

Straubing, November 6, 2002

TEST - REPORT

No. 56305-20559-3

for

PCC-2411-PCE-BAS1

RF-modem for wireless LAN

Applicant: Agere Systems Nederland B.V.

Purpose of testing: To show compliance with
FCC Code of Federal Regulations,
Part 15 Subpart B Class B
Industry Canada Interference-Causing
Equipment Standard
ICES-003 (Digital Apparatus),
Issue 3, November 22, 1997

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): PCC-2411-PCE-BAS1
Serial number(s): 02UTENG00002
Type of equipment: RF-modem using DSSS technology for wireless connection for e.g. portable and mobile computers which have a PC-card-bus (PCMCIA).
Version: as delivered
Parts/accessories: see "Configuration of EUT and Peripheral Devices" on page 7
FCC-ID: IMRPC2411B

Applicant: Agere Systems Nederland B.V.
(full address) Zadelstede 1-10
NL-3431 JZ Nieuwegein
The Netherlands
Contract identification: ---
Contact person: Mr. Wout Kerkhof
Manufacturer: Agere Systems Nederland B.V.

Receipt of EUT: September 3, 2002
Date of test: November 4 and 5, 2002
Note: ---

Responsible for testing: Rainer Heller
Responsible for test report: Rainer Heller

2. Identification of Test Laboratory

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

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

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

3. Summary of Test Results

The tested sample complies with the requirements set forth in the

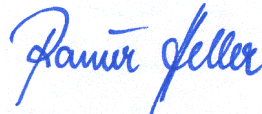
Code of Federal Regulations Part 15 Subpart B (unintentional radiators), sections §15.107 and §15.109 of the Federal Communication Commission (FCC)

and the

Interference-Causing Equipment Standard ICES-003 (Digital Apparatus), Issue 3 of Industry Canada.



Johann Roidt
Technical Manager



Rainer Heller
Test Engineer

4. Operation Mode of EUT

All tests were performed using the "Test program for wireless cards V0.39" ("wincert.exe") and EUT in receive mode (RX) with operating frequency set to 2.442 GHz and bit rate 11 Mbps.

5. Configuration of EUT and Peripheral Devices

RF-modem module PCC-2411-PCE-BAS1 was tested operating with internal antenna and mounted in PC-card slot of notebook Dell Latitude C800. This setup was selected to test the EUT as a digital device.

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

| Item | Model or part no. | Serial no. | Designation | Manufacturer |
|------------|-------------------|--------------------------|-------------------|--------------|
| RF-modem | 023573/A | 02UTENG00002 | PCC-2411-PCE-BAS1 | Agere |
| Notebook | --- | 8ZFB50J | Latitude C800 | Dell |
| AC adapter | --- | CN-09364U-16291-143-006V | AA20031 | Dell |

Table 1: EUT and accessories

6. Setup of Host

Configuration of cables of host

- Non shielded power line for AC-power supply of notebook, 180 cm
- Shielded data cable connected to parallel interface of notebook, Inmac, 150 cm, Senton inv.-no. 1387
- Shielded data cable connected to serial interface of notebook, Senton, 170 cm, Senton inv.-no. 1401
- Shielded USB cable connected to USB port no. 1 of notebook, Berg Electronics, 50 cm

Configuration of host and peripheral devices

- Notebook Dell Latitude C800:
Serial no.: 8ZFB50J
with
AC adapter Dell AA20031:
Serial no.: CN-09364U-16291-143-006V
- 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. Conducted Emission 0.15 MHz - 30 MHz (CFR47 §15.107 / ICES-003 sec. 4.1)

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

Measurements were performed on phase(s) and neutral lines of the power-cords of the tested system. At the final test the cables and equipment were placed and moved within the range of positions likely to find their maximum emissions.

The test setup was made in accordance with ANSI C63.4-1992.

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

See figure 1 for the measurement setup.

