

Straubing, February 14, 2002

## **TEST-REPORT**

**No. 56305-20086-1**

**for**

**PC24E-H-FC with Telex 2.4 GHz WLAN Directional Antenna  
RF-modem for wireless LAN with external antenna**

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

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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-H-FC with Telex 2.4 GHz WLAN Directional Antenna                                                                                                                                                                    |
| Serial number(s):            | 01UT34333360 (RF-modem)<br>1202 (external antenna)                                                                                                                                                                        |
| 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) with external antenna.                                                                    |
| Version:                     | RF-modem and external antenna as delivered, PCI-adapter 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) |
| Parts/accessories:           | see "Configuration of EUT and Peripheral Devices" on page 7                                                                                                                                                               |
| FCC-ID:                      | IMRWLPCE24H                                                                                                                                                                                                               |
| Applicant:<br>(full address) | Agere Systems Nederland B.V.<br>Zadelstede 1-10<br>NL-3431 JZ Nieuwegein<br>The Netherlands                                                                                                                               |
| Contract identification:     | ---                                                                                                                                                                                                                       |
| Contact person:              | Mr. Wout Kerkhof                                                                                                                                                                                                          |
| Manufacturer:                | Agere Systems Nederland B.V.                                                                                                                                                                                              |
| Receipt of EUT:              | January 14, 2002                                                                                                                                                                                                          |
| Date of test:                | February 4 to 13, 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

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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) 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 utility "Client Manager", variant 1, version 2.41.  
According to applicant three different kinds of modulation are used for transmission specified by the appropriate bit rate:

Transmit mode (TX):

| Operating frequency<br>[GHz] | Rated output power (conducted) [dBm] |                   |                  | Test<br>performed <sup>1</sup> |
|------------------------------|--------------------------------------|-------------------|------------------|--------------------------------|
|                              | 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<br>[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                        |                |

<sup>1</sup> Full testing with bit rate 11 Mbps only

## 5. Configuration of EUT and Peripheral Devices

RF-modem module PC24E-H-FC was tested operating with external directional antenna Telex 2.4 GHz WLAN connected and mounted in PC-card slot of personal computer Dell Dimension 4100 via PCI-adapter Orinoco PCI-33W.

External antenna was mounted on left side of PC using appropriate clamp (for details see "Photographs Taken During Testing" starting on page 17).

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                     | 014916/D              | 01UT34333360 | PC24E-H-FC         | Agere        |
| External directional antenna | 2417NL<br>(order no.) | 1202         | Telex 2.4 GHz WLAN | Telex        |
| Personal computer            | ---                   | CZPN30J      | Dimension 4100     | Dell         |
| PCI-adapter                  | 020202/A              | 21790001     | PCI-33W            | Agere        |

Table 1: EUT and accessories

## 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 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

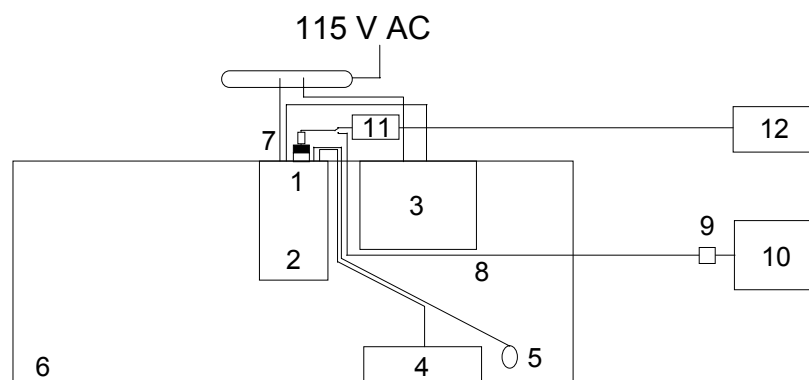


Figure 1: Measurement setup for testing on antenna connector

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

## **7.2. 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 2 for the measurement setup.

Test equipment used (see equipment list for details):

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

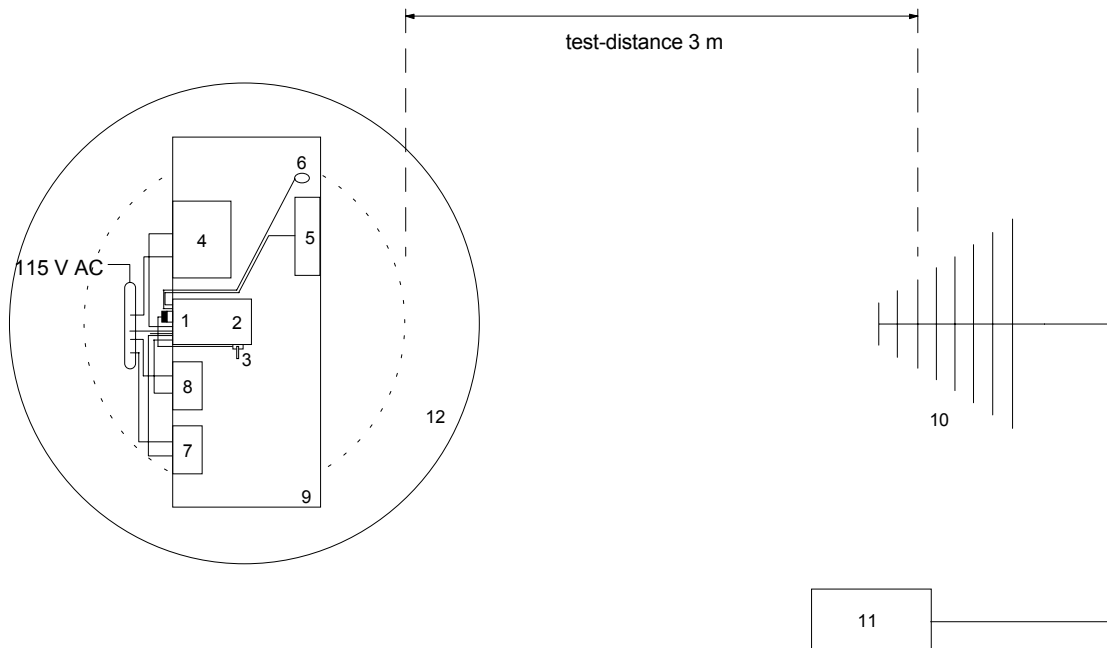


Figure 2: Measurement setup for radiated emission test below 1 GHz

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

### **7.3. 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.

See figure 3 for the measurement setup.

Test equipment used (see equipment list for details):

02, 13, 14, ,42, 43, 44, 45, 46, 47, 48, 49, 57, 64

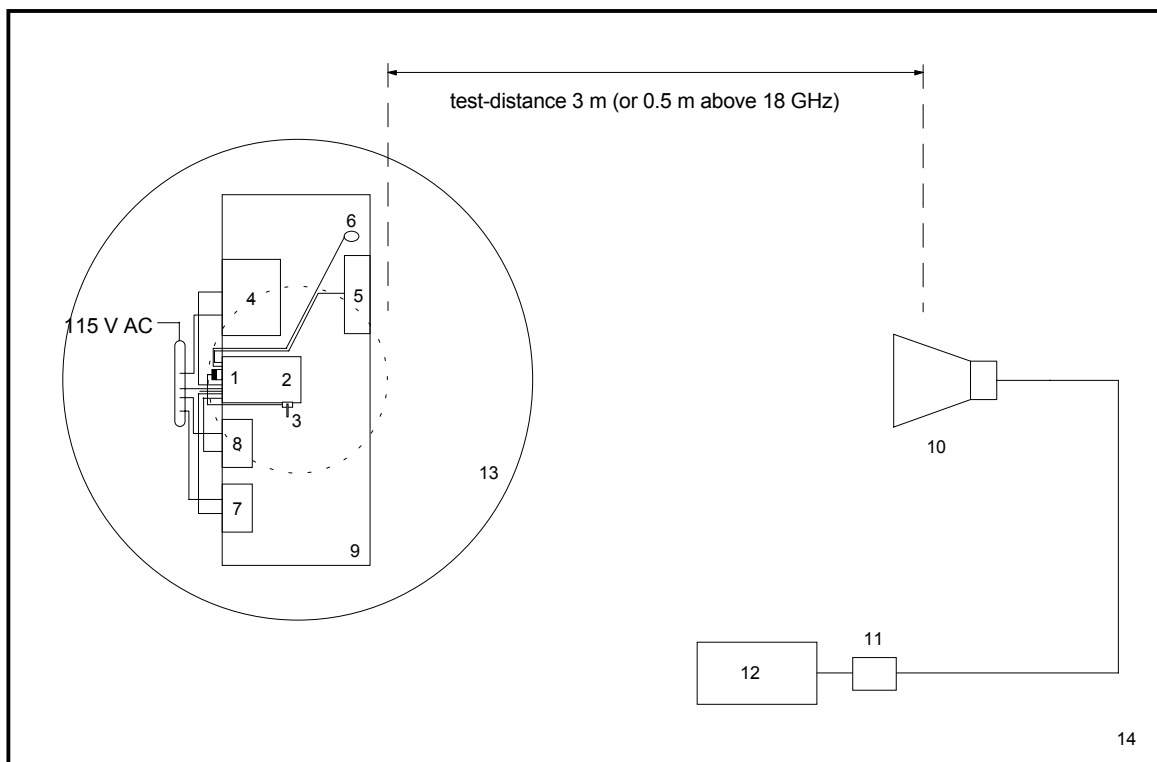


Figure 3: Measurement setup for radiated emission test above 1 GHz

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

## 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.

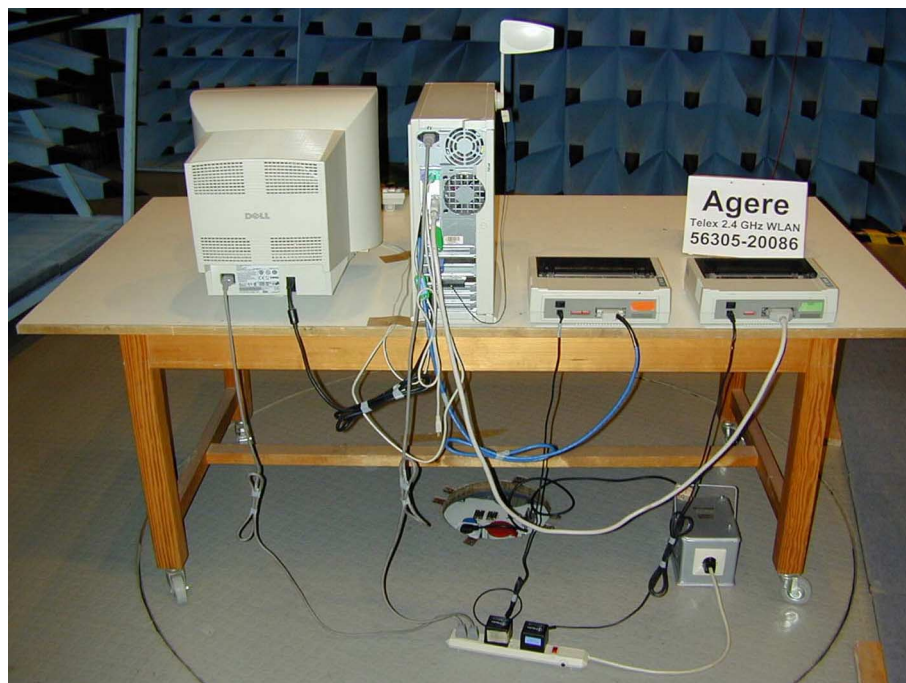
| No. | Type                 | Model               | Serial Number            | Manufacturer    |
|-----|----------------------|---------------------|--------------------------|-----------------|
| 01  | Spectrum Analyzer    | R 3271              | 05050023                 | Advantest       |
| 02  | EMI Test Receiver    | ESMI                | 839379/013<br>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         | AFS3-00100800-32-LN | 847743                   | Miteq           |
| 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  | 1480          | 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

**Photos No. 9.1 - 9.2**

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



**Photos No. 9.3 - 9.4**

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



**Photos No. 9.5 - 9.6**

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



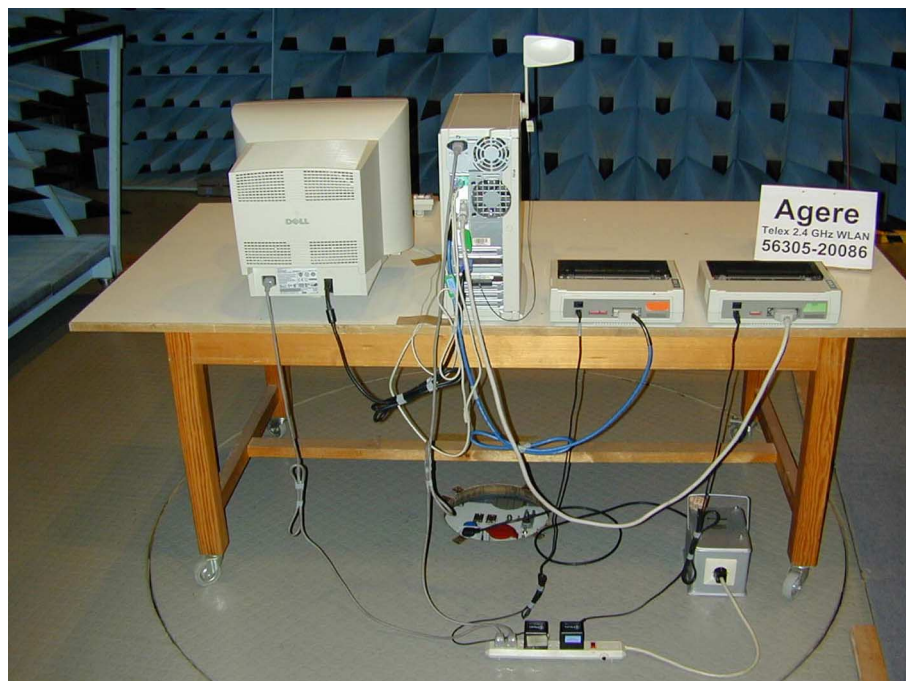
**Photos No. 9.7 - 9.8**

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



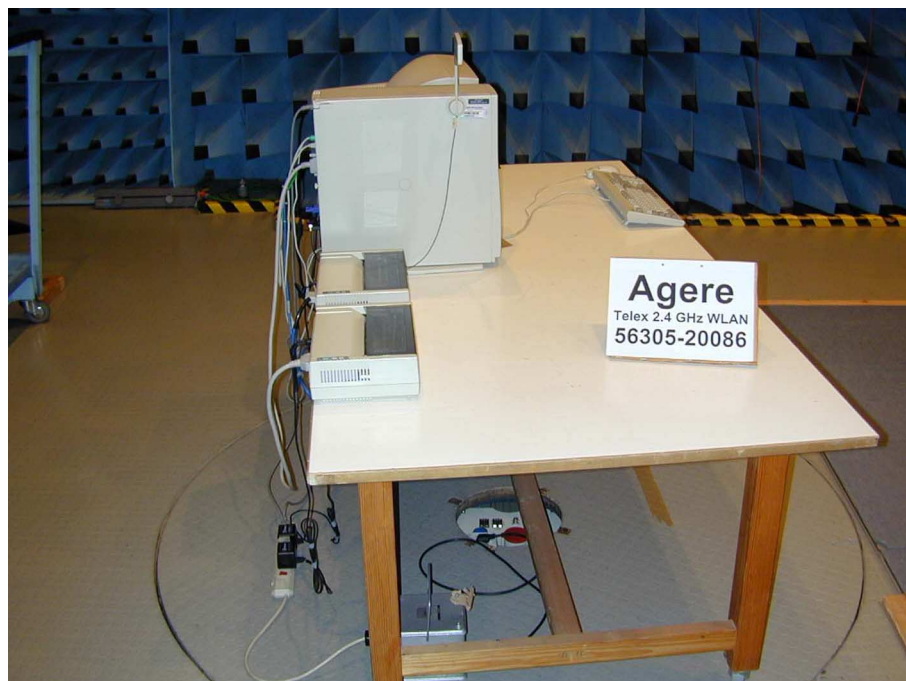
Photos No. 9.9 - 9.10

Test setup for radiated emission test above 1 GHz



Photos No. 9.11 - 9.12

Test setup for radiated emission test above 1 GHz - continued



## 10. List of Measurements

|                                     |                                             |             |                                    |
|-------------------------------------|---------------------------------------------|-------------|------------------------------------|
|                                     |                                             |             |                                    |
| <b>FCC Part 15 Subpart C</b>        |                                             |             |                                    |
| <b>Section(s):</b>                  | <b>Test</b>                                 | <b>Page</b> | <b>Result</b>                      |
|                                     |                                             |             |                                    |
|                                     | <b>Transmit mode (TX):</b>                  | 27          |                                    |
| §15.247.a2                          | Minimum 6 dB bandwidth                      | ---         | not performed                      |
| §15.247.b                           | Maximum peak output power                   | 28          | passed                             |
| §15.247.d                           | Peak power density                          | ---         | not performed                      |
| §15.247.e                           | Processing gain                             | ---         | performed by applicant             |
| §15.207                             | Conducted emission test<br>450 kHz - 30 MHz | ---         | not performed                      |
| §15.247.c<br>§15.209<br>§15.205.a,b | Radiated emission test<br>9 kHz - 30 MHz    | ---         | not applicable<br>(acc. to §15.33) |
| §15.247.c<br>§15.209<br>§15.205.a,b | Radiated emission test<br>30 MHz - 1 GHz    | 29 - 52     | passed                             |
| §15.247.c<br>§15.209<br>§15.205.a,b | Radiated emission test<br>1 GHz - 25 GHz    | 53 - 104    | passed                             |
|                                     |                                             |             |                                    |
|                                     | <b>Receive mode (RX):</b>                   | 105         |                                    |
| §15.207                             | Conducted emission test<br>450 kHz - 30 MHz | ---         | not performed                      |
| §15.209                             | Radiated emission test<br>9 kHz - 30 MHz    | ---         | not applicable<br>(acc. to §15.33) |
| §15.209                             | Radiated emission test<br>30 MHz - 1 GHz    | 106 - 113   | passed                             |
| §15.209                             | Radiated emission test<br>1 GHz - 12.5 GHz  | 114 - 115   | passed                             |
|                                     |                                             |             |                                    |

**Note 1:** Extent of testing was defined by applicant.

**Note 2:** 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-H-FC  
Type: RF-modem for wireless LAN  
Serial No.: 01UT34333360  
Applicant: Agere Systems Nederland B.V.  
Date of test: 02/13/2002  
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
- 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                     | 13.9                      | 0.2                    | 14.1               | 29.5                     |
|                   | 2.442                     | 13.7                      | 0.2                    | 13.9               | 29.5                     |
|                   | 2.462                     | 13.7                      | 0.2                    | 13.9               | 29.5                     |
| 5.5 Mbps          | 2.412                     | 14.0                      | 0.2                    | 14.2               | 29.5                     |
|                   | 2.442                     | 13.8                      | 0.2                    | 14.0               | 29.5                     |
|                   | 2.462                     | 13.8                      | 0.2                    | 14.0               | 29.5                     |
| 2 Mbps            | 2.412                     | 14.0                      | 0.2                    | 14.2               | 29.5                     |
|                   | 2.442                     | 13.8                      | 0.2                    | 14.0               | 29.5                     |
|                   | 2.462                     | 13.7                      | 0.2                    | 13.9               | 29.5                     |

**Note 1:** Total nominal gain of Telex 2.4 GHz WLAN directional antenna is 6.5 dBi (including cable loss). Limit of 30 dBm is reduced by the amount of the effective antenna gain exceeding 6 dBi.

**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

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

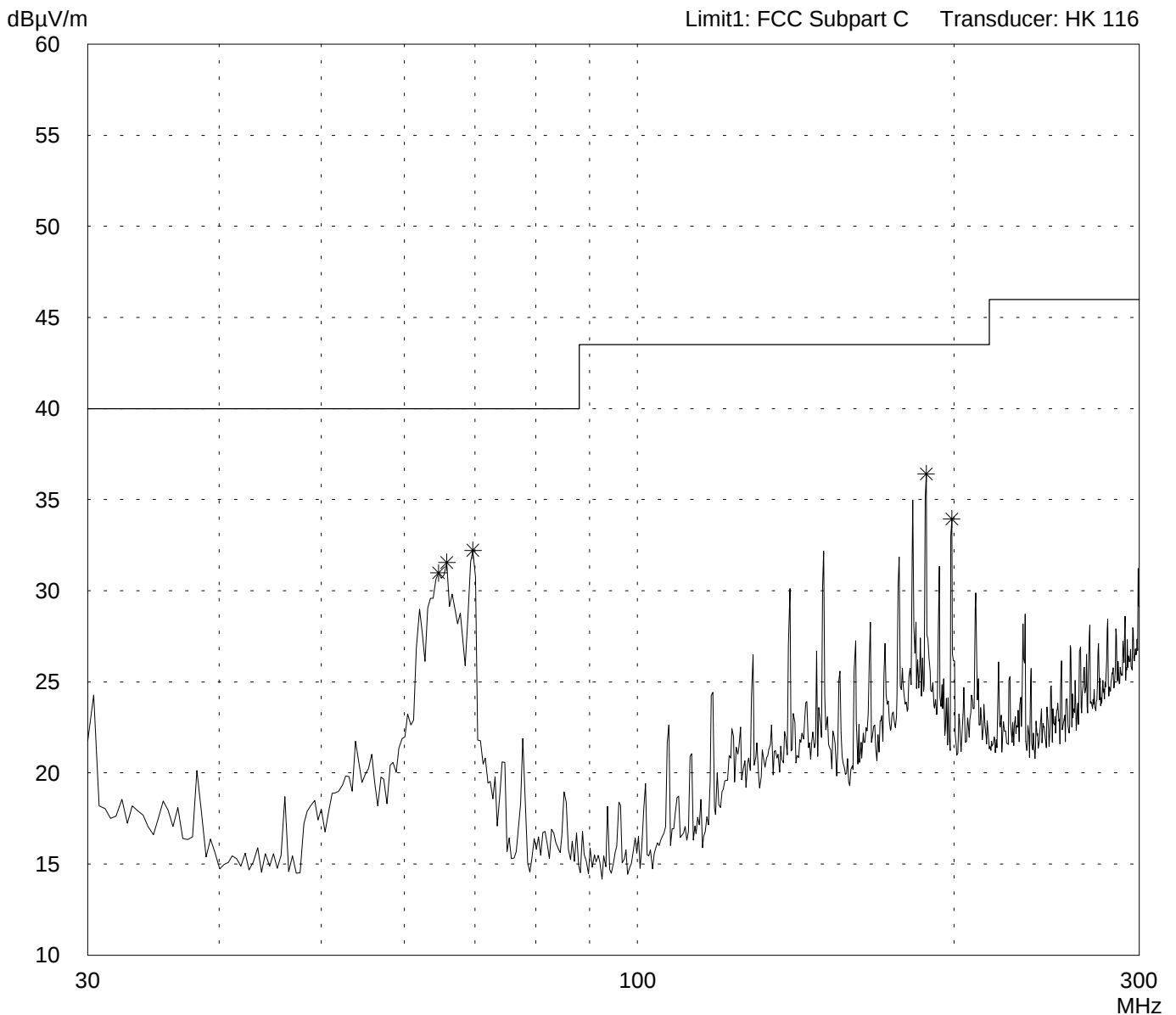
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

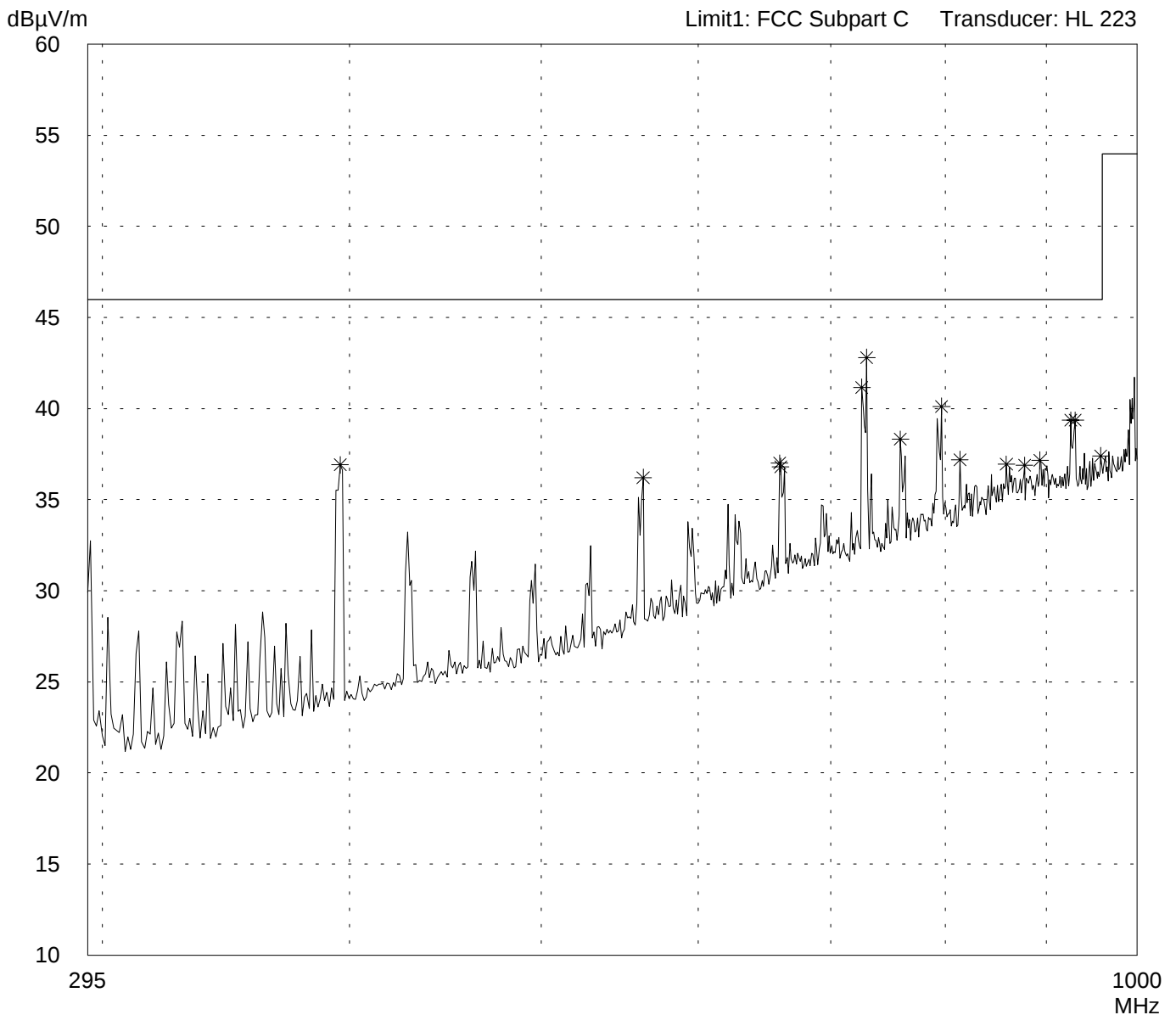
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

Test performed: automatically  
File name:

Mode:

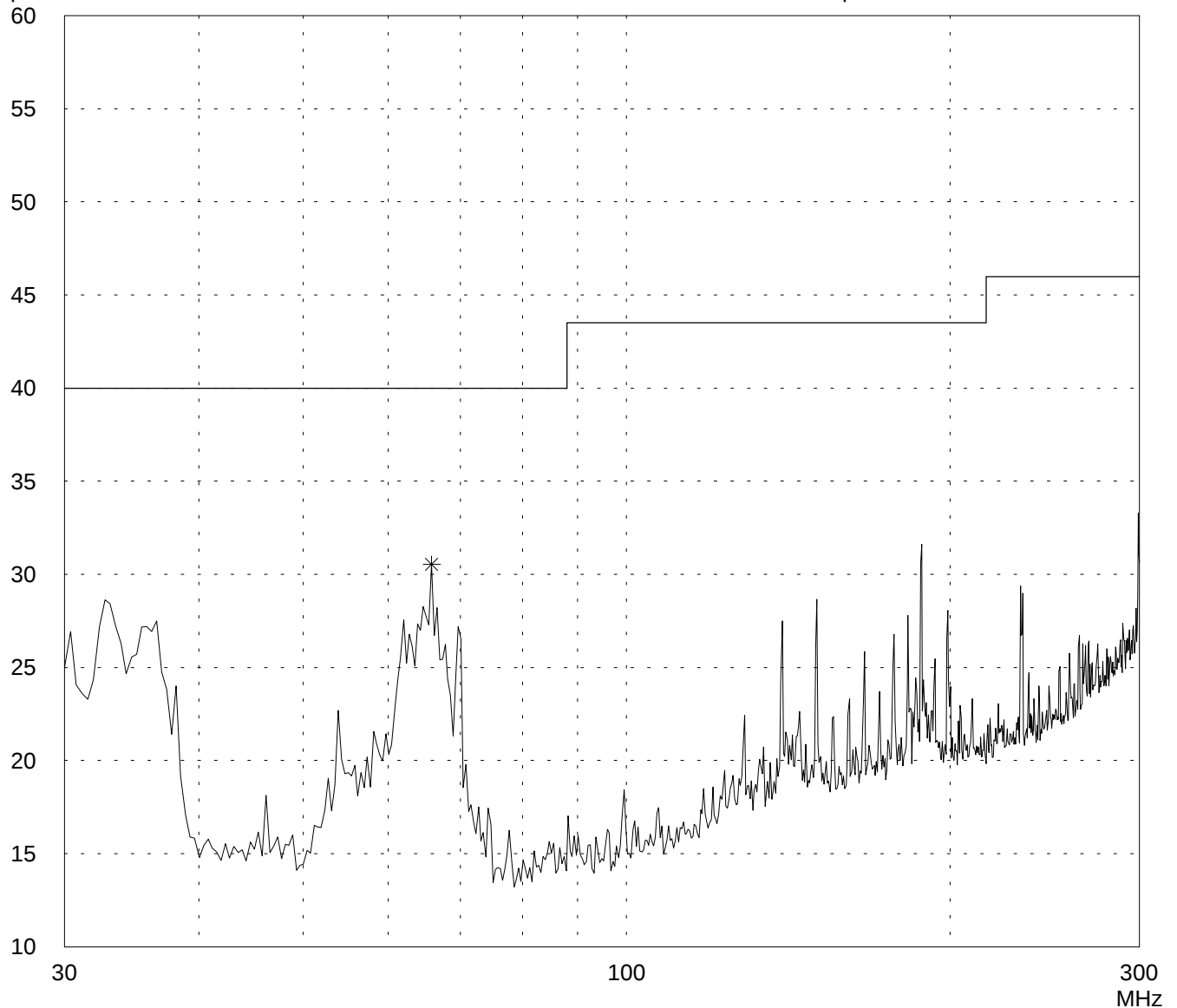
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100  
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external Telex 2.4 GHz WLAN directional  
antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with  $f = 2.412$  GHz

Detector:  
Peak

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:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

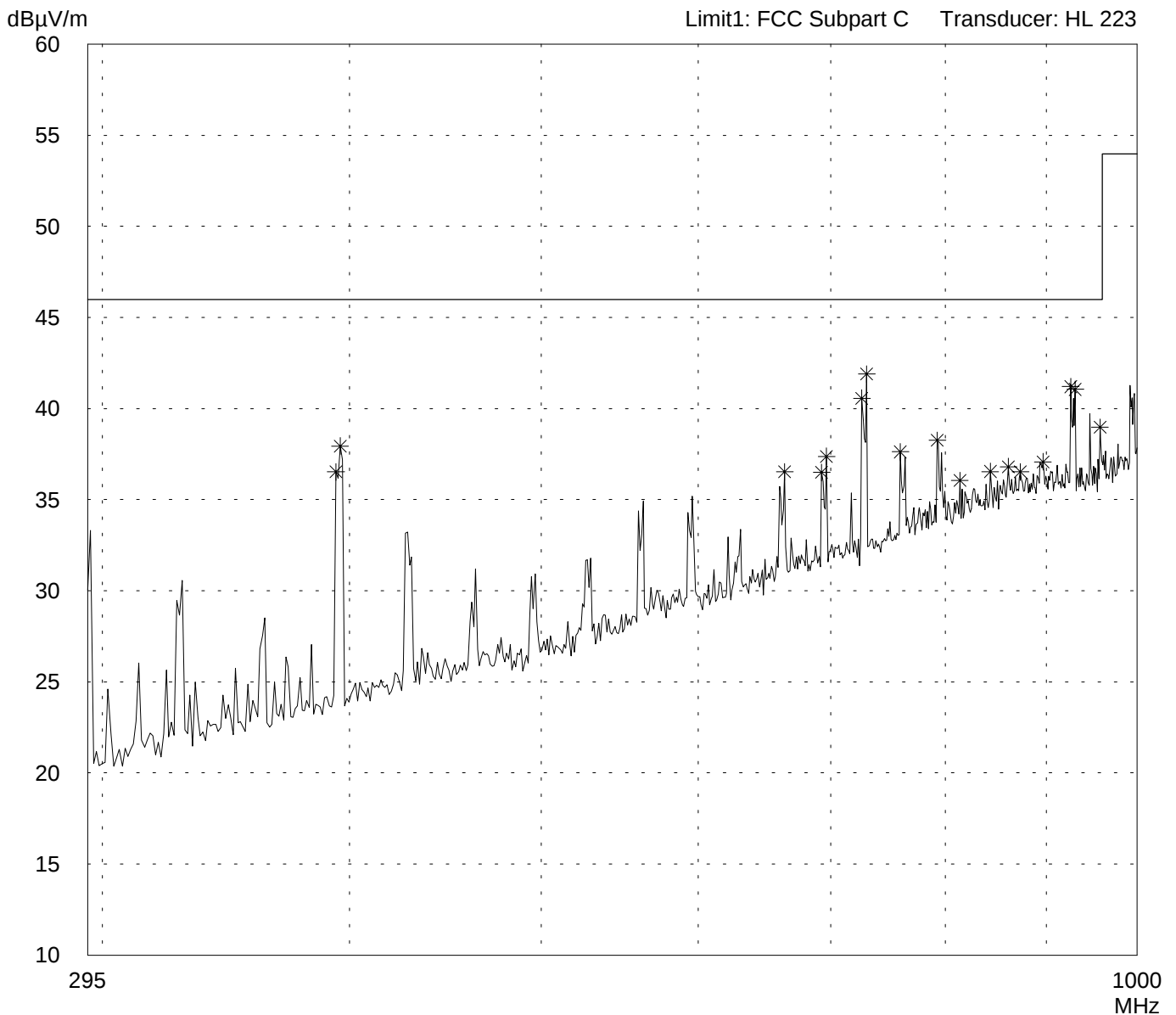
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Horizontal Polarization

