60.34 dB μ V/m
No. 5	2.458500 GHz	52.89 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

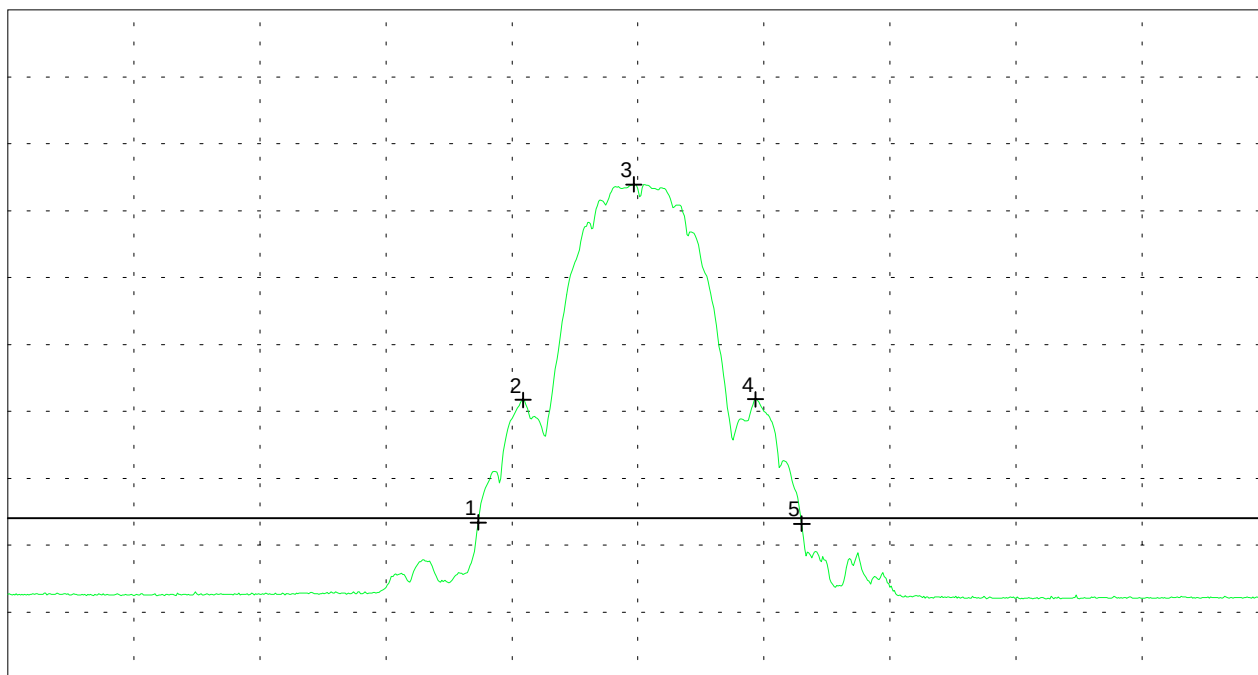
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.423000 GHz	53.40 dB μ V/m
No. 2	2.428333 GHz	71.71 dB μ V/m
No. 3	2.441500 GHz	103.91 dB μ V/m
No. 4	2.456000 GHz	71.81 dB μ V/m
No. 5	2.461500 GHz	53.20 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna
mounted on left side of PC
- 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]
2.4463	vertical	51.3	0.6	20.7	72.7	OB
2.4620	vertical	88.2	0.6	20.7	109.6	OB
2.4788	vertical	52.5	0.6	20.7	73.8	OB
2.4835	vertical	35.2	0.6	20.7	56.5	74
2.4888	vertical	35.6	0.6	20.7	56.9	74
2.5000	vertical	34.7	0.6	20.7	56.0	74
2.7995	vertical	21.5	0.7	23.7	45.8	74
4.9296	horizontal	14.3	0.9	27.3	42.5	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 109.6 dB μ V/m.

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

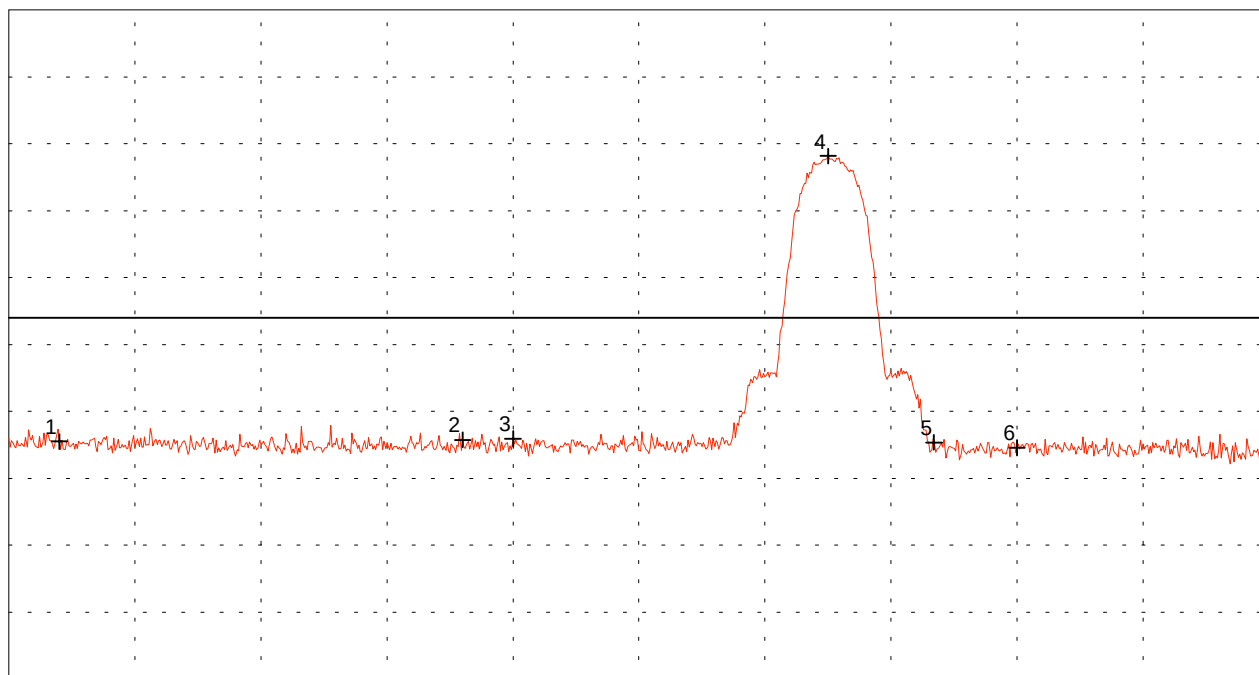
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	55.48 dB μ V/m
No. 2	2.390000 GHz	55.76 dB μ V/m
No. 3	2.400000 GHz	55.89 dB μ V/m
No. 4	2.462500 GHz	98.17 dB μ V/m
No. 5	2.483500 GHz	55.36 dB μ V/m
No. 6	2.500000 GHz	54.57 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

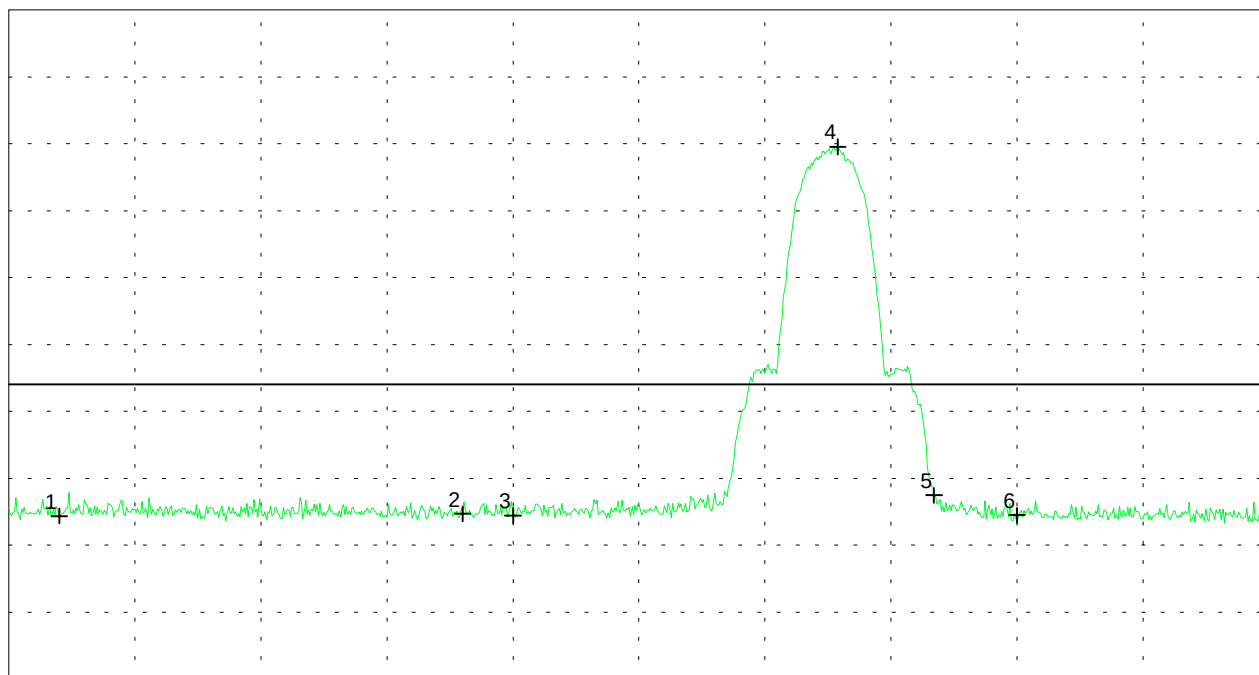
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	54.37 dB μ V/m
No. 2	2.390000 GHz	54.67 dB μ V/m
No. 3	2.400000 GHz	54.42 dB μ V/m
No. 4	2.464444 GHz	109.55 dB μ V/m
No. 5	2.483500 GHz	57.44 dB μ V/m
No. 6	2.500000 GHz	54.49 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

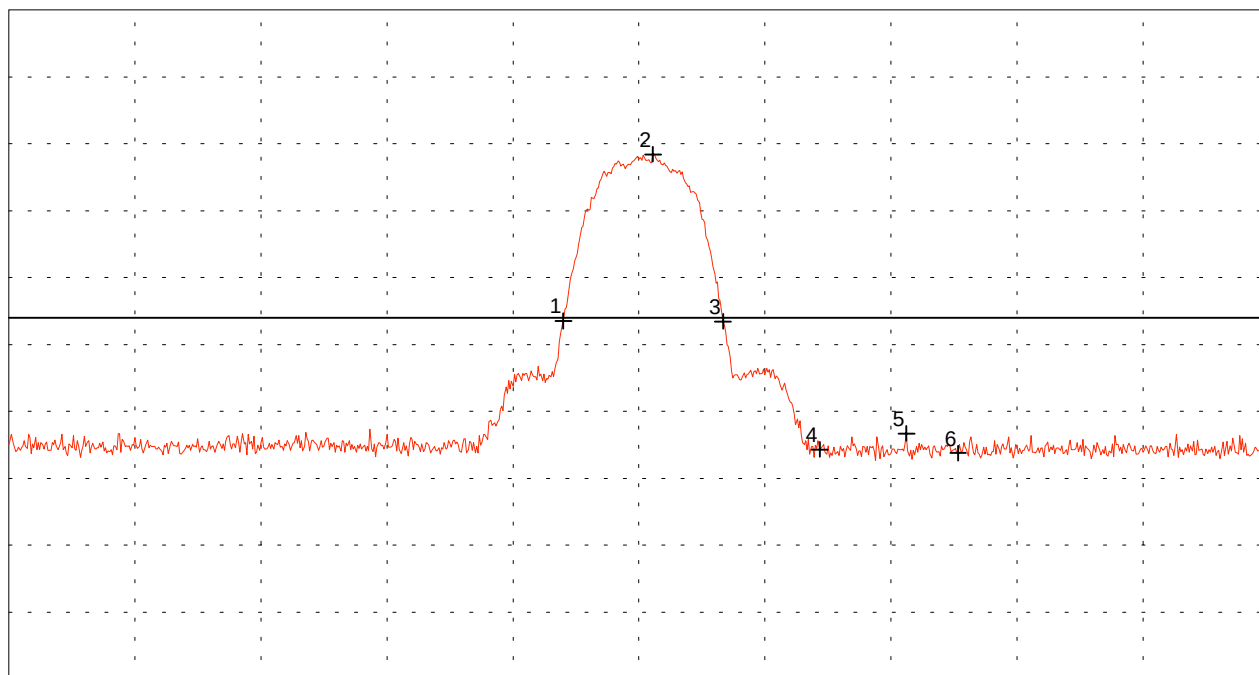
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	2.453000 GHz	73.51 dB μ V/m
No. 2	2.463667 GHz	98.43 dB μ V/m
No. 3	2.472000 GHz	73.44 dB μ V/m
No. 4	2.483500 GHz	54.32 dB μ V/m
No. 5	2.493833 GHz	56.70 dB μ V/m
No. 6	2.500000 GHz	53.76 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