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

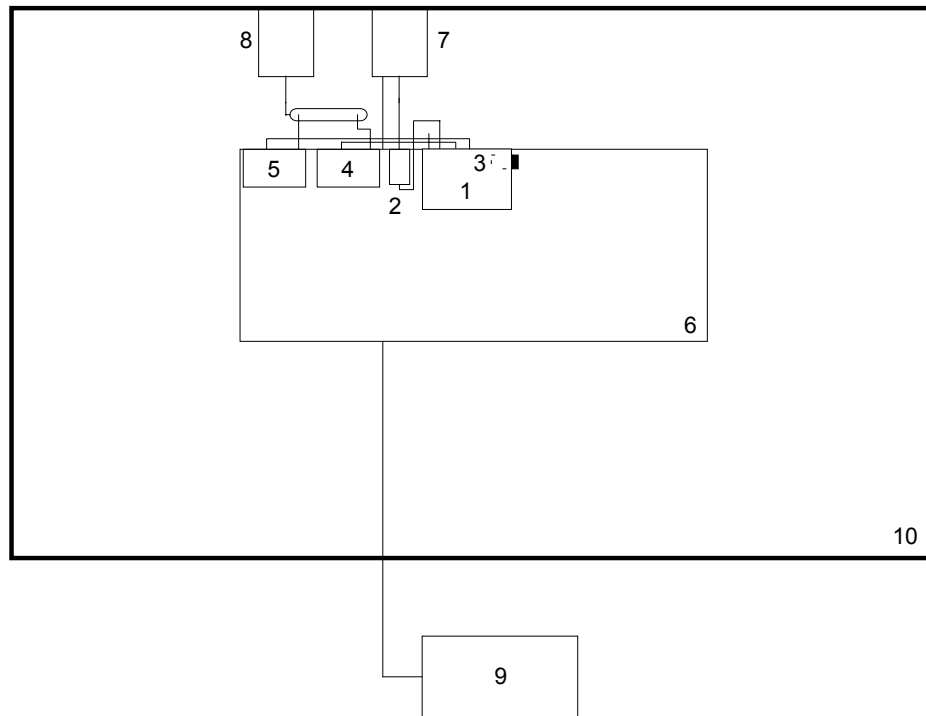


Figure 1: Measurement setup for conducted emission test

- | | | | |
|---|-------------------------|----|-----------------------------|
| 1 | Notebook (host) | 7 | LISN for EUT |
| 2 | AC adapter for notebook | 8 | LISN for peripheral devices |
| 3 | RF-modem | 9 | Test receiver |
| 4 | Serial printer | 10 | Shielded room |
| 5 | Parallel printer | | |
| 6 | Wooden table | | |

7.2. Radiated Emission 30 MHz - 1 GHz (CFR47 §15.109/ ICES-003 sec. 4.1)

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

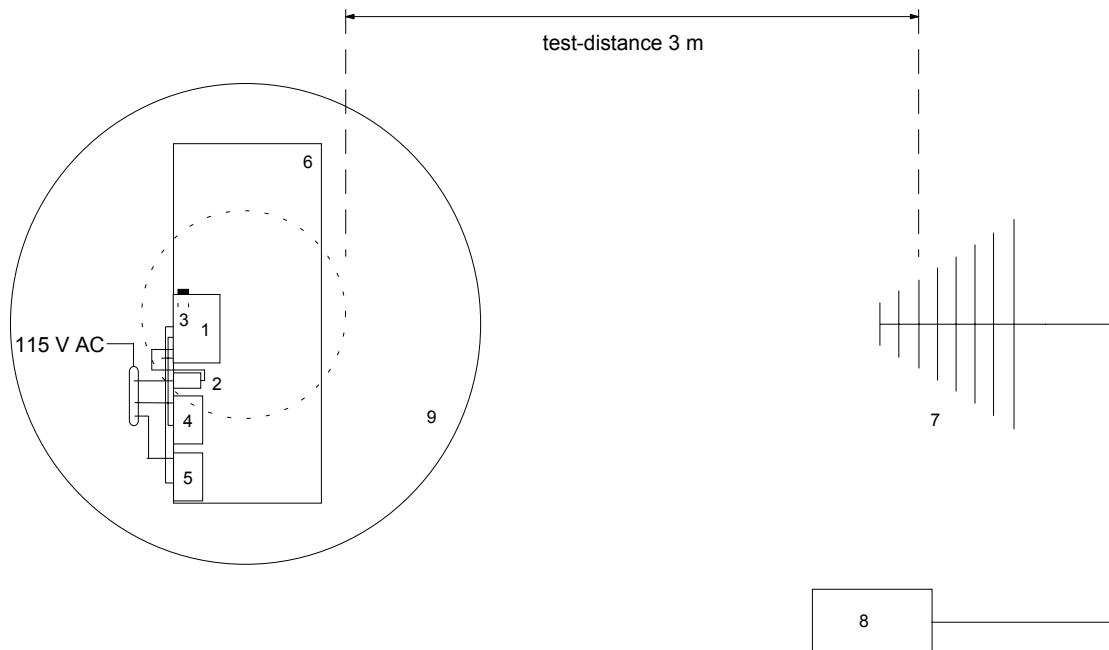


Figure 2: Measurement setup for radiated emission test below 1 GHz

- | | | | |
|---|-------------------------|---|---------------------|
| 1 | Notebook (host) | 7 | Measurement antenna |
| 2 | AC adapter for notebook | 8 | Test receiver |
| 3 | RF-modem | 9 | Turn table |
| 4 | Serial printer | | |
| 5 | Parallel printer | | |
| 6 | Wooden table | | |