Date of test: 02/05/2002  
Operator: R. Heller

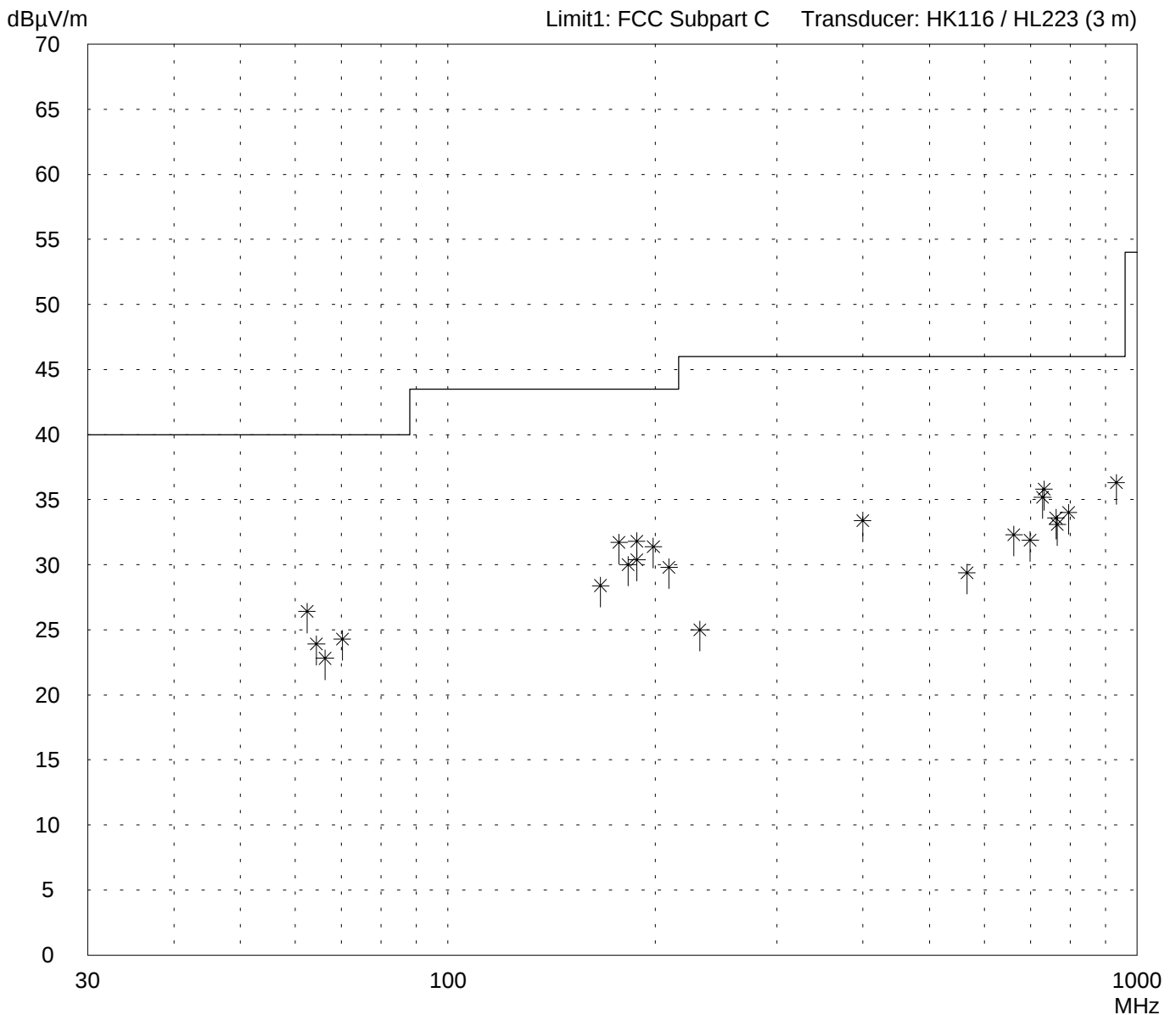
Test performed: by hand  
File name:

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 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:  
Quasi-Peak

List of values:  
Selected by hand



Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Horizontal Polarization

Date of test: 02/05/2002  
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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with  $f = 2.412 \text{ GHz}$

Detector:  
Quasi-Peak

List of values:  
Selected by hand

| Frequency<br>MHz | Reading<br>dB $\mu$ V | Correction factor<br>dB | Value<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Limit<br>exceeded |
|------------------|-----------------------|-------------------------|-----------------------|-----------------------|-------------------|
| 62.43            | 15.5                  | 10.9                    | 26.4                  | 40.0                  |                   |
| 64.41            | 13.0                  | 10.9                    | 23.9                  | 40.0                  |                   |
| 66.33            | 12.0                  | 10.8                    | 22.8                  | 40.0                  |                   |
| 70.24            | 13.5                  | 10.8                    | 24.3                  | 40.0                  |                   |
| 166.51           | 11.5                  | 16.9                    | 28.4                  | 43.5                  |                   |
| 177.11           | 14.0                  | 17.7                    | 31.7                  | 43.5                  |                   |
| 182.48           | 12.0                  | 18.0                    | 30.0                  | 43.5                  |                   |
| 187.85           | 13.5                  | 18.3                    | 31.8                  | 43.5                  |                   |
| 188.03           | 12.0                  | 18.4                    | 30.4                  | 43.5                  |                   |
| 198.58           | 12.5                  | 18.9                    | 31.4                  | 43.5                  |                   |
| 209.31           | 10.5                  | 19.3                    | 29.8                  | 43.5                  |                   |
| 232.03           | 5.0                   | 20.0                    | 25.0                  | 46.0                  |                   |
| 399.66           | 11.0                  | 22.4                    | 33.4                  | 46.0                  |                   |
| 565.99           | 2.5                   | 26.9                    | 29.4                  | 46.0                  |                   |
| 662.81           | 2.5                   | 29.8                    | 32.3                  | 46.0                  |                   |
| 699.50           | 1.0                   | 30.9                    | 31.9                  | 46.0                  |                   |
| 729.08           | 4.0                   | 31.2                    | 35.2                  | 46.0                  |                   |
| 732.87           | 4.5                   | 31.3                    | 35.8                  | 46.0                  |                   |
| 762.21           | 2.0                   | 31.6                    | 33.6                  | 46.0                  |                   |
| 766.16           | 1.5                   | 31.6                    | 33.1                  | 46.0                  |                   |
| 795.27           | 2.0                   | 32.0                    | 34.0                  | 46.0                  |                   |
| 932.70           | 2.0                   | 34.3                    | 36.3                  | 46.0                  |                   |

Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Vertical Polarization

Date of test: 02/05/2002  
Operator: R. Heller

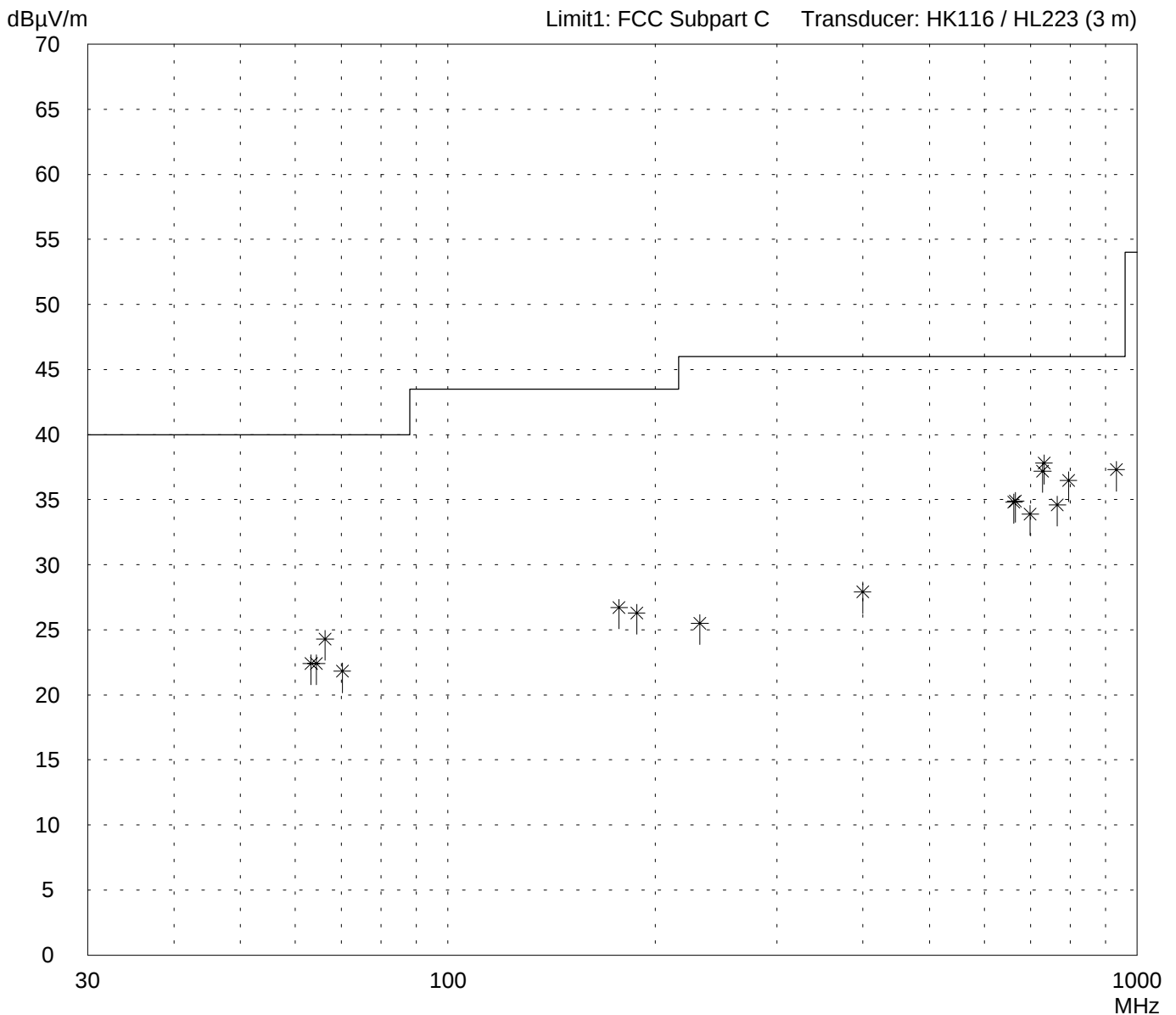
Test performed: by hand  
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- 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:  
Quasi-Peak

List of values:  
Selected by hand



Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Vertical Polarization

Date of test: 02/05/2002  
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 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:  
Quasi-Peak

List of values:  
Selected by hand

| <i>Frequency<br/>MHz</i> | <i>Reading<br/>dB<math>\mu</math>V</i> | <i>Correction factor<br/>dB</i> | <i>Value<br/>dB<math>\mu</math>V/m</i> | <i>Limit<br/>dB<math>\mu</math>V/m</i> | <i>Limit<br/>exceeded</i> |
|--------------------------|----------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|---------------------------|
| 63.30                    | 11.5                                   | 10.9                            | 22.4                                   | 40.0                                   |                           |
| 64.41                    | 11.5                                   | 10.9                            | 22.4                                   | 40.0                                   |                           |
| 66.33                    | 13.5                                   | 10.8                            | 24.3                                   | 40.0                                   |                           |
| 70.24                    | 11.0                                   | 10.8                            | 21.8                                   | 40.0                                   |                           |
| 177.12                   | 9.0                                    | 17.7                            | 26.7                                   | 43.5                                   |                           |
| 187.86                   | 8.0                                    | 18.3                            | 26.3                                   | 43.5                                   |                           |
| 232.03                   | 5.5                                    | 20.0                            | 25.5                                   | 46.0                                   |                           |
| 399.66                   | 5.5                                    | 22.4                            | 27.9                                   | 46.0                                   |                           |
| 662.81                   | 5.0                                    | 29.8                            | 34.8                                   | 46.0                                   |                           |
| 666.17                   | 5.0                                    | 29.9                            | 34.9                                   | 46.0                                   |                           |
| 699.50                   | 3.0                                    | 30.9                            | 33.9                                   | 46.0                                   |                           |
| 729.08                   | 6.0                                    | 31.2                            | 37.2                                   | 46.0                                   |                           |
| 732.87                   | 6.5                                    | 31.3                            | 37.8                                   | 46.0                                   |                           |
| 766.16                   | 3.0                                    | 31.6                            | 34.6                                   | 46.0                                   |                           |
| 795.27                   | 4.5                                    | 32.0                            | 36.5                                   | 46.0                                   |                           |
| 932.70                   | 3.0                                    | 34.3                            | 37.3                                   | 46.0                                   |                           |

Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

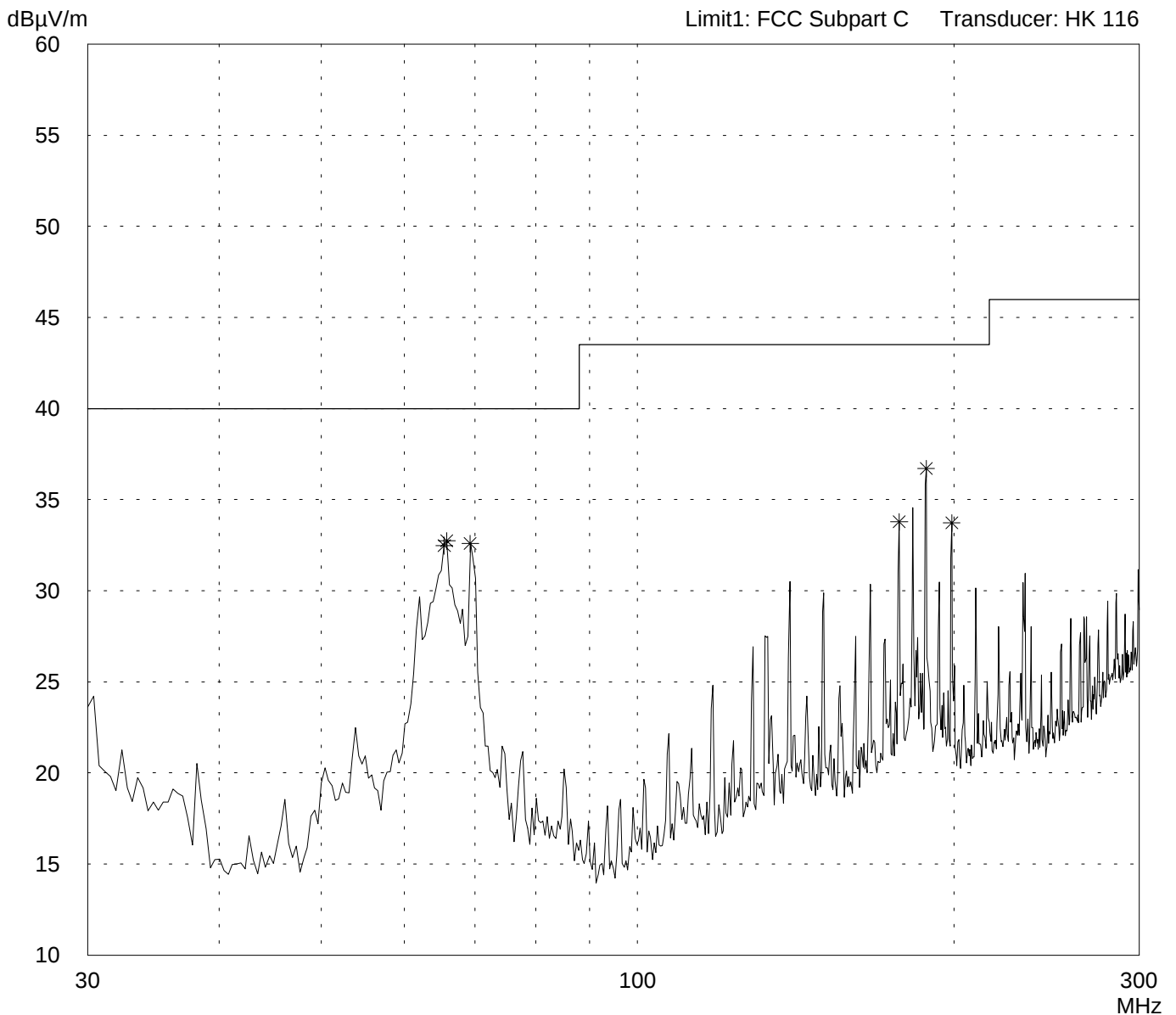
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

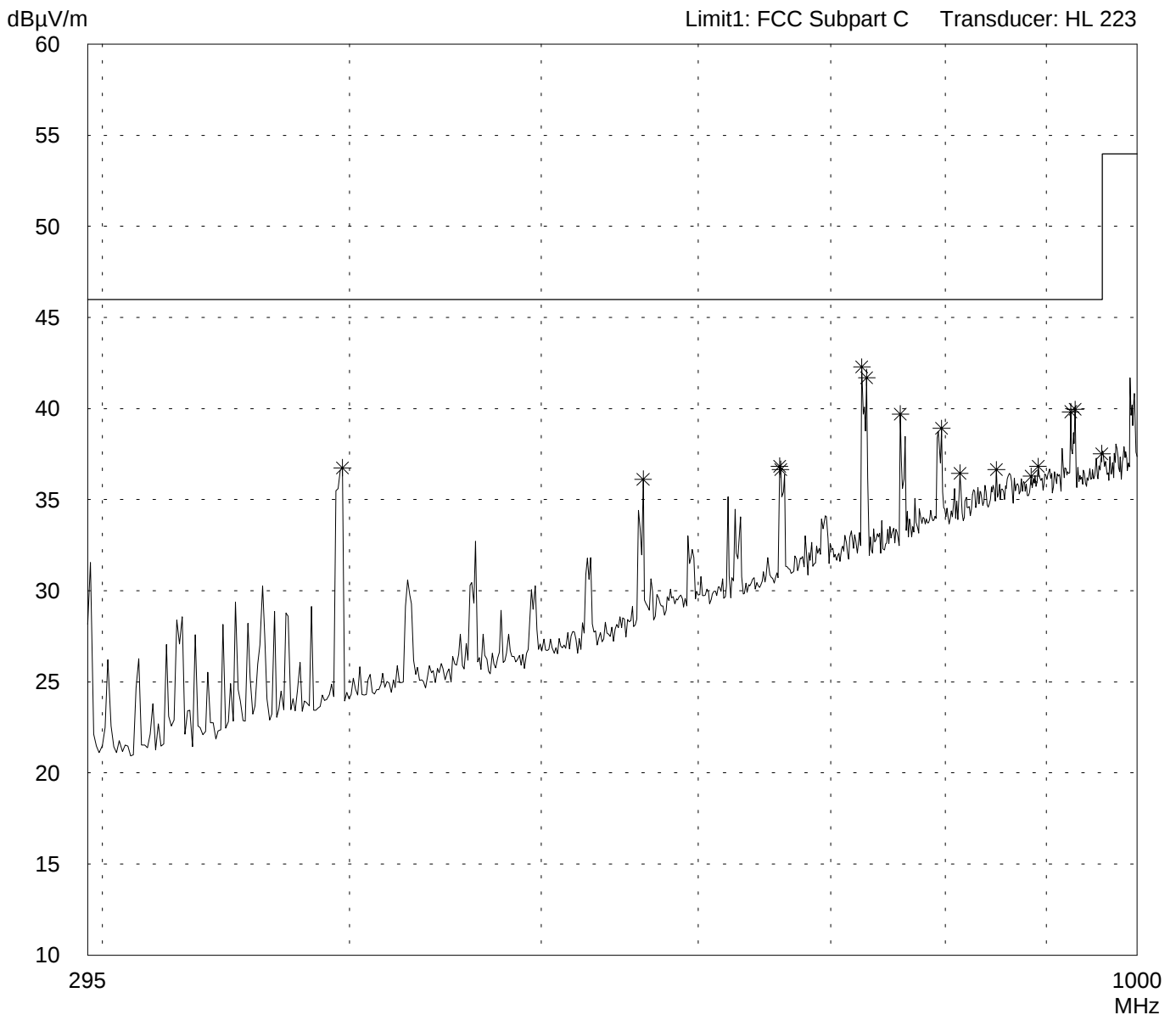
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

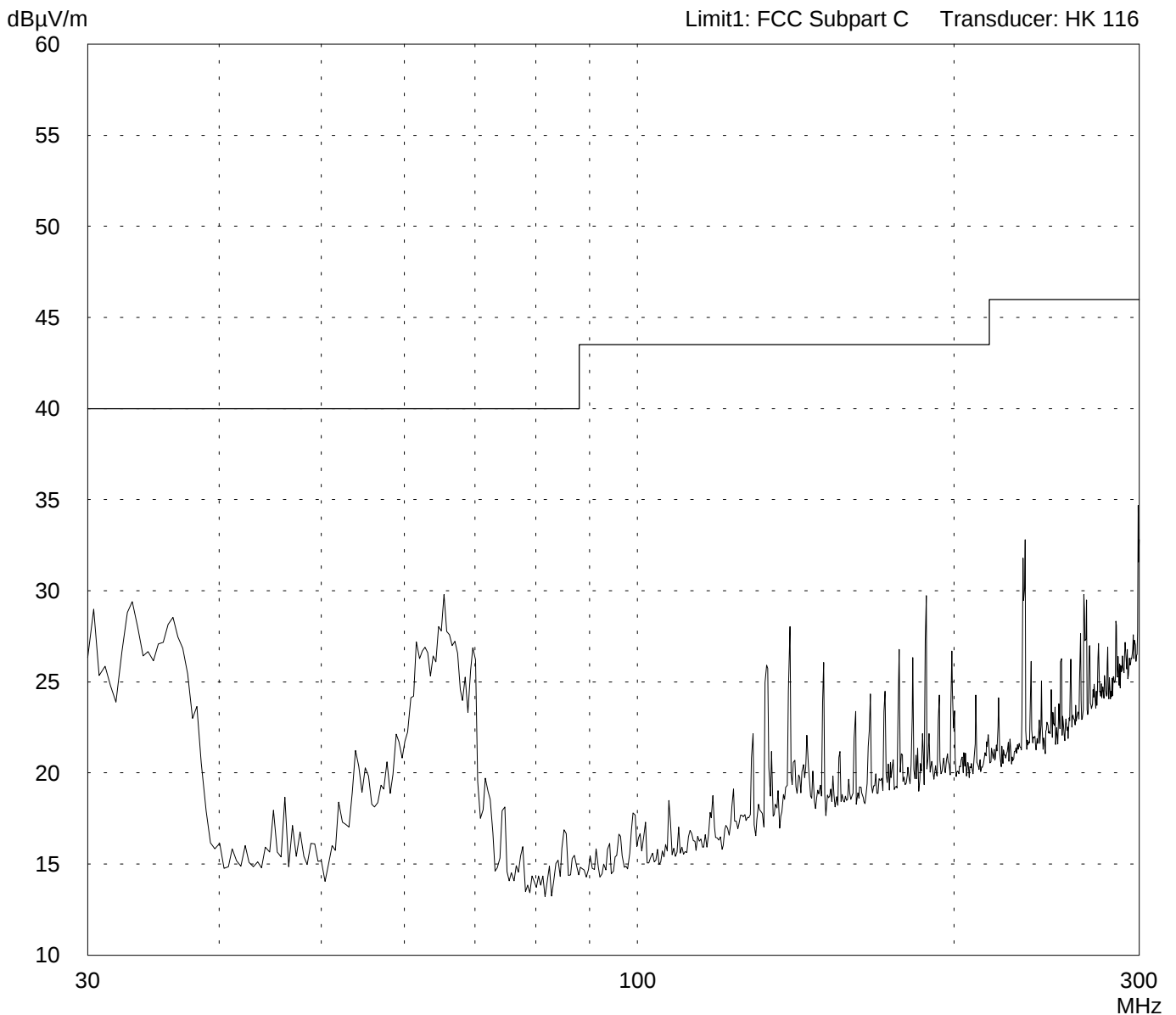
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

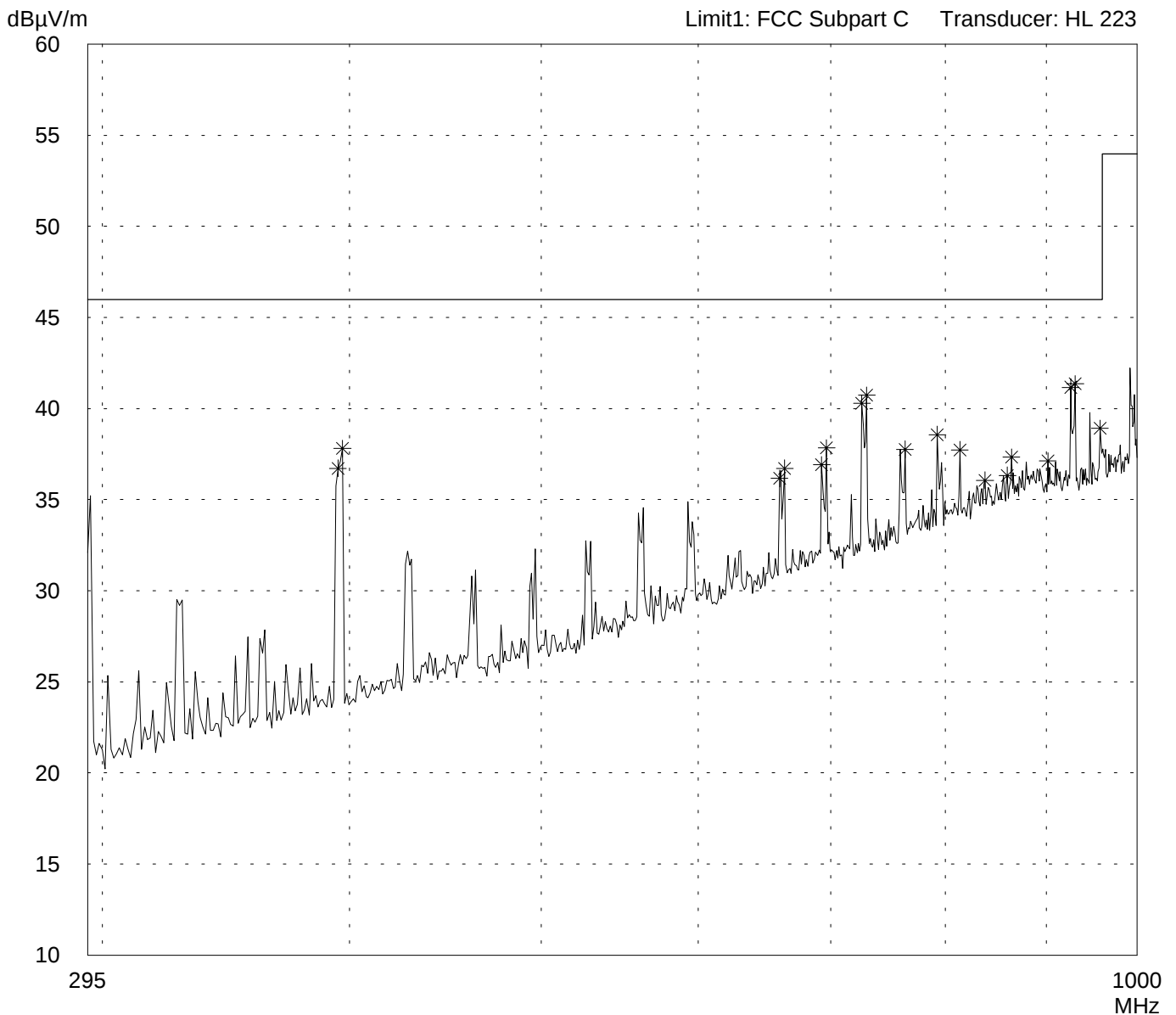
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Horizontal Polarization

Date of test: 02/05/2002  
Operator: R. Heller

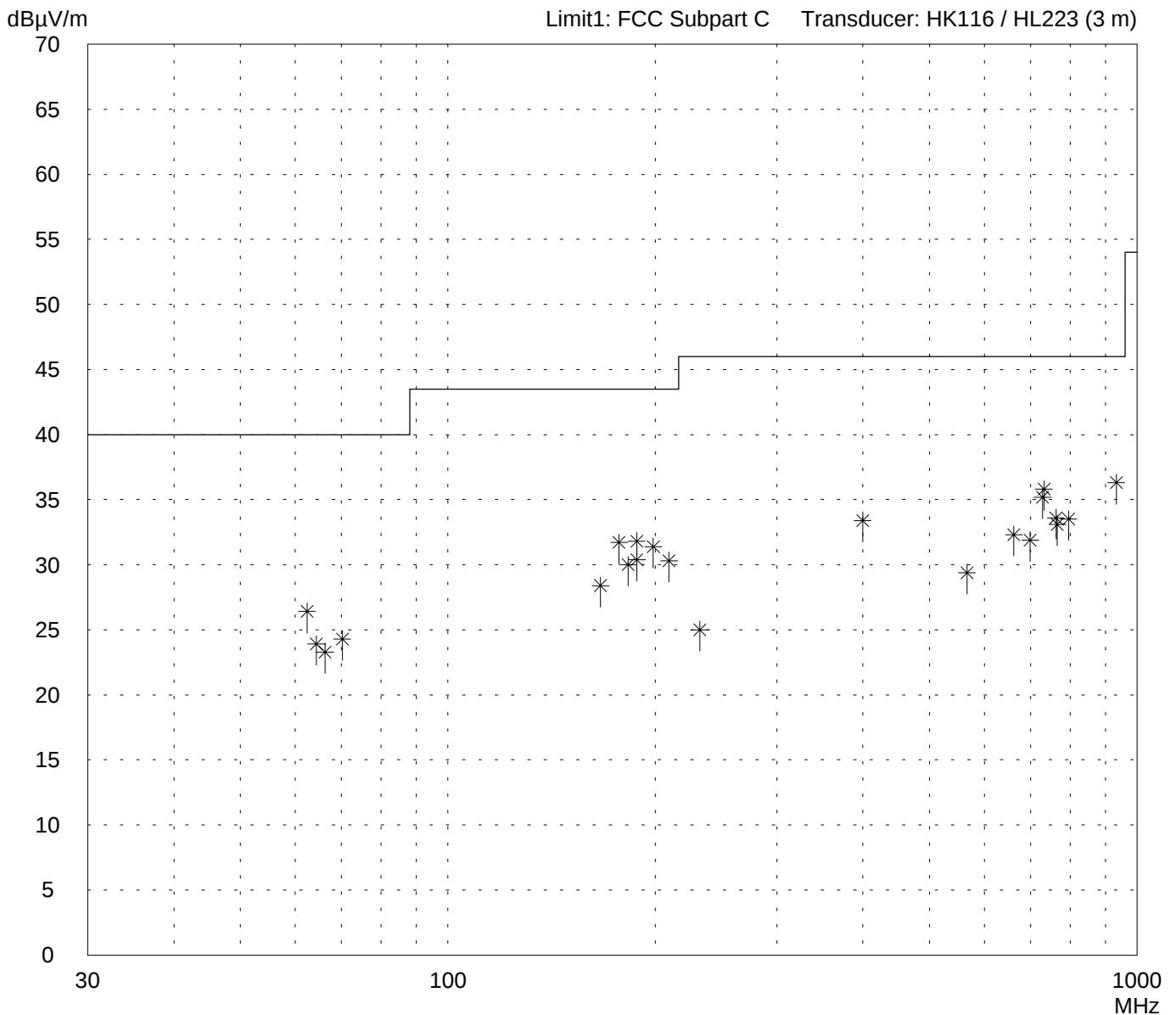
Test performed: by hand  
File name:

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 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:  
Quasi-Peak

List of values:  
Selected by hand



Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Horizontal Polarization

Date of test: 02/05/2002  
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-adaptor Orinoco PCI-33W
- monitor switched off
- 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:  
Quasi-Peak

List of values:  
Selected by hand

| Frequency<br>MHz | Reading<br>dB $\mu$ V | Correction factor<br>dB | Value<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Limit<br>exceeded |
|------------------|-----------------------|-------------------------|-----------------------|-----------------------|-------------------|
| 62.43            | 15.5                  | 10.9                    | 26.4                  | 40.0                  |                   |
| 64.41            | 13.0                  | 10.9                    | 23.9                  | 40.0                  |                   |
| 66.33            | 12.5                  | 10.8                    | 23.3                  | 40.0                  |                   |
| 70.24            | 13.5                  | 10.8                    | 24.3                  | 40.0                  |                   |
| 166.51           | 11.5                  | 16.9                    | 28.4                  | 43.5                  |                   |
| 177.11           | 14.0                  | 17.7                    | 31.7                  | 43.5                  |                   |
| 182.48           | 12.0                  | 18.0                    | 30.0                  | 43.5                  |                   |
| 187.85           | 13.5                  | 18.3                    | 31.8                  | 43.5                  |                   |
| 188.03           | 12.0                  | 18.4                    | 30.4                  | 43.5                  |                   |
| 198.58           | 12.5                  | 18.9                    | 31.4                  | 43.5                  |                   |
| 209.31           | 11.0                  | 19.3                    | 30.3                  | 43.5                  |                   |
| 232.03           | 5.0                   | 20.0                    | 25.0                  | 46.0                  |                   |
| 399.66           | 11.0                  | 22.4                    | 33.4                  | 46.0                  |                   |
| 565.99           | 2.5                   | 26.9                    | 29.4                  | 46.0                  |                   |
| 662.81           | 2.5                   | 29.8                    | 32.3                  | 46.0                  |                   |
| 699.50           | 1.0                   | 30.9                    | 31.9                  | 46.0                  |                   |
| 729.08           | 4.0                   | 31.2                    | 35.2                  | 46.0                  |                   |
| 732.87           | 4.5                   | 31.3                    | 35.8                  | 46.0                  |                   |
| 762.21           | 2.0                   | 31.6                    | 33.6                  | 46.0                  |                   |
| 766.16           | 1.5                   | 31.6                    | 33.1                  | 46.0                  |                   |
| 795.27           | 1.5                   | 32.0                    | 33.5                  | 46.0                  |                   |
| 932.70           | 2.0                   | 34.3                    | 36.3                  | 46.0                  |                   |

Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Vertical Polarization

Date of test: 02/05/2002  
Operator: R. Heller

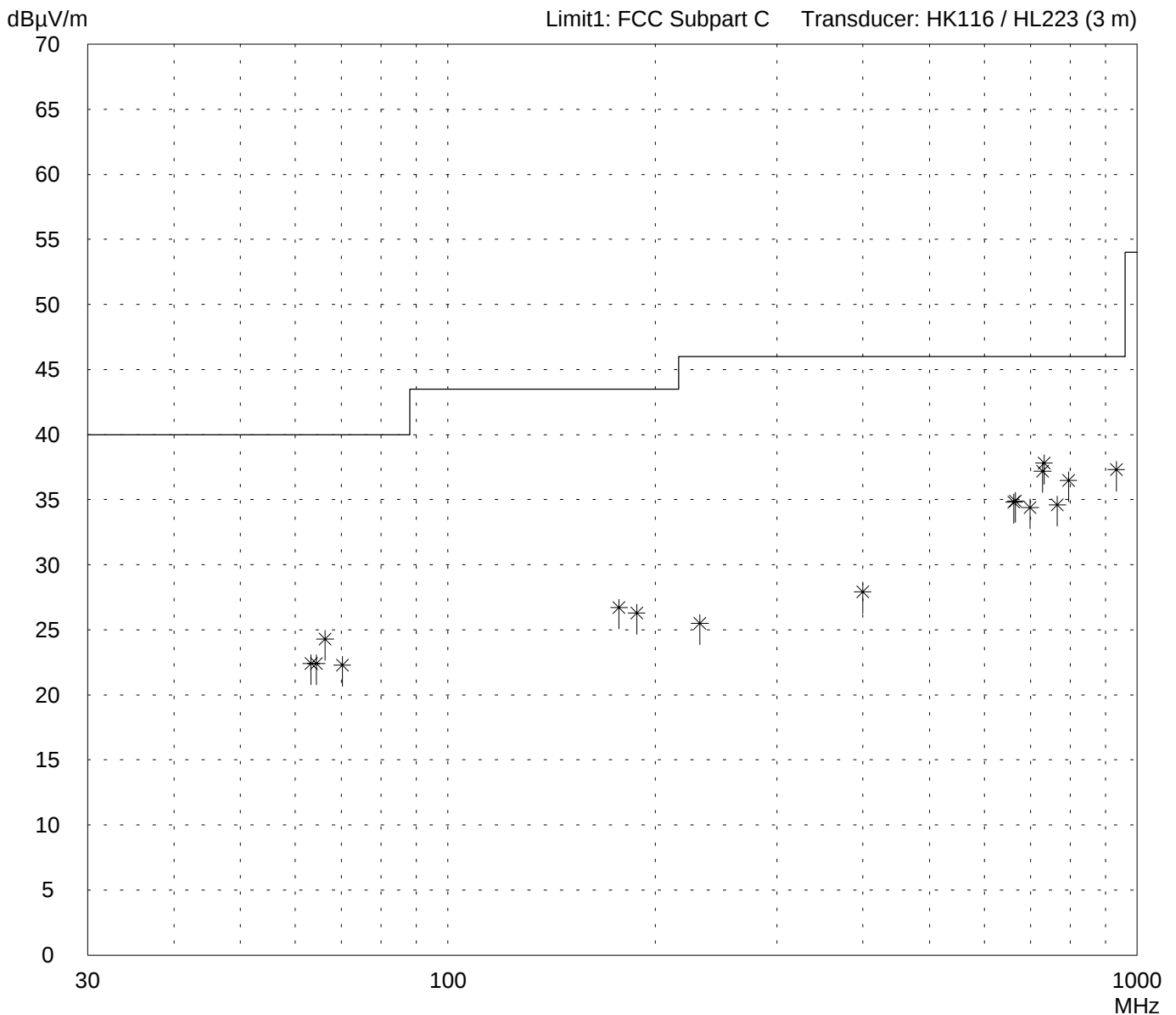
Test performed: by hand  
File name:

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 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:  
Quasi-Peak

List of values:  
Selected by hand



Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Vertical Polarization

Date of test: 02/05/2002  
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 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:  
Quasi-Peak

List of values:  
Selected by hand

| <i>Frequency<br/>MHz</i> | <i>Reading<br/>dB<math>\mu</math>V</i> | <i>Correction factor<br/>dB</i> | <i>Value<br/>dB<math>\mu</math>V/m</i> | <i>Limit<br/>dB<math>\mu</math>V/m</i> | <i>Limit<br/>exceeded</i> |
|--------------------------|----------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|---------------------------|
| 63.30                    | 11.5                                   | 10.9                            | 22.4                                   | 40.0                                   |                           |
| 64.41                    | 11.5                                   | 10.9                            | 22.4                                   | 40.0                                   |                           |
| 66.33                    | 13.5                                   | 10.8                            | 24.3                                   | 40.0                                   |                           |
| 70.24                    | 11.5                                   | 10.8                            | 22.3                                   | 40.0                                   |                           |
| 177.12                   | 9.0                                    | 17.7                            | 26.7                                   | 43.5                                   |                           |
| 187.86                   | 8.0                                    | 18.3                            | 26.3                                   | 43.5                                   |                           |
| 232.03                   | 5.5                                    | 20.0                            | 25.5                                   | 46.0                                   |                           |
| 399.66                   | 5.5                                    | 22.4                            | 27.9                                   | 46.0                                   |                           |
| 662.81                   | 5.0                                    | 29.8                            | 34.8                                   | 46.0                                   |                           |
| 666.17                   | 5.0                                    | 29.9                            | 34.9                                   | 46.0                                   |                           |
| 699.50                   | 3.5                                    | 30.9                            | 34.4                                   | 46.0                                   |                           |
| 729.08                   | 6.0                                    | 31.2                            | 37.2                                   | 46.0                                   |                           |
| 732.87                   | 6.5                                    | 31.3                            | 37.8                                   | 46.0                                   |                           |
| 766.16                   | 3.0                                    | 31.6                            | 34.6                                   | 46.0                                   |                           |
| 795.27                   | 4.5                                    | 32.0                            | 36.5                                   | 46.0                                   |                           |
| 932.70                   | 3.0                                    | 34.3                            | 37.3                                   | 46.0                                   |                           |

Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

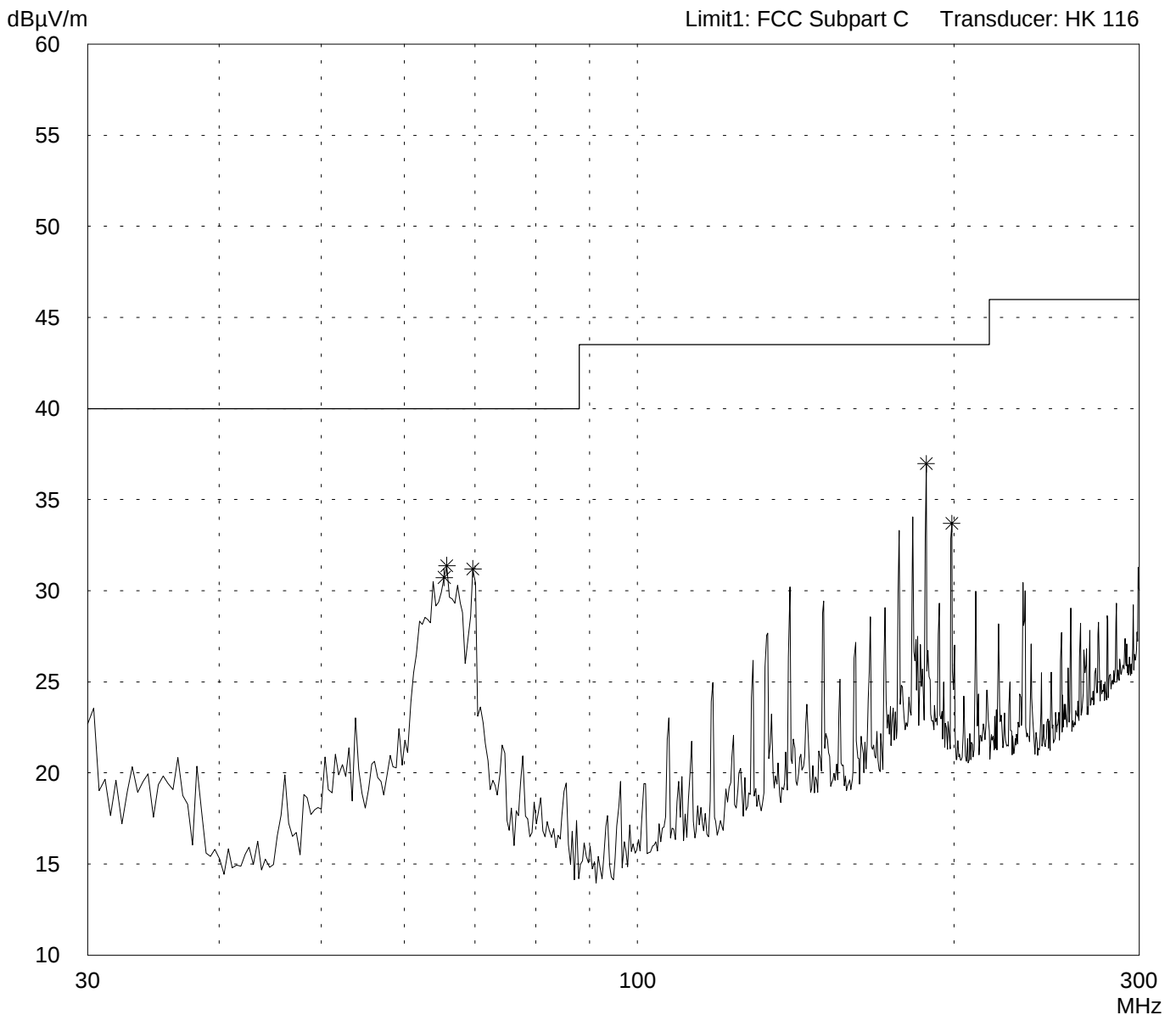
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

Test performed: automatically  
File name:

Mode:

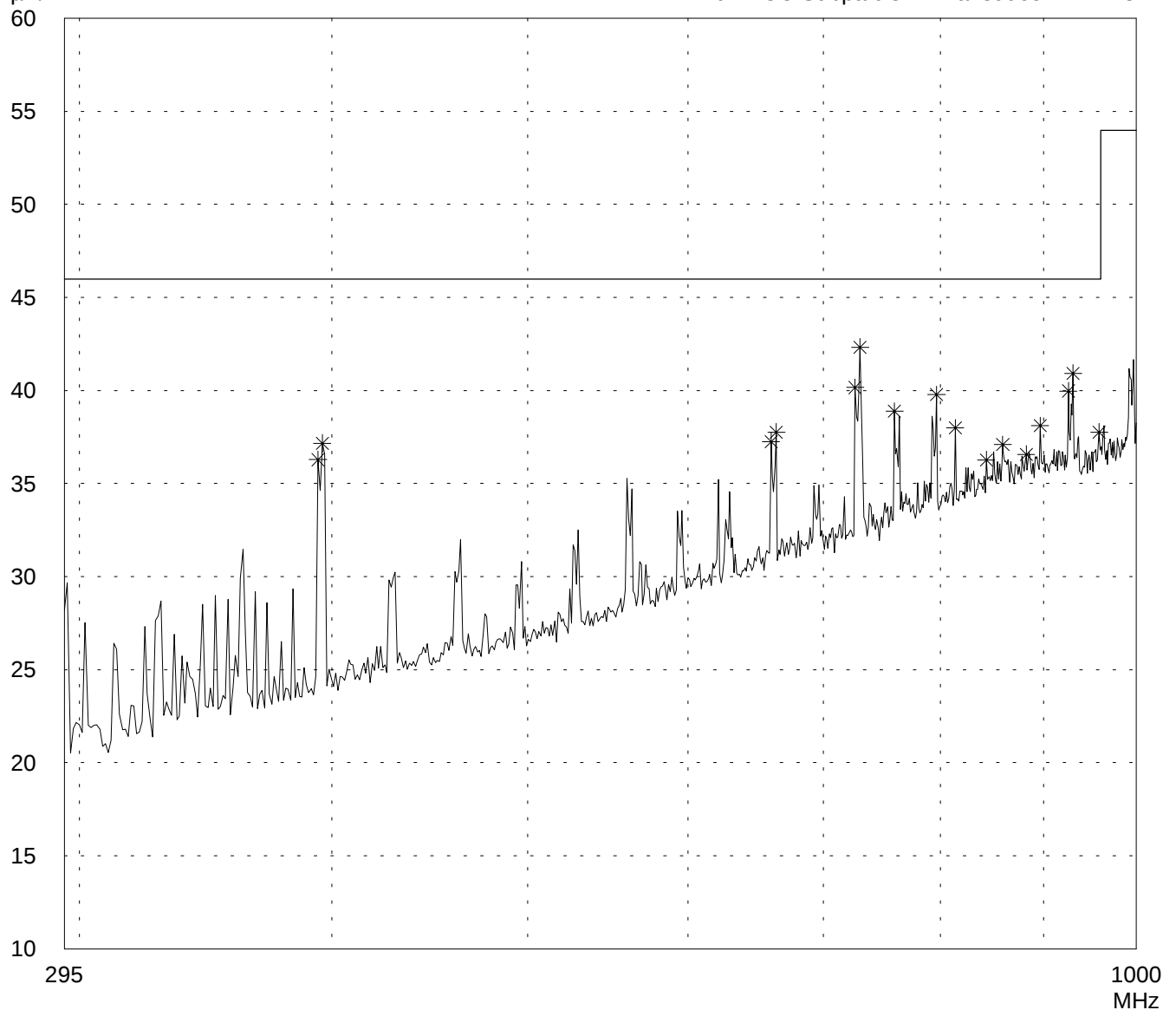
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100  
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external Telex 2.4 GHz WLAN directional  
antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with  $f = 2.462$  GHz

Detector:  
Peak

List of values:  
10 dB Margin 50 Subranges

dB $\mu$ V/m

Limit1: FCC Subpart C Transducer: HL 223



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

Test performed: automatically  
File name:

Mode:

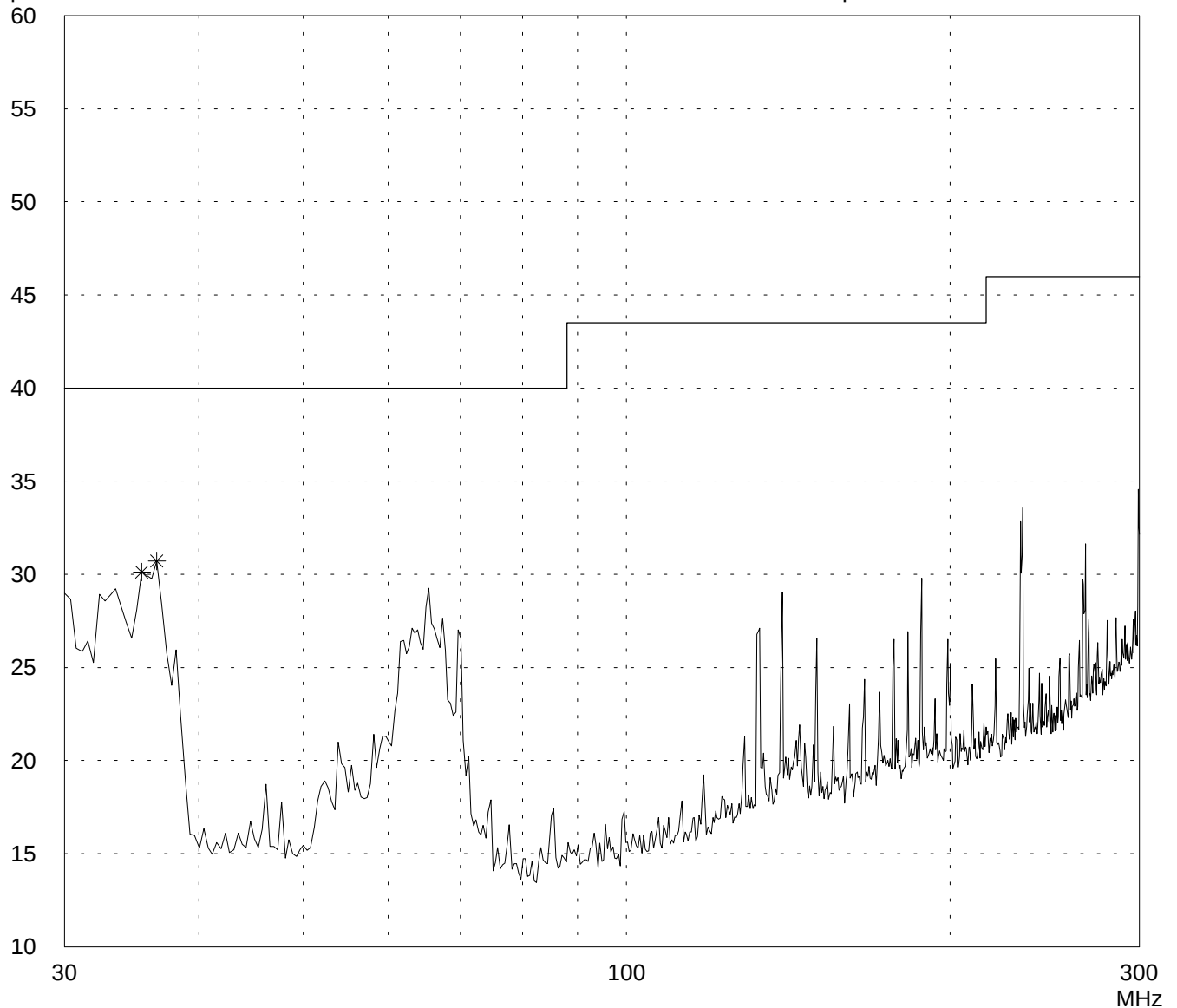
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100  
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external Telex 2.4 GHz WLAN directional  
antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with  $f = 2.462$  GHz

Detector:  
Peak

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:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

Test performed: automatically  
File name:

Mode:

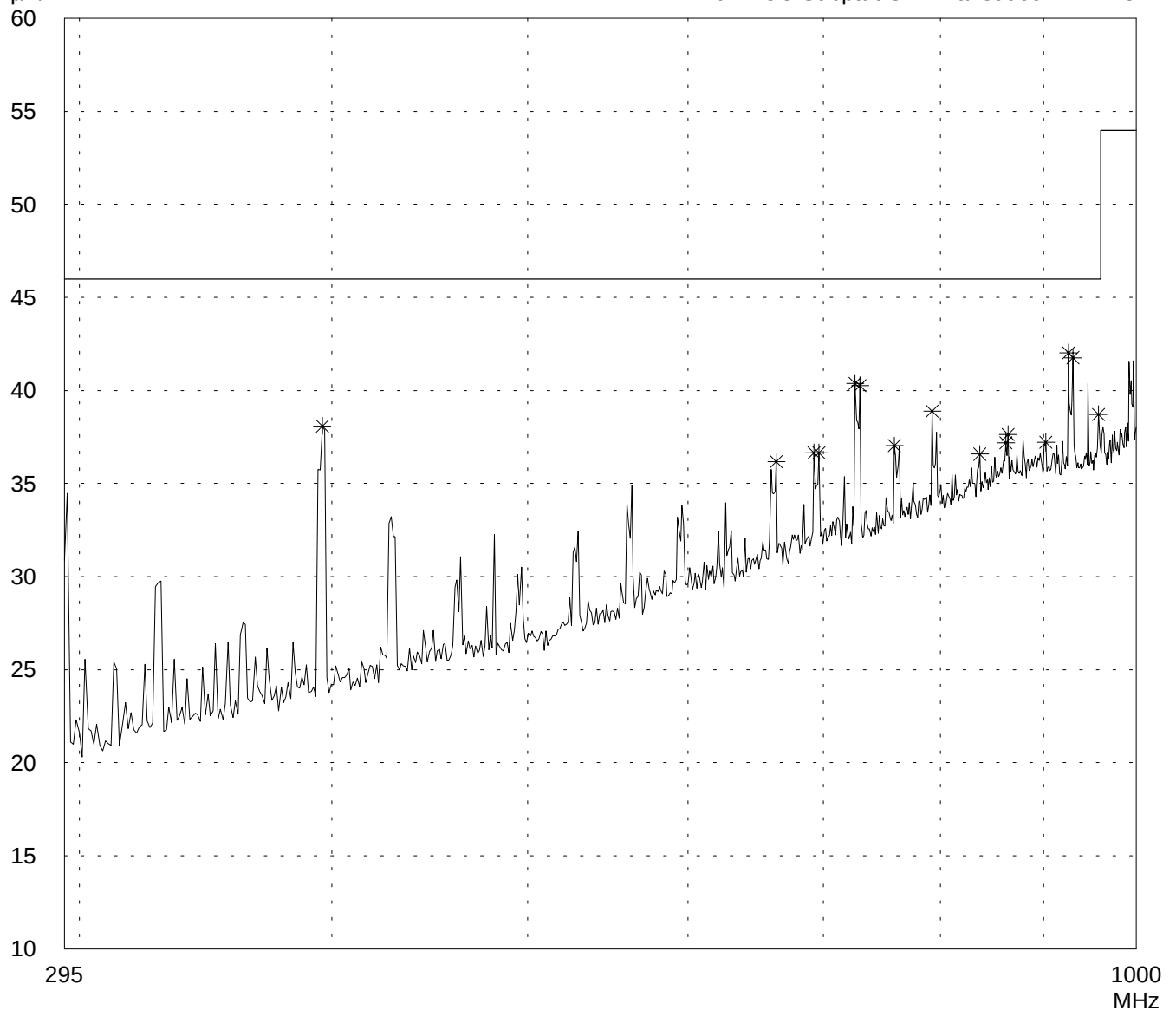
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100  
via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external Telex 2.4 GHz WLAN directional  
antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- TX mode with  $f = 2.462$  GHz

Detector:  
Peak

List of values:  
10 dB Margin 50 Subranges

dB $\mu$ V/m

Limit1: FCC Subpart C Transducer: HL 223



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Horizontal Polarization

Date of test: 02/05/2002  
Operator: R. Heller

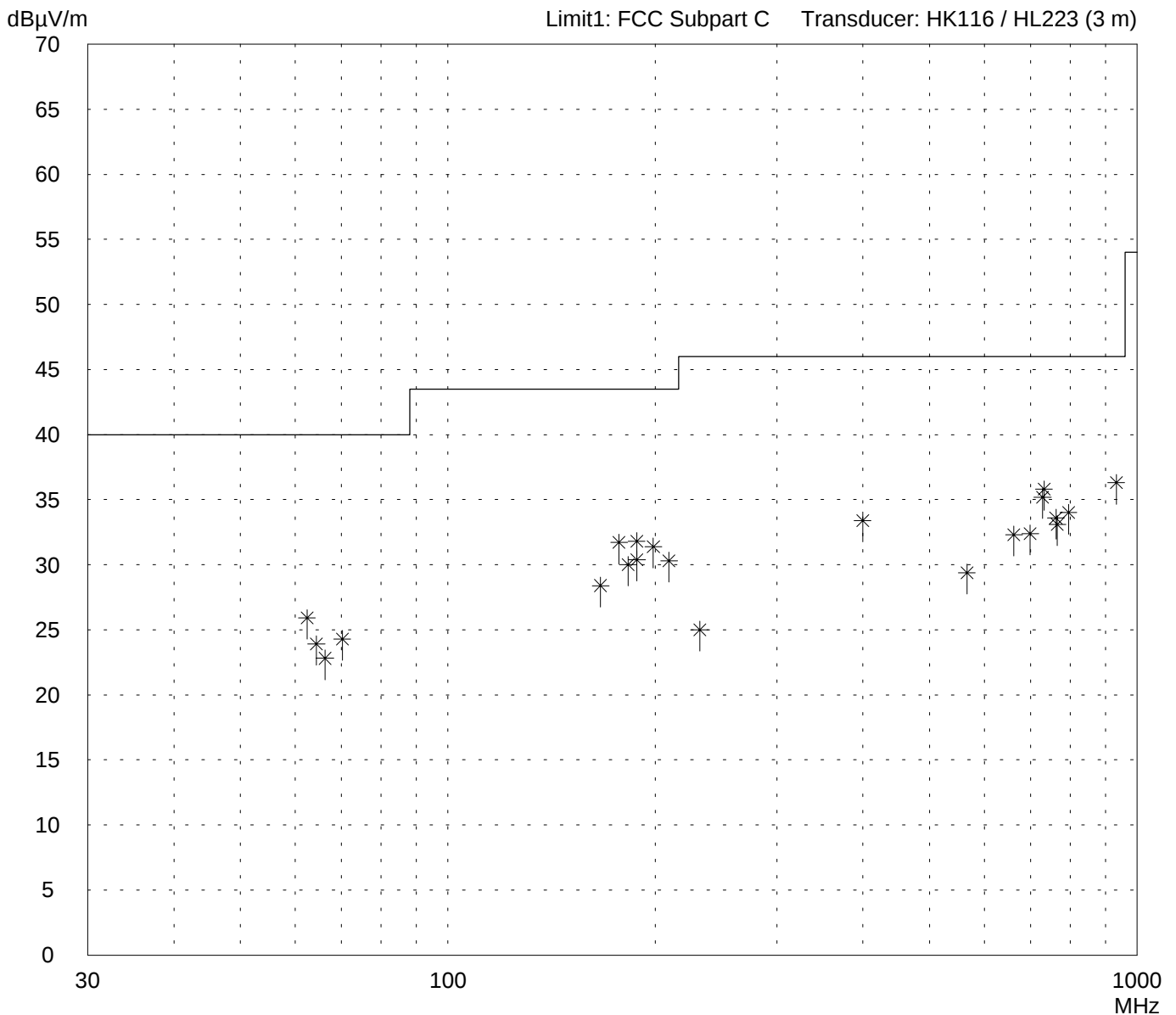
Test performed: by hand  
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- 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:  
Quasi-Peak

List of values:  
Selected by hand



Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Horizontal Polarization

Date of test: 02/05/2002  
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 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:  
Quasi-Peak

List of values:  
Selected by hand

| <i>Frequency<br/>MHz</i> | <i>Reading<br/>dB<math>\mu</math>V</i> | <i>Correction factor<br/>dB</i> | <i>Value<br/>dB<math>\mu</math>V/m</i> | <i>Limit<br/>dB<math>\mu</math>V/m</i> | <i>Limit<br/>exceeded</i> |
|--------------------------|----------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|---------------------------|
| 62.43                    | 15.0                                   | 10.9                            | 25.9                                   | 40.0                                   |                           |
| 64.41                    | 13.0                                   | 10.9                            | 23.9                                   | 40.0                                   |                           |
| 66.33                    | 12.0                                   | 10.8                            | 22.8                                   | 40.0                                   |                           |
| 70.24                    | 13.5                                   | 10.8                            | 24.3                                   | 40.0                                   |                           |
| 166.51                   | 11.5                                   | 16.9                            | 28.4                                   | 43.5                                   |                           |
| 177.11                   | 14.0                                   | 17.7                            | 31.7                                   | 43.5                                   |                           |
| 182.48                   | 12.0                                   | 18.0                            | 30.0                                   | 43.5                                   |                           |
| 187.85                   | 13.5                                   | 18.3                            | 31.8                                   | 43.5                                   |                           |
| 188.03                   | 12.0                                   | 18.4                            | 30.4                                   | 43.5                                   |                           |
| 198.58                   | 12.5                                   | 18.9                            | 31.4                                   | 43.5                                   |                           |
| 209.31                   | 11.0                                   | 19.3                            | 30.3                                   | 43.5                                   |                           |
| 232.03                   | 5.0                                    | 20.0                            | 25.0                                   | 46.0                                   |                           |
| 399.66                   | 11.0                                   | 22.4                            | 33.4                                   | 46.0                                   |                           |
| 565.99                   | 2.5                                    | 26.9                            | 29.4                                   | 46.0                                   |                           |
| 662.81                   | 2.5                                    | 29.8                            | 32.3                                   | 46.0                                   |                           |
| 699.50                   | 1.5                                    | 30.9                            | 32.4                                   | 46.0                                   |                           |
| 729.08                   | 4.0                                    | 31.2                            | 35.2                                   | 46.0                                   |                           |
| 732.87                   | 4.5                                    | 31.3                            | 35.8                                   | 46.0                                   |                           |
| 762.21                   | 2.0                                    | 31.6                            | 33.6                                   | 46.0                                   |                           |
| 766.16                   | 1.5                                    | 31.6                            | 33.1                                   | 46.0                                   |                           |
| 795.27                   | 2.0                                    | 32.0                            | 34.0                                   | 46.0                                   |                           |
| 932.70                   | 2.0                                    | 34.3                            | 36.3                                   | 46.0                                   |                           |

Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Vertical Polarization

Date of test: 02/05/2002  
Operator: R. Heller

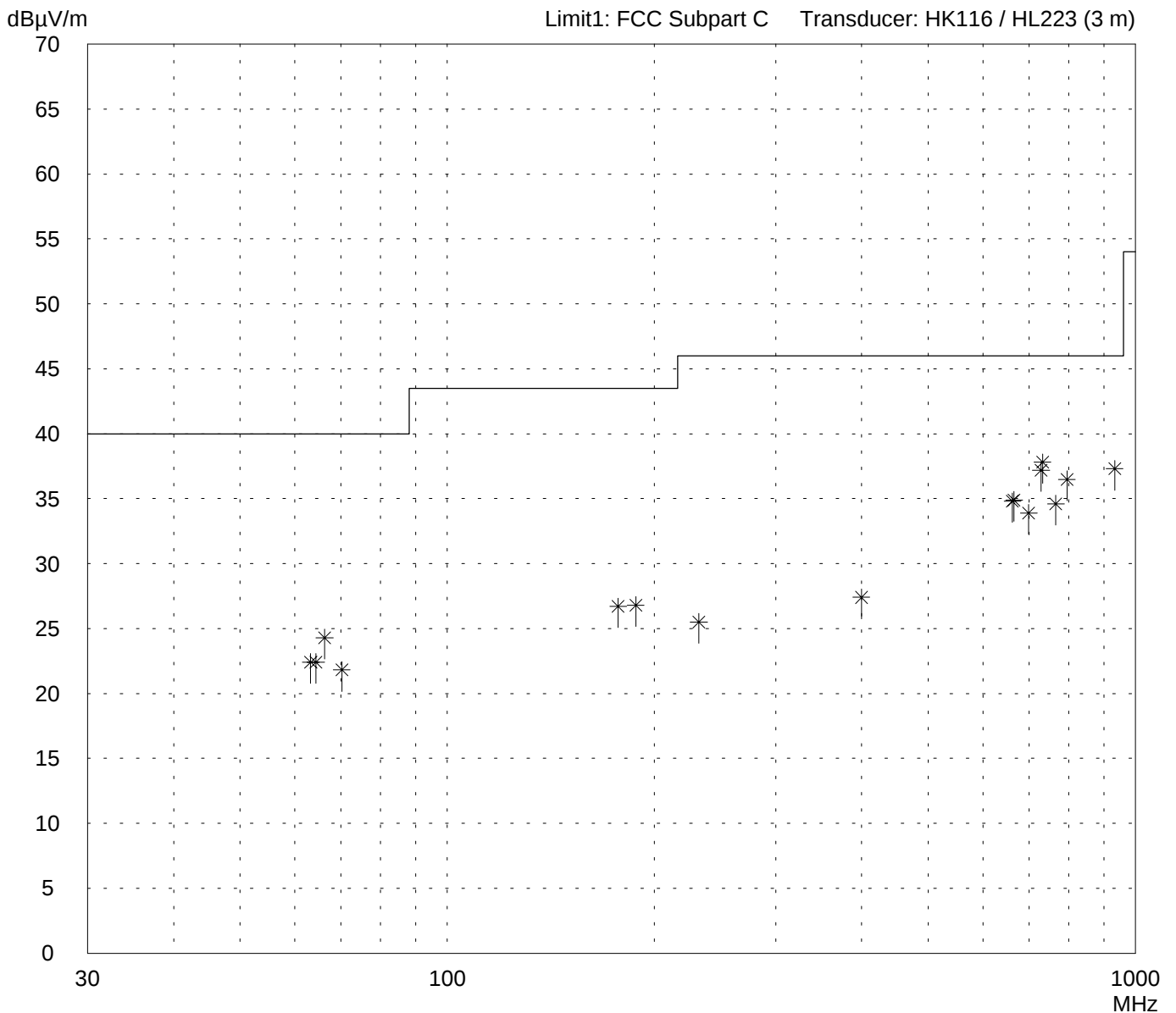
Test performed: by hand  
File name:

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 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:  
Quasi-Peak

List of values:  
Selected by hand



Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Vertical Polarization

Date of test: 02/05/2002  
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 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:  
Quasi-Peak

List of values:  
Selected by hand

| Frequency<br>MHz | Reading<br>dB $\mu$ V | Correction factor<br>dB | Value<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Limit<br>exceeded |
|------------------|-----------------------|-------------------------|-----------------------|-----------------------|-------------------|
| 63.30            | 11.5                  | 10.9                    | 22.4                  | 40.0                  |                   |
| 64.41            | 11.5                  | 10.9                    | 22.4                  | 40.0                  |                   |
| 66.33            | 13.5                  | 10.8                    | 24.3                  | 40.0                  |                   |
| 70.24            | 11.0                  | 10.8                    | 21.8                  | 40.0                  |                   |
| 177.12           | 9.0                   | 17.7                    | 26.7                  | 43.5                  |                   |
| 187.86           | 8.5                   | 18.3                    | 26.8                  | 43.5                  |                   |
| 232.03           | 5.5                   | 20.0                    | 25.5                  | 46.0                  |                   |
| 399.66           | 5.0                   | 22.4                    | 27.4                  | 46.0                  |                   |
| 662.81           | 5.0                   | 29.8                    | 34.8                  | 46.0                  |                   |
| 666.17           | 5.0                   | 29.9                    | 34.9                  | 46.0                  |                   |
| 699.50           | 3.0                   | 30.9                    | 33.9                  | 46.0                  |                   |
| 729.08           | 6.0                   | 31.2                    | 37.2                  | 46.0                  |                   |
| 732.87           | 6.5                   | 31.3                    | 37.8                  | 46.0                  |                   |
| 766.16           | 3.0                   | 31.6                    | 34.6                  | 46.0                  |                   |
| 795.27           | 4.5                   | 32.0                    | 36.5                  | 46.0                  |                   |
| 932.70           | 3.0                   | 34.3                    | 37.3                  | 46.0                  |                   |