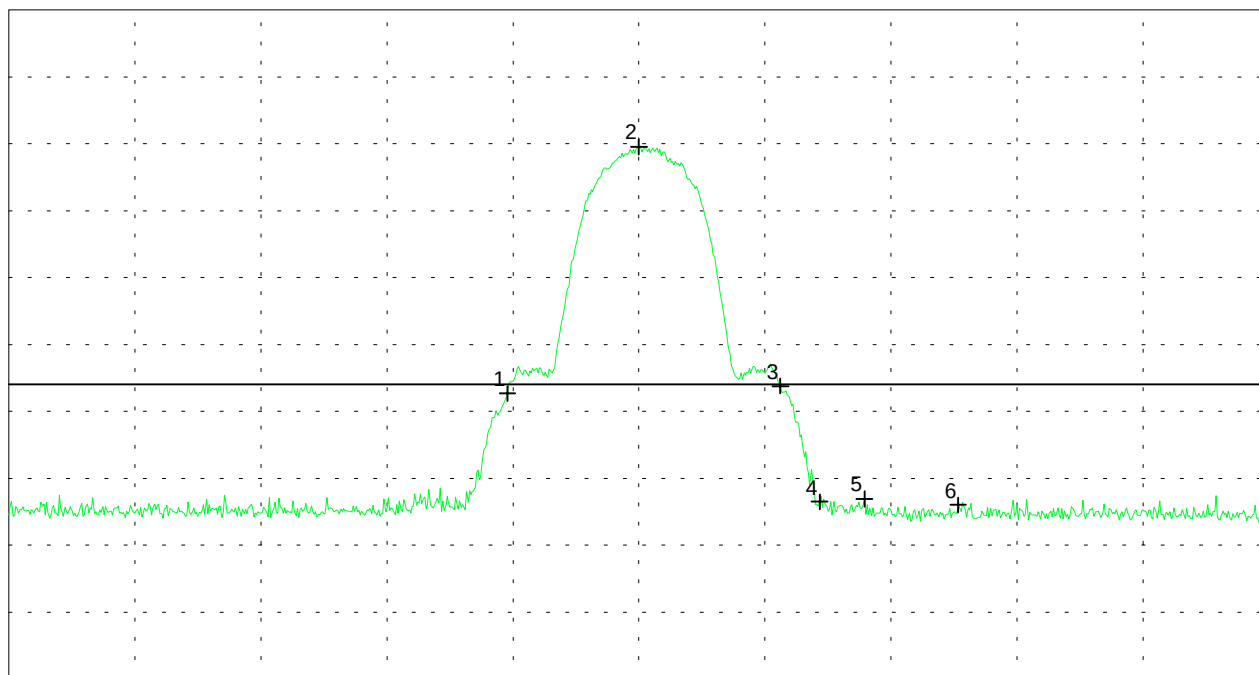
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.446333 GHz	72.65 dB μ V/m
No. 2	2.462000 GHz	109.55 dB μ V/m
No. 3	2.478833 GHz	73.79 dB μ V/m
No. 4	2.483500 GHz	56.50 dB μ V/m
No. 5	2.488833 GHz	56.90 dB μ V/m
No. 6	2.500000 GHz	56.02 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna
mounted on left side of PC
- 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]
1.3274	vertical	< 17.4	0.5	26.5	< 44.3	54
2.4435	vertical	32.3	0.6	20.7	53.7	OB
2.4635	vertical	82.0	0.6	20.7	103.3	OB
2.4808	vertical	32.5	0.6	20.7	53.8	OB
2.4835	vertical	23.3	0.6	20.7	44.6	54
2.4867	vertical	23.3	0.6	20.7	44.6	54
2.5000	vertical	20.9	0.6	20.7	42.2	54
2.7975	vertical	6.7	0.7	23.7	31.0	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 103.3 dB μ V/m.

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

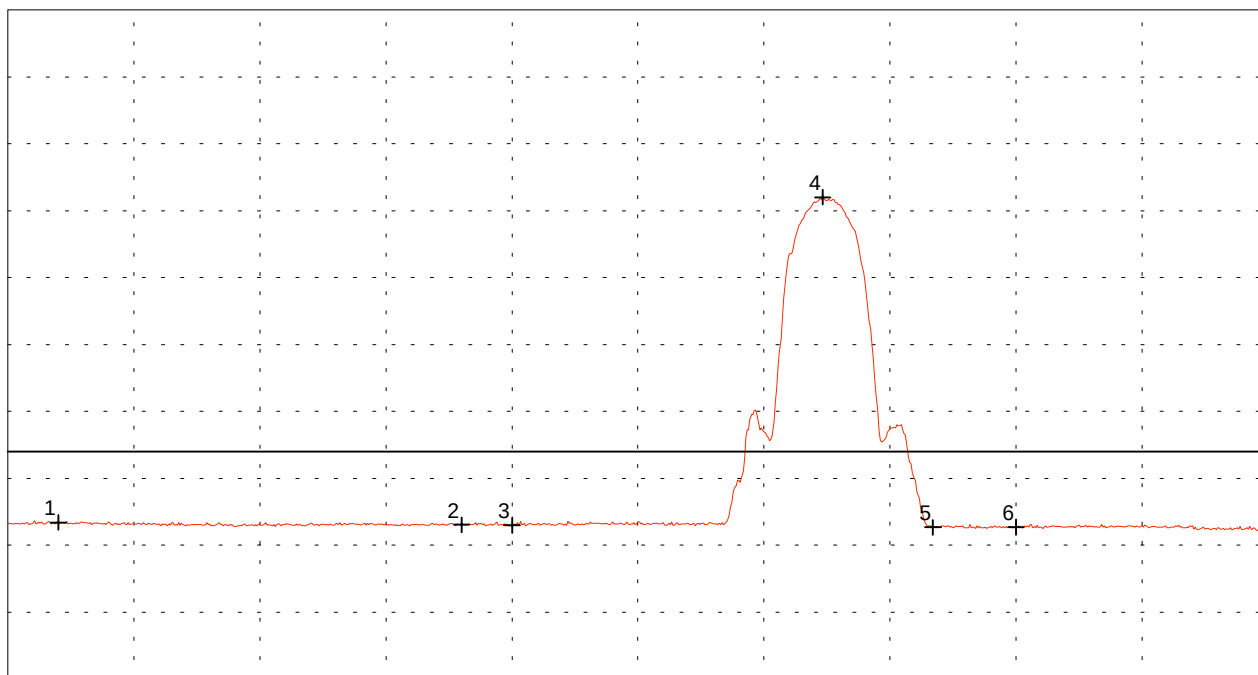
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	43.40 dB μ V/m
No. 2	2.390000 GHz	43.04 dB μ V/m
No. 3	2.400000 GHz	42.97 dB μ V/m
No. 4	2.461667 GHz	92.00 dB μ V/m
No. 5	2.483500 GHz	42.66 dB μ V/m
No. 6	2.500000 GHz	42.69 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

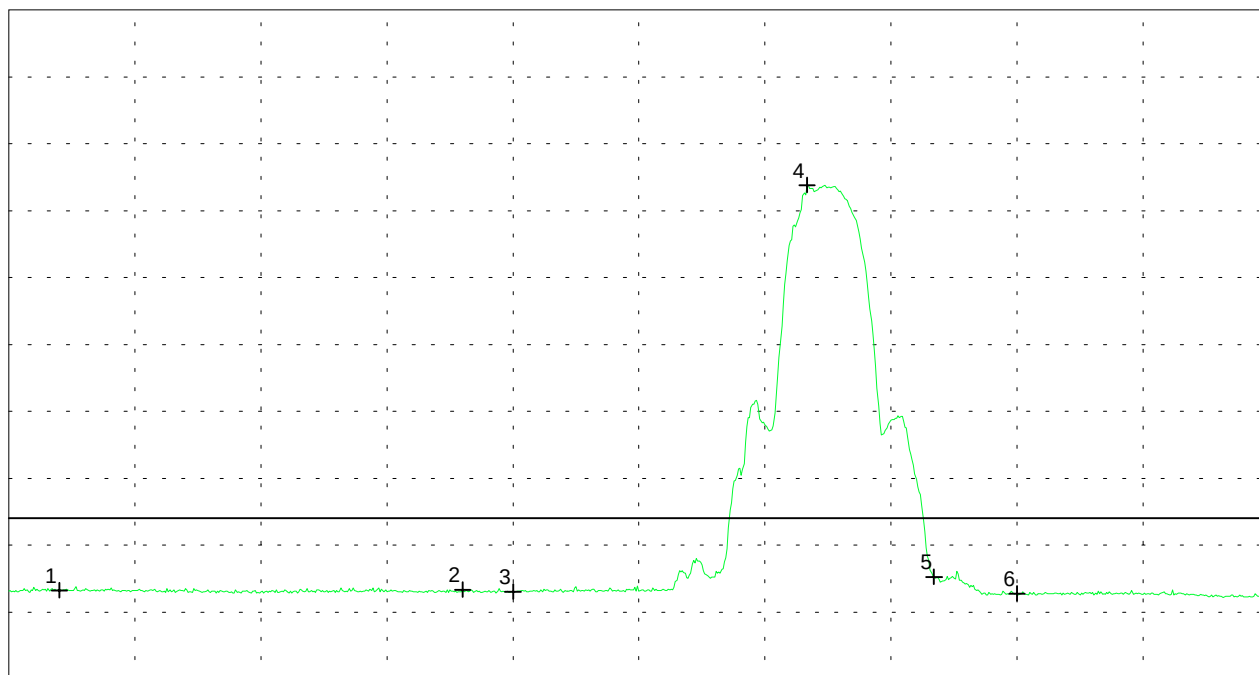
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	43.27 dB μ V/m
No. 2	2.390000 GHz	43.37 dB μ V/m
No. 3	2.400000 GHz	43.07 dB μ V/m
No. 4	2.458333 GHz	103.83 dB μ V/m
No. 5	2.483500 GHz	45.28 dB μ V/m
No. 6	2.500000 GHz	42.76 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

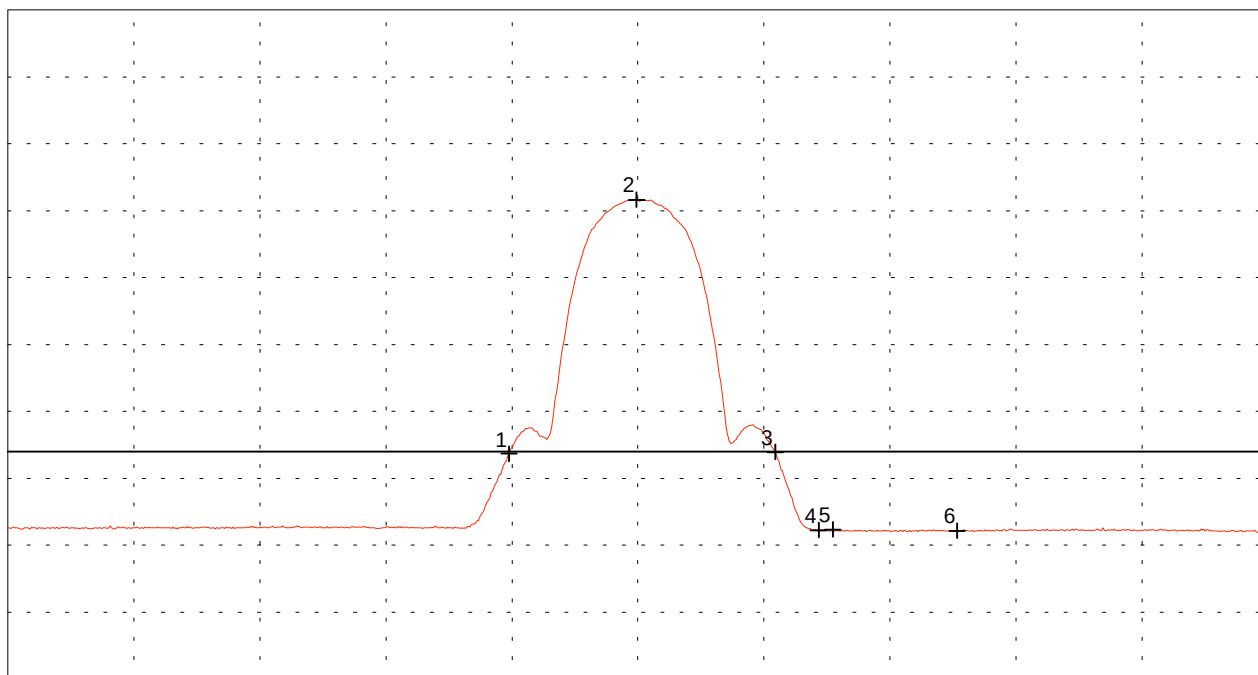
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	2.446667 GHz	53.68 dB μ V/m
No. 2	2.461833 GHz	91.62 dB μ V/m
No. 3	2.478333 GHz	53.94 dB μ V/m
No. 4	2.483500 GHz	42.25 dB μ V/m
No. 5	2.485167 GHz	42.33 dB μ V/m
No. 6	2.500000 GHz	42.15 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