8. Equipment List

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

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

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

9. Photographs Taken During Testing

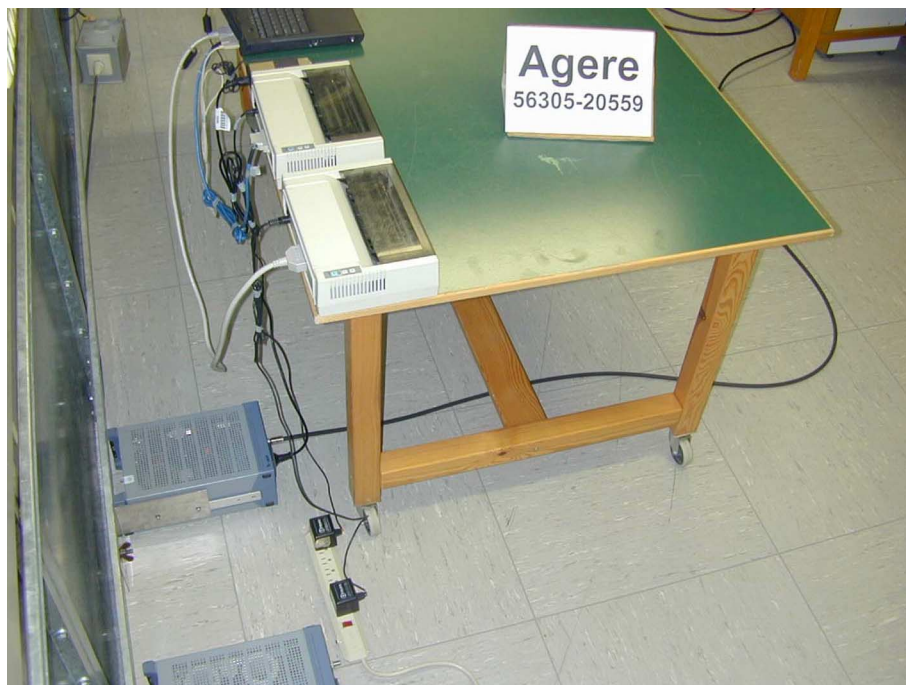
Photo No. 9.1

Test setup for conducted emission test 150 kHz - 30 MHz



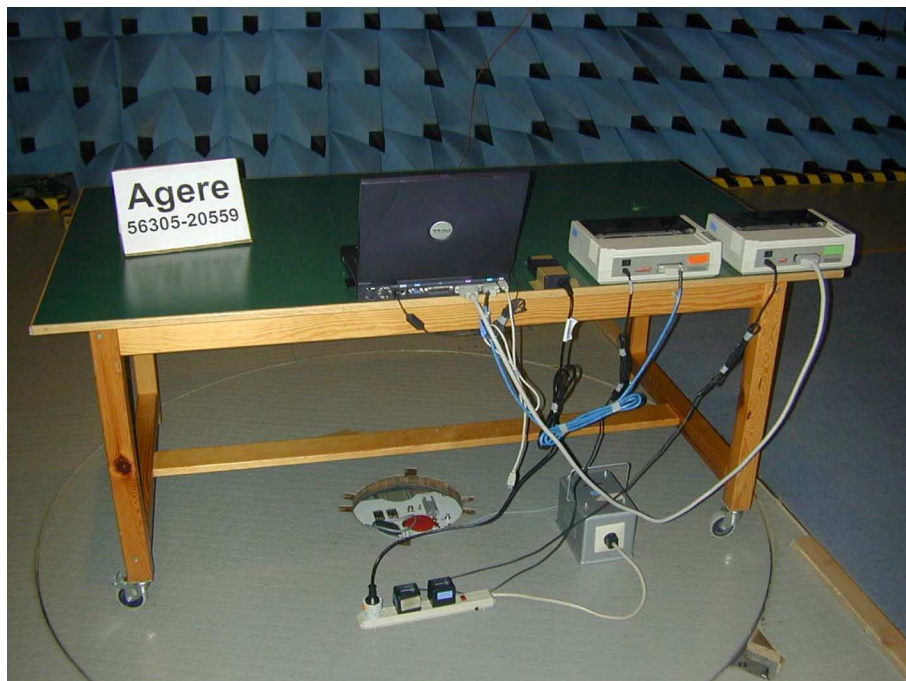
Photos No. 9.2 - 9.3

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



Photos No. 9.4 - 9.5

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



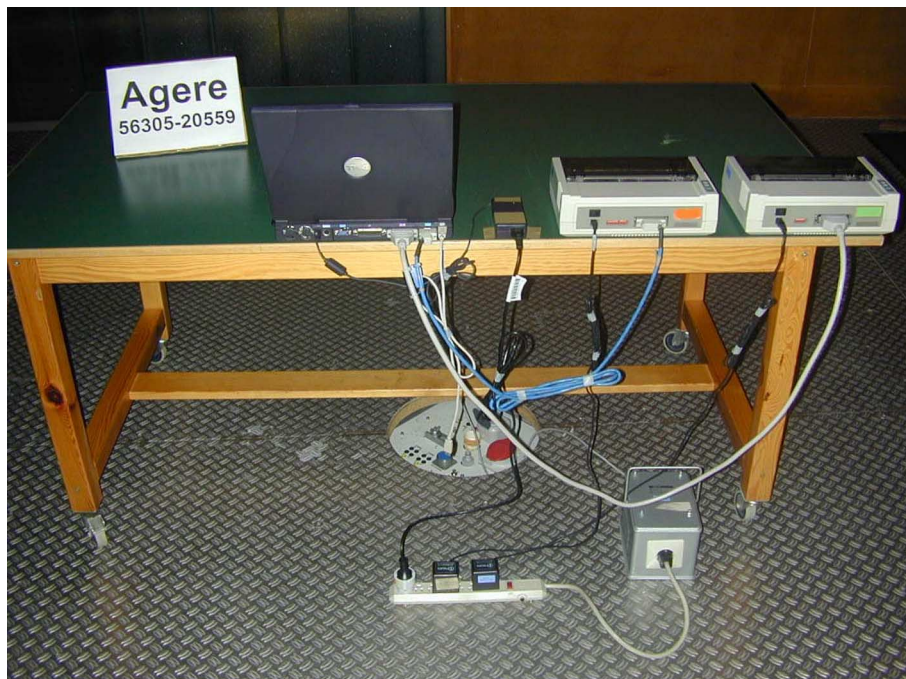
Photos No. 9.6 - 9.7

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



Photos No. 9.8 - 9.9

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



Photos No. 9.10 - 9.11

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



10. Referenced Regulations

All tests were performed with reference to:

- | | | |
|-------------------------------------|--|---|
| <input checked="" type="checkbox"/> | CFR47 Part 15 May 30, 2002 | Code of Federal Regulations 47 Part 15 - Radio Frequency Devices |
| <input checked="" type="checkbox"/> | ANSI C63.4-1992 | Methods of Measurement of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the Range from 9 kHz to 40 GHz |
| <input checked="" type="checkbox"/> | ICES-003, Issue 3 November 22, 1997 | Industry Canada Interference-Causing Equipment Standard - Digital Apparatus |