Result:  
Limit kept

Project file:  
56305-20086-1

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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-H-FC  
Type: RF-modem for wireless LAN  
Serial No.: 01UT34333360  
Applicant: Agere Systems Nederland B.V.  
Test-site: Semi anechoic room  
Test distance: 3 meters  
Date of test: 02/04/2002  
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: Peak

| Frequency [GHz] | Polarization | Analyzer-reading [dB $\mu$ V] | Cable loss [dB] | Antenna-correction [dB] | Fieldstrength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] |
|-----------------|--------------|-------------------------------|-----------------|-------------------------|------------------------------|----------------------|
| 2.3900          | vertical     | 39.1                          | 0.6             | 20.7                    | 60.4                         | 74                   |
| 2.3988          | vertical     | 49.3                          | 0.6             | 20.7                    | 70.6                         | NRB                  |
| 2.4000          | vertical     | 48.7                          | 0.6             | 20.7                    | 70.0                         | NRB                  |
| 2.4023          | vertical     | 51.5                          | 0.6             | 20.7                    | 72.9                         | NRB                  |
| 2.4127          | vertical     | 91.1                          | 0.6             | 20.7                    | 112.4                        | OB                   |
| 2.4247          | vertical     | 52.2                          | 0.6             | 20.7                    | 73.5                         | OB                   |
| 2.7950          | horizontal   | 21.7                          | 0.7             | 23.7                    | 46.0                         | 74                   |
| 2.9270          | vertical     | 20.1                          | 0.7             | 23.7                    | 44.4                         | 74                   |
| 3.0650          | vertical     | 19.5                          | 0.7             | 23.7                    | 43.9                         | 74                   |
| 4.8303          | vertical     | 17.0                          | 0.9             | 27.3                    | 45.1                         | 74                   |
| 7.2391          | vertical     | 17.9                          | 1.1             | 29.9                    | 48.9                         | NRB                  |
| 9.6467          | vertical     | 10.9                          | 1.3             | 33.4                    | 45.6                         | NRB                  |

**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 112.4 dB $\mu$ V/m.

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

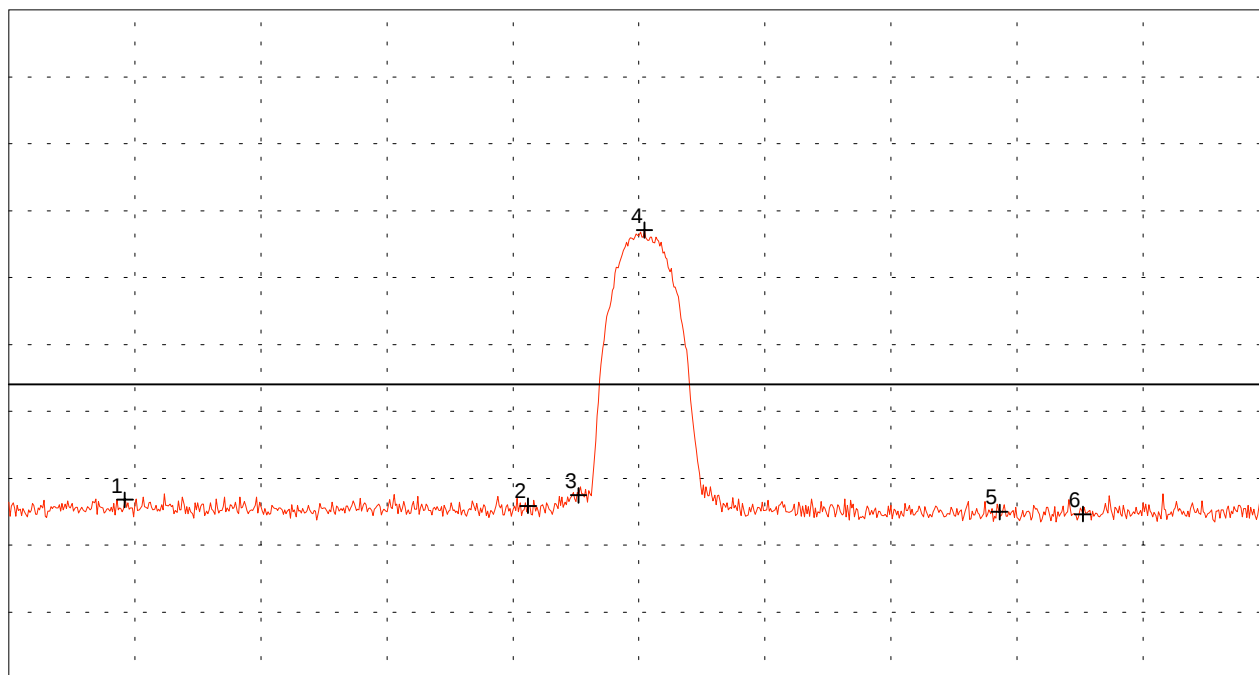
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.310000 GHz | 56.78 dB $\mu$ V/m |
| No. 2 | 2.390000 GHz | 55.87 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 57.44 dB $\mu$ V/m |
| No. 4 | 2.413111 GHz | 97.11 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 54.98 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 54.62 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

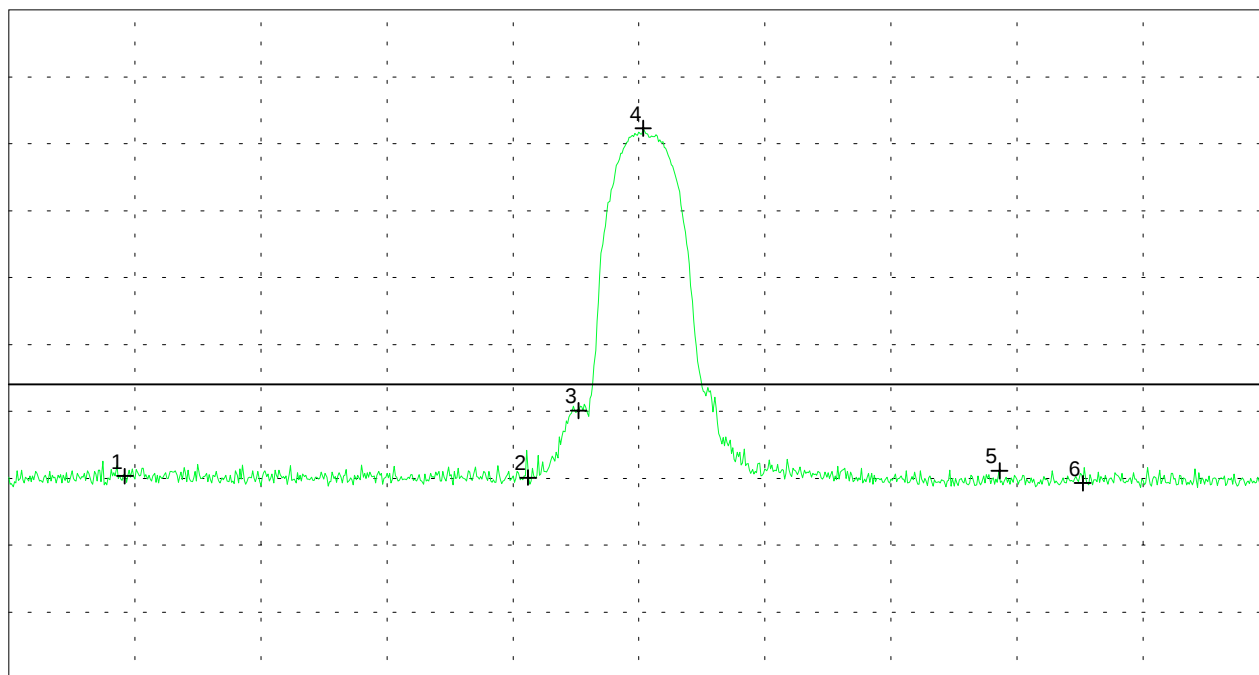
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.310000 GHz | 60.30 dB $\mu$ V/m  |
| No. 2 | 2.390000 GHz | 60.08 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 70.11 dB $\mu$ V/m  |
| No. 4 | 2.412833 GHz | 112.31 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 61.12 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 59.26 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

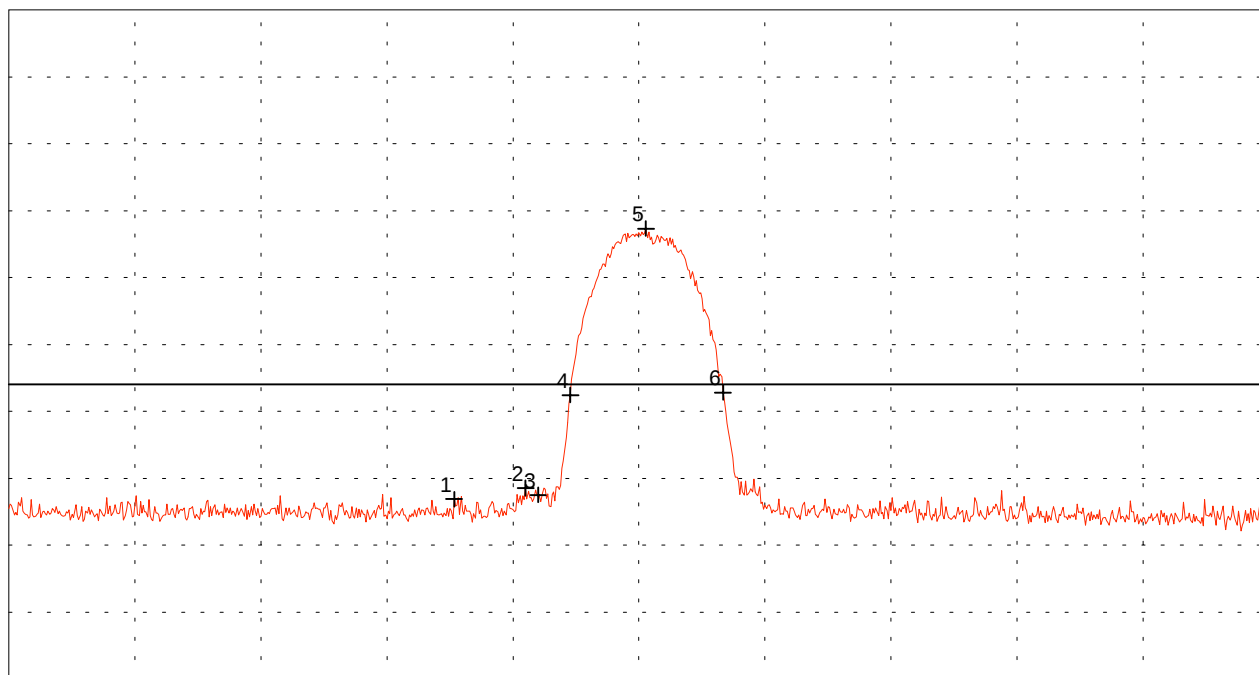
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz  
SWP 20 ms

## Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.390000 GHz | 56.86 dB $\mu$ V/m |
| No. 2 | 2.398500 GHz | 58.53 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 57.49 dB $\mu$ V/m |
| No. 4 | 2.403833 GHz | 72.45 dB $\mu$ V/m |
| No. 5 | 2.412833 GHz | 97.31 dB $\mu$ V/m |
| No. 6 | 2.422000 GHz | 72.83 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

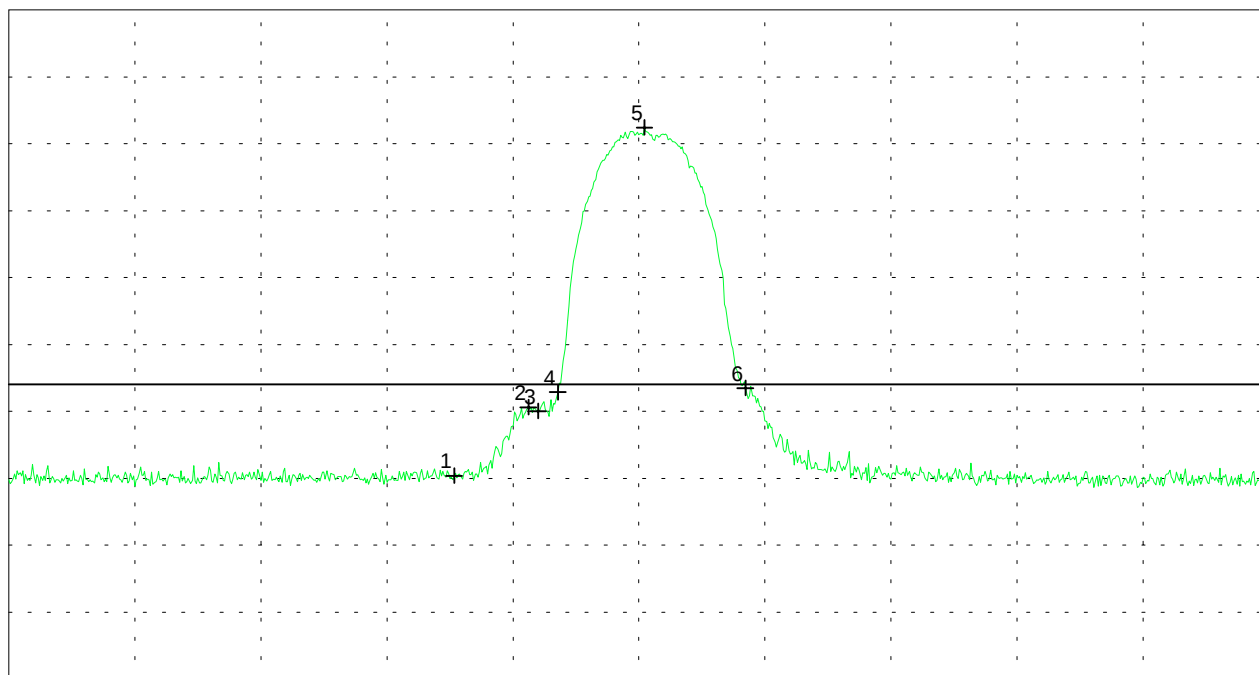
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz  
SWP 20 ms

## Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.390000 GHz | 60.36 dB $\mu$ V/m  |
| No. 2 | 2.398833 GHz | 70.64 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 70.03 dB $\mu$ V/m  |
| No. 4 | 2.402333 GHz | 72.85 dB $\mu$ V/m  |
| No. 5 | 2.412667 GHz | 112.44 dB $\mu$ V/m |
| No. 6 | 2.424667 GHz | 73.48 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
Type: RF-modem for wireless LAN  
Serial No.: 01UT34333360  
Applicant: Agere Systems Nederland B.V.  
Test-site: Semi anechoic room  
Test distance: 3 meters  
Date of test: 02/04/2002  
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: Average

| Frequency [GHz] | Polarization | Analyzer-reading [dB $\mu$ V] | Cable loss [dB] | Antenna-correction [dB] | Fieldstrength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] |
|-----------------|--------------|-------------------------------|-----------------|-------------------------|------------------------------|----------------------|
| 2.3900          | vertical     | 25.6                          | 0.6             | 20.7                    | 46.9                         | 54                   |
| 2.3958          | vertical     | 32.7                          | 0.6             | 20.7                    | 54.0                         | NRB                  |
| 2.3993          | vertical     | 39.6                          | 0.6             | 20.7                    | 60.9                         | NRB                  |
| 2.4000          | vertical     | 38.8                          | 0.6             | 20.7                    | 60.1                         | NRB                  |
| 2.4118          | vertical     | 84.9                          | 0.6             | 20.7                    | 106.2                        | OB                   |
| 2.4277          | vertical     | 32.4                          | 0.6             | 20.7                    | 53.7                         | OB                   |
| 2.7980          | vertical     | < 12.5                        | 0.7             | 23.7                    | < 36.9                       | 54                   |
| 2.9285          | vertical     | < 10.6                        | 0.7             | 23.7                    | < 35.0                       | 54                   |
| 3.0650          | vertical     | < 10.4                        | 0.7             | 23.7                    | < 34.8                       | 54                   |
| 4.8235          | vertical     | 10.3                          | 0.9             | 27.3                    | 38.5                         | 54                   |
| 7.2386          | vertical     | 9.2                           | 1.1             | 29.9                    | 40.2                         | NRB                  |

**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 106.2 dB $\mu$ V/m.

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

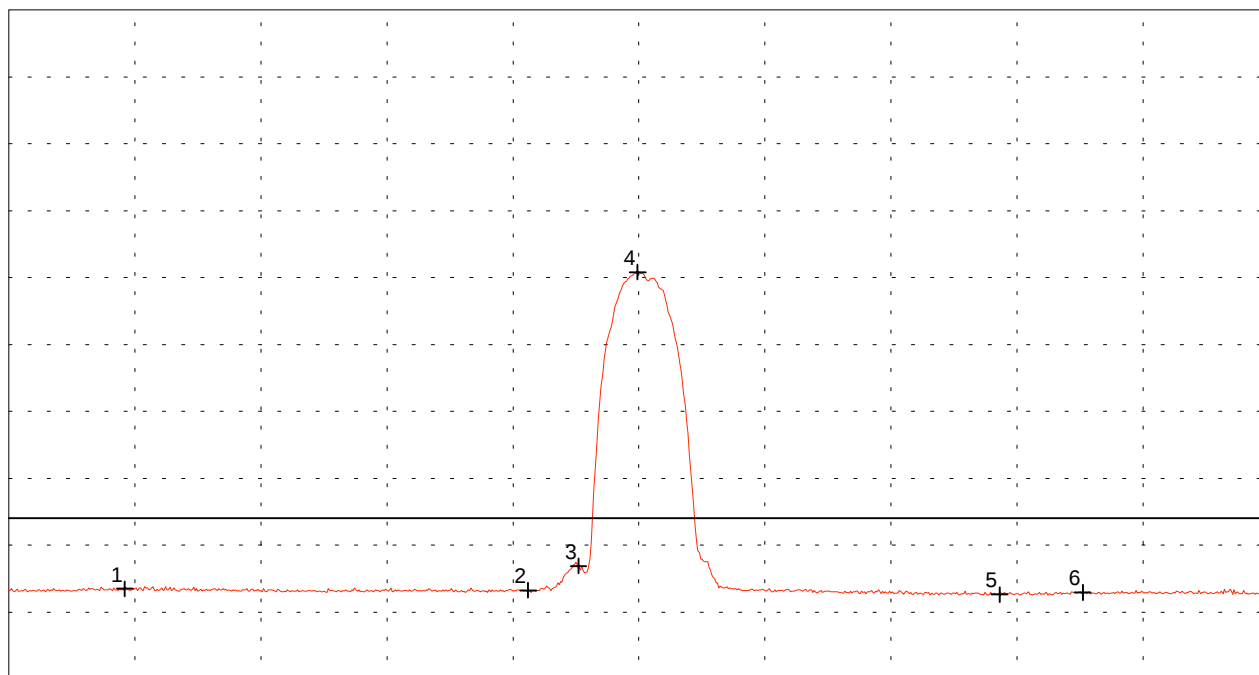
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz  
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz  
SWP 260 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.310000 GHz | 43.47 dB $\mu$ V/m |
| No. 2 | 2.390000 GHz | 43.27 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 46.90 dB $\mu$ V/m |
| No. 4 | 2.411722 GHz | 90.81 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 42.61 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 42.94 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

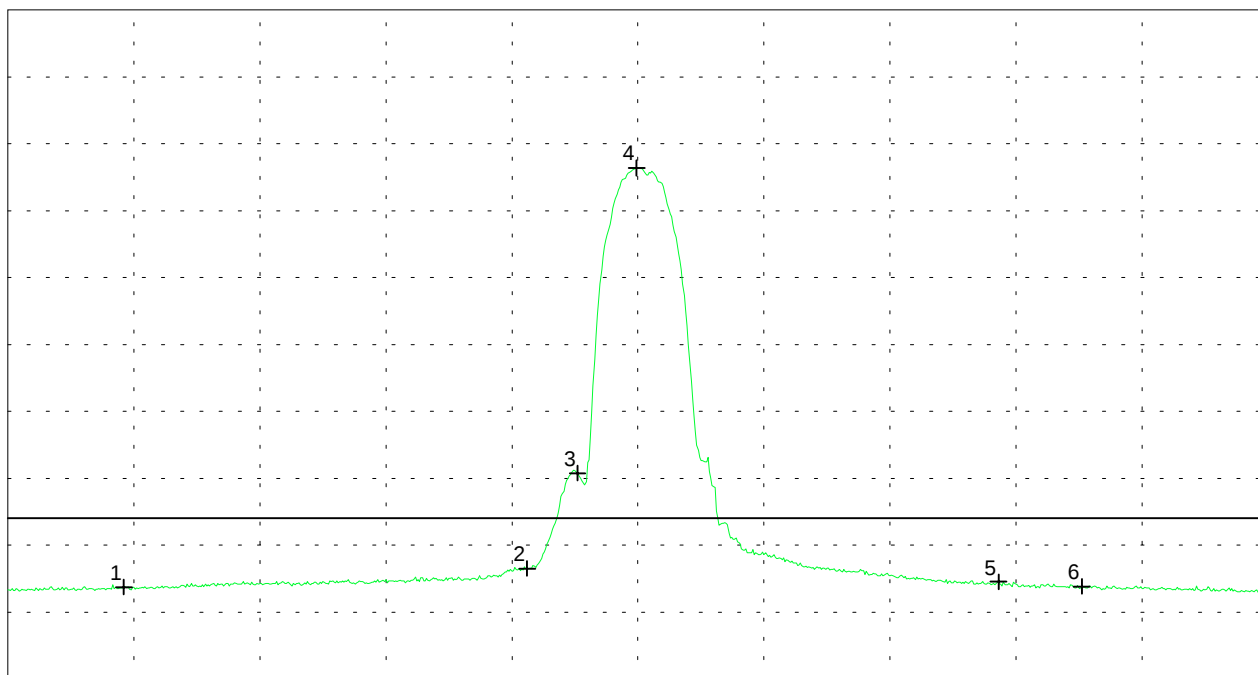
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz  
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz  
SWP 260 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.310000 GHz | 43.73 dB $\mu$ V/m  |
| No. 2 | 2.390000 GHz | 46.50 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 60.77 dB $\mu$ V/m  |
| No. 4 | 2.411722 GHz | 106.38 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 44.54 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 43.83 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

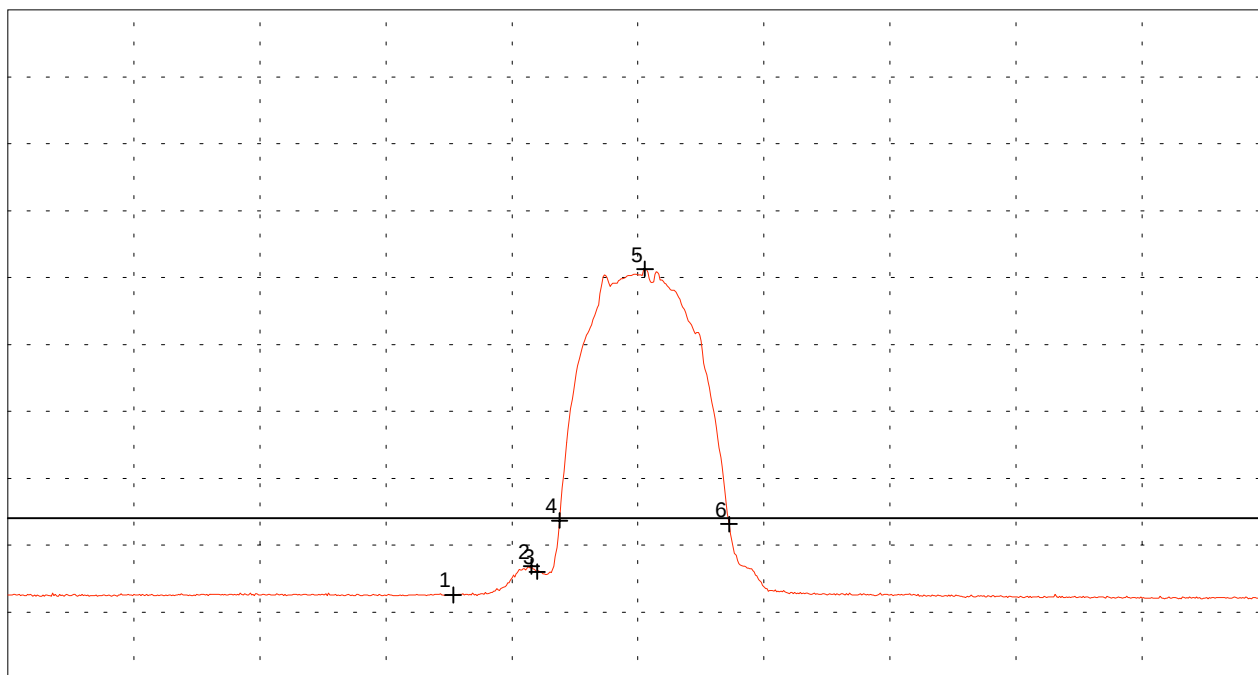
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.487 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.390000 GHz | 42.56 dB $\mu$ V/m |
| No. 2 | 2.399333 GHz | 46.83 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 46.04 dB $\mu$ V/m |
| No. 4 | 2.402667 GHz | 53.66 dB $\mu$ V/m |
| No. 5 | 2.412833 GHz | 91.29 dB $\mu$ V/m |
| No. 6 | 2.422833 GHz | 53.15 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

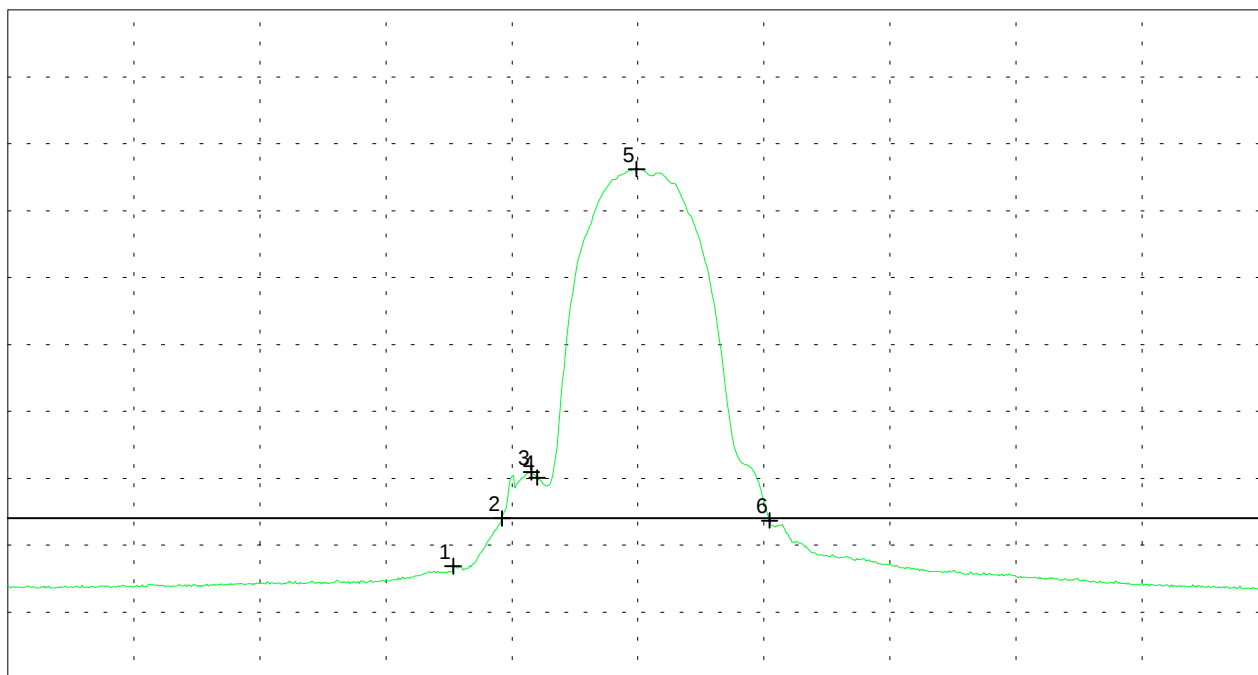
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.487 GHz  
SWP 460 ms

## Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.390000 GHz | 46.85 dB $\mu$ V/m  |
| No. 2 | 2.395833 GHz | 53.99 dB $\mu$ V/m  |
| No. 3 | 2.399333 GHz | 60.90 dB $\mu$ V/m  |
| No. 4 | 2.400000 GHz | 60.11 dB $\mu$ V/m  |
| No. 5 | 2.411833 GHz | 106.22 dB $\mu$ V/m |
| No. 6 | 2.427667 GHz | 53.69 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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 2 Mbps
- TX mode with  $f = 2.412$  GHz

Detector: Peak

| Frequency<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.3900             | vertical     | 38.3                                 | 0.6                   | 20.7                           | 59.5                            | 74                      |
| 2.3977             | vertical     | 48.7                                 | 0.6                   | 20.7                           | 70.0                            | NRB                     |
| 2.4000             | vertical     | 45.5                                 | 0.6                   | 20.7                           | 66.8                            | NRB                     |
| 2.4027             | vertical     | 52.0                                 | 0.6                   | 20.7                           | 73.3                            | OB                      |
| 2.4112             | vertical     | 88.9                                 | 0.6                   | 20.7                           | 110.2                           | OB                      |
| 2.4237             | vertical     | 52.6                                 | 0.6                   | 20.7                           | 73.9                            | OB                      |
| 4.8240             | vertical     | 18.8                                 | 0.9                   | 27.3                           | 47.0                            | 74                      |
| 7.2375             | vertical     | 19.8                                 | 1.1                   | 29.9                           | 50.8                            | NRB                     |

**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 110.2 dB $\mu$ V/m.

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

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.412$  GHz

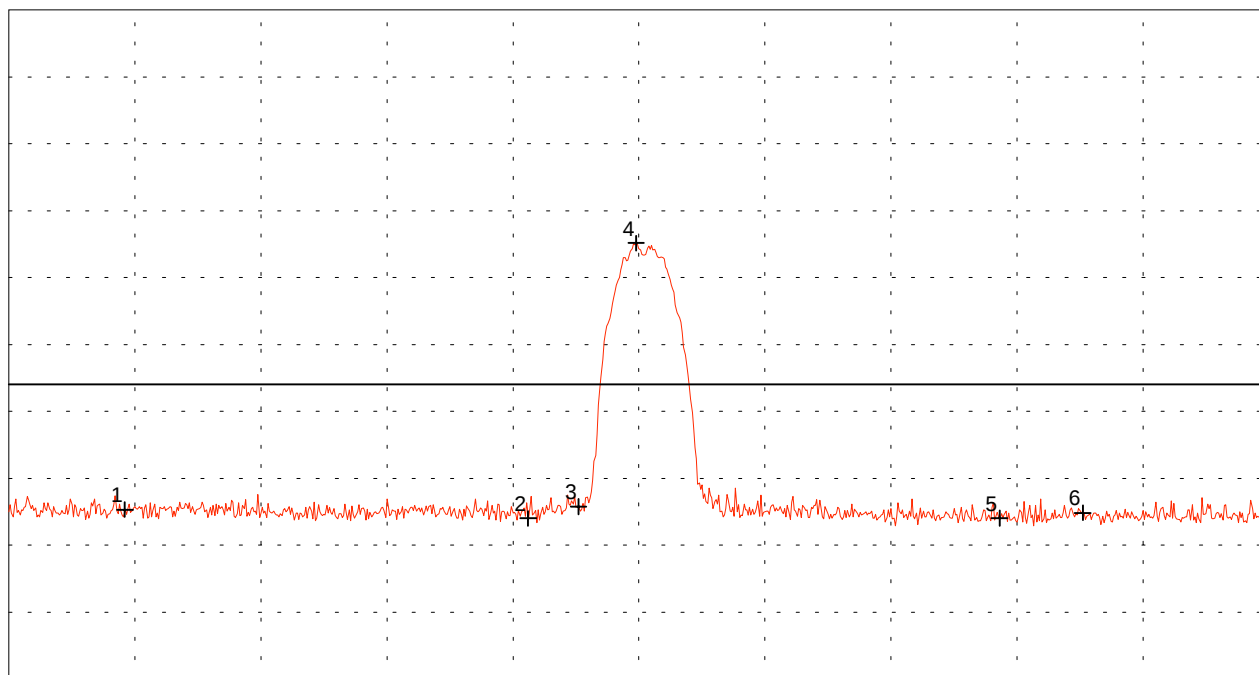
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.310000 GHz | 55.33 dB $\mu$ V/m |
| No. 2 | 2.390000 GHz | 53.99 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 55.74 dB $\mu$ V/m |
| No. 4 | 2.411444 GHz | 95.15 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 54.04 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 54.85 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.412$  GHz

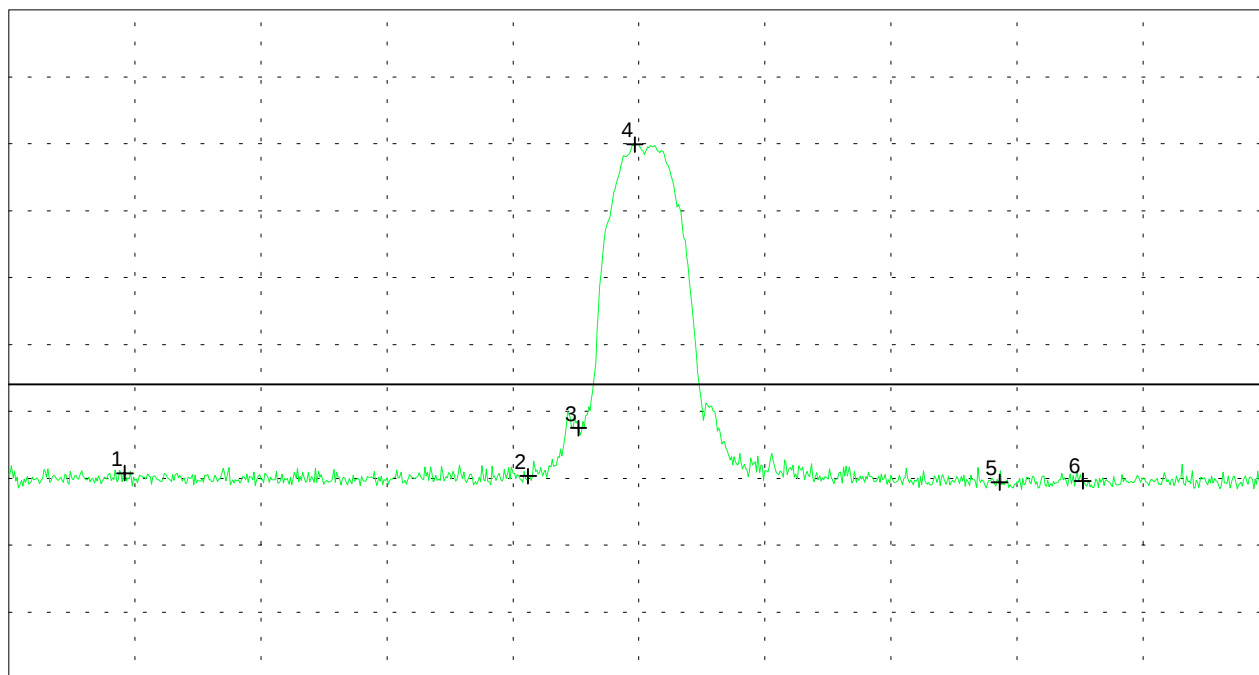
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.310000 GHz | 60.76 dB $\mu$ V/m  |
| No. 2 | 2.390000 GHz | 60.30 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 67.49 dB $\mu$ V/m  |
| No. 4 | 2.411167 GHz | 109.90 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 59.39 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 59.57 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.412$  GHz