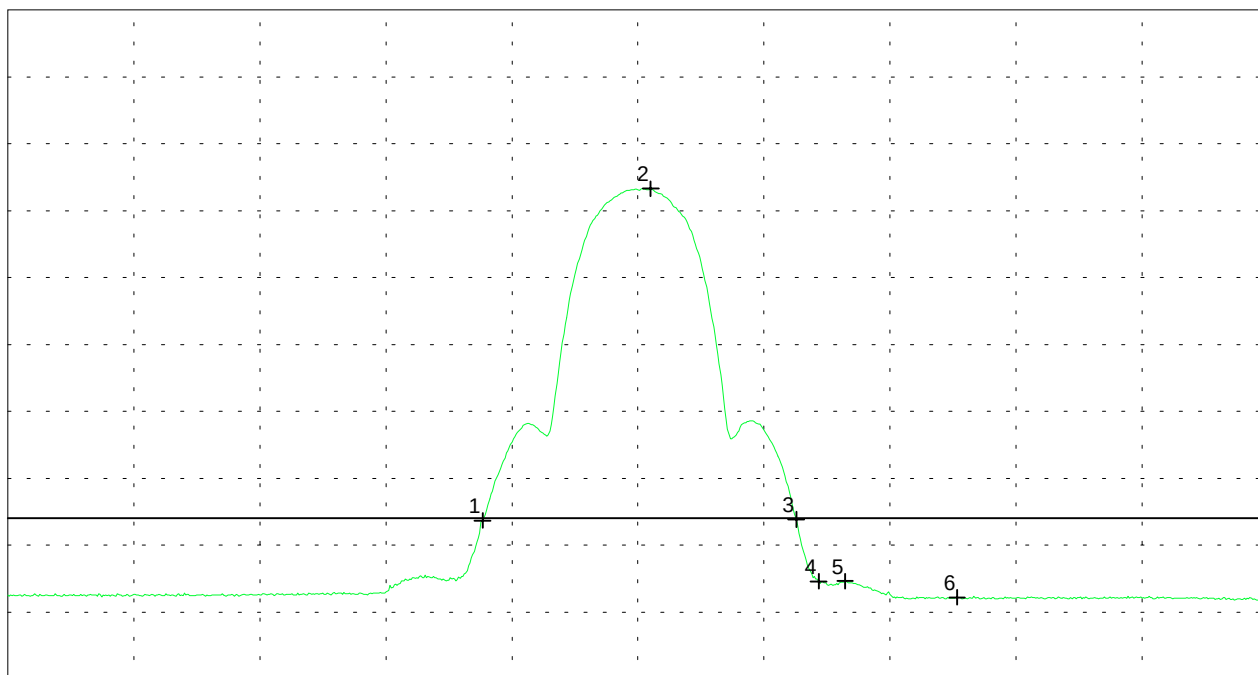
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.443500 GHz	53.66 dB μ V/m
No. 2	2.463500 GHz	103.30 dB μ V/m
No. 3	2.480833 GHz	53.83 dB μ V/m
No. 4	2.483500 GHz	44.59 dB μ V/m
No. 5	2.486667 GHz	44.62 dB μ V/m
No. 6	2.500000 GHz	42.20 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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]
2.4472	vertical	52.7	0.6	20.7	74.0	OB
2.4645	vertical	85.8	0.6	20.7	107.2	OB
2.4783	vertical	51.6	0.6	20.7	72.9	OB
2.4835	vertical	34.0	0.6	20.7	55.4	74
2.4843	vertical	37.1	0.6	20.7	58.5	74
2.5000	vertical	32.9	0.6	20.7	54.2	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 107.2 dB μ V/m.

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

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

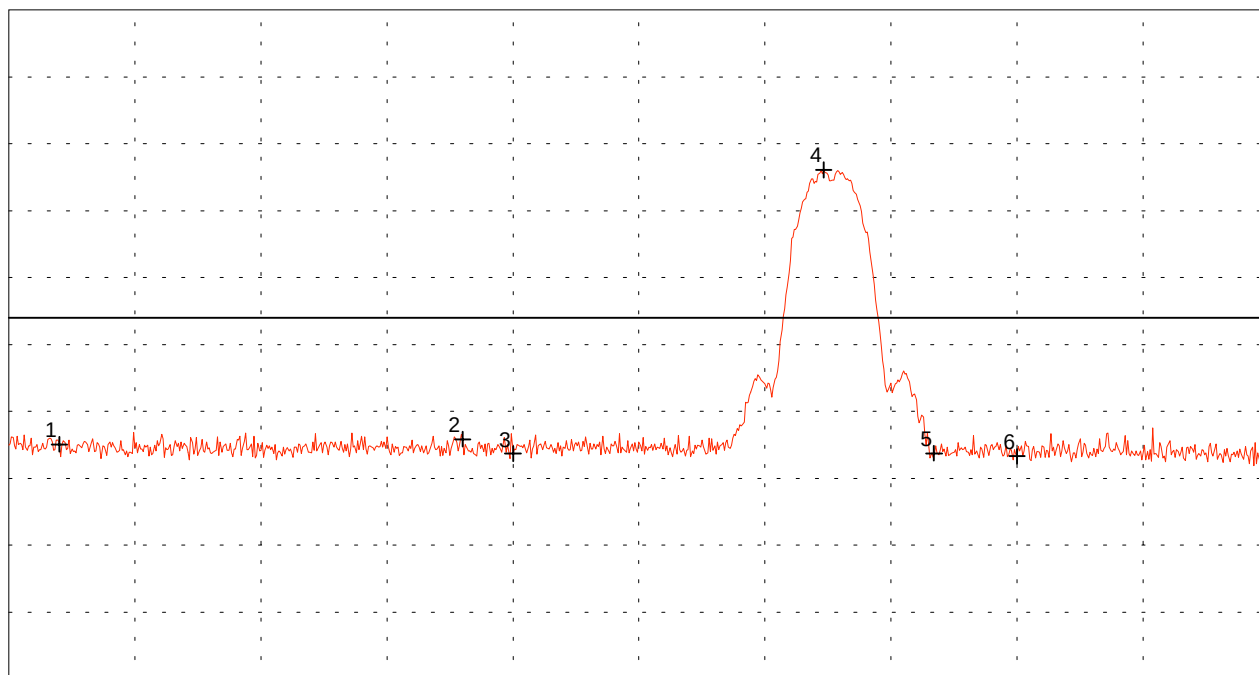
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	55.08 dB μ V/m
No. 2	2.390000 GHz	55.82 dB μ V/m
No. 3	2.400000 GHz	53.66 dB μ V/m
No. 4	2.461667 GHz	96.09 dB μ V/m
No. 5	2.483500 GHz	53.73 dB μ V/m
No. 6	2.500000 GHz	53.28 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

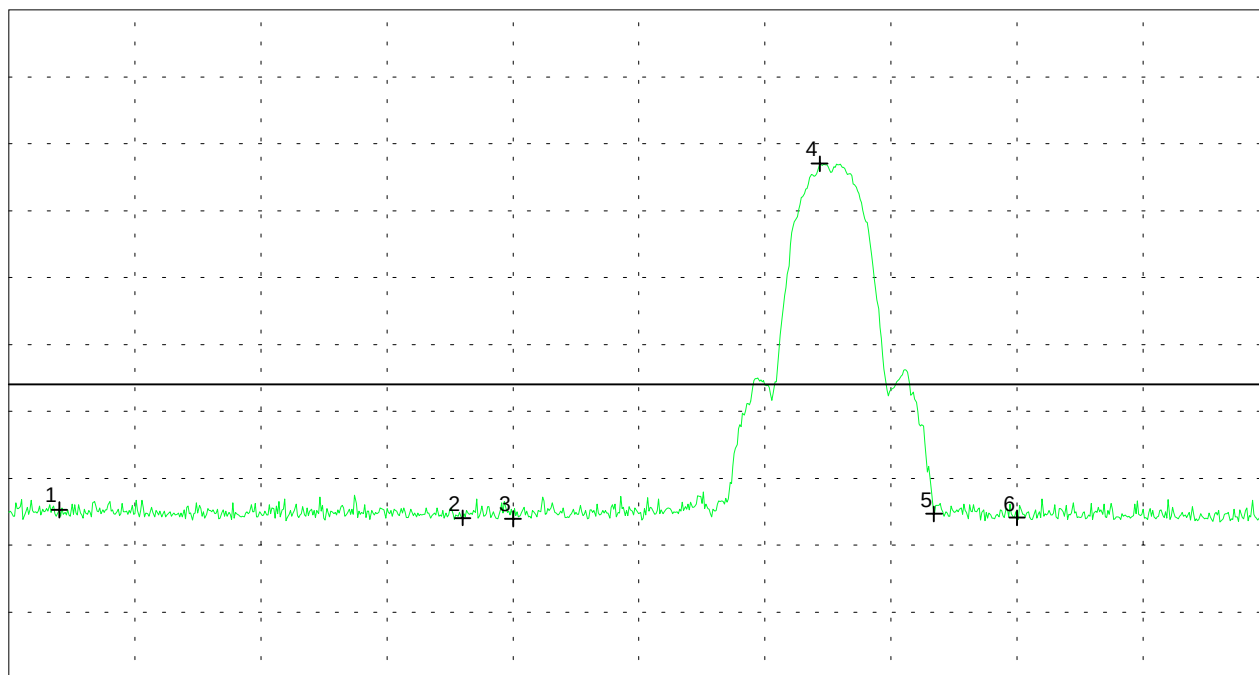
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	55.28 dB μ V/m
No. 2	2.390000 GHz	54.06 dB μ V/m
No. 3	2.400000 GHz	53.93 dB μ V/m
No. 4	2.460833 GHz	107.03 dB μ V/m
No. 5	2.483500 GHz	54.67 dB μ V/m
No. 6	2.500000 GHz	54.09 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

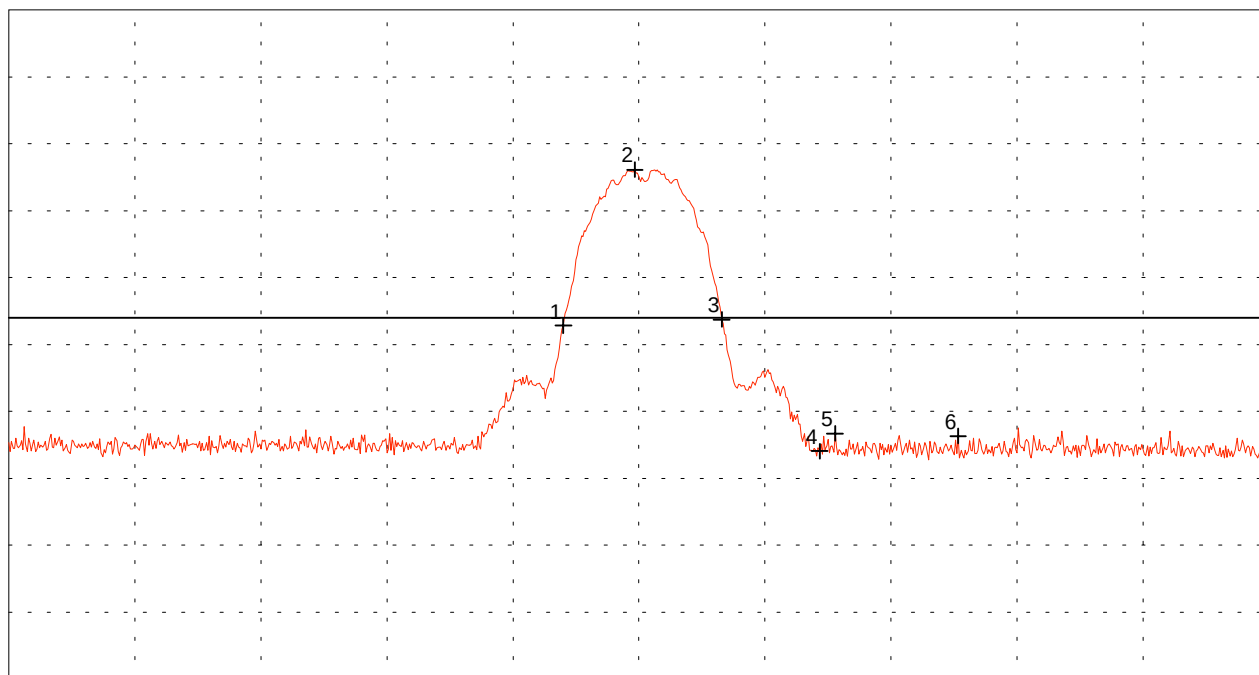
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	2.453000 GHz	72.80 dB μ V/m
No. 2	2.461500 GHz	96.11 dB μ V/m
No. 3	2.471833 GHz	73.72 dB μ V/m
No. 4	2.483500 GHz	54.06 dB μ V/m
No. 5	2.485333 GHz	56.68 dB μ V/m
No. 6	2.500000 GHz	56.32 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