| <input checked="" type="checkbox"/> | C108.8-M1983 July 1983 (reaffirmed 2000) | Canadian Standards Association Standard for "Electromagnetic Emissions from Data Processing Equipment and Electronic Office Machines" |

11. List of Measurements

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

| FCC Part 15 Subpart B Class B | | | |
|--------------------------------------|---|-------------|---------------|
| Section(s): | Test | Page | Result |
| §15.107 | Conducted emission test 150 kHz - 30 MHz | 28 | passed |
| §15.109 | Radiated emission test ¹ 30 MHz - 1 GHz | 36 | passed |

¹ According to applicant maximum frequency used by digital part (i.e. excluding RF-part) is 22 MHz.
For testing of RF-part see report no. 56305-20559-1.

11.2. List of Measurements according to ICES-003

| ICES-003 (Digital Apparatus), Issue 3, Class B | | | |
|---|---|-------------|---------------|
| Section(s): | Test | Page | Result |
| 4.1, 5.3 | AC wireline conducted radio noise emissions 450 kHz - 30 MHz | 28 | passed |
| 4.1, 5.5 | Radiated radio noise emissions ² 30 MHz - 1 GHz | 36 | passed |

² According to applicant maximum frequency used by digital part (i.e. excluding RF-part) is 22 MHz. For testing of RF-part see report no. 56305-20559-1.