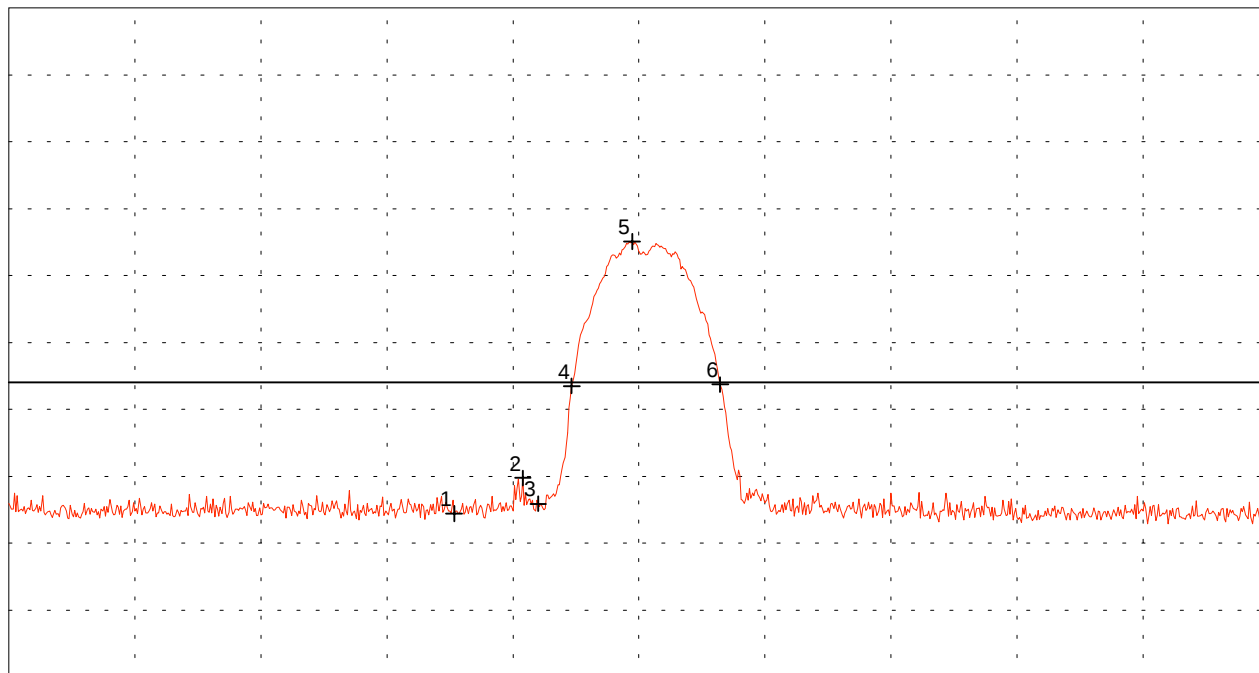
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.390000 GHz | 54.42 dB $\mu$ V/m |
| No. 2 | 2.398167 GHz | 59.73 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 55.87 dB $\mu$ V/m |
| No. 4 | 2.404000 GHz | 73.51 dB $\mu$ V/m |
| No. 5 | 2.411167 GHz | 95.10 dB $\mu$ V/m |
| No. 6 | 2.421667 GHz | 73.74 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.412$  GHz

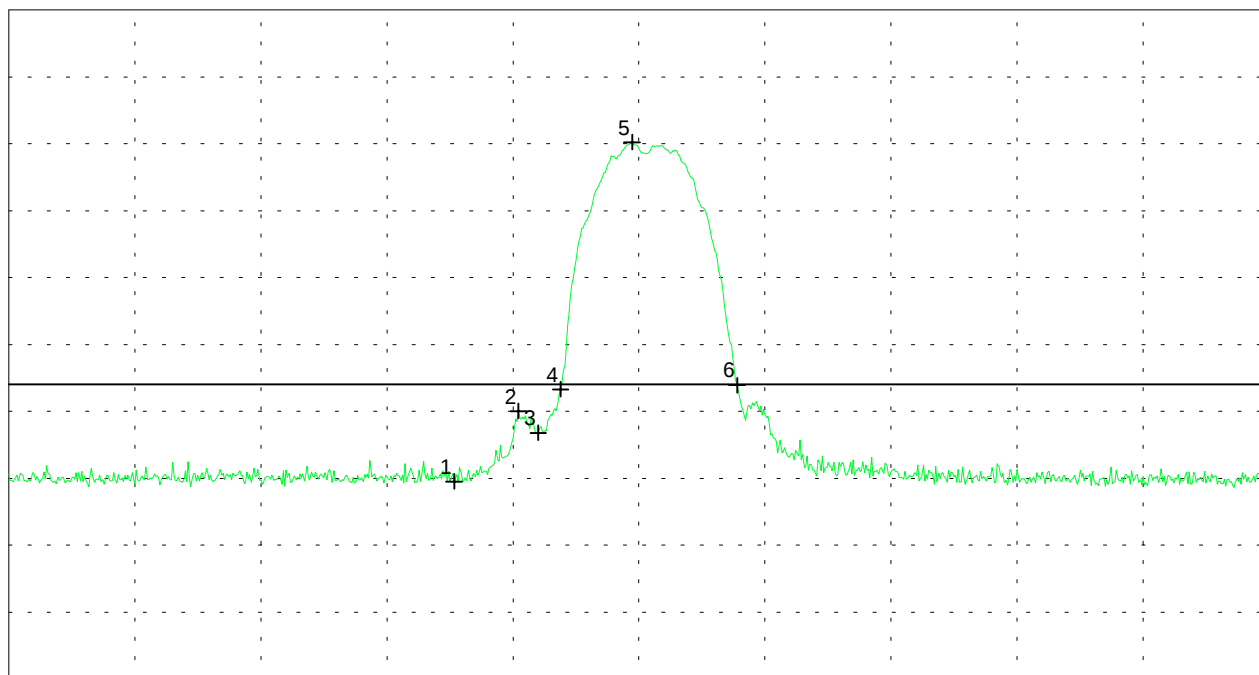
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz  
SWP 20 ms

## Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.390000 GHz | 59.54 dB $\mu$ V/m  |
| No. 2 | 2.397667 GHz | 70.03 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 66.78 dB $\mu$ V/m  |
| No. 4 | 2.402667 GHz | 73.28 dB $\mu$ V/m  |
| No. 5 | 2.411167 GHz | 110.23 dB $\mu$ V/m |
| No. 6 | 2.423667 GHz | 73.92 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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 2 Mbps
- TX mode with  $f = 2.412$  GHz

Detector: Average

| Frequency<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.3900             | vertical     | 25.1                                 | 0.6                   | 20.7                           | 46.4                            | 54                      |
| 2.3960             | vertical     | 32.7                                 | 0.6                   | 20.7                           | 54.0                            | NRB                     |
| 2.3983             | vertical     | 40.7                                 | 0.6                   | 20.7                           | 62.0                            | NRB                     |
| 2.4000             | vertical     | 38.0                                 | 0.6                   | 20.7                           | 59.4                            | NRB                     |
| 2.4115             | vertical     | 85.0                                 | 0.6                   | 20.7                           | 106.3                           | OB                      |
| 2.4282             | vertical     | 32.1                                 | 0.6                   | 20.7                           | 53.5                            | OB                      |
| 4.8239             | vertical     | 15.0                                 | 0.9                   | 27.3                           | 43.1                            | 54                      |
| 7.2369             | vertical     | 11.6                                 | 1.1                   | 29.9                           | 42.6                            | NRB                     |

**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 106.3 dB $\mu$ V/m.

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

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT3433360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.412$  GHz

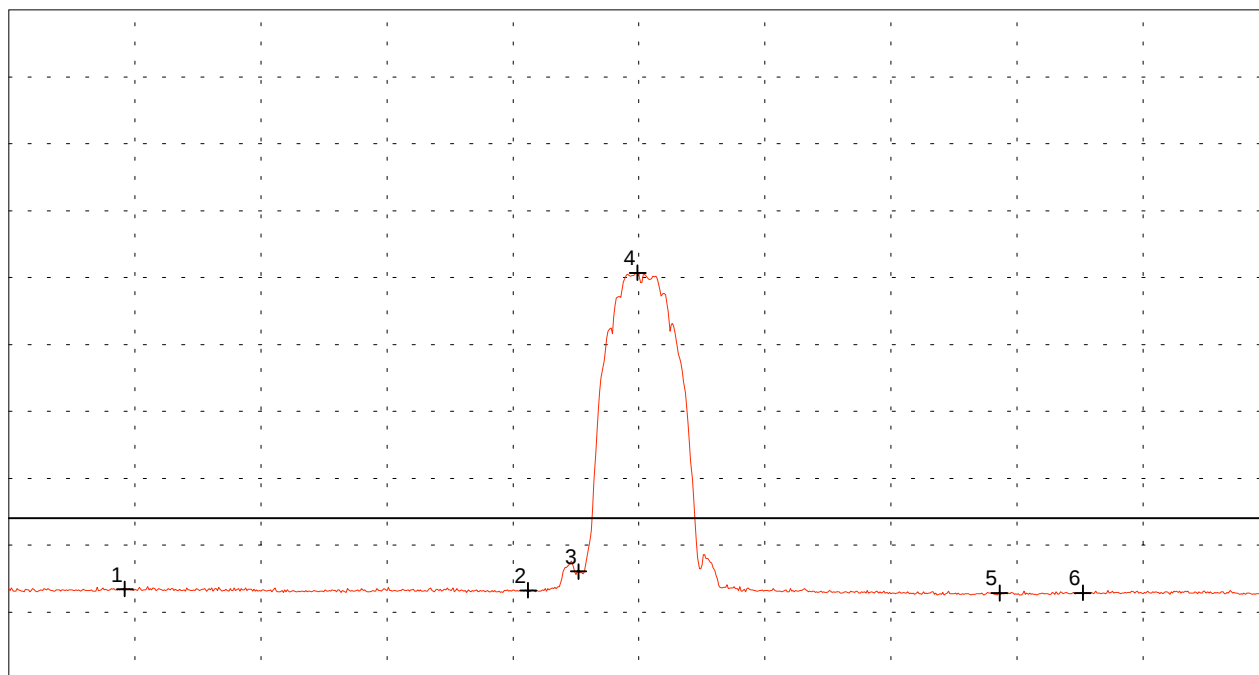
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz  
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz  
SWP 260 ms

## Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.310000 GHz | 43.45 dB $\mu$ V/m |
| No. 2 | 2.390000 GHz | 43.25 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 46.06 dB $\mu$ V/m |
| No. 4 | 2.411722 GHz | 90.73 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 42.84 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 42.86 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT3433360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.412$  GHz

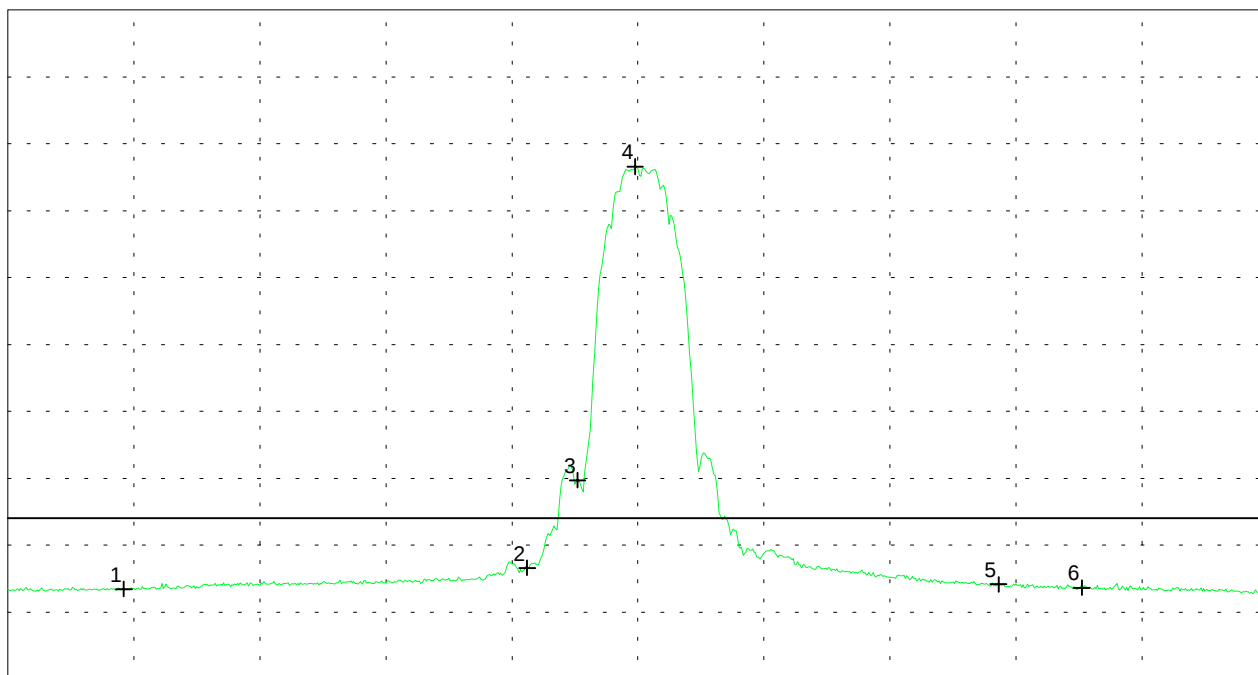
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.287 GHz  
RBW 1 MHz

VBW 3 kHz

Stop 2.537 GHz  
SWP 260 ms

Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.310000 GHz | 43.43 dB $\mu$ V/m  |
| No. 2 | 2.390000 GHz | 46.60 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 59.70 dB $\mu$ V/m  |
| No. 4 | 2.411444 GHz | 106.58 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 44.14 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 43.63 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.412$  GHz

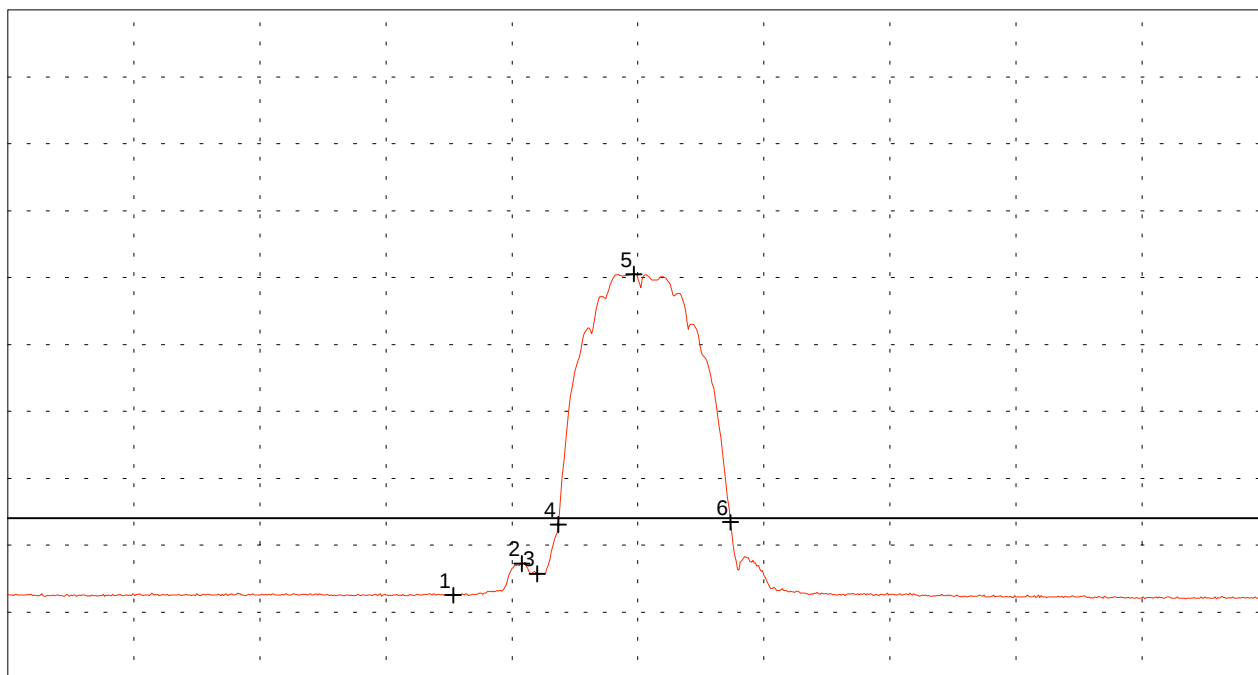
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.487 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.390000 GHz | 42.53 dB $\mu$ V/m |
| No. 2 | 2.398167 GHz | 47.23 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 45.71 dB $\mu$ V/m |
| No. 4 | 2.402500 GHz | 53.07 dB $\mu$ V/m |
| No. 5 | 2.411500 GHz | 90.53 dB $\mu$ V/m |
| No. 6 | 2.423000 GHz | 53.43 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.412$  GHz

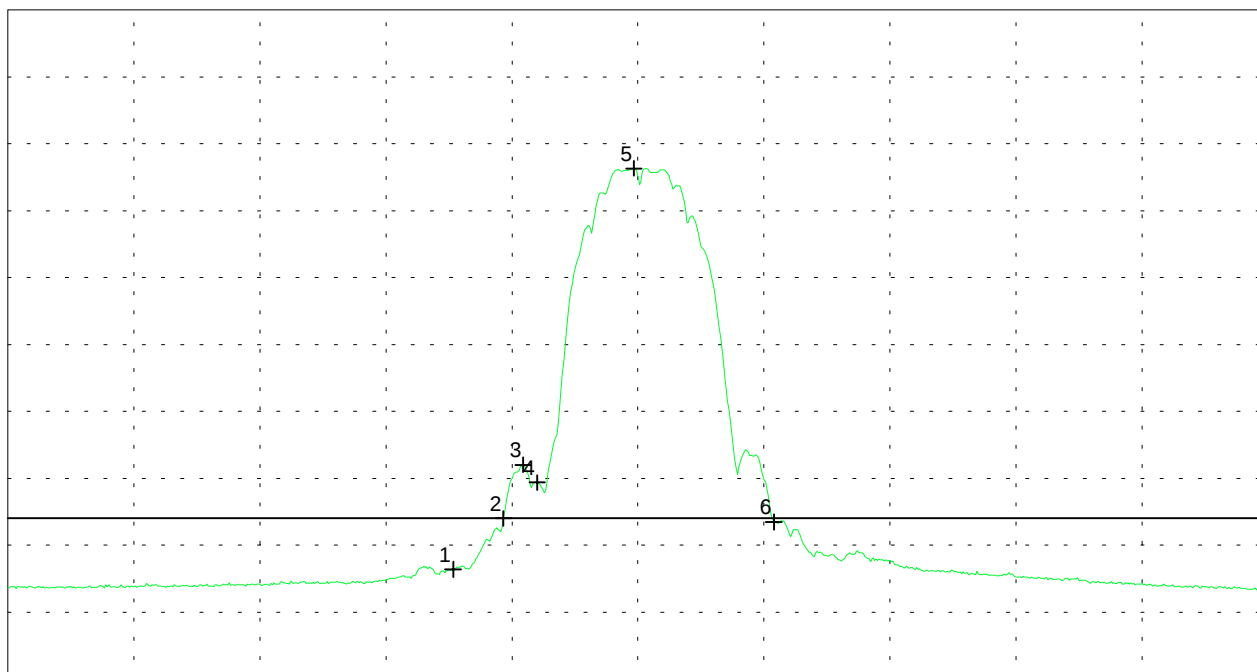
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.487 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.390000 GHz | 46.37 dB $\mu$ V/m  |
| No. 2 | 2.396000 GHz | 53.99 dB $\mu$ V/m  |
| No. 3 | 2.398333 GHz | 62.01 dB $\mu$ V/m  |
| No. 4 | 2.400000 GHz | 59.35 dB $\mu$ V/m  |
| No. 5 | 2.411500 GHz | 106.33 dB $\mu$ V/m |
| No. 6 | 2.428167 GHz | 53.46 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.4320             | vertical     | 52.3                                 | 0.6                   | 20.7                           | 73.6                            | OB                      |
| 2.4427             | vertical     | 90.6                                 | 0.6                   | 20.7                           | 112.0                           | OB                      |
| 2.4540             | vertical     | 52.7                                 | 0.6                   | 20.7                           | 74.0                            | OB                      |
| 2.6660             | vertical     | 19.8                                 | 0.6                   | 23.7                           | 44.1                            | 74                      |
| 2.7965             | vertical     | 20.8                                 | 0.7                   | 23.7                           | 45.1                            | 74                      |
| 3.1895             | vertical     | 19.9                                 | 0.7                   | 23.7                           | 44.3                            | 74                      |
| 4.8894             | horizontal   | 16.7                                 | 0.9                   | 27.3                           | 44.9                            | 74                      |
| 7.3279             | vertical     | 15.6                                 | 1.1                   | 29.9                           | 46.6                            | 74                      |
| 9.7680             | vertical     | 12.0                                 | 1.3                   | 33.4                           | 46.7                            | NRB                     |

**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 112.0 dB $\mu$ V/m.

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

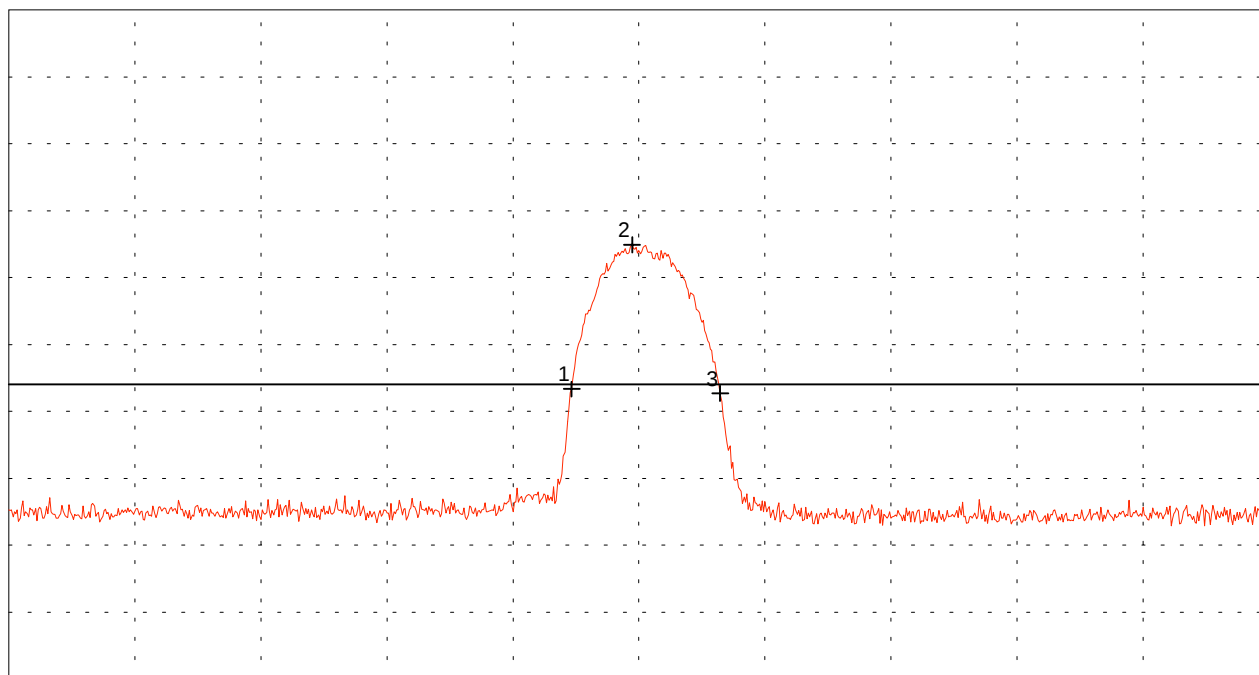
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz  
SWP 20 ms

## Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.434000 GHz | 73.36 dB $\mu$ V/m |
| No. 2 | 2.441167 GHz | 94.90 dB $\mu$ V/m |
| No. 3 | 2.451667 GHz | 72.70 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

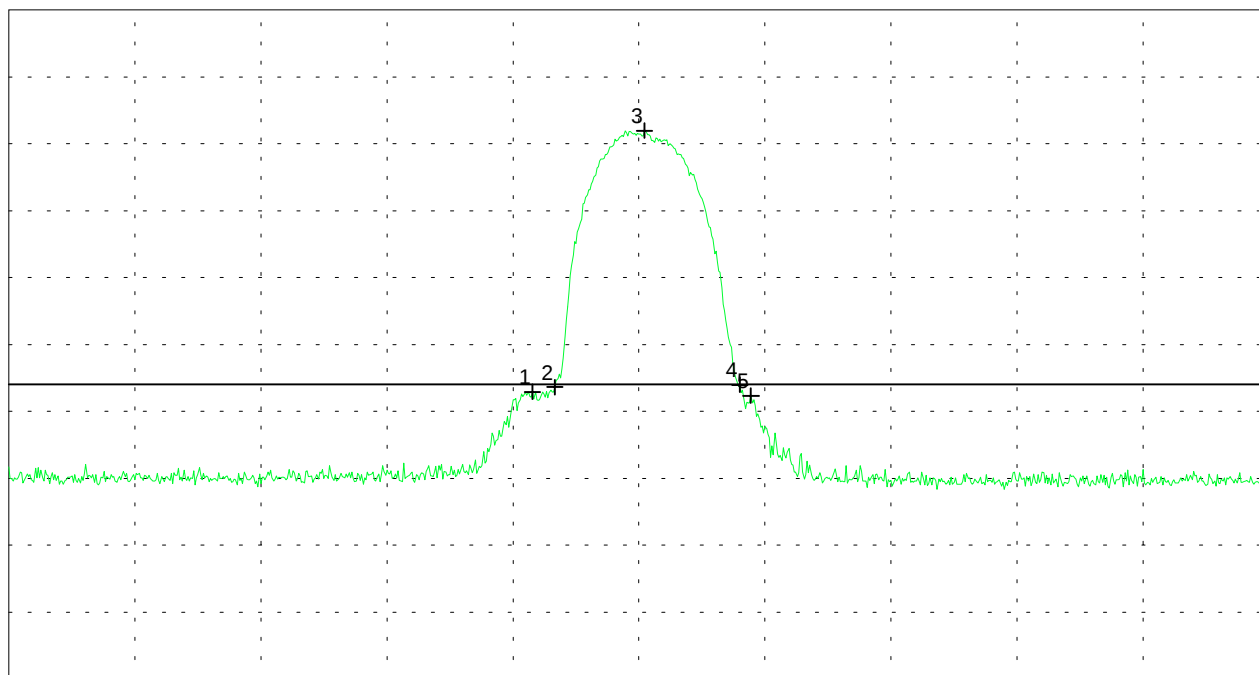
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz  
SWP 20 ms

## Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.429333 GHz | 72.93 dB $\mu$ V/m  |
| No. 2 | 2.432000 GHz | 73.61 dB $\mu$ V/m  |
| No. 3 | 2.442667 GHz | 111.96 dB $\mu$ V/m |
| No. 4 | 2.454000 GHz | 73.99 dB $\mu$ V/m  |
| No. 5 | 2.455333 GHz | 72.32 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.4243             | vertical     | 32.3                                 | 0.6                   | 20.7                           | 53.6                            | OB                      |
| 2.4413             | vertical     | 84.6                                 | 0.6                   | 20.7                           | 105.9                           | OB                      |
| 2.4572             | vertical     | 31.9                                 | 0.6                   | 20.7                           | 53.2                            | OB                      |
| 2.6645             | vertical     | < 11.2                               | 0.6                   | 23.7                           | < 35.5                          | 54                      |
| 2.7980             | vertical     | < 12.7                               | 0.7                   | 23.7                           | < 37.1                          | 54                      |
| 4.8843             | vertical     | 12.1                                 | 0.9                   | 27.3                           | 40.3                            | 54                      |
| 7.3254             | vertical     | 7.0                                  | 1.1                   | 29.9                           | 38.0                            | 54                      |
| 9.7680             | vertical     | 7.7                                  | 1.3                   | 33.4                           | 42.4                            | NRB                     |

**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 105.9 dB $\mu$ V/m.

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

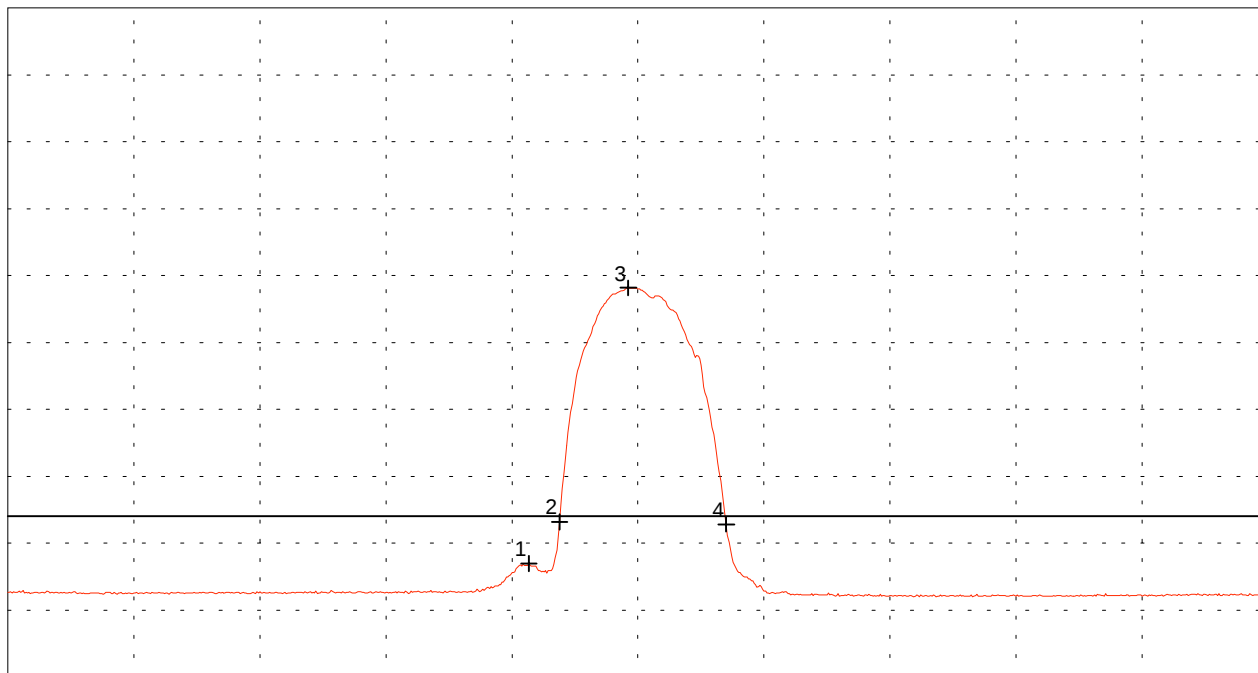
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.429000 GHz | 46.95 dB $\mu$ V/m |
| No. 2 | 2.432667 GHz | 53.17 dB $\mu$ V/m |
| No. 3 | 2.440833 GHz | 88.17 dB $\mu$ V/m |
| No. 4 | 2.452500 GHz | 52.82 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

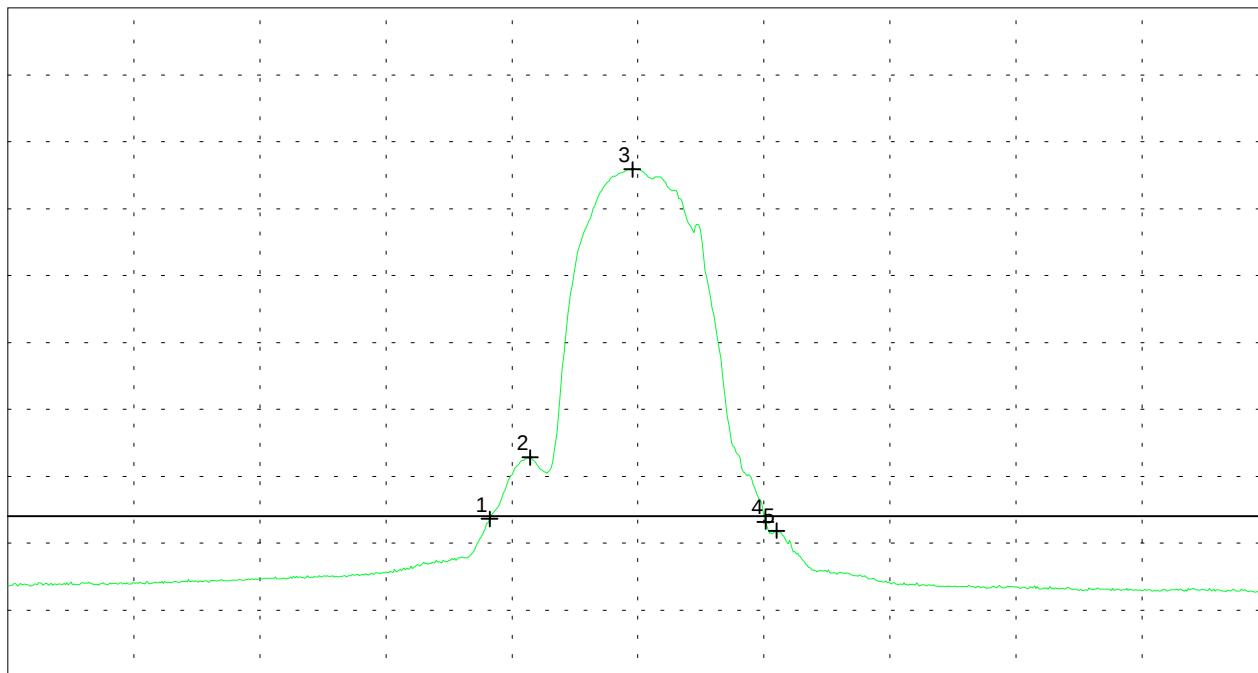
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.424333 GHz | 53.63 dB $\mu$ V/m  |
| No. 2 | 2.429167 GHz | 62.80 dB $\mu$ V/m  |
| No. 3 | 2.441333 GHz | 105.89 dB $\mu$ V/m |
| No. 4 | 2.457167 GHz | 53.20 dB $\mu$ V/m  |
| No. 5 | 2.458500 GHz | 51.88 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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 2 Mbps
- TX mode with  $f = 2.442$  GHz