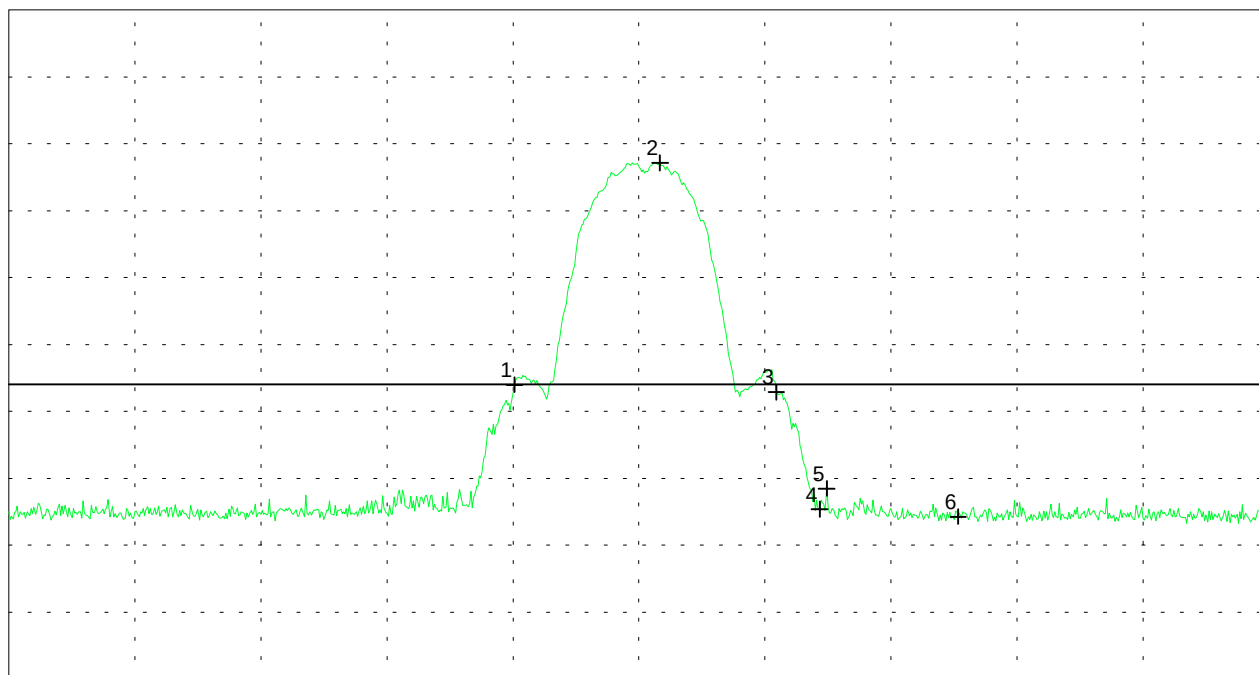
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.447167 GHz	73.99 dB μ V/m
No. 2	2.464500 GHz	107.16 dB μ V/m
No. 3	2.478333 GHz	72.88 dB μ V/m
No. 4	2.483500 GHz	55.36 dB μ V/m
No. 5	2.484333 GHz	58.45 dB μ V/m
No. 6	2.500000 GHz	54.24 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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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: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- 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]
2.4428	vertical	32.0	0.6	20.7	53.3	OB
2.4628	vertical	82.5	0.6	20.7	103.8	OB
2.4815	vertical	31.4	0.6	20.7	52.7	OB
2.4835	vertical	24.5	0.6	20.7	45.9	54
2.4880	vertical	25.5	0.6	20.7	46.8	54
2.5000	vertical	20.8	0.6	20.7	42.1	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 103.8 dB μ V/m.

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

Result: The limits are kept

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

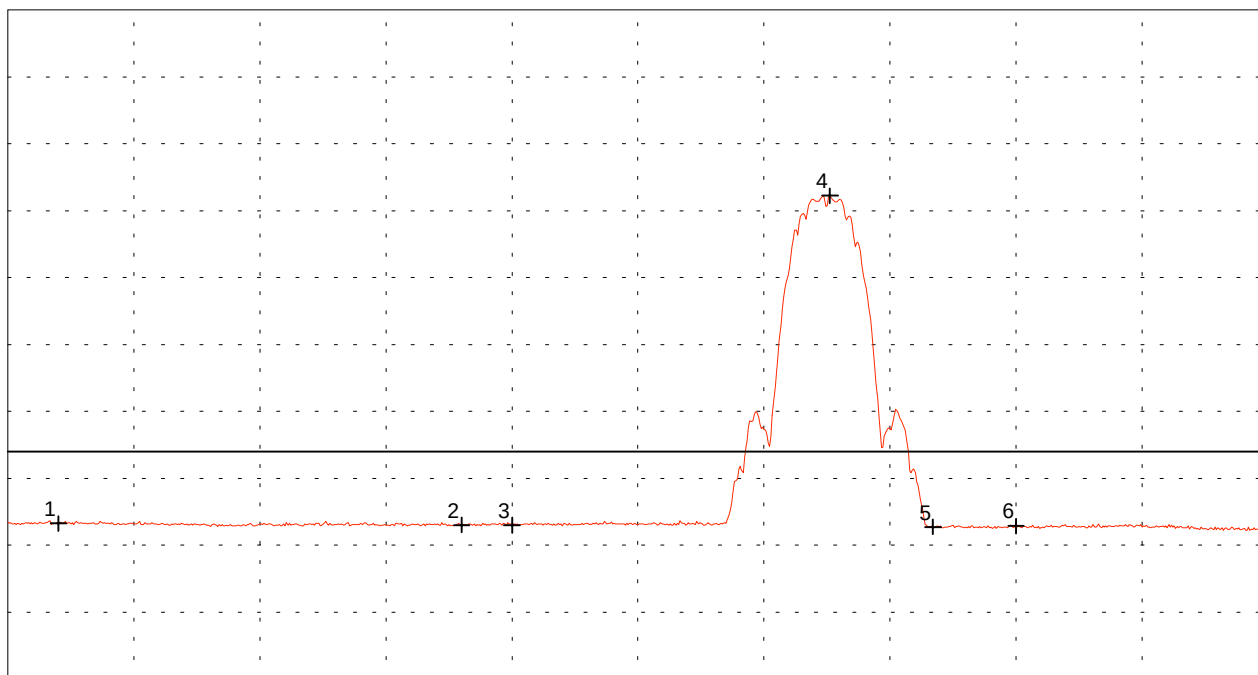
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	43.25 dB μ V/m
No. 2	2.390000 GHz	43.02 dB μ V/m
No. 3	2.400000 GHz	42.97 dB μ V/m
No. 4	2.463056 GHz	92.25 dB μ V/m
No. 5	2.483500 GHz	42.74 dB μ V/m
No. 6	2.500000 GHz	42.86 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

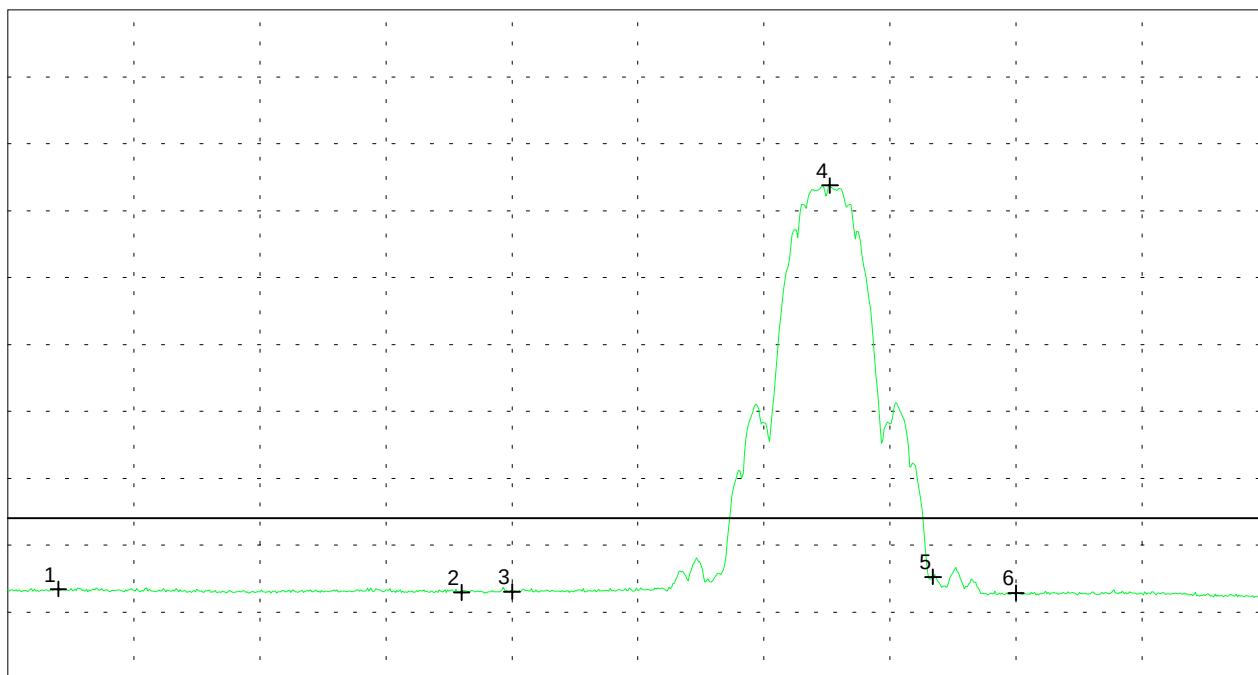
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	43.45 dB μ V/m
No. 2	2.390000 GHz	42.94 dB μ V/m
No. 3	2.400000 GHz	43.07 dB μ V/m
No. 4	2.463056 GHz	103.78 dB μ V/m
No. 5	2.483500 GHz	45.28 dB μ V/m
No. 6	2.500000 GHz	42.86 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

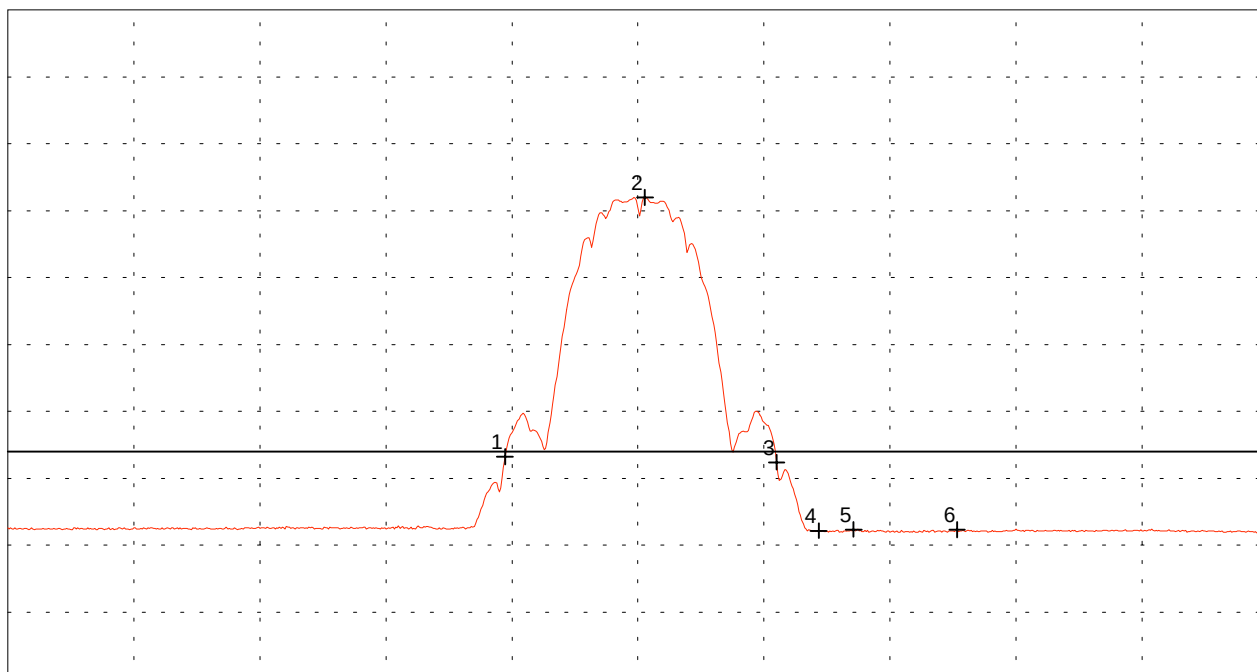
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB/Div.