12. Test Results

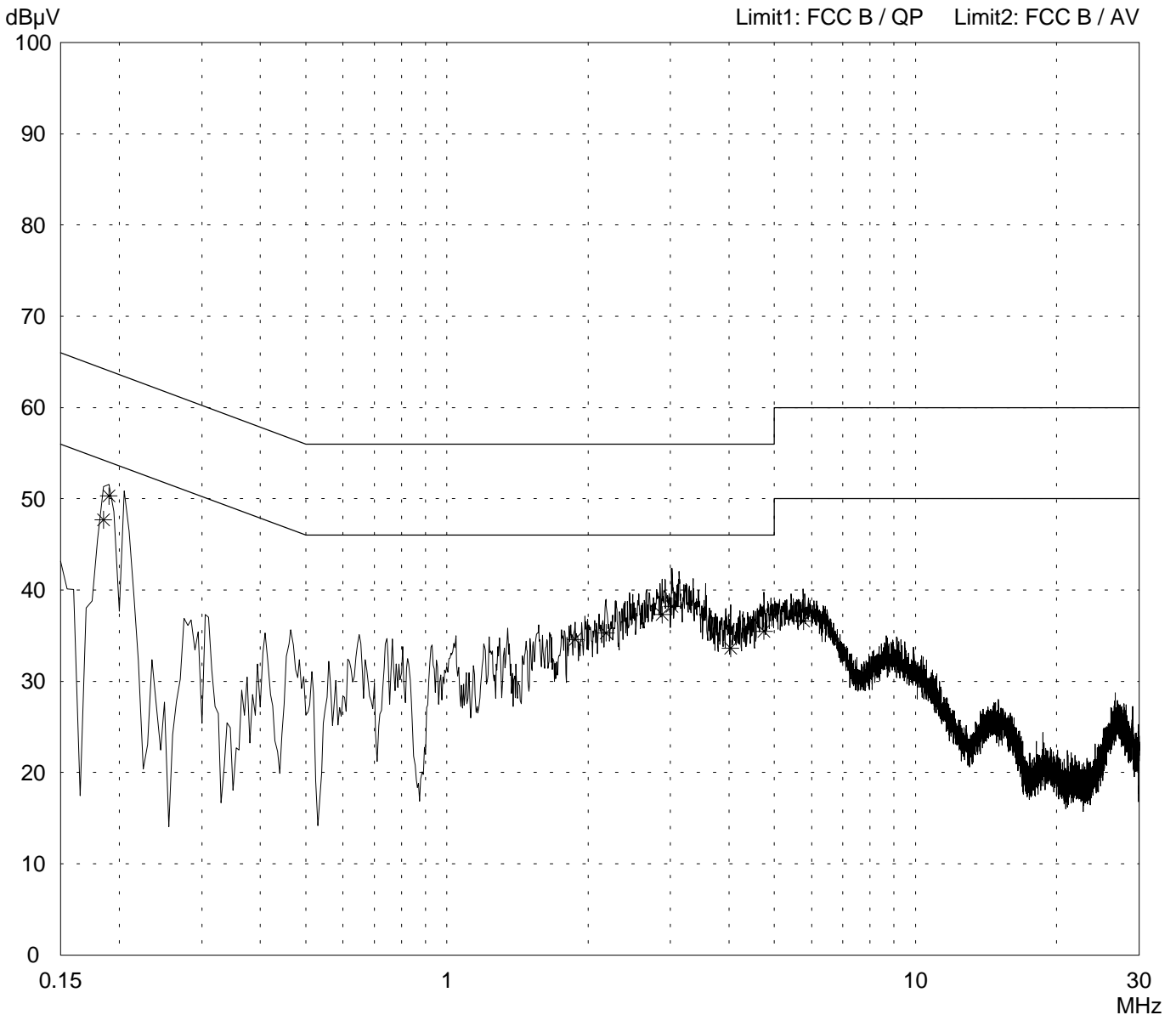
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

| | |
|---|------------------------|
| Model: PCC-2411-PCE-BAS1 | |
| Serial no.: 02UTENG00002 | |
| Applicant: Agere Systems Nederland B.V. | |
| Test site: Shielded room, cabin no. 2 | |
| Tested on: Linecord notebook (EUT) Phase L1 | |
| Date of test: 11/04/2002 | Operator: R. Heller |
| Test performed: automatically | File name: |

| | |
|---|--|
| Mode: | |
| <ul style="list-style-type: none"> - FCC test setup - supply voltage 115 V AC - EUT mounted in notebook Dell Latitude C800 | |
| <ul style="list-style-type: none"> - operating with bit rate 11 Mbps | |
| <ul style="list-style-type: none"> - RX mode with $f = 2.442$ GHz | |

| |
|---------------------------------------|
| Detector: Peak / Final Results: QP |
|---------------------------------------|

| | |
|----------------|--------------|
| Final results: | 25 Subranges |
| 20 dB Margin | |



| |
|-----------------------|
| Result: Limit kept |
|-----------------------|

| | |
|--------------------------------|---------------------|
| Project file: 56305-20559-3 | Page 28 of 44 Pages |
|--------------------------------|---------------------|