Detector: Peak

| Frequency<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.4323             | vertical     | 51.9                                 | 0.6                   | 20.7                           | 73.2                            | OB                      |
| 2.4410             | vertical     | 88.8                                 | 0.6                   | 20.7                           | 110.1                           | OB                      |
| 2.4535             | vertical     | 52.1                                 | 0.6                   | 20.7                           | 73.4                            | OB                      |
| 4.8841             | vertical     | 19.6                                 | 0.9                   | 27.3                           | 47.8                            | 74                      |
| 7.3262             | vertical     | 15.9                                 | 1.1                   | 29.9                           | 47.0                            | 74                      |
| 9.7682             | vertical     | 12.1                                 | 1.3                   | 33.4                           | 46.8                            | NRB                     |

**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 110.1 dB $\mu$ V/m.

**Note 2:** Extent of testing harmonics with 2 Mbps selected according to results of radiator 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-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.442$  GHz

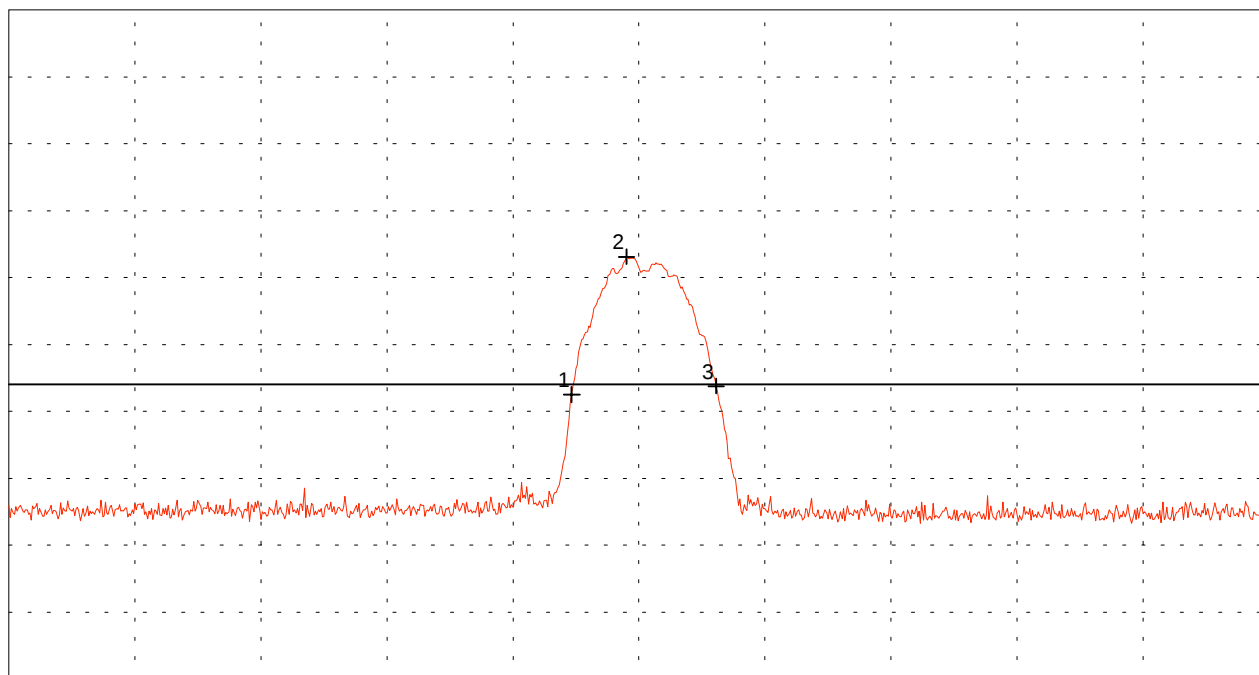
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.434000 GHz | 72.50 dB $\mu$ V/m |
| No. 2 | 2.440500 GHz | 93.12 dB $\mu$ V/m |
| No. 3 | 2.451167 GHz | 73.79 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.442$  GHz

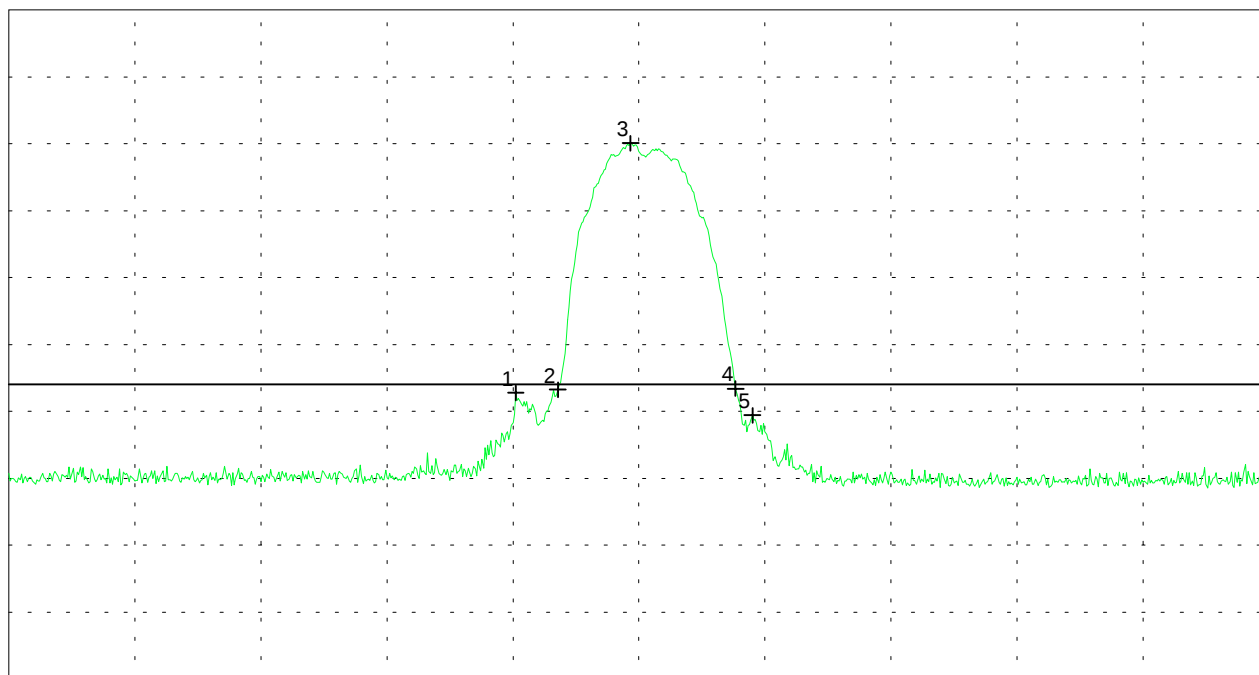
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz  
SWP 20 ms

## Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.427333 GHz | 72.77 dB $\mu$ V/m  |
| No. 2 | 2.432333 GHz | 73.23 dB $\mu$ V/m  |
| No. 3 | 2.441000 GHz | 110.08 dB $\mu$ V/m |
| No. 4 | 2.453500 GHz | 73.38 dB $\mu$ V/m  |
| No. 5 | 2.455500 GHz | 69.40 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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 2 Mbps
- TX mode with  $f = 2.442$  GHz

Detector: Average

| Frequency<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.4245             | vertical     | 32.5                                 | 0.6                   | 20.7                           | 53.9                            | OB                      |
| 2.4395             | vertical     | 85.0                                 | 0.6                   | 20.7                           | 106.3                           | OB                      |
| 2.4580             | vertical     | 32.2                                 | 0.6                   | 20.7                           | 53.5                            | OB                      |
| 4.8840             | vertical     | 17.2                                 | 0.9                   | 27.3                           | 45.4                            | 54                      |
| 7.3269             | vertical     | 10.1                                 | 1.1                   | 29.9                           | 41.2                            | 54                      |
| 9.7680             | vertical     | 9.4                                  | 1.3                   | 33.4                           | 44.1                            | NRB                     |

**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 106.3 dB $\mu$ V/m.

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

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.442$  GHz

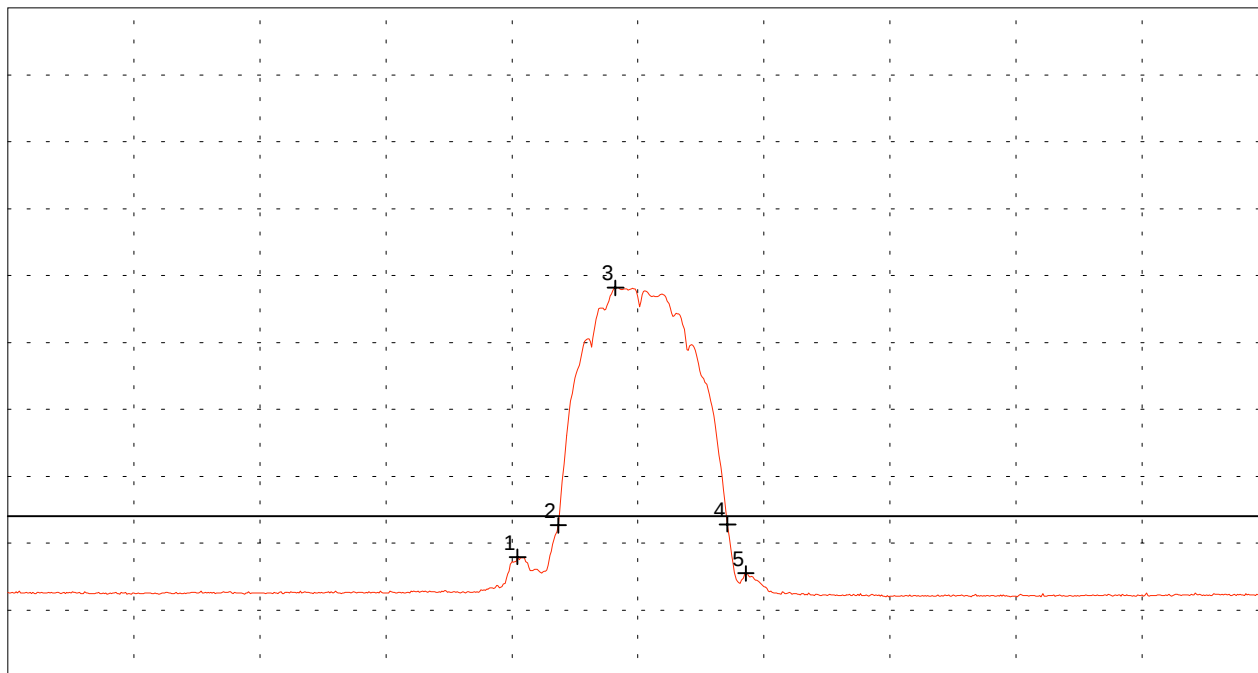
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.427667 GHz | 47.92 dB $\mu$ V/m |
| No. 2 | 2.432500 GHz | 52.67 dB $\mu$ V/m |
| No. 3 | 2.439333 GHz | 88.19 dB $\mu$ V/m |
| No. 4 | 2.452667 GHz | 52.84 dB $\mu$ V/m |
| No. 5 | 2.454833 GHz | 45.51 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.442$  GHz

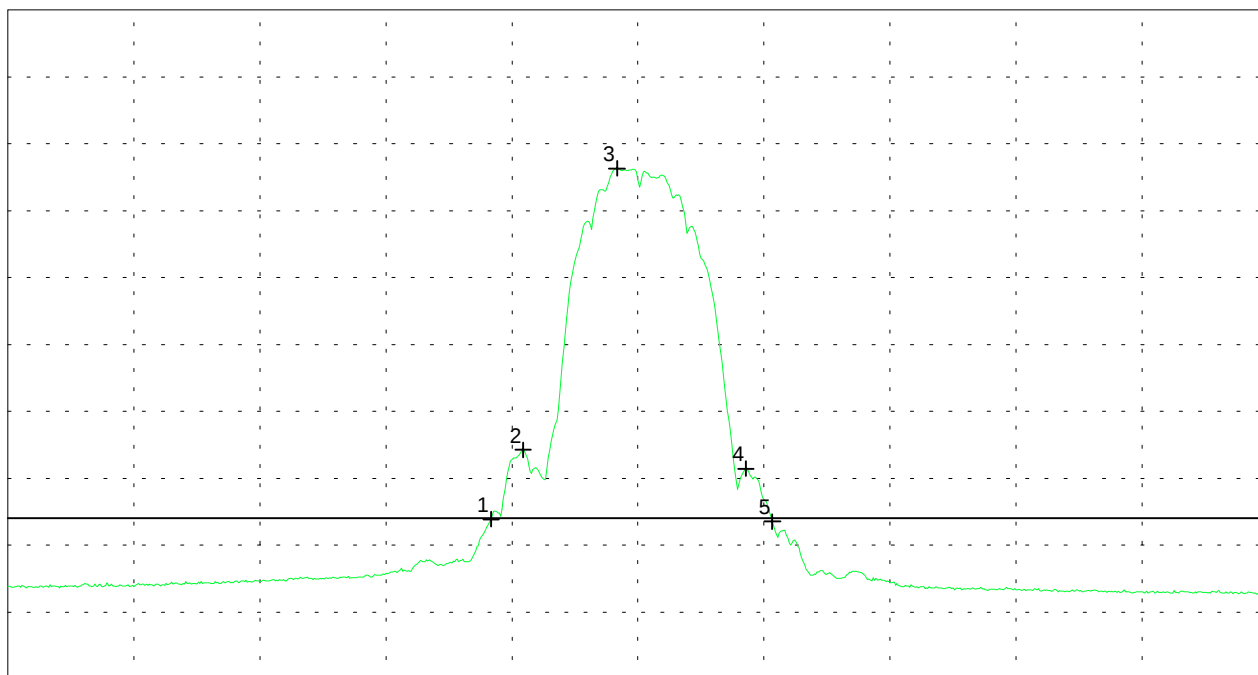
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.517 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.424500 GHz | 53.86 dB $\mu$ V/m  |
| No. 2 | 2.428333 GHz | 64.25 dB $\mu$ V/m  |
| No. 3 | 2.439500 GHz | 106.30 dB $\mu$ V/m |
| No. 4 | 2.454833 GHz | 61.41 dB $\mu$ V/m  |
| No. 5 | 2.458000 GHz | 53.51 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
Type: RF-modem for wireless LAN  
Serial No.: 01UT34333360  
Applicant: Agere Systems Nederland B.V.  
Test-site: Semi anechoic room  
Test distance: 3 meters  
Date of test: 02/04/2002  
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 $\mu$ V] | Cable loss [dB] | Antenna-correction [dB] | Fieldstrength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] |
|-------------------------|--------------|-------------------------------|-----------------|-------------------------|------------------------------|----------------------|
| 2.4518                  | vertical     | 52.5                          | 0.6             | 20.7                    | 73.9                         | OB                   |
| 2.4628                  | vertical     | 90.9                          | 0.6             | 20.7                    | 112.2                        | OB                   |
| 2.4737                  | vertical     | 52.6                          | 0.6             | 20.7                    | 73.9                         | OB                   |
| 2.4835                  | vertical     | 38.8                          | 0.6             | 20.7                    | 60.1                         | 74                   |
| 2.4943                  | vertical     | 40.5                          | 0.6             | 20.7                    | 61.8                         | 74                   |
| 2.5000                  | vertical     | 39.0                          | 0.6             | 20.7                    | 60.3                         | 74                   |
| 2.6675                  | vertical     | 19.8                          | 0.6             | 23.7                    | 44.2                         | 74                   |
| 2.7965                  | vertical     | 20.9                          | 0.7             | 23.7                    | 45.2                         | 74                   |
| 2.9195                  | vertical     | 20.4                          | 0.7             | 23.7                    | 44.8                         | 74                   |
| 3.3215                  | vertical     | 20.1                          | 0.7             | 23.7                    | 44.5                         | 74                   |
| 3.4760                  | vertical     | 19.9                          | 0.7             | 23.8                    | 44.4                         | 74                   |
| 3.7190                  | horizontal   | 20.1                          | 0.8             | 23.8                    | 44.7                         | 74                   |
| 4.9296                  | vertical     | 18.5                          | 0.9             | 27.3                    | 46.7                         | 74                   |
| 7.3906                  | vertical     | 15.8                          | 1.1             | 30.0                    | 46.9                         | 74                   |
| 9.8473                  | vertical     | 10.5                          | 1.3             | 33.4                    | 45.2                         | NRB                  |
| Test distance 0.5 meter |              |                               |                 |                         |                              |                      |
| 19.6956                 | vertical     | 12.9                          | 1.9             | 40.3                    | 55.1                         | 89.6                 |

**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 112.2 dB $\mu$ V/m.

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

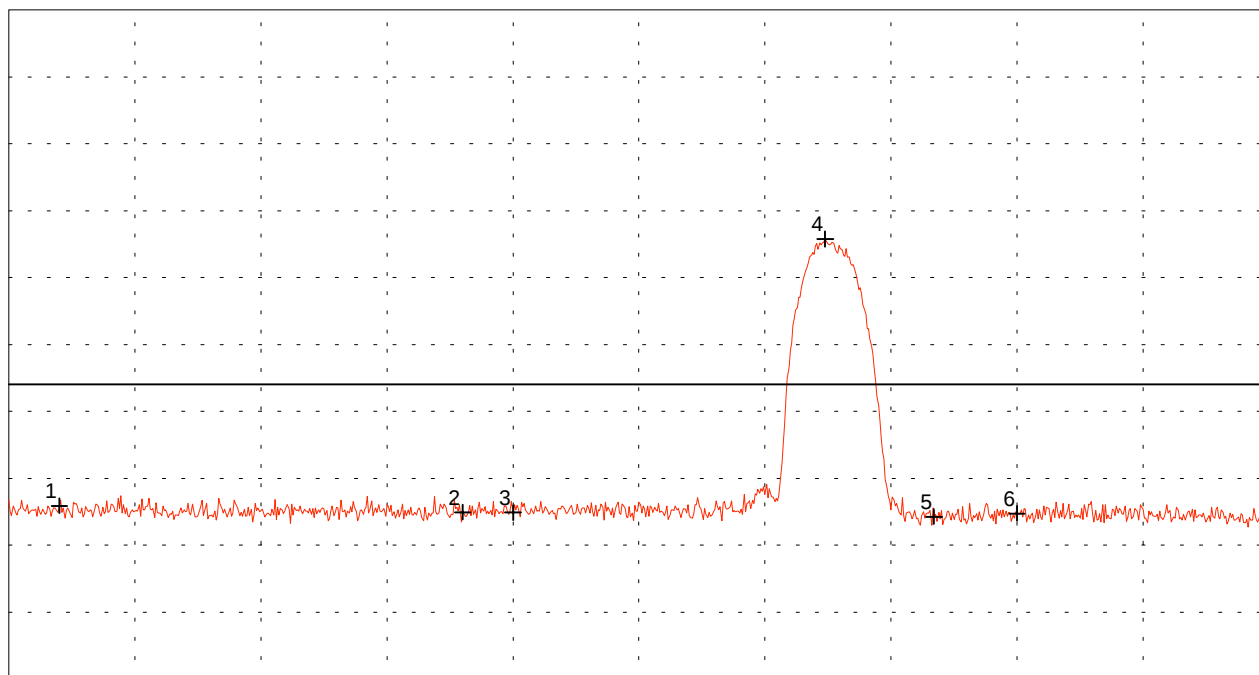
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.550 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.310000 GHz | 55.87 dB $\mu$ V/m |
| No. 2 | 2.390000 GHz | 54.93 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 54.88 dB $\mu$ V/m |
| No. 4 | 2.461944 GHz | 95.76 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 54.24 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 54.72 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

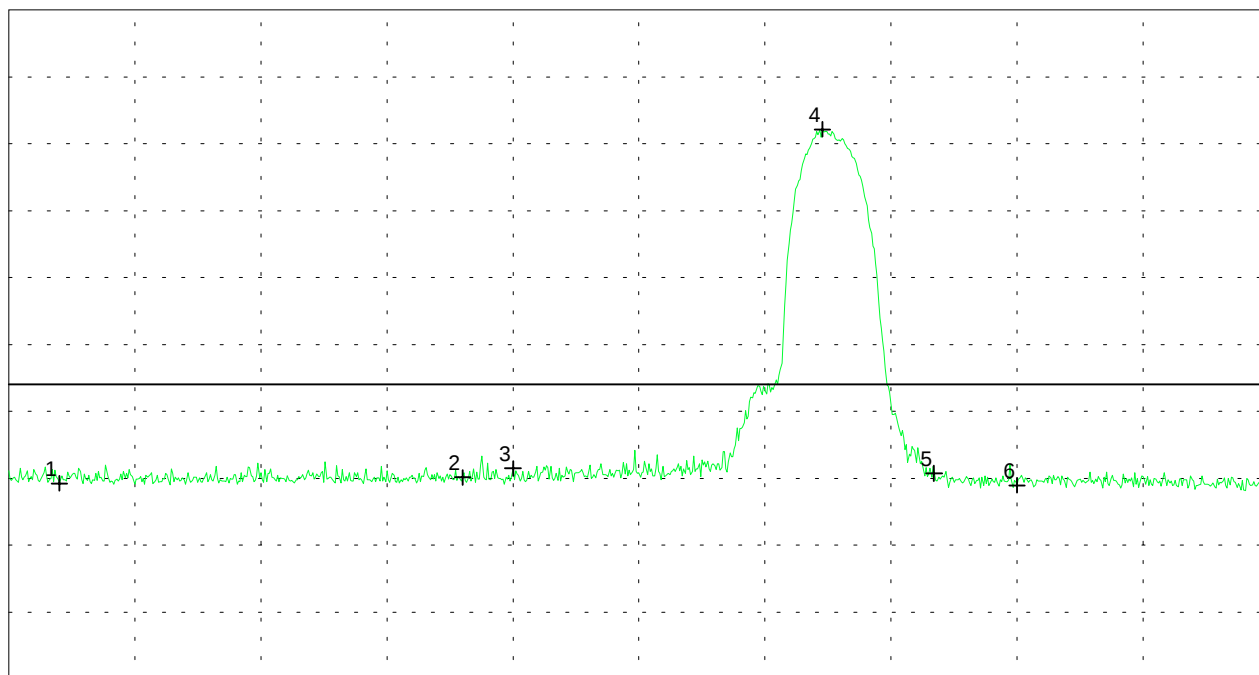
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.550 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.310000 GHz | 59.24 dB $\mu$ V/m  |
| No. 2 | 2.390000 GHz | 60.13 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 61.47 dB $\mu$ V/m  |
| No. 4 | 2.461389 GHz | 112.16 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 60.74 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 58.96 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

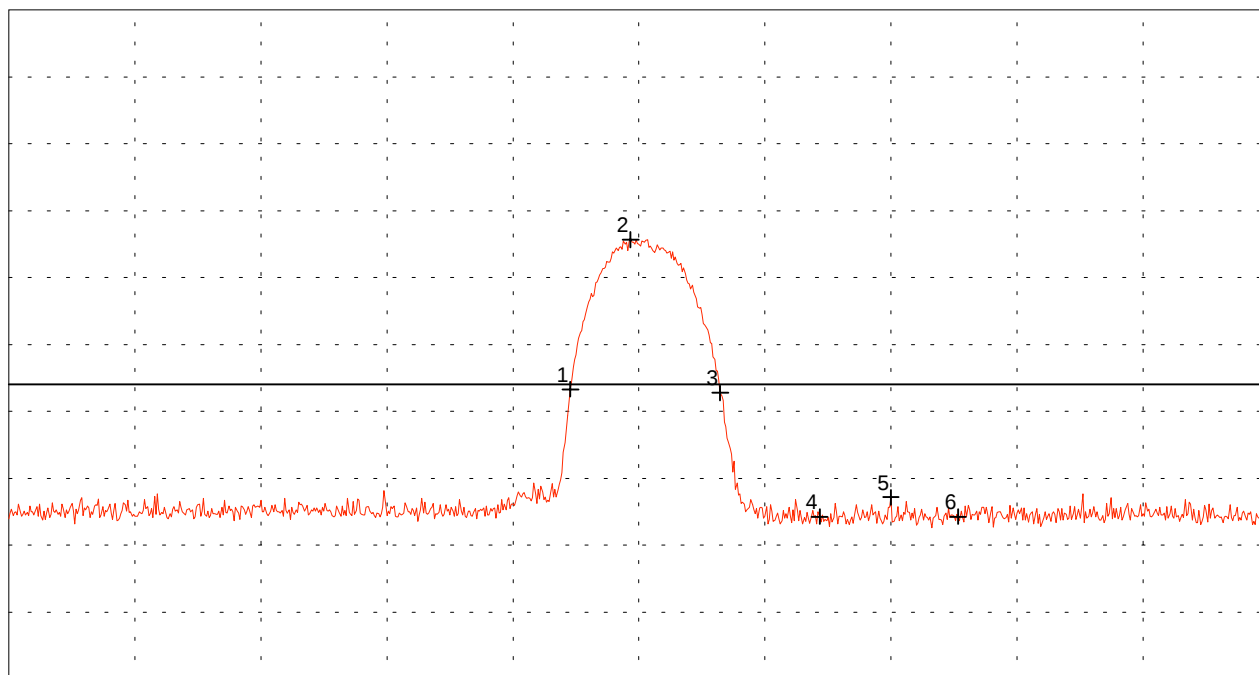
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.453833 GHz | 73.31 dB $\mu$ V/m |
| No. 2 | 2.461000 GHz | 95.68 dB $\mu$ V/m |
| No. 3 | 2.471667 GHz | 72.78 dB $\mu$ V/m |
| No. 4 | 2.483500 GHz | 54.27 dB $\mu$ V/m |
| No. 5 | 2.492000 GHz | 57.16 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 54.24 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

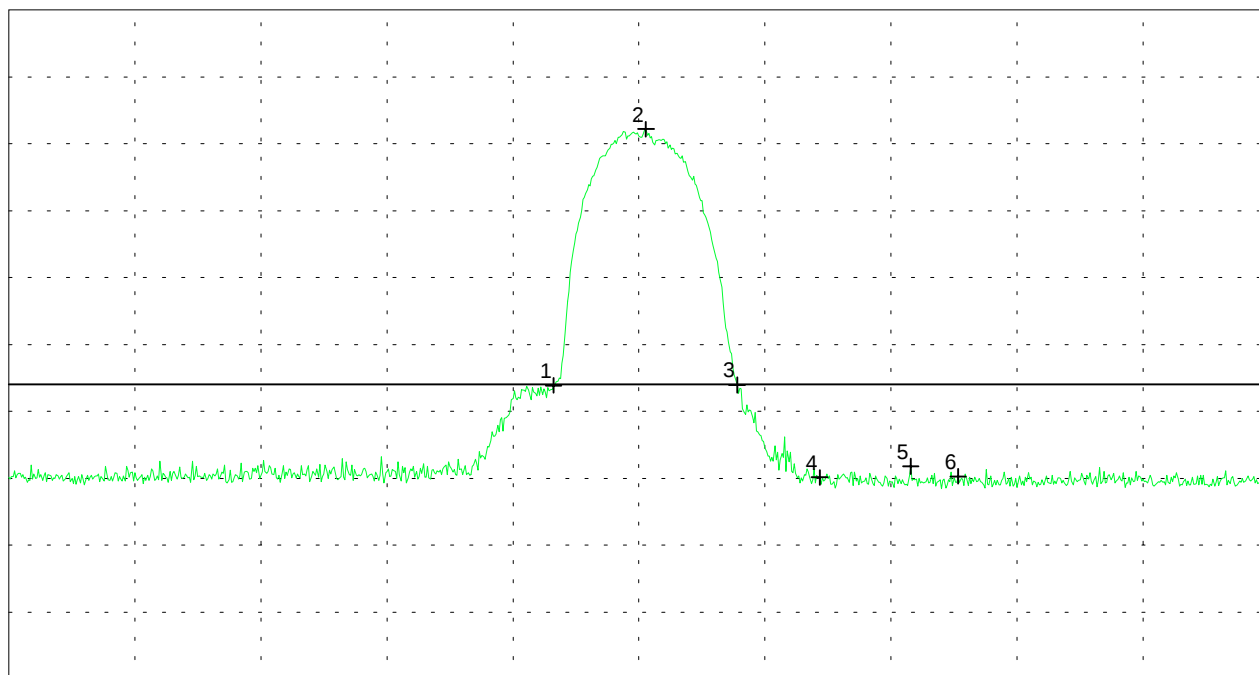
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz  
SWP 20 ms

## Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.451833 GHz | 73.86 dB $\mu$ V/m  |
| No. 2 | 2.462833 GHz | 112.18 dB $\mu$ V/m |
| No. 3 | 2.473667 GHz | 73.94 dB $\mu$ V/m  |
| No. 4 | 2.483500 GHz | 60.13 dB $\mu$ V/m  |
| No. 5 | 2.494333 GHz | 61.78 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 60.28 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
Type: RF-modem for wireless LAN  
Serial No.: 01UT34333360  
Applicant: Agere Systems Nederland B.V.  
Test-site: Semi anechoic room  
Test distance: 3 meters  
Date of test: 02/04/2002  
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: Average

| Frequency<br>[GHz]      | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|-------------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.4438                  | vertical     | 32.4                                 | 0.6                   | 20.7                           | 53.7                            | OB                      |
| 2.4608                  | vertical     | 84.8                                 | 0.6                   | 20.7                           | 106.1                           | OB                      |
| 2.4767                  | vertical     | 32.1                                 | 0.6                   | 20.7                           | 53.5                            | OB                      |
| 2.4835                  | vertical     | 24.0                                 | 0.6                   | 20.7                           | 45.3                            | 54                      |
| 2.4838                  | vertical     | 24.1                                 | 0.6                   | 20.7                           | 45.4                            | 54                      |
| 2.5000                  | vertical     | 22.2                                 | 0.6                   | 20.7                           | 43.6                            | 54                      |
| 2.6495                  | horizontal   | < 10.6                               | 0.6                   | 23.7                           | < 34.9                          | 54                      |
| 2.7980                  | vertical     | < 12.4                               | 0.7                   | 23.7                           | < 36.8                          | 54                      |
| 2.9330                  | vertical     | < 10.1                               | 0.7                   | 23.7                           | < 34.5                          | 54                      |
| 4.9243                  | vertical     | 11.0                                 | 0.9                   | 27.3                           | 39.2                            | 54                      |
| 7.3862                  | vertical     | 7.3                                  | 1.1                   | 30.0                           | 38.4                            | 54                      |
| Test distance 0.5 meter |              |                                      |                       |                                |                                 |                         |
| 19.6878                 | vertical     | 10.0                                 | 1.9                   | 40.3                           | 52.2                            | 69.6                    |

**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 106.1 dB $\mu$ V/m.

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

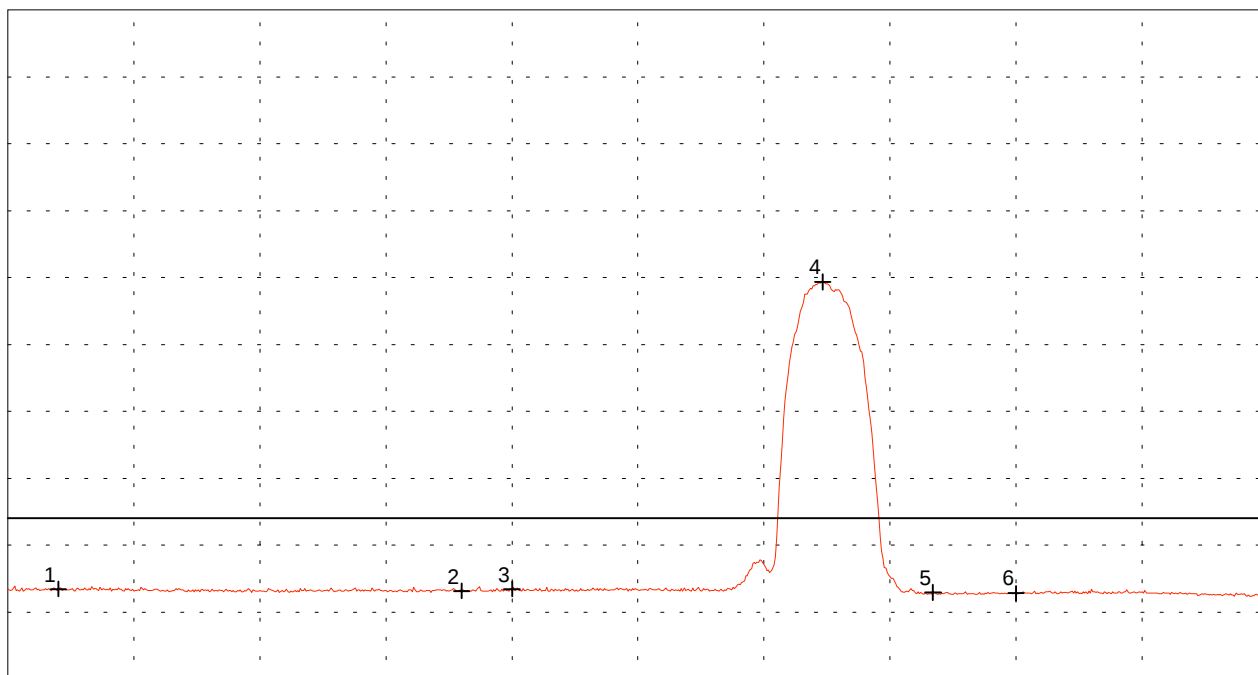
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz  
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz  
SWP 260 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.310000 GHz | 43.45 dB $\mu$ V/m |
| No. 2 | 2.390000 GHz | 43.17 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 43.45 dB $\mu$ V/m |
| No. 4 | 2.461667 GHz | 89.36 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 42.92 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 42.81 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