ATT 0 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	2.446167 GHz	53.22 dB μ V/m
No. 2	2.462833 GHz	91.98 dB μ V/m
No. 3	2.478500 GHz	52.39 dB μ V/m
No. 4	2.483500 GHz	42.15 dB μ V/m
No. 5	2.487667 GHz	42.33 dB μ V/m
No. 6	2.500000 GHz	42.31 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial No.:
02UT06373519

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 Orinoco PCI-33W
- 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

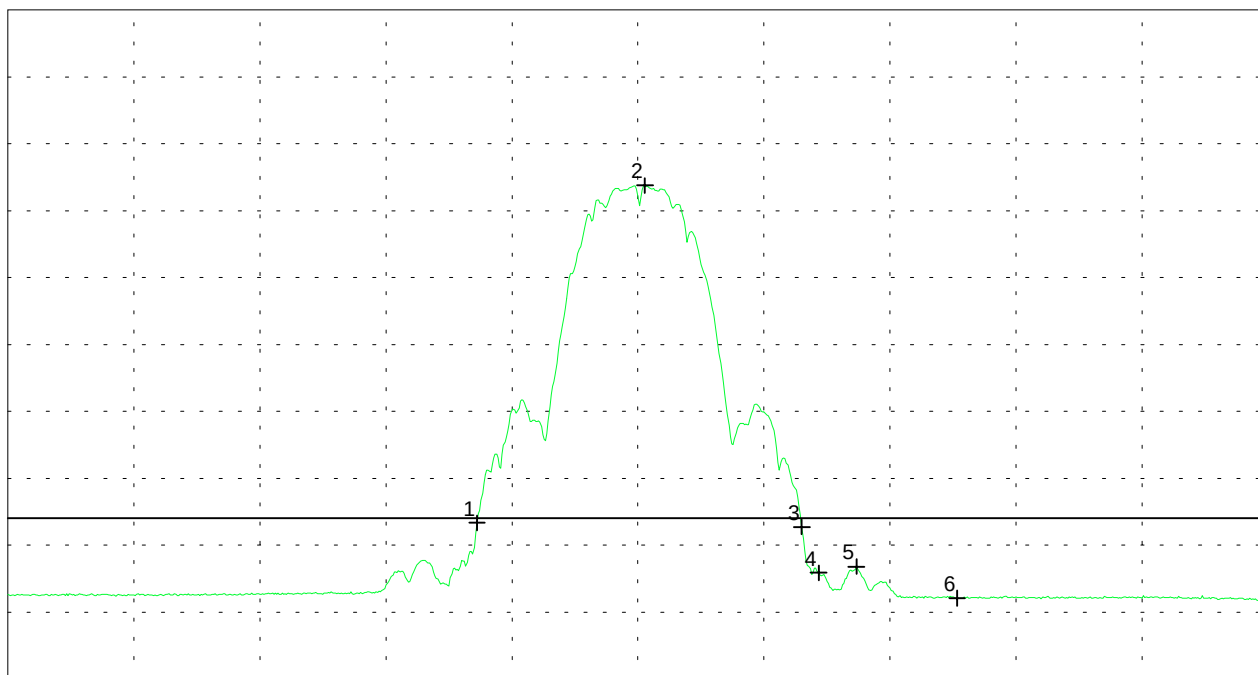
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB/Div.

ATT 0 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	2.442833 GHz	53.33 dB μ V/m
No. 2	2.462833 GHz	103.78 dB μ V/m
No. 3	2.481500 GHz	52.72 dB μ V/m
No. 4	2.483500 GHz	45.86 dB μ V/m
No. 5	2.488000 GHz	46.80 dB μ V/m
No. 6	2.500000 GHz	42.08 dB μ V/m

Tested by:
Rainer Heller

Date:
03/19/2002

Project-No.:
56305-20162-3

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Test results for
Receive (RX) mode

Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 04/03/2002 Operator: R. Heller

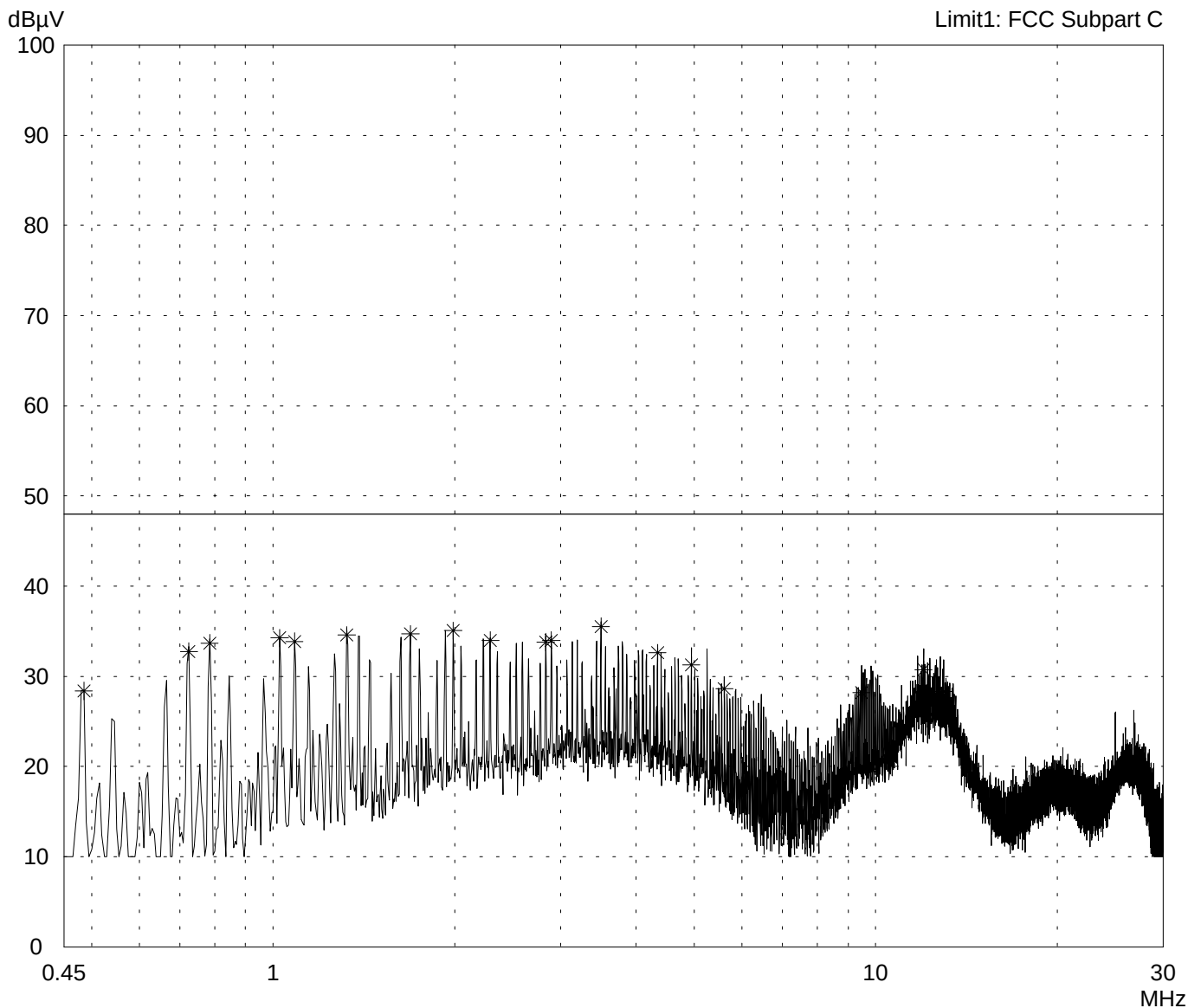
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	- with external antenna Melco WLE-DA standing on table in vertical position
Test site: Shielded room, cabin no. 1	- operating with bit rate 11 Mbps
Tested on: Linecord personal computer (EUT) Phase L1	- RX mode with f = 2.442 GHz
Date of test: 04/03/2002	Operator: R. Heller
Test performed: automatically	File name:

Detector: Peak / Final Results: QP	Final results: 20 dB Margin	25 Subranges
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<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>
0.485	28.4		28.4	48.0	
0.725	32.7		32.7	48.0	
0.785	33.7		33.7	48.0	
1.025	34.3		34.3	48.0	
1.085	33.8		33.8	48.0	
1.325	34.6		34.6	48.0	
1.690	34.7		34.7	48.0	
1.990	35.1		35.1	48.0	
2.295	34.0		34.0	48.0	
2.835	33.8		33.8	48.0	
2.895	34.0		34.0	48.0	
3.500	35.5		35.5	48.0	
4.345	32.6		32.6	48.0	
4.945	31.3		31.3	48.0	
5.610	28.6		28.6	48.0	
9.470	28.2		28.2	48.0	
12.010	30.7		30.7	48.0	
12.970	28.3		28.3	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 135 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 04/03/2002 Operator: R. Heller

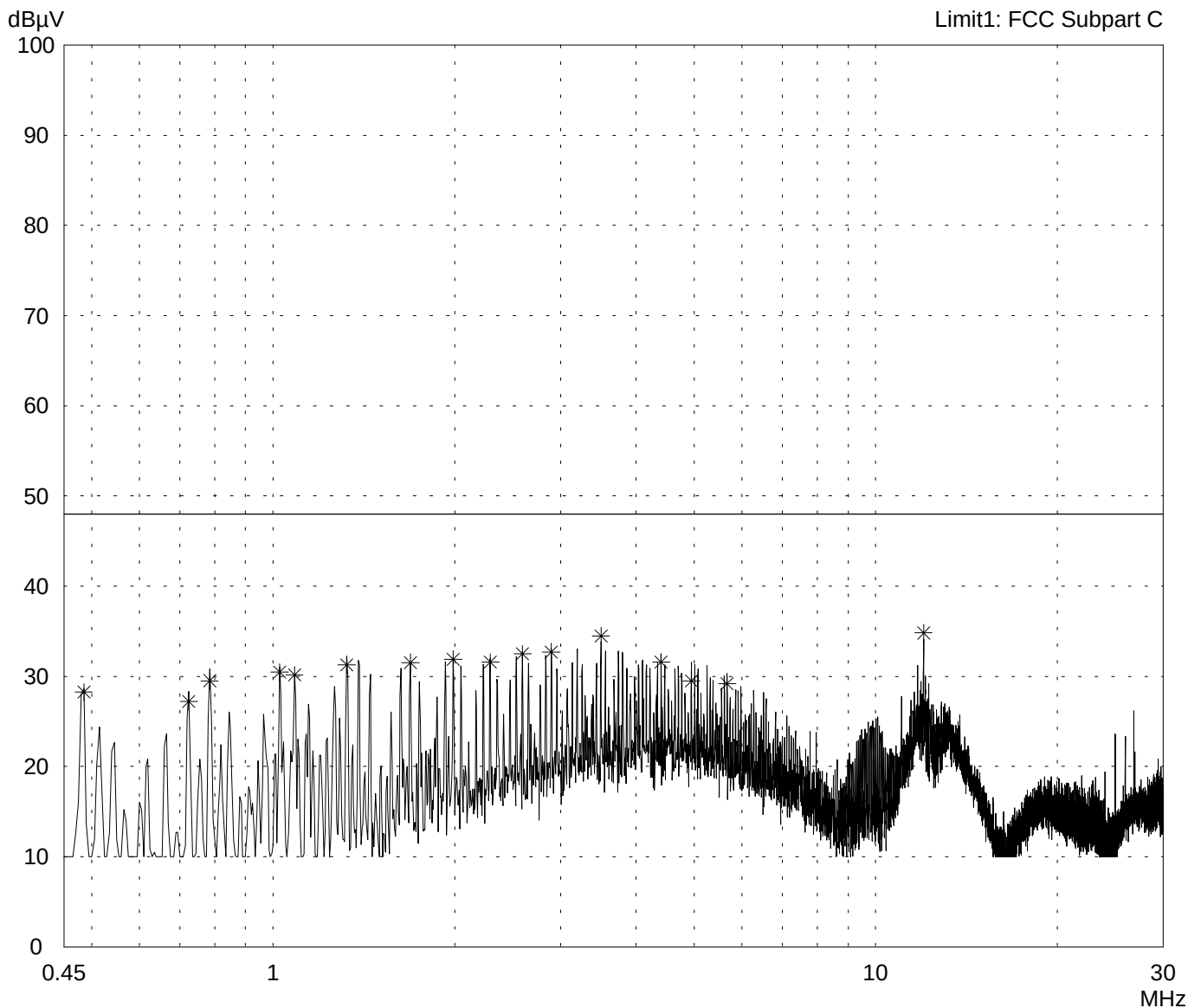
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	- with external antenna Melco WLE-DA standing on table in vertical position
Test site: Shielded room, cabin no. 1	- operating with bit rate 11 Mbps
Tested on: Linecord personal computer (EUT) Phase N	- RX mode with f = 2.442 GHz
Date of test: 04/03/2002	Operator: R. Heller
Test performed: automatically	File name:

Detector: Peak / Final Results: QP	Final results: 20 dB Margin	25 Subranges
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<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>
0.485	28.2		28.2	48.0	
0.725	27.2		27.2	48.0	
0.785	29.5		29.5	48.0	
1.025	30.5		30.5	48.0	
1.085	30.1		30.1	48.0	
1.325	31.3		31.3	48.0	
1.690	31.5		31.5	48.0	
1.990	31.9		31.9	48.0	
2.295	31.6		31.6	48.0	
2.595	32.5		32.5	48.0	
2.895	32.7		32.7	48.0	
3.500	34.5		34.5	48.0	
4.405	31.6		31.6	48.0	
4.945	29.5		29.5	48.0	
5.670	29.2		29.2	48.0	
12.010	34.8		34.8	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 137 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 04/03/2002 Operator: R. Heller

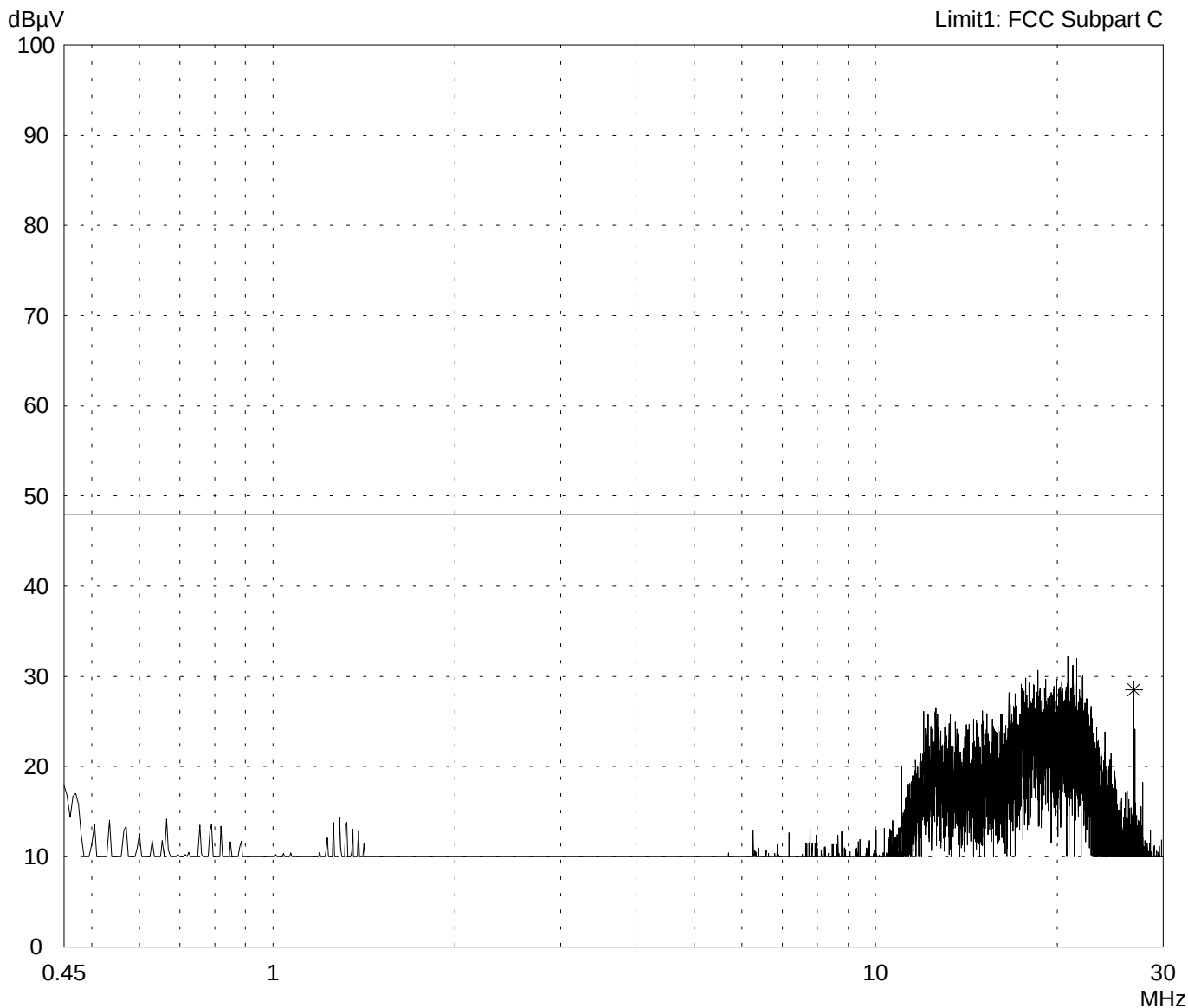
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S		Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - 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
Serial no.: 02UT06373519		
Applicant: Agere Systems Nederland B.V.		
Test site: Shielded room, cabin no. 1		
Tested on: Linecord peripheral devices Phase L1		
Date of test: 04/03/2002	Operator: R. Heller	
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>
17.73	22.7		22.7	48.0	
20.85	25.2		25.2	48.0	
21.54	24.6		24.6	48.0	
26.82	28.5		28.5	48.0	

Result: Limit kept	Project file: 56305-20162-3	Page 139 of 152 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord peripheral devices
Phase N

Date of test: 04/03/2002 Operator: R. Heller

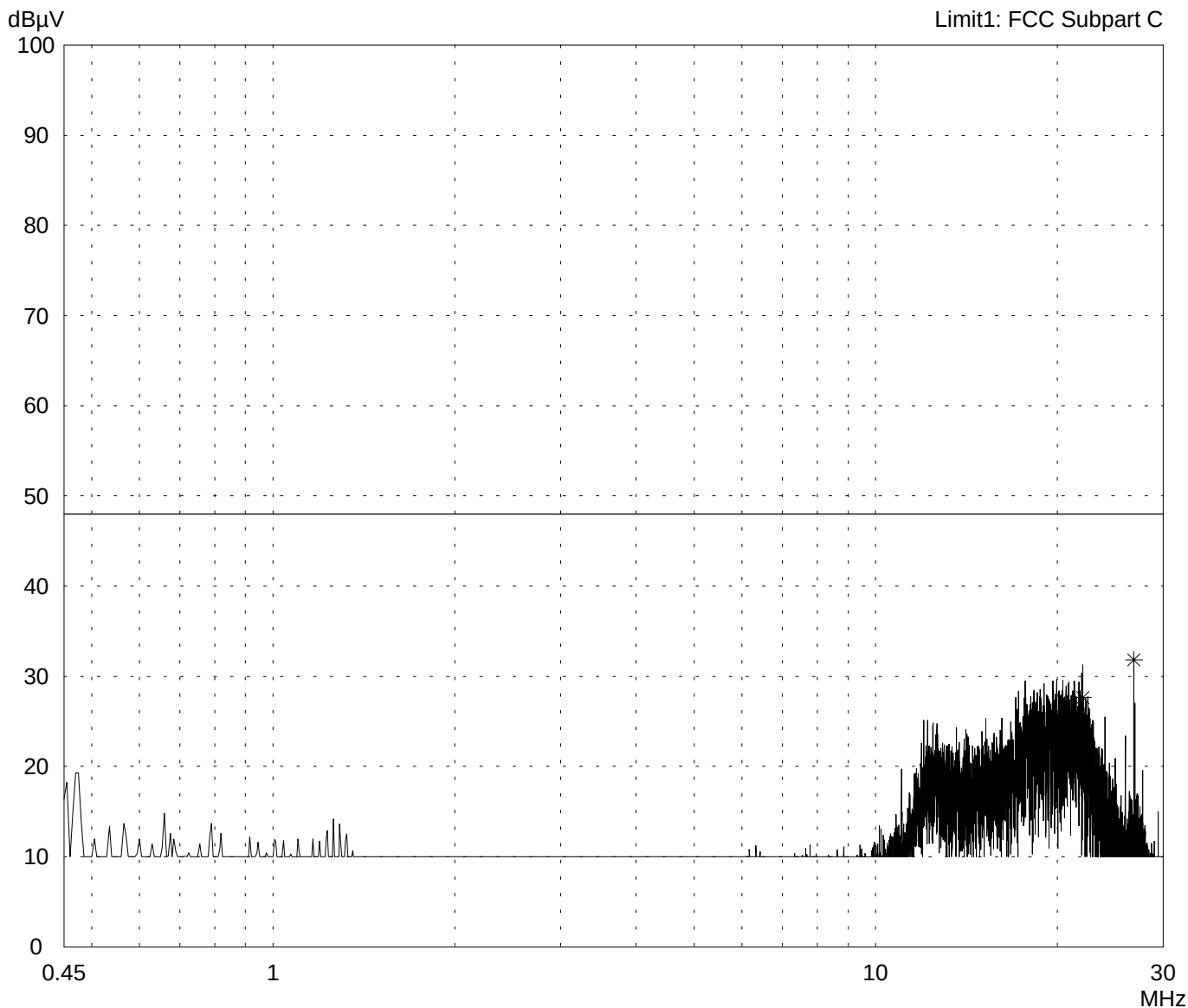
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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 / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-20162-3

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Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R S		Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W - with external antenna Melco WLE-DA standing on table in vertical position - operating with bit rate 11 Mbps - RX mode with $f = 2.442 \text{ GHz}$
Serial no.: 02UT06373519		
Applicant: Agere Systems Nederland B.V.		
Test site: Shielded room, cabin no. 1		
Tested on: Linecord peripheral devices Phase N		
Date of test: 04/03/2002	Operator: R. Heller	
Test performed: automatically	File name:	

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

[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 141 of 152 Pages
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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator: R. Heller

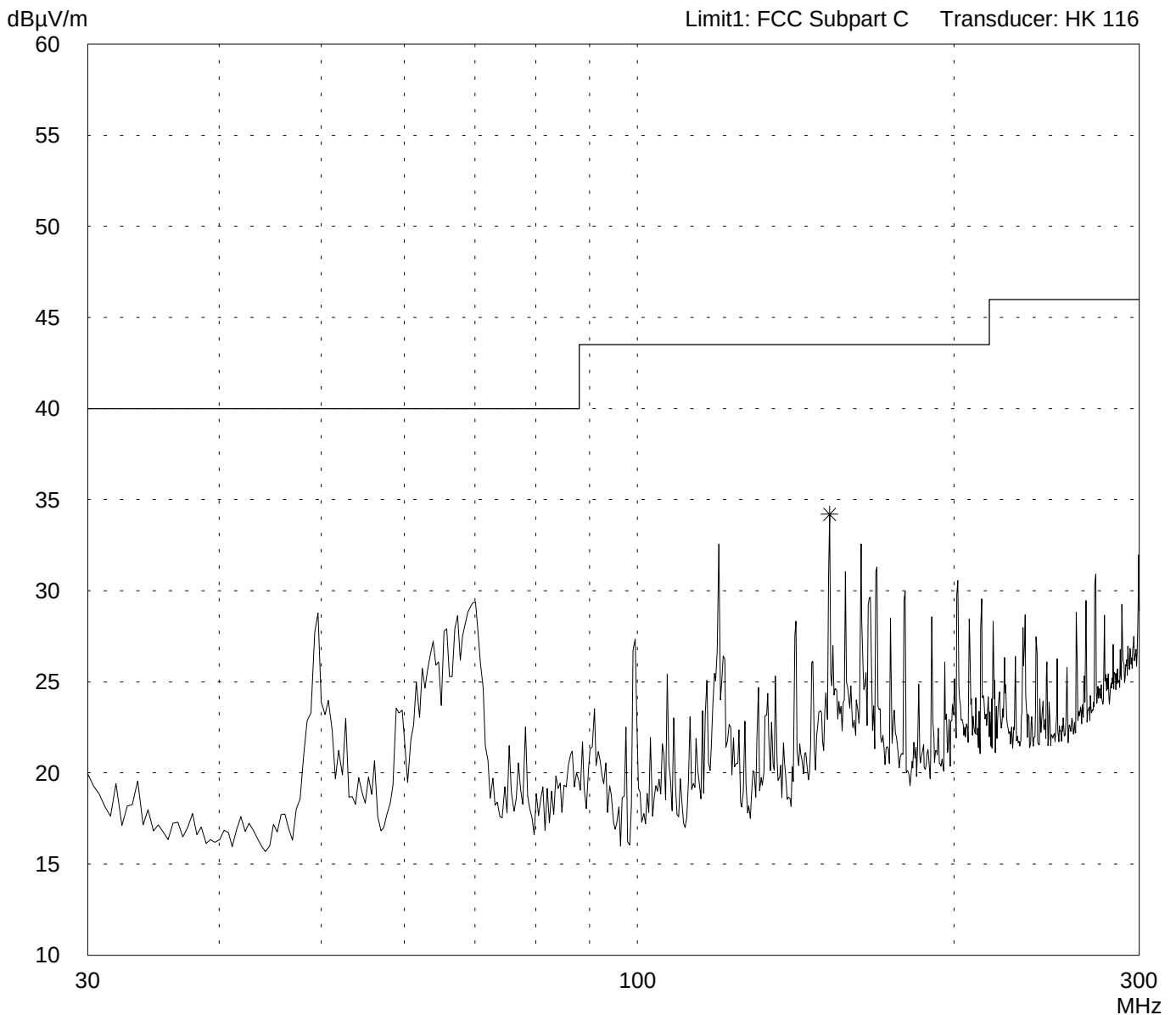
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- 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



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator: R. Heller

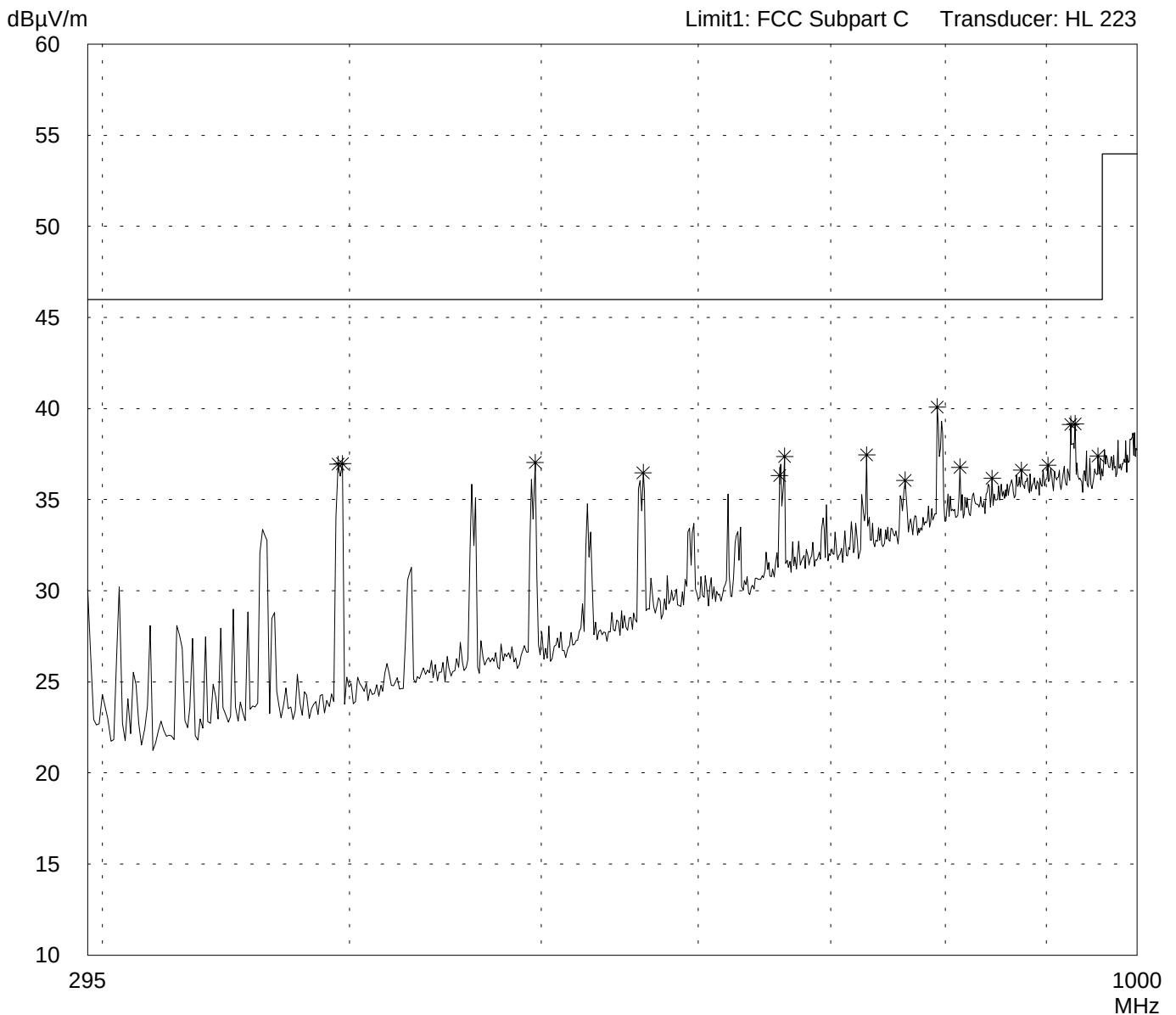
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W
- 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



Result:
Prescan

Project file:
56305-20162-3

Page 143 of 152 Pages

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002 Operator: R. Heller

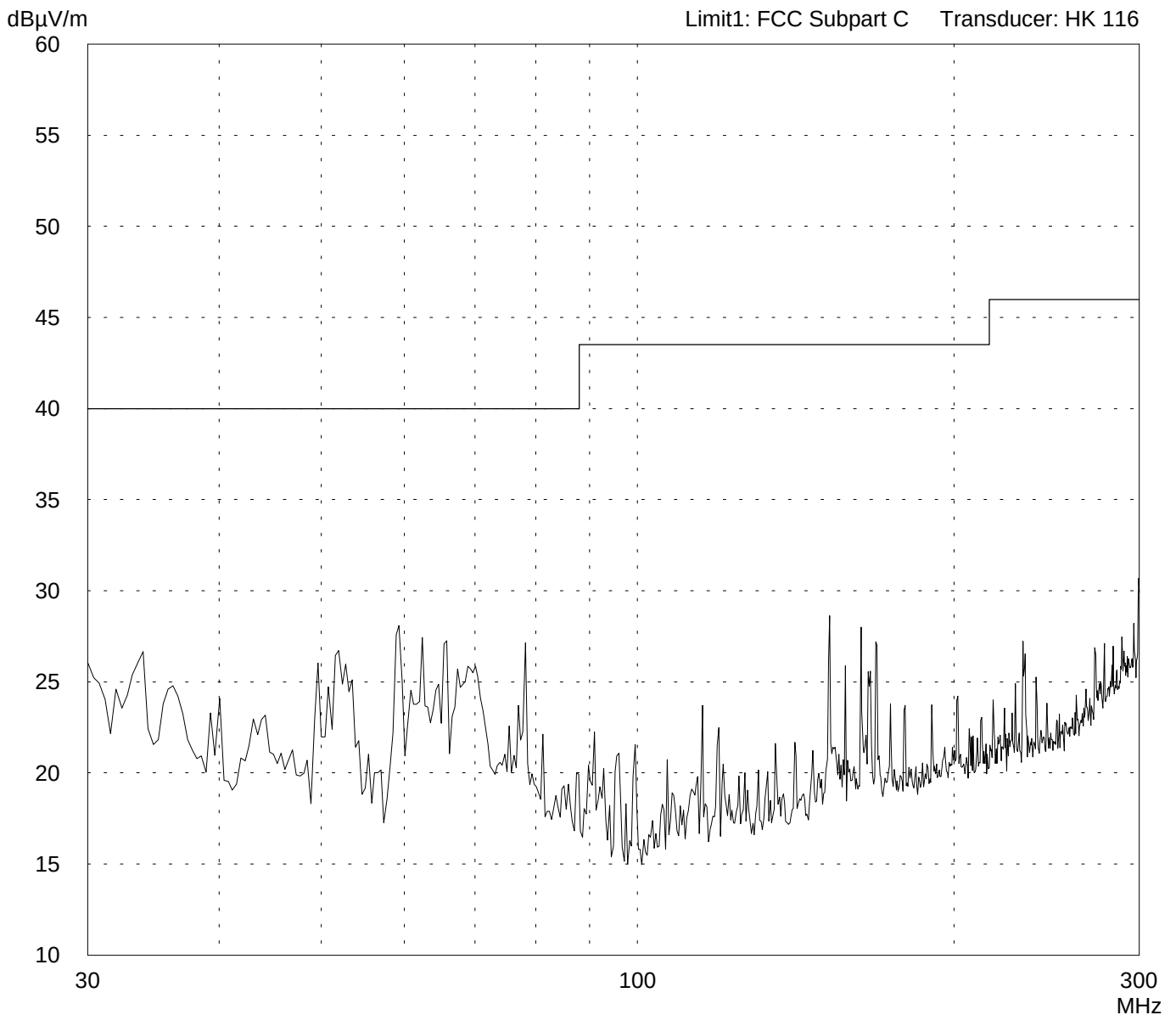
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- 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



Result:
Prescan

Project file:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

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: 03/22/2002
Operator: R. Heller

Test performed: automatically
File name:

Mode:

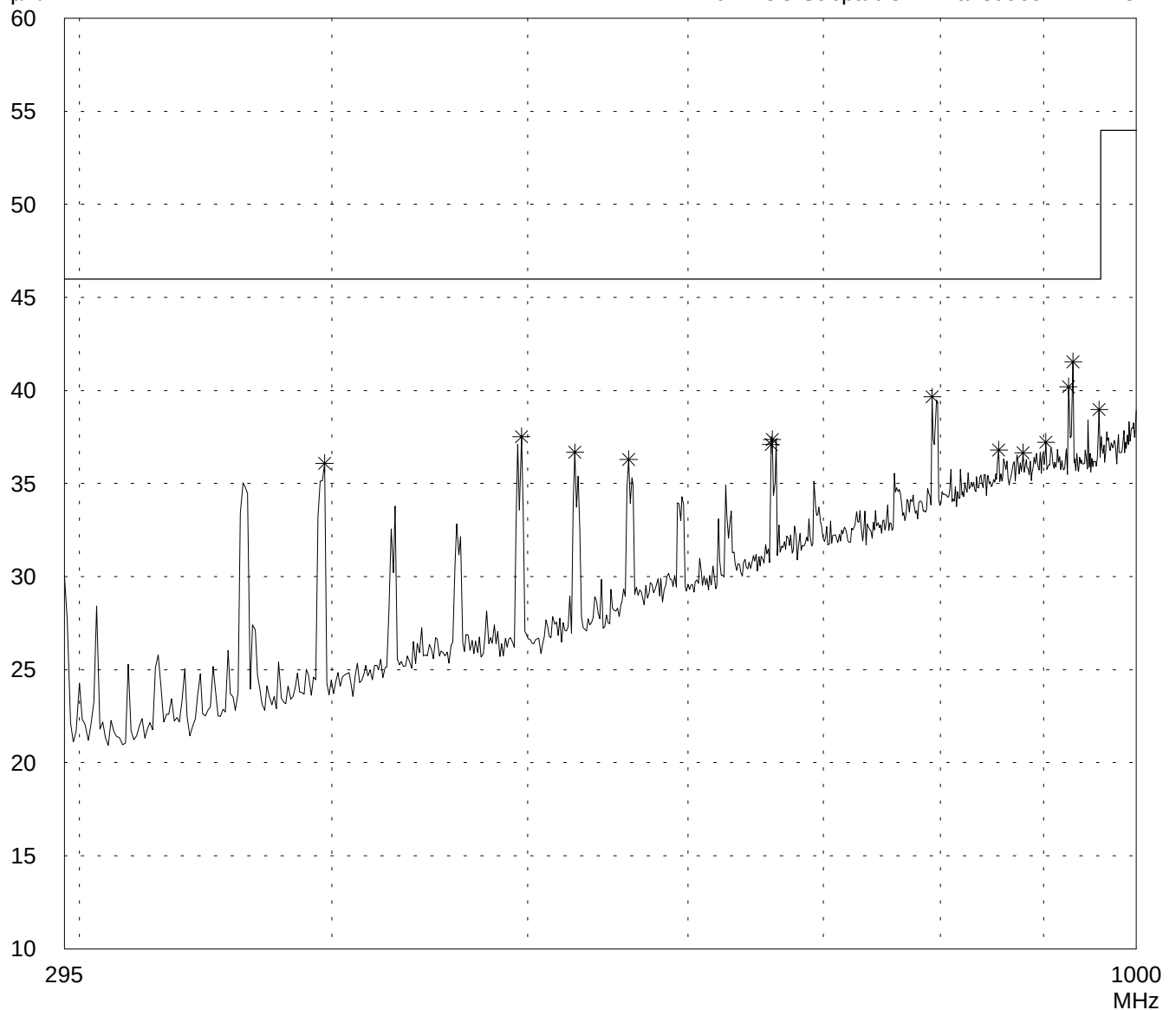
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external antenna Melco WLE-DA standing
on table in vertical position
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

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:
56305-20162-3

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

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
03/28/2002

Operator:
R. Heller

Test performed:
by hand

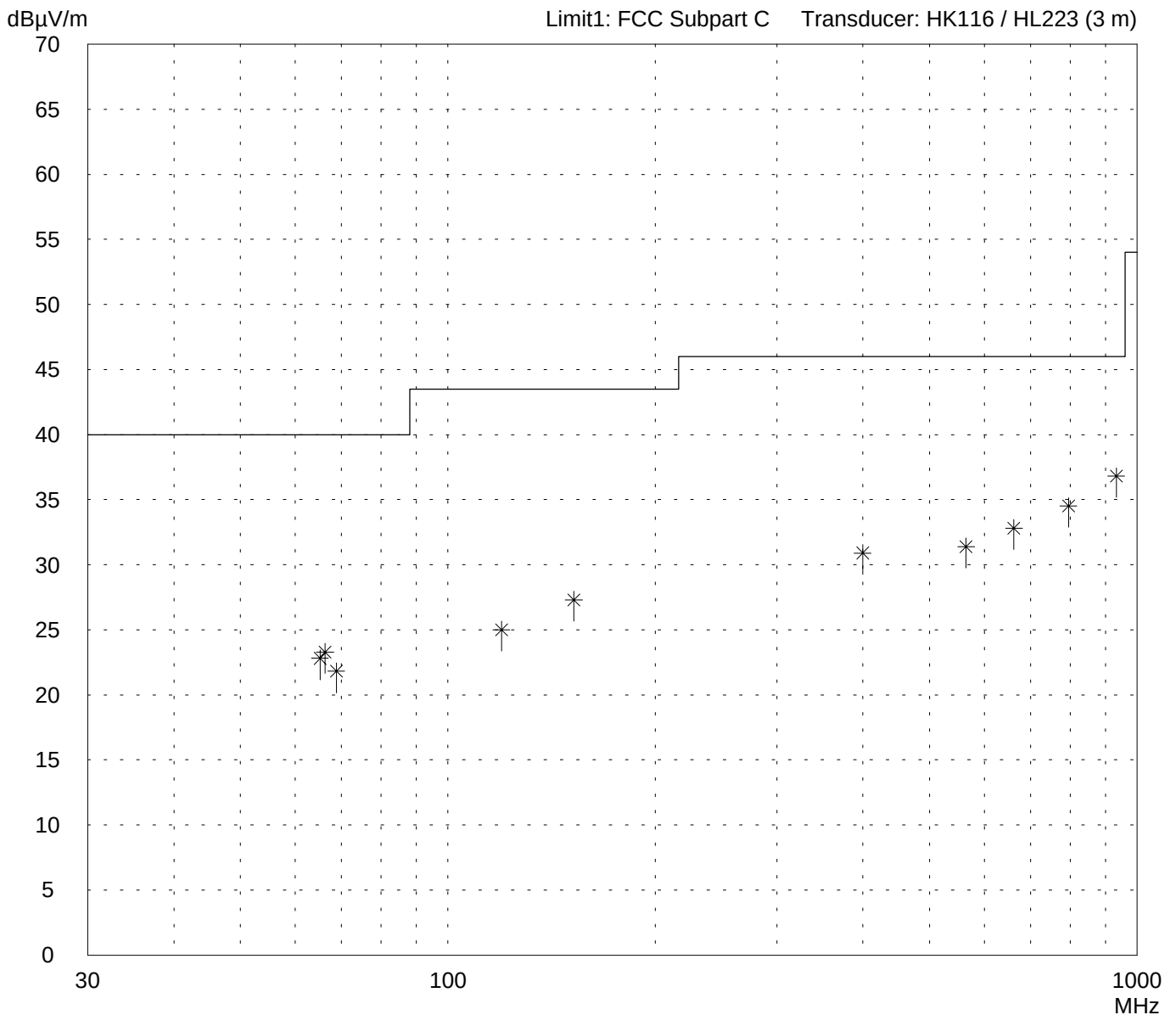
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W - 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
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 03/28/2002 Operator: R. Heller	
Test performed: by hand File name:	List of values: Selected by hand
Detector: Quasi-Peak	

<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>
65.21	12.0	10.8	22.8	40.0	
66.31	12.5	10.8	23.3	40.0	
68.84	11.0	10.8	21.8	40.0	
119.55	10.5	14.5	25.0	43.5	
152.28	11.0	16.3	27.3	43.5	
399.61	8.5	22.4	30.9	46.0	
564.74	4.5	26.9	31.4	46.0	
662.76	3.0	29.8	32.8	46.0	
795.37	2.5	32.0	34.5	46.0	
932.78	2.5	34.3	36.8	46.0	

Result: Limit kept	Project file: 56305-20162-3	Page 147 of 152 Pages
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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R S

Serial no.:
02UT06373519

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 03/28/2002
Operator: R. Heller

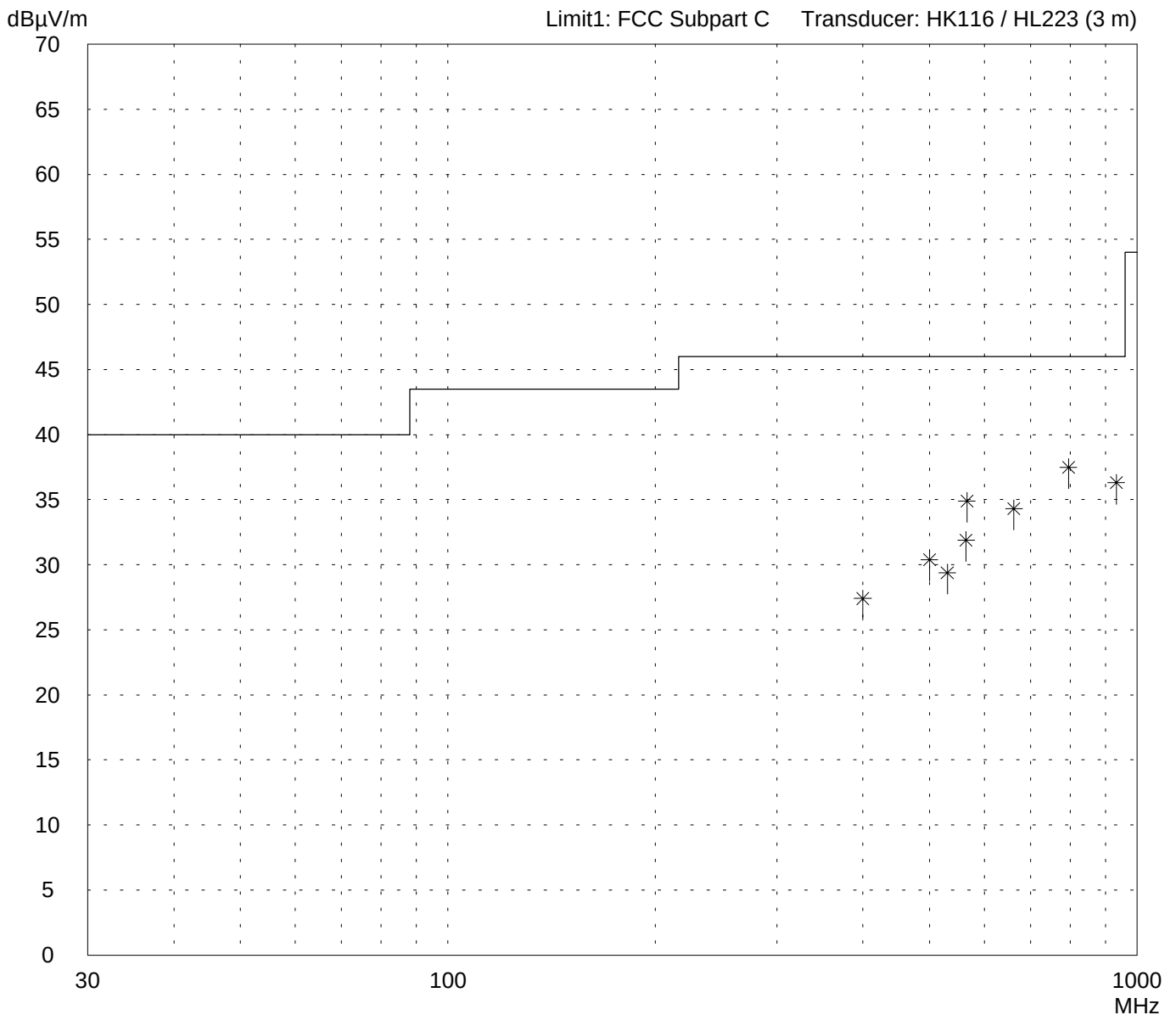
Test performed: by hand
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- 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:
56305-20162-3

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

Model: PC24E-11-FC/R S	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W - 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
Serial no.: 02UT06373519	
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 03/28/2002 Operator: R. Heller	
Test performed: by hand File name:	

Detector: Quasi-Peak	List of values: Selected by hand
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[illegible]

Result: Limit kept	Project file: 56305-20162-3	Page 149 of 152 Pages
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**Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C (§15.209)**

Model: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna
mounted on left side of PC
- 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]
1.2009	vertical	18.9	0.5	26.3	45.6	74
1.3342	vertical	24.6	0.5	26.5	51.6	74
2.0009	vertical	14.8	0.6	29.1	44.5	74
2.2587	horizontal	14.1	0.6	29.9	44.6	74
2.4027	horizontal	14.7	0.6	30.3	45.6	74
2.5253	vertical	14.3	0.6	30.7	45.6	74
2.7980	vertical	18.9	0.7	23.7	43.2	74
4.8894	vertical	12.9	0.9	27.3	41.1	74

Result: The limits are kept

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

Model: PC24E-11-FC/R S
Type: RF-modem for wireless LAN
Serial No.: 02UT06373519
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 03/19/2002
Operator: R. Heller

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100
via PCI-adapter Orinoco PCI-33W
- with external Telex 2.4 GHz WLAN directional antenna
mounted on left side of PC
- 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]
1.1991	vertical	< 11.4	0.5	26.3	< 38.1	54
1.3279	vertical	14.1	0.5	26.5	41.0	54
2.0009	vertical	< 3.6	0.6	29.1	< 33.3	54
2.2676	vertical	< 4.2	0.6	29.9	< 34.7	54
2.4009	vertical	< 4.8	0.6	30.3	< 35.8	54
2.5342	vertical	< 3.7	0.6	30.7	< 35.0	54

Result: The limits are kept

12. 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