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

| | |
|---|---|
| <p>Model: PCC-2411-PCE-BAS1</p> <p>Serial no.: 02UTENG00002</p> <p>Applicant: Agere Systems Nederland B.V.</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord notebook (EUT) Phase L1</p> <p>Date of test: Operator: 11/04/2002 R. Heller</p> <p>Test performed: File name: automatically</p> | <p>Mode:</p> <ul style="list-style-type: none"> - FCC test setup - supply voltage 115 V AC - EUT mounted in notebook Dell Latitude C800 - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz |
|---|---|

| | |
|---|--|
| <p>Detector: Peak / Final Results: QP</p> | <p>Final results: 20 dB Margin 25 Subranges</p> |
|---|--|

| <i>Frequency MHz</i> | <i>Reading dBμV</i> | <i>Correction factor dB</i> | <i>Value dBμV</i> | <i>Limit dBμV</i> | <i>Limit exceeded</i> |
|--------------------------|-------------------------|---------------------------------|-----------------------|-----------------------|---------------------------|
| 0.185 | 47.7 | | 47.7 | 64.3 | |
| 0.190 | 50.3 | | 50.3 | 64.0 | |
| 1.880 | 34.6 | | 34.6 | 56.0 | |
| 2.185 | 35.3 | | 35.3 | 56.0 | |
| 2.880 | 37.3 | | 37.3 | 56.0 | |
| 3.025 | 38.2 | | 38.2 | 56.0 | |
| 4.030 | 33.6 | | 33.6 | 56.0 | |
| 4.750 | 35.5 | | 35.5 | 56.0 | |
| 5.770 | 36.6 | | 36.6 | 60.0 | |

| | |
|-------------------------------|--|
| <p>Result: Limit kept</p> | <p>Project file: 56305-20559-3</p> <p style="text-align: right;">Page 29 of 44 Pages</p> |
|-------------------------------|--|

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

Model:
PCC-2411-PCE-BAS1

Serial no.:
02UTENG00002

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord notebook (EUT)
Phase L1

Date of test: 11/04/2002 Operator: R. Heller

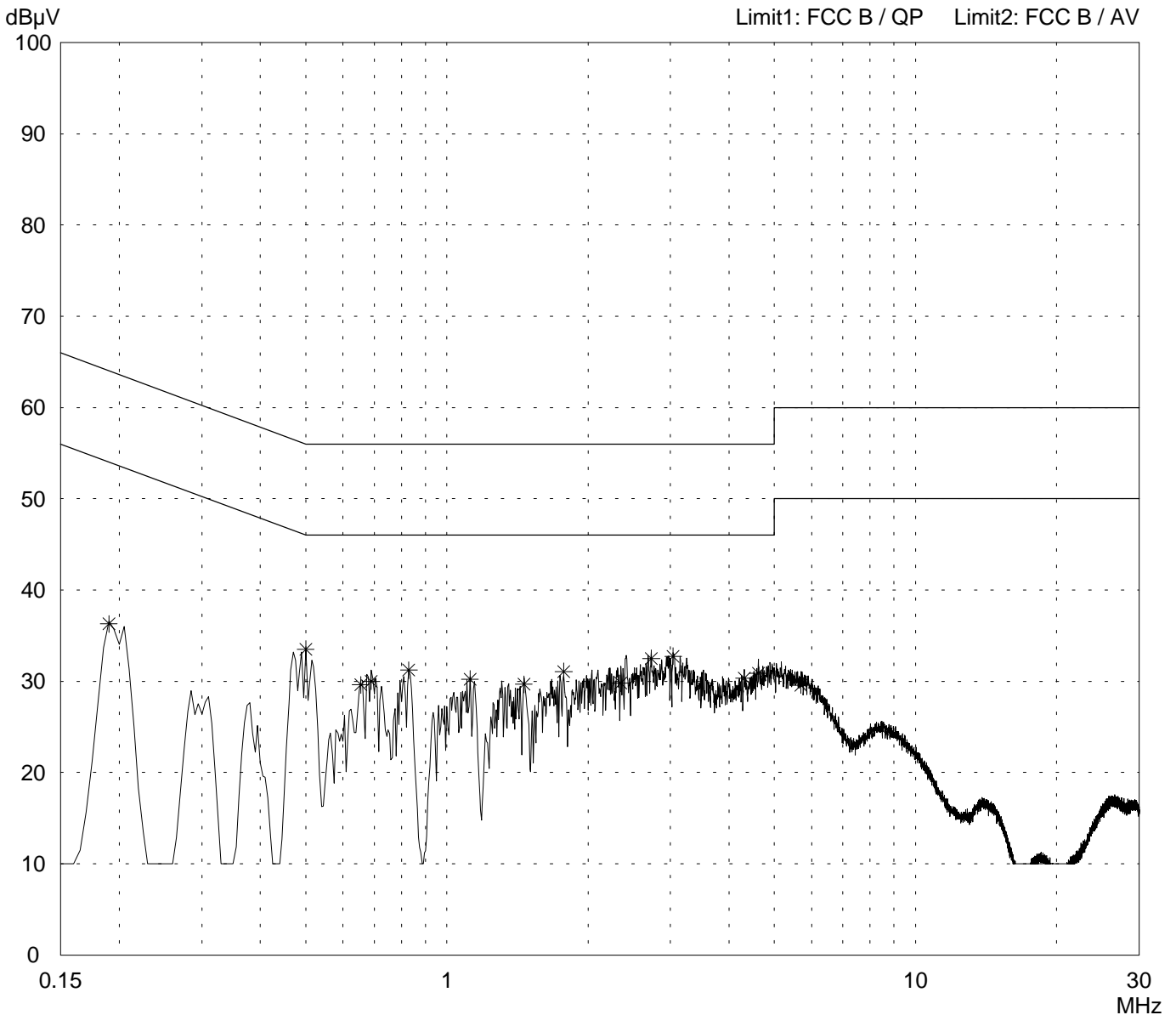
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Average / Final Results: AV