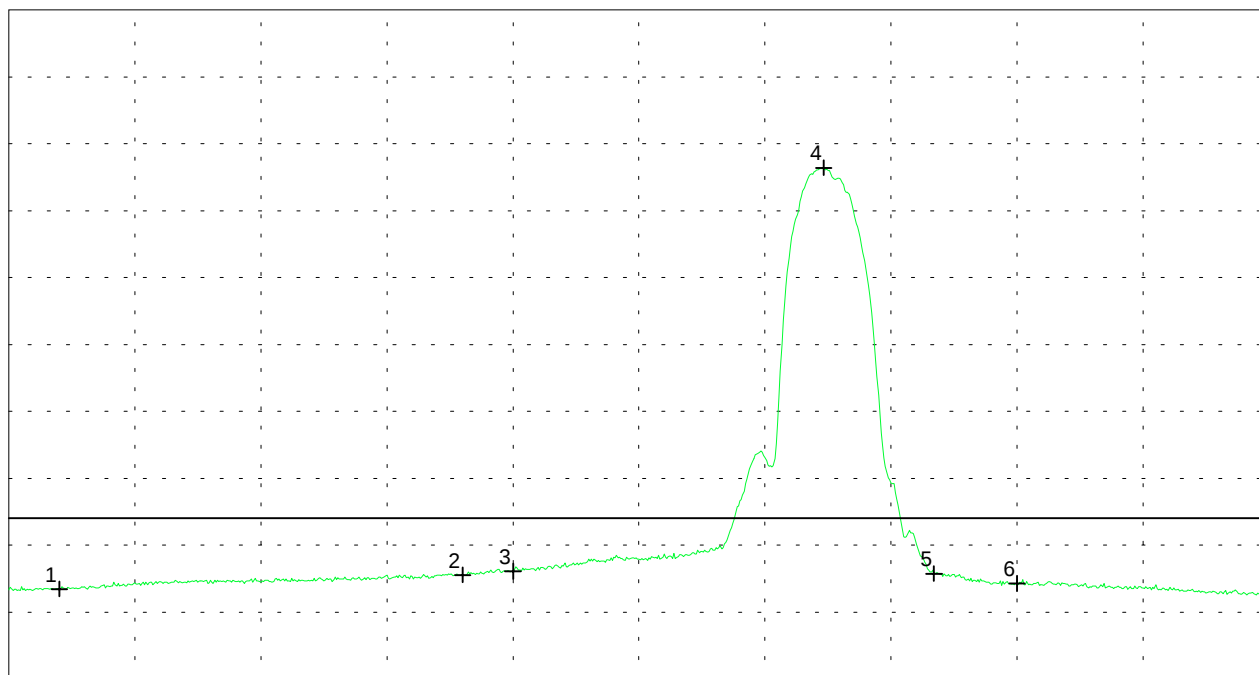
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz  
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz  
SWP 260 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.310000 GHz | 43.43 dB $\mu$ V/m  |
| No. 2 | 2.390000 GHz | 45.56 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 46.09 dB $\mu$ V/m  |
| No. 4 | 2.461667 GHz | 106.43 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 45.76 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 44.26 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

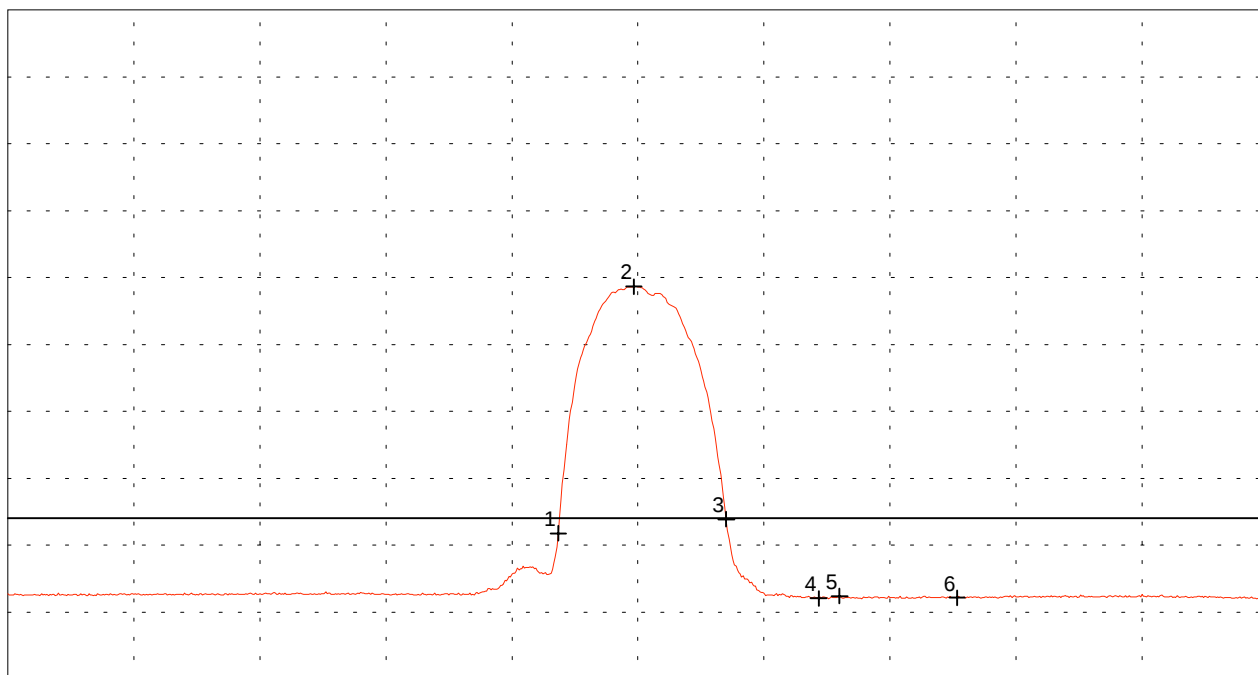
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.537 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.452500 GHz | 51.78 dB $\mu$ V/m |
| No. 2 | 2.461500 GHz | 88.67 dB $\mu$ V/m |
| No. 3 | 2.472500 GHz | 53.89 dB $\mu$ V/m |
| No. 4 | 2.483500 GHz | 42.03 dB $\mu$ V/m |
| No. 5 | 2.486000 GHz | 42.38 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 42.15 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 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

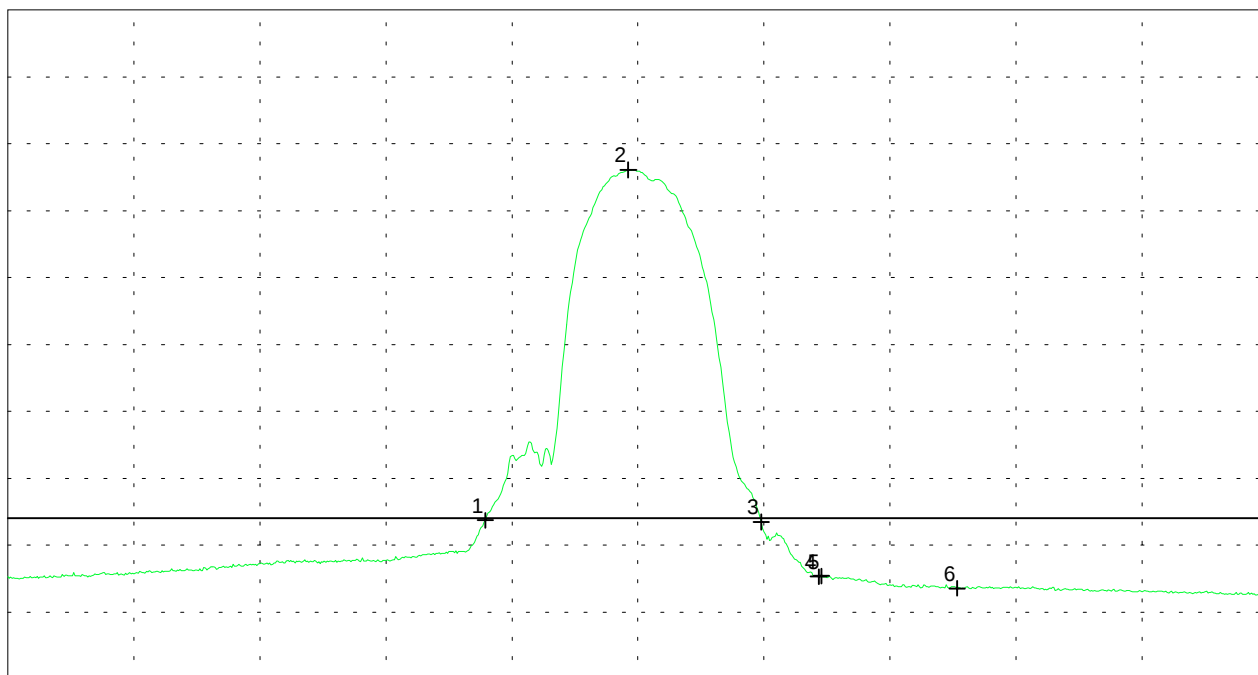
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.537 GHz  
SWP 460 ms

## Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.443833 GHz | 53.71 dB $\mu$ V/m  |
| No. 2 | 2.460833 GHz | 106.10 dB $\mu$ V/m |
| No. 3 | 2.476667 GHz | 53.46 dB $\mu$ V/m  |
| No. 4 | 2.483500 GHz | 45.31 dB $\mu$ V/m  |
| No. 5 | 2.483833 GHz | 45.38 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 43.55 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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 2 Mbps
- TX mode with  $f = 2.462$  GHz

Detector: Peak

| Frequency<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.4523             | vertical     | 52.1                                 | 0.6                   | 20.7                           | 73.4                            | OB                      |
| 2.4608             | vertical     | 89.0                                 | 0.6                   | 20.7                           | 110.3                           | OB                      |
| 2.4735             | vertical     | 52.1                                 | 0.6                   | 20.7                           | 73.4                            | OB                      |
| 2.4835             | vertical     | 38.3                                 | 0.6                   | 20.7                           | 59.6                            | 74                      |
| 2.4988             | vertical     | 41.0                                 | 0.6                   | 20.7                           | 62.4                            | 74                      |
| 2.5000             | vertical     | 39.8                                 | 0.6                   | 20.7                           | 61.2                            | 74                      |
| 4.9241             | vertical     | 20.8                                 | 0.9                   | 27.3                           | 49.0                            | 74                      |
| 7.3841             | vertical     | 17.8                                 | 1.1                   | 30.0                           | 48.8                            | 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 110.3 dB $\mu$ V/m.

**Note 2:** Extent of testing harmonics with 2 Mbps selected according to results of radiator 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-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.462$  GHz

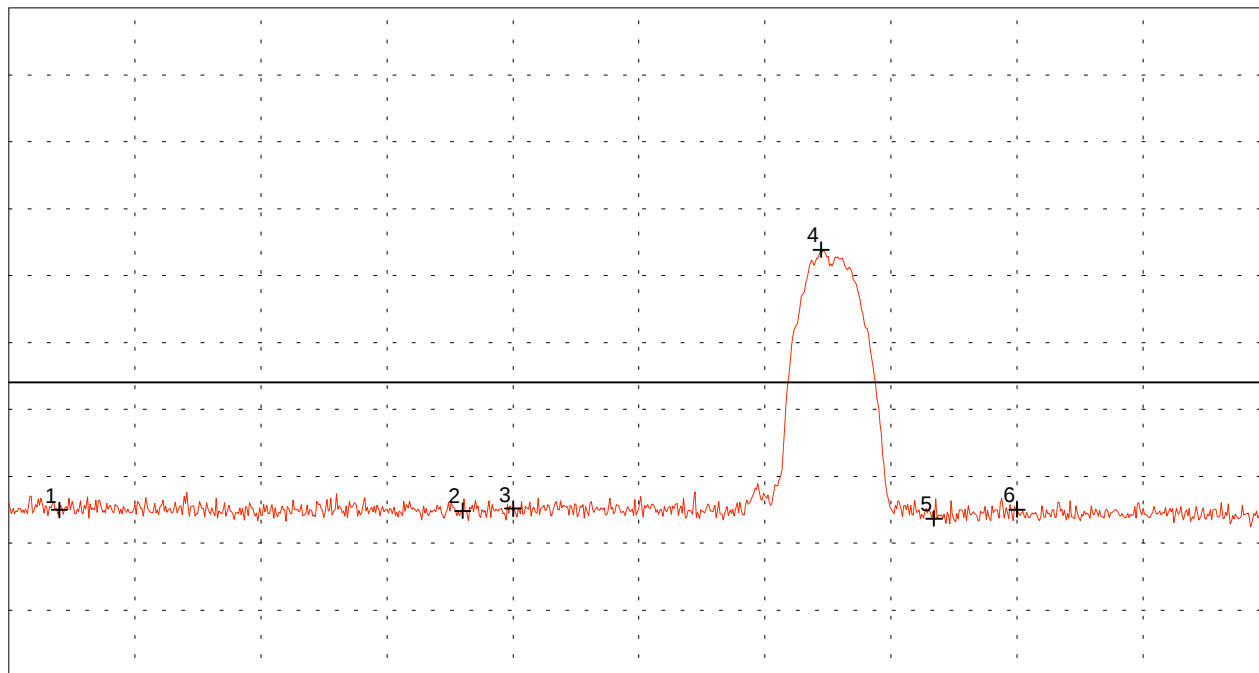
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.550 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.310000 GHz | 54.95 dB $\mu$ V/m |
| No. 2 | 2.390000 GHz | 54.85 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 55.15 dB $\mu$ V/m |
| No. 4 | 2.461111 GHz | 93.85 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 53.68 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 55.03 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.462$  GHz

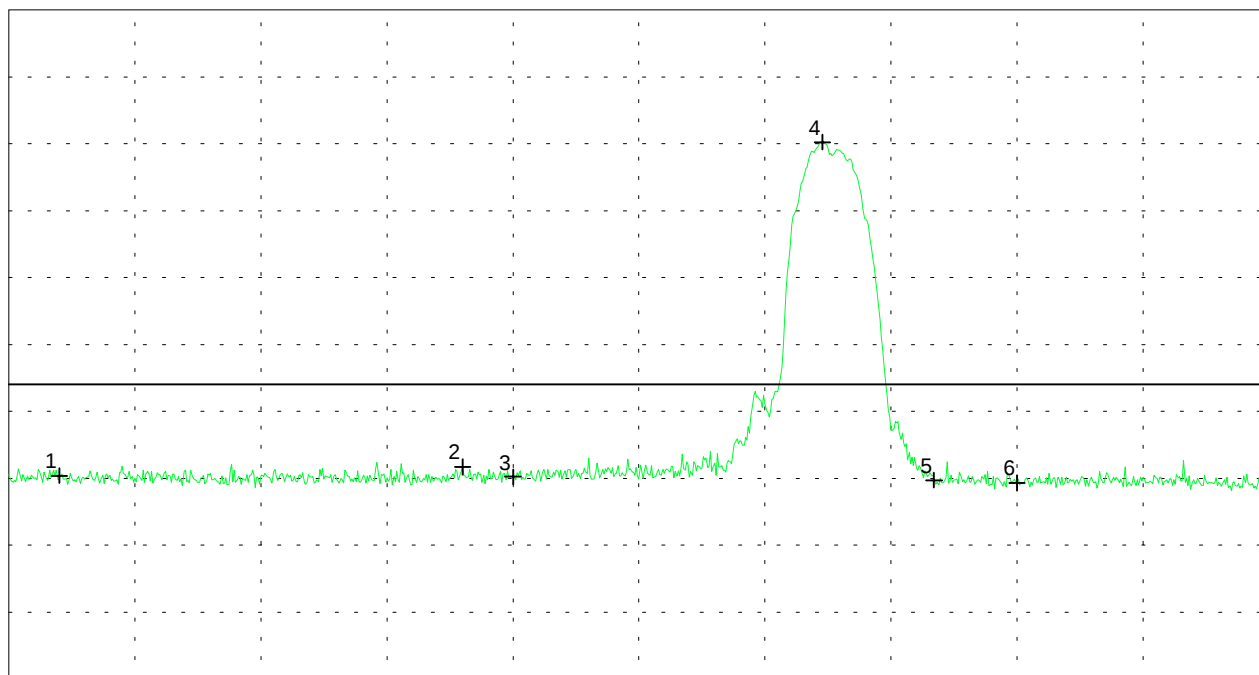
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.550 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.310000 GHz | 60.36 dB $\mu$ V/m  |
| No. 2 | 2.390000 GHz | 61.70 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 60.23 dB $\mu$ V/m  |
| No. 4 | 2.461389 GHz | 110.23 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 59.70 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 59.29 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.462$  GHz

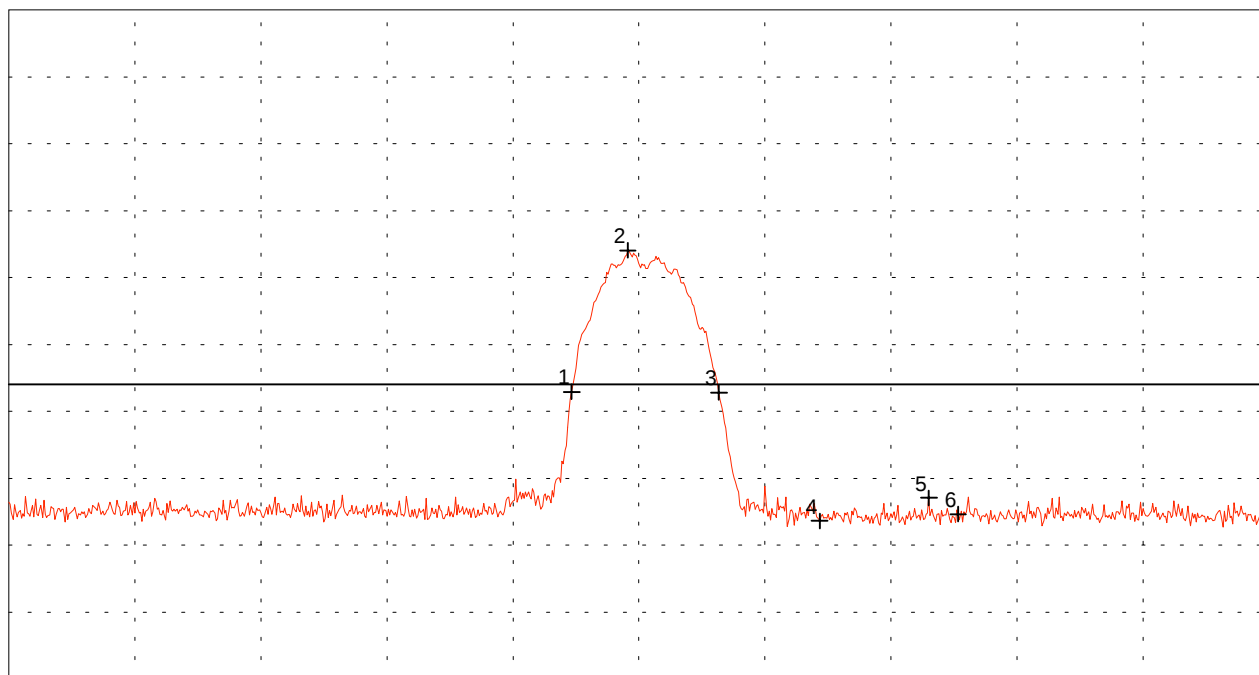
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.454000 GHz | 72.90 dB $\mu$ V/m |
| No. 2 | 2.460667 GHz | 94.06 dB $\mu$ V/m |
| No. 3 | 2.471500 GHz | 72.80 dB $\mu$ V/m |
| No. 4 | 2.483500 GHz | 53.63 dB $\mu$ V/m |
| No. 5 | 2.496500 GHz | 57.08 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 54.65 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.462$  GHz

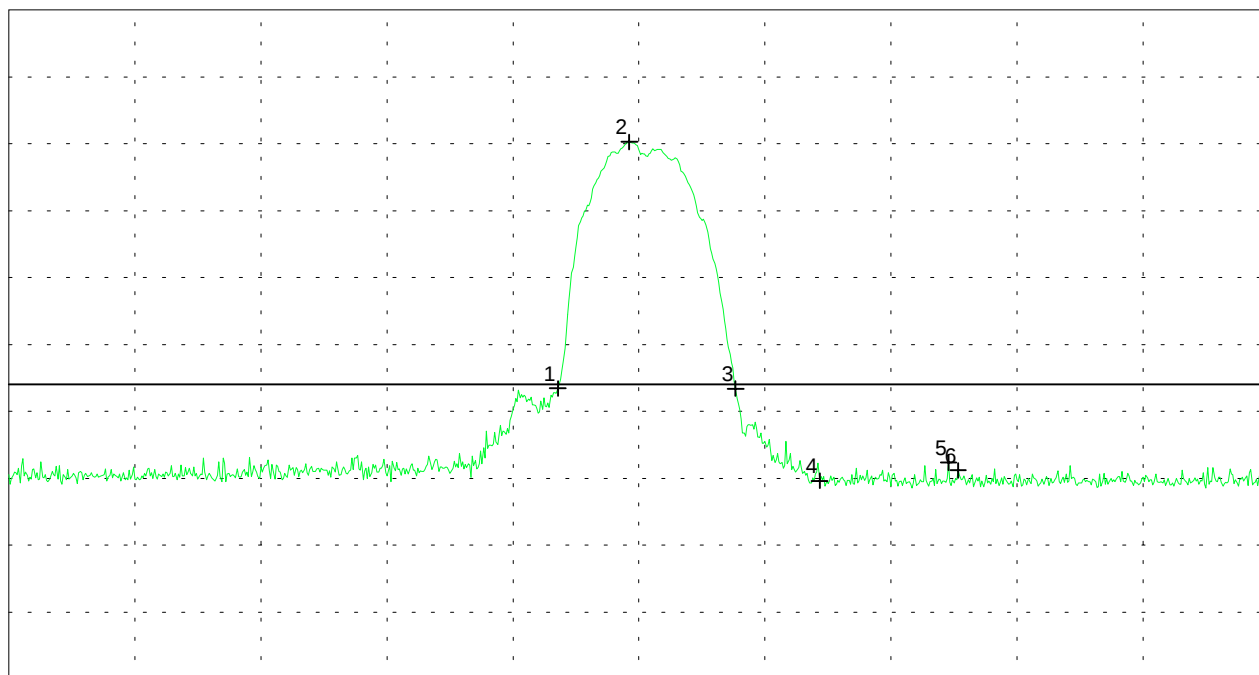
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz  
SWP 20 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.452333 GHz | 73.43 dB $\mu$ V/m  |
| No. 2 | 2.460833 GHz | 110.28 dB $\mu$ V/m |
| No. 3 | 2.473500 GHz | 73.41 dB $\mu$ V/m  |
| No. 4 | 2.483500 GHz | 59.64 dB $\mu$ V/m  |
| No. 5 | 2.498833 GHz | 62.36 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 61.17 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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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-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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 2 Mbps
- TX mode with  $f = 2.462$  GHz

Detector: Average

| Frequency<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 2.4437             | vertical     | 32.4                                 | 0.6                   | 20.7                           | 53.7                            | OB                      |
| 2.4593             | vertical     | 85.4                                 | 0.6                   | 20.7                           | 106.7                           | OB                      |
| 2.4775             | vertical     | 32.5                                 | 0.6                   | 20.7                           | 53.8                            | OB                      |
| 2.4835             | vertical     | 24.0                                 | 0.6                   | 20.7                           | 45.3                            | 54                      |
| 2.4878             | vertical     | 24.2                                 | 0.6                   | 20.7                           | 45.5                            | 54                      |
| 2.5000             | vertical     | 22.6                                 | 0.6                   | 20.7                           | 43.9                            | 54                      |
| 4.9239             | vertical     | 18.7                                 | 0.9                   | 27.3                           | 46.9                            | 54                      |
| 7.3853             | vertical     | 10.9                                 | 1.1                   | 30.0                           | 42.0                            | 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 106.7 dB $\mu$ V/m.

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

**Result:** The limits are kept

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.462$  GHz

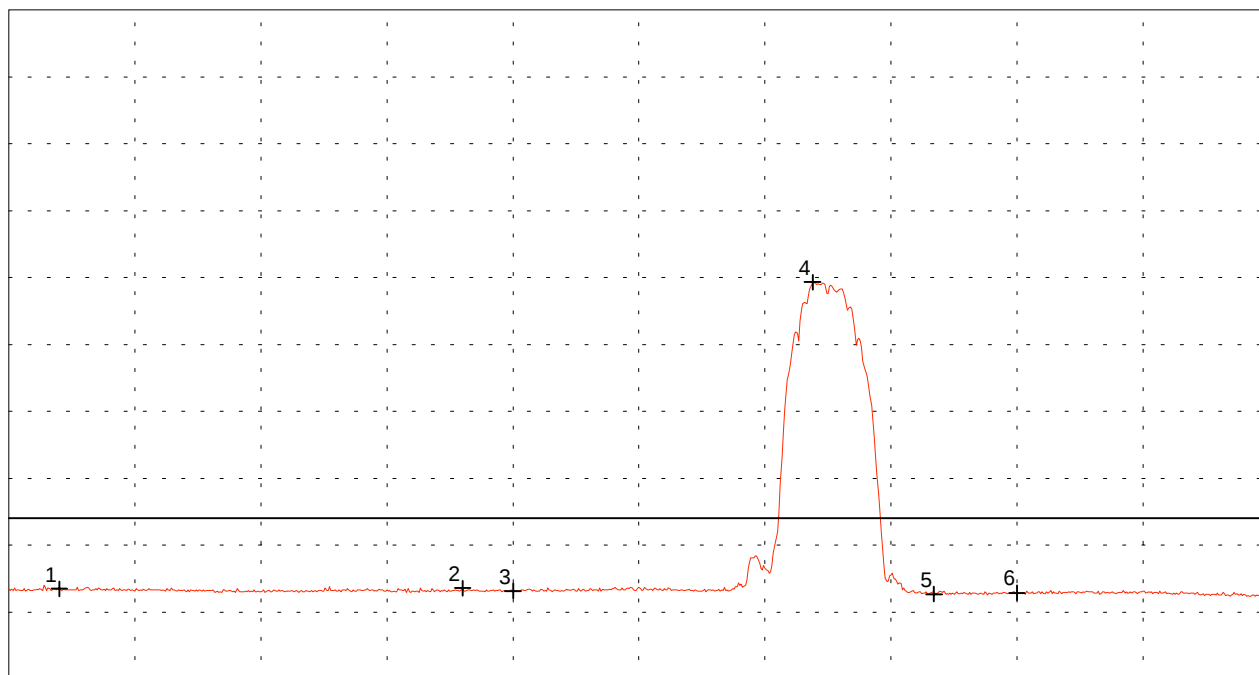
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz  
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz  
SWP 260 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.310000 GHz | 43.47 dB $\mu$ V/m |
| No. 2 | 2.390000 GHz | 43.58 dB $\mu$ V/m |
| No. 3 | 2.400000 GHz | 43.17 dB $\mu$ V/m |
| No. 4 | 2.459444 GHz | 89.31 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 42.69 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 42.86 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.462$  GHz

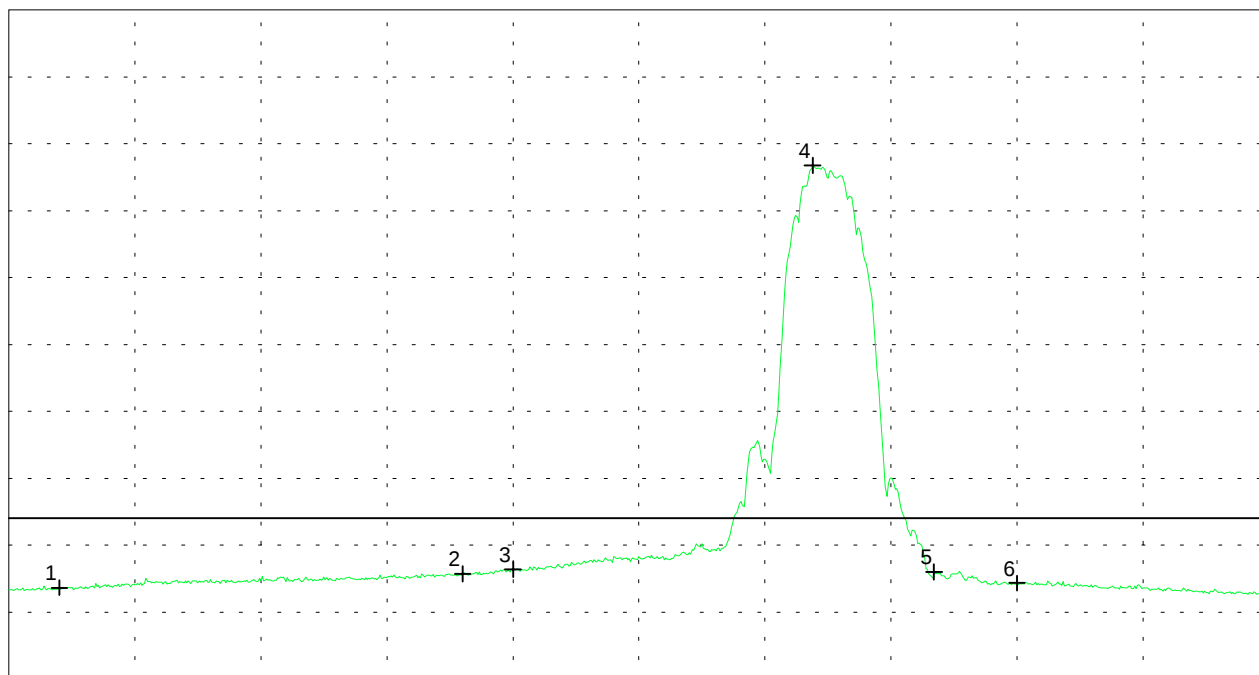
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.300 GHz  
RBW 1 MHz

VBW 3 kHz

Stop 2.550 GHz  
SWP 260 ms

### Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.310000 GHz | 43.63 dB $\mu$ V/m  |
| No. 2 | 2.390000 GHz | 45.69 dB $\mu$ V/m  |
| No. 3 | 2.400000 GHz | 46.37 dB $\mu$ V/m  |
| No. 4 | 2.459444 GHz | 106.76 dB $\mu$ V/m |
| No. 5 | 2.483500 GHz | 45.99 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 44.34 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.462$  GHz

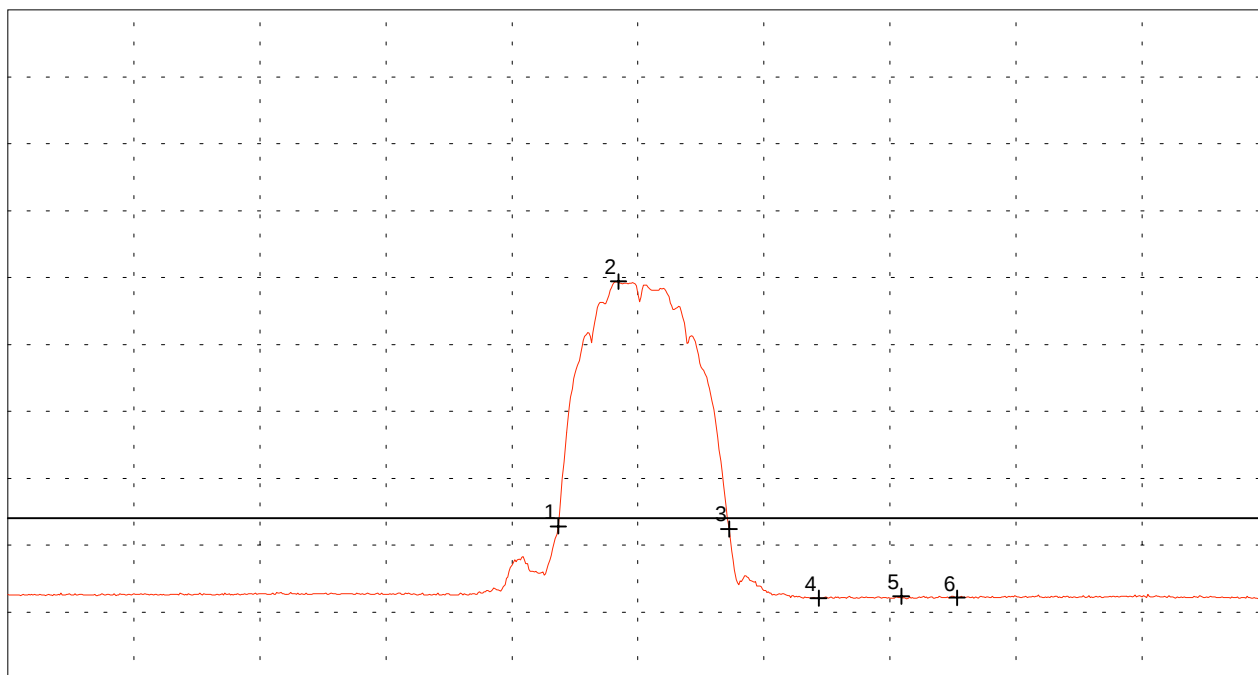
Test distance 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.537 GHz  
SWP 460 ms

### Multi Marker List

|       |              |                    |
|-------|--------------|--------------------|
| No. 1 | 2.452500 GHz | 52.82 dB $\mu$ V/m |
| No. 2 | 2.459667 GHz | 89.39 dB $\mu$ V/m |
| No. 3 | 2.472833 GHz | 52.39 dB $\mu$ V/m |
| No. 4 | 2.483500 GHz | 42.08 dB $\mu$ V/m |
| No. 5 | 2.493333 GHz | 42.36 dB $\mu$ V/m |
| No. 6 | 2.500000 GHz | 42.13 dB $\mu$ V/m |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial No.:  
01UT34333360 / 1202

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 Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 2 Mbps
- TX mode with  $f = 2.462$  GHz