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

| | |
|--|---|
| Model: PCC-2411-PCE-BAS1 | Mode: - FCC test setup - supply voltage 115 V AC - EUT mounted in notebook Dell Latitude C800 |
| Serial no.: 02UTENG00002 | - operating with bit rate 11 Mbps - RX mode with $f = 2.442$ GHz |
| Applicant: Agere Systems Nederland B.V. | |
| Test site: Shielded room, cabin no. 2 | |
| Tested on: Linecord notebook (EUT) Phase L1 | |
| Date of test: 11/04/2002 Operator: R. Heller | |
| Test performed: automatically File name: | |

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

| <i>Frequency MHz</i> | <i>Reading dBμV</i> | <i>Correction factor dB</i> | <i>Value dBμV</i> | <i>Limit dBμV</i> | <i>Limit exceeded</i> |
|--------------------------|--|---------------------------------|--------------------------------------|--------------------------------------|---------------------------|
| 0.190 | 36.3 | | 36.3 | 54.0 | |
| 0.500 | 33.5 | | 33.5 | 46.0 | |
| 0.655 | 29.6 | | 29.6 | 46.0 | |
| 0.690 | 30.0 | | 30.0 | 46.0 | |
| 0.830 | 31.2 | | 31.2 | 46.0 | |
| 1.120 | 30.2 | | 30.2 | 46.0 | |
| 1.460 | 29.7 | | 29.7 | 46.0 | |
| 1.775 | 31.1 | | 31.1 | 46.0 | |
| 2.350 | 29.8 | | 29.8 | 46.0 | |
| 2.730 | 32.5 | | 32.5 | 46.0 | |
| 3.040 | 32.8 | | 32.8 | 46.0 | |
| 4.310 | 30.3 | | 30.3 | 46.0 | |
| 4.620 | 30.9 | | 30.9 | 46.0 | |
| 5.690 | 29.6 | | 29.6 | 50.0 | |

| | |
|------------------------------|---------------------------------------|
| Result: Limit kept | Project file: 56305-20559-3 |
|------------------------------|---------------------------------------|

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

| | |
|--|------------------------|
| Model: PCC-2411-PCE-BAS1 | |
| Serial no.: 02UTENG00002 | |
| Applicant: Agere Systems Nederland B.V. | |
| Test site: Shielded room, cabin no. 2 | |
| Tested on: Linecord notebook (EUT) Phase N | |
| Date of test: 11/04/2002 | Operator: R. Heller |
| Test performed: automatically | File name: |

Mode:

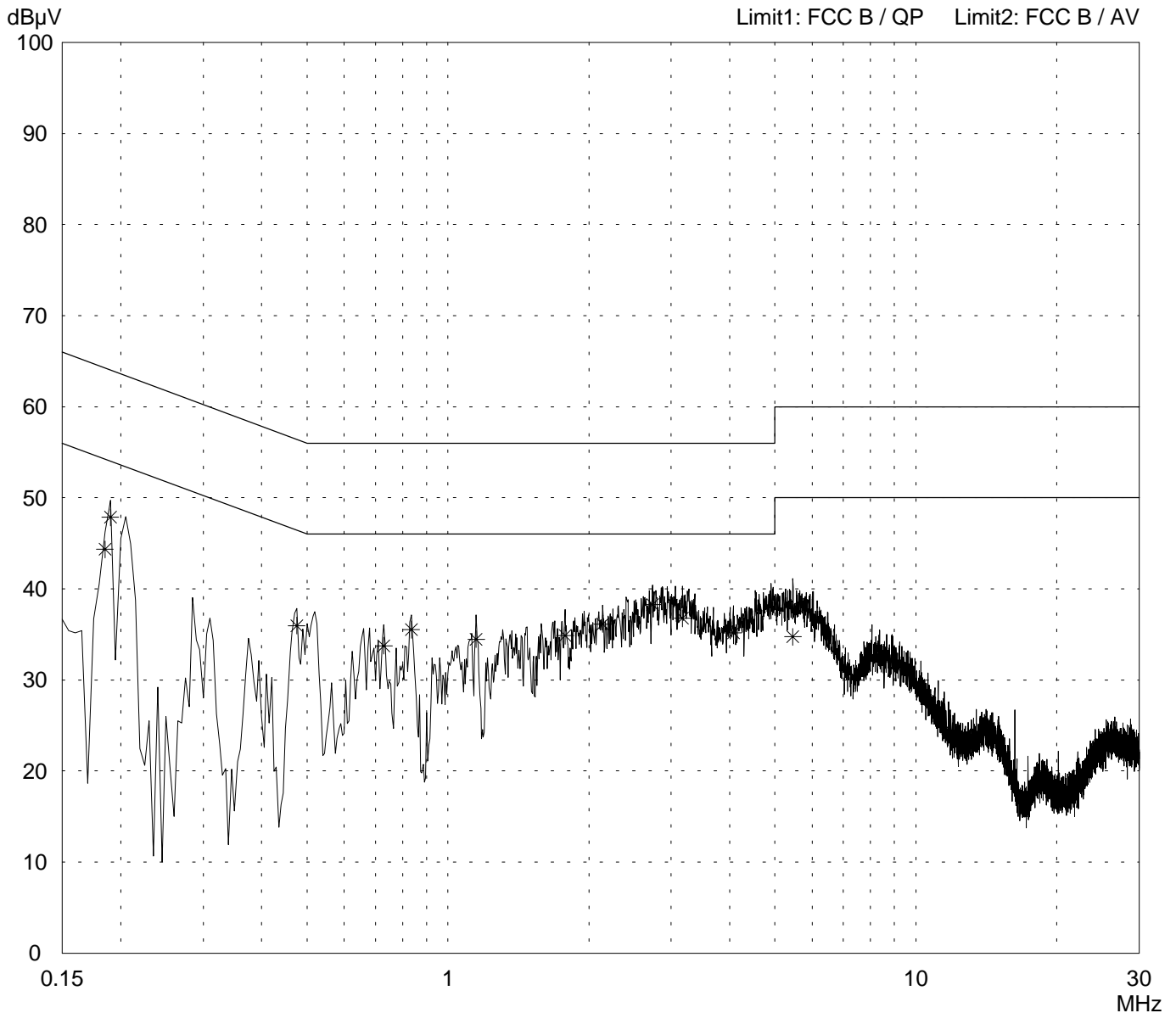
- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800

- operating with bit rate 11 Mbps

- RX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

| | |
|---|--|
| <p>Model: PCC-2411-PCE-BAS1</p> <p>Serial no.: 02UTENG00002</p> <p>Applicant: Agere Systems Nederland B.V.</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord notebook (EUT) Phase N</p> <p>Date of test: 11/04/2002 Operator: R. Heller</p> <p>Test performed: automatically File name:</p> | <p>Mode:</p> <ul style="list-style-type: none"> - FCC test setup - supply voltage 115 V AC - EUT mounted in notebook Dell Latitude C800 - operating with bit rate 11 Mbps - RX mode with $f = 2.442$ GHz |
|---|--|

| | |
|---|--|
| <p>Detector: Peak / Final Results: QP</p> | <p>Final results: 20 dB Margin 25 Subranges</p> |
|---|--|

| <i>Frequency MHz</i> | <i>Reading dBμV</i> | <i>Correction factor dB</i> | <i>Value dBμV</i> | <i>Limit dBμV</i> | <