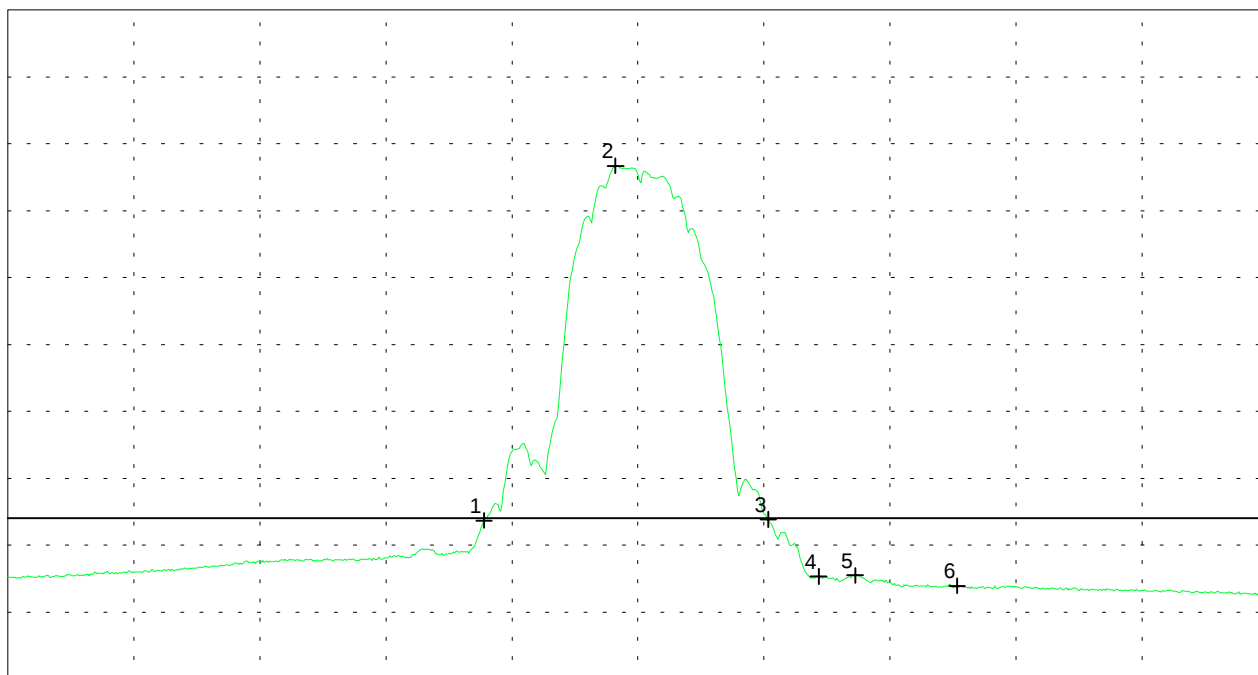
Test distance 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB $\mu$ V/m  
10 dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz  
RBW 1 MHz

VBW 1 kHz

Stop 2.537 GHz  
SWP 460 ms

## Multi Marker List

|       |              |                     |
|-------|--------------|---------------------|
| No. 1 | 2.443667 GHz | 53.69 dB $\mu$ V/m  |
| No. 2 | 2.459333 GHz | 106.71 dB $\mu$ V/m |
| No. 3 | 2.477500 GHz | 53.84 dB $\mu$ V/m  |
| No. 4 | 2.483500 GHz | 45.33 dB $\mu$ V/m  |
| No. 5 | 2.487833 GHz | 45.51 dB $\mu$ V/m  |
| No. 6 | 2.500000 GHz | 43.93 dB $\mu$ V/m  |

Tested by:  
Rainer Heller

Date:  
02/04/2002

Project-No.:  
56305-20086-1

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**Test results for**  
**Receive (RX) mode**

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

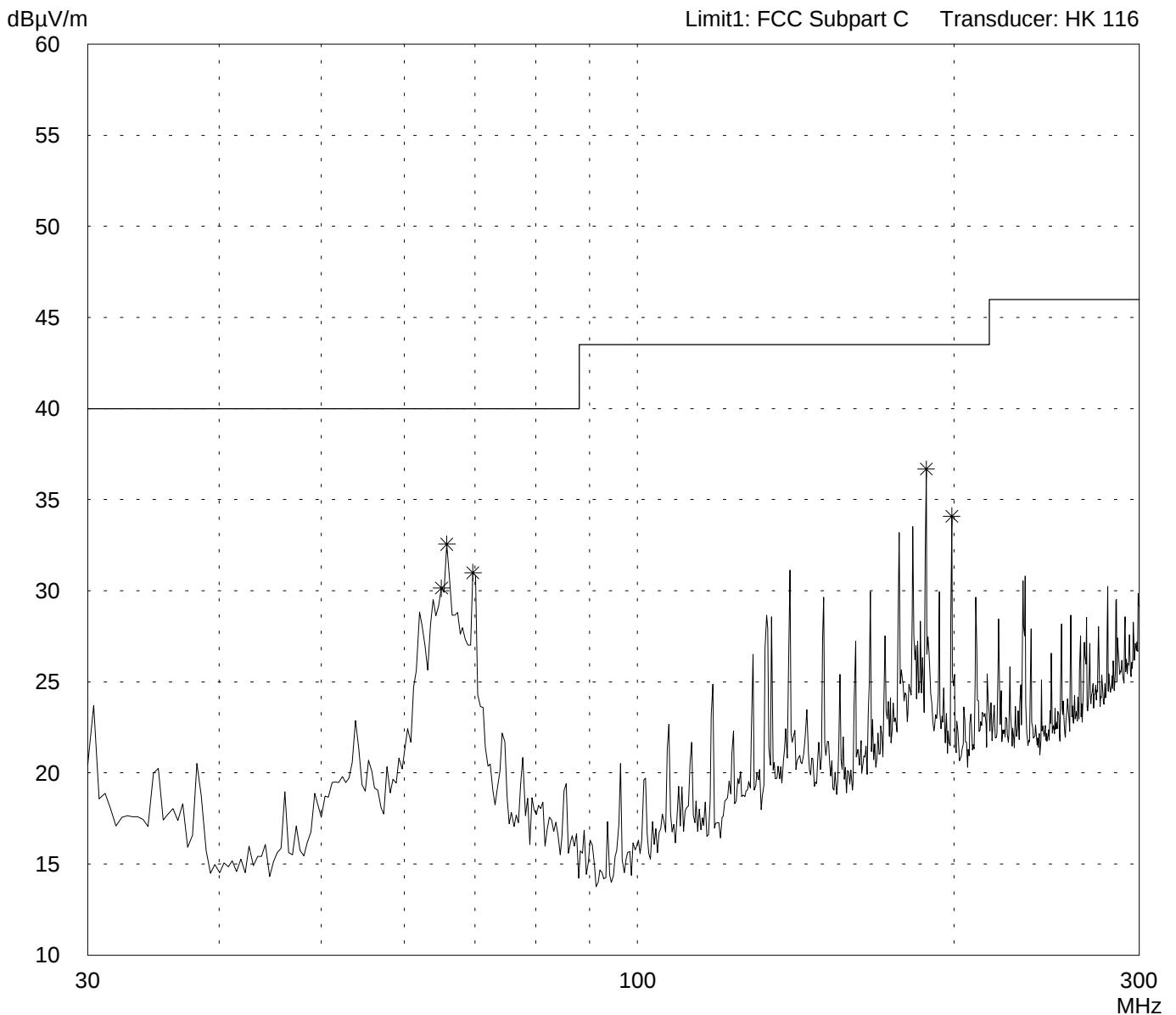
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

Test performed: automatically  
File name:

Mode:

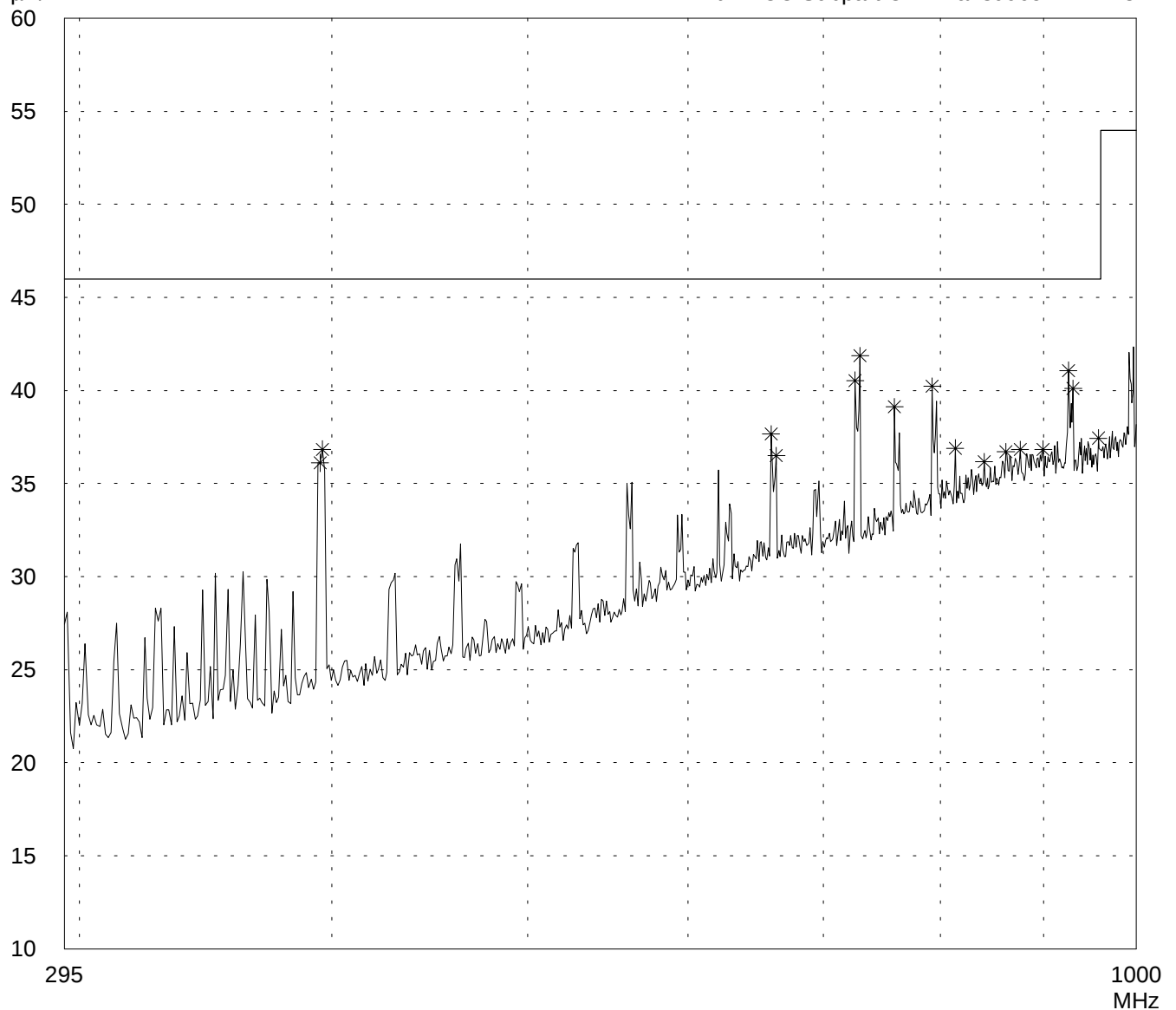
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- with external Telex 2.4 GHz WLAN directional antenna mounted on left side of PC
- operating with bit rate 11 Mbps
- RX mode with  $f = 2.442$  GHz

Detector:  
Peak

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:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002  
Operator: R. Heller

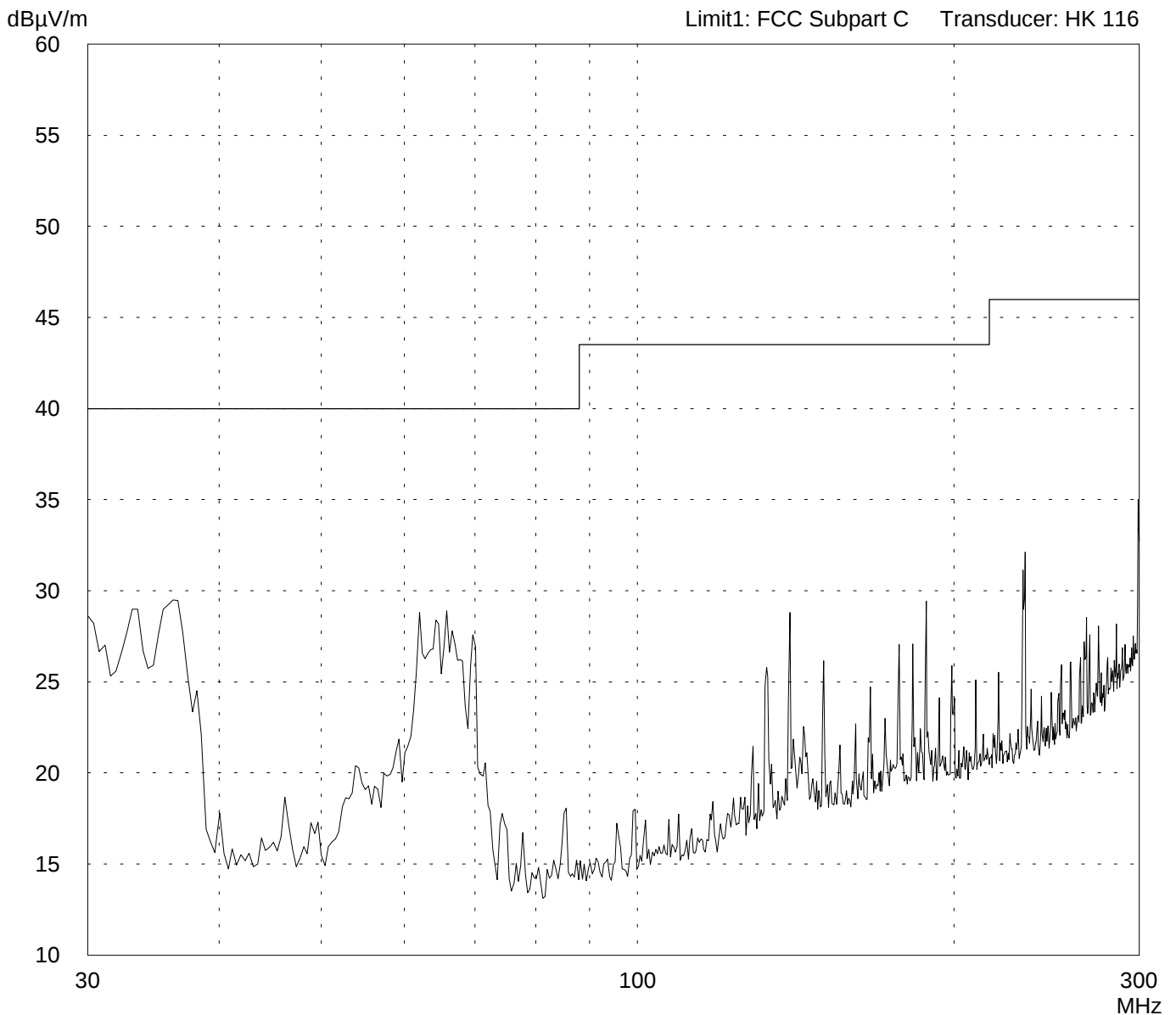
Test performed: automatically  
File name:

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 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

List of values:  
10 dB Margin 50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

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: 02/04/2002      Operator: R. Heller

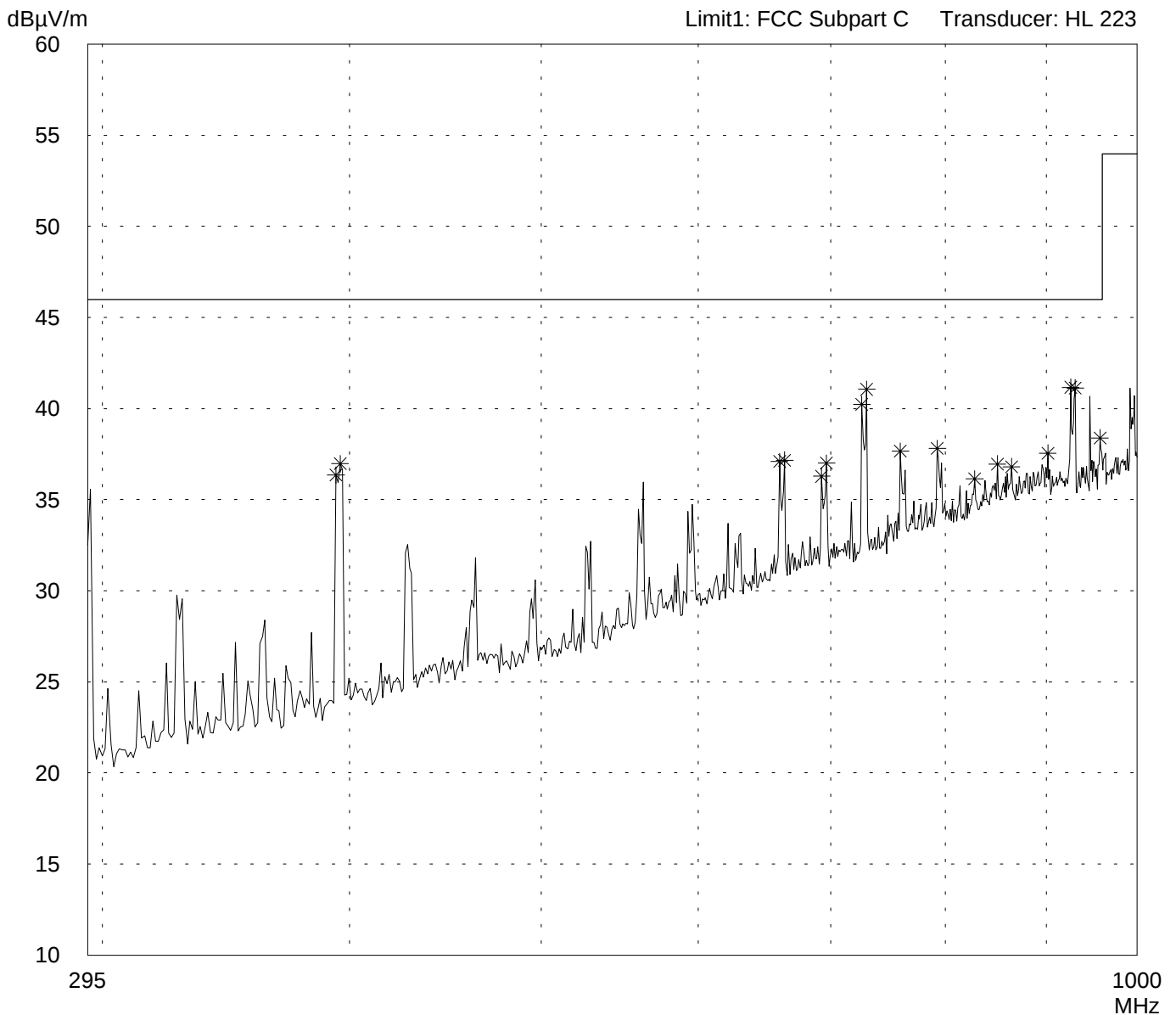
Test performed: automatically      File name:

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 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

List of values:  
10 dB Margin      50 Subranges



Result:  
Prescan

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Horizontal Polarization

Date of test: 02/05/2002  
Operator: R. Heller

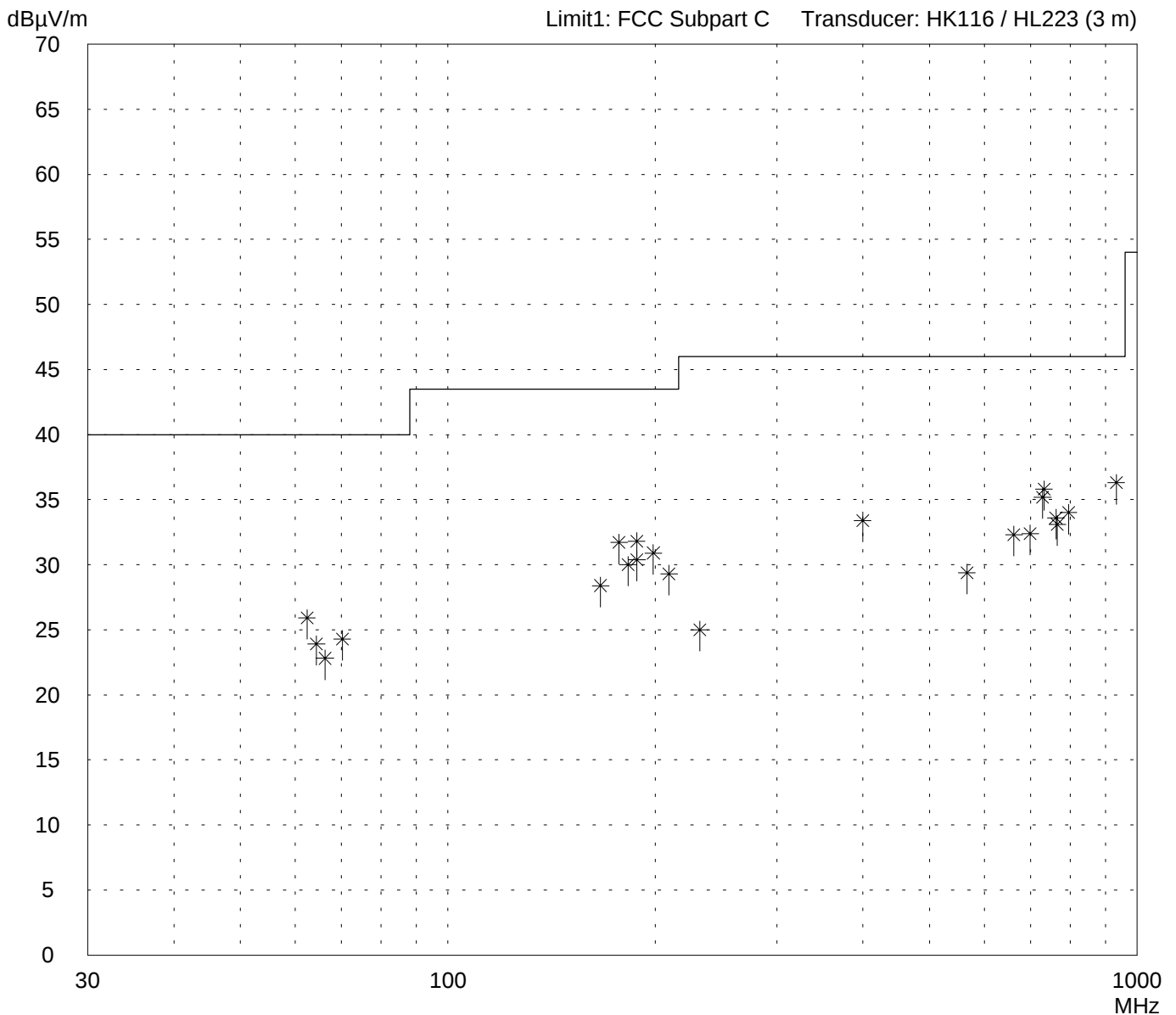
Test performed: by hand  
File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in Dell Dimension 4100 via PCI-adaptor Orinoco PCI-33W
- monitor switched off
- 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:  
Quasi-Peak

List of values:  
Selected by hand



Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Horizontal Polarization

Date of test: 02/05/2002  
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 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:  
Quasi-Peak

List of values:  
Selected by hand

| Frequency<br>MHz | Reading<br>dB $\mu$ V | Correction factor<br>dB | Value<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Limit<br>exceeded |
|------------------|-----------------------|-------------------------|-----------------------|-----------------------|-------------------|
| 62.43            | 15.0                  | 10.9                    | 25.9                  | 40.0                  |                   |
| 64.41            | 13.0                  | 10.9                    | 23.9                  | 40.0                  |                   |
| 66.33            | 12.0                  | 10.8                    | 22.8                  | 40.0                  |                   |
| 70.24            | 13.5                  | 10.8                    | 24.3                  | 40.0                  |                   |
| 166.51           | 11.5                  | 16.9                    | 28.4                  | 43.5                  |                   |
| 177.11           | 14.0                  | 17.7                    | 31.7                  | 43.5                  |                   |
| 182.48           | 12.0                  | 18.0                    | 30.0                  | 43.5                  |                   |
| 187.85           | 13.5                  | 18.3                    | 31.8                  | 43.5                  |                   |
| 188.03           | 12.0                  | 18.4                    | 30.4                  | 43.5                  |                   |
| 198.58           | 12.0                  | 18.9                    | 30.9                  | 43.5                  |                   |
| 209.31           | 10.0                  | 19.3                    | 29.3                  | 43.5                  |                   |
| 232.03           | 5.0                   | 20.0                    | 25.0                  | 46.0                  |                   |
| 399.66           | 11.0                  | 22.4                    | 33.4                  | 46.0                  |                   |
| 565.99           | 2.5                   | 26.9                    | 29.4                  | 46.0                  |                   |
| 662.81           | 2.5                   | 29.8                    | 32.3                  | 46.0                  |                   |
| 699.50           | 1.5                   | 30.9                    | 32.4                  | 46.0                  |                   |
| 729.08           | 4.0                   | 31.2                    | 35.2                  | 46.0                  |                   |
| 732.87           | 4.5                   | 31.3                    | 35.8                  | 46.0                  |                   |
| 762.21           | 2.0                   | 31.6                    | 33.6                  | 46.0                  |                   |
| 766.16           | 1.5                   | 31.6                    | 33.1                  | 46.0                  |                   |
| 795.27           | 2.0                   | 32.0                    | 34.0                  | 46.0                  |                   |
| 932.70           | 2.0                   | 34.3                    | 36.3                  | 46.0                  |                   |

Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Vertical Polarization

Date of test: 02/05/2002  
Operator: R. Heller

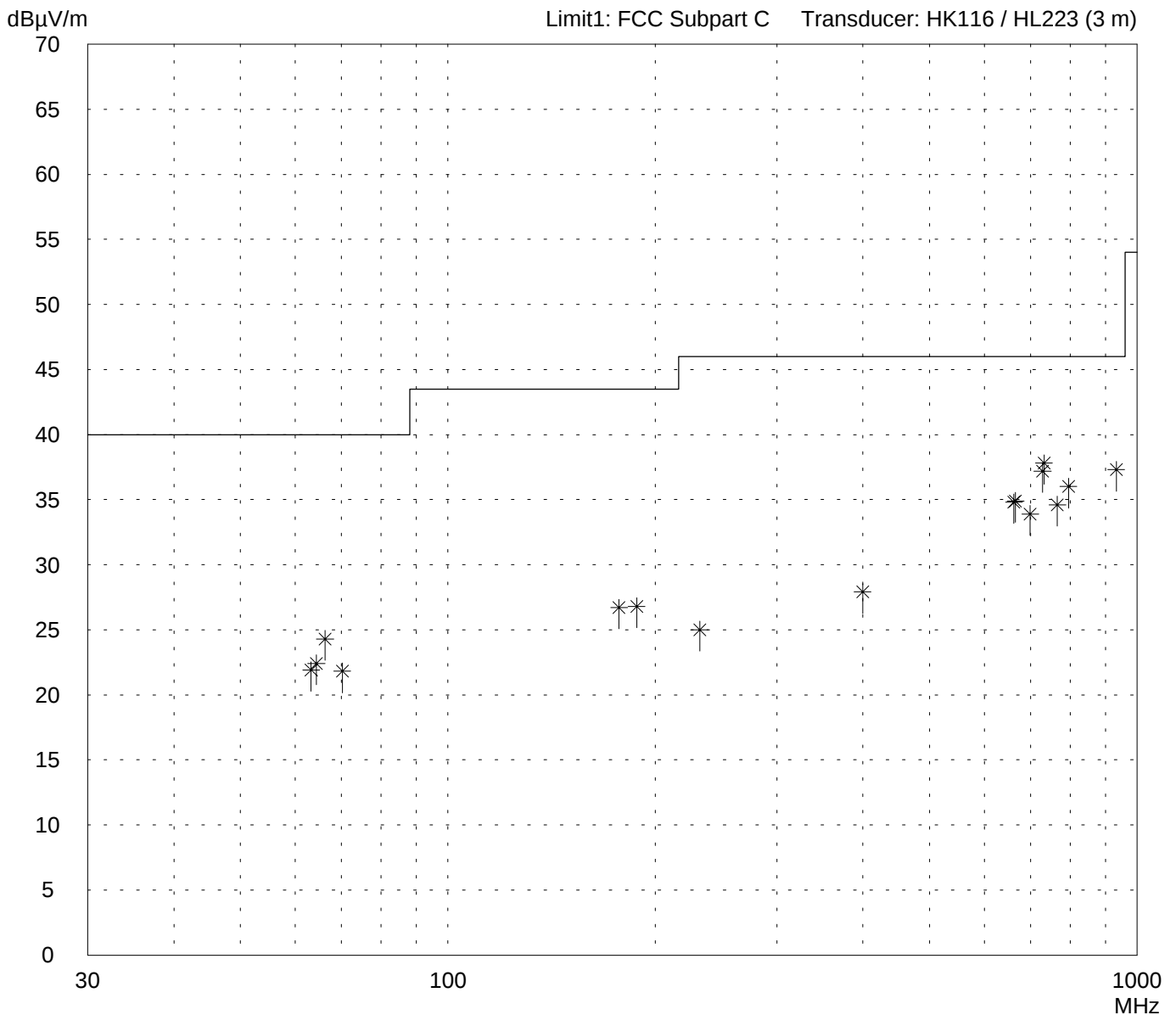
Test performed: by hand  
File name:

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 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:  
Quasi-Peak

List of values:  
Selected by hand



Result:  
Limit kept

Project file:  
56305-20086-1

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

Model:  
PC24E-H-FC with Telex 2.4 GHz WLAN

Serial no.:  
01UT34333360 / 1202

Applicant:  
Agere Systems Nederland B.V.

Test site:  
Open area test-site I

Tested on:  
Test distance 3 meters  
Vertical Polarization

Date of test: 02/05/2002  
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 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:  
Quasi-Peak

List of values:  
Selected by hand

| <i>Frequency<br/>MHz</i> | <i>Reading<br/>dB<math>\mu</math>V</i> | <i>Correction factor<br/>dB</i> | <i>Value<br/>dB<math>\mu</math>V/m</i> | <i>Limit<br/>dB<math>\mu</math>V/m</i> | <i>Limit<br/>exceeded</i> |
|--------------------------|----------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|---------------------------|
| 63.30                    | 11.0                                   | 10.9                            | 21.9                                   | 40.0                                   |                           |
| 64.41                    | 11.5                                   | 10.9                            | 22.4                                   | 40.0                                   |                           |
| 66.33                    | 13.5                                   | 10.8                            | 24.3                                   | 40.0                                   |                           |
| 70.24                    | 11.0                                   | 10.8                            | 21.8                                   | 40.0                                   |                           |
| 177.12                   | 9.0                                    | 17.7                            | 26.7                                   | 43.5                                   |                           |
| 187.86                   | 8.5                                    | 18.3                            | 26.8                                   | 43.5                                   |                           |
| 232.03                   | 5.0                                    | 20.0                            | 25.0                                   | 46.0                                   |                           |
| 399.66                   | 5.5                                    | 22.4                            | 27.9                                   | 46.0                                   |                           |
| 662.81                   | 5.0                                    | 29.8                            | 34.8                                   | 46.0                                   |                           |
| 666.17                   | 5.0                                    | 29.9                            | 34.9                                   | 46.0                                   |                           |
| 699.50                   | 3.0                                    | 30.9                            | 33.9                                   | 46.0                                   |                           |
| 729.08                   | 6.0                                    | 31.2                            | 37.2                                   | 46.0                                   |                           |
| 732.87                   | 6.5                                    | 31.3                            | 37.8                                   | 46.0                                   |                           |
| 766.16                   | 3.0                                    | 31.6                            | 34.6                                   | 46.0                                   |                           |
| 795.27                   | 4.0                                    | 32.0                            | 36.0                                   | 46.0                                   |                           |
| 932.70                   | 3.0                                    | 34.3                            | 37.3                                   | 46.0                                   |                           |

Result:  
Limit kept

Project file:  
56305-20086-1

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## Radiated Emission 1 GHz - 12.5 GHz according to FCC Part 15 Subpart C

Model: PC24E-H-FC  
Type: RF-modem for wireless LAN  
Serial No.: 01UT34333360  
Applicant: Agere Systems Nederland B.V.  
Test-site: Semi anechoic room  
Test distance: 3 meters  
Date of test: 02/04/2002  
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
- RX mode with  $f = 2.442$  GHz

Detector: Peak

| Frequency<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 1.1956             | vertical     | 19.1                                 | 0.5                   | 26.3                           | 45.9                            | 74                      |
| 1.3271             | vertical     | 19.7                                 | 0.5                   | 26.5                           | 46.7                            | 74                      |
| 1.5938             | horizontal   | 17.1                                 | 0.5                   | 27.2                           | 44.9                            | 74                      |
| 2.2693             | vertical     | 16.1                                 | 0.6                   | 29.6                           | 46.3                            | 74                      |
| 2.4027             | horizontal   | 15.8                                 | 0.6                   | 29.8                           | 46.2                            | 74                      |
| 2.5253             | vertical     | 15.5                                 | 0.6                   | 30.6                           | 46.8                            | 74                      |
| 2.7980             | vertical     | 18.0                                 | 0.7                   | 23.7                           | 42.3                            | 74                      |

**Result:** The limits are kept

## Radiated Emission 1 GHz - 12.5 GHz according to FCC Part 15 Subpart C

Model: PC24E-H-FC  
 Type: RF-modem for wireless LAN  
 Serial No.: 01UT34333360  
 Applicant: Agere Systems Nederland B.V.  
 Test-site: Semi anechoic room  
 Test distance: 3 meters  
 Date of test: 02/04/2002  
 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
- RX mode with  $f = 2.442$  GHz

Detector: Average

| Frequency<br>[GHz] | Polarization | Analyzer-<br>reading<br>[dB $\mu$ V] | Cable<br>loss<br>[dB] | Antenna-<br>correction<br>[dB] | Fieldstrength<br>[dB $\mu$ V/m] | Limit<br>[dB $\mu$ V/m] |
|--------------------|--------------|--------------------------------------|-----------------------|--------------------------------|---------------------------------|-------------------------|
| 1.1938             | vertical     | < 11.4                               | 0.5                   | 26.2                           | < 38.1                          | 54                      |
| 1.3289             | vertical     | < 13.5                               | 0.5                   | 26.5                           | < 40.5                          | 54                      |
| 1.5938             | horizontal   | < 10.0                               | 0.5                   | 27.2                           | < 37.7                          | 54                      |
| 2.4009             | vertical     | < 14.4                               | 0.6                   | 20.7                           | < 35.8                          | 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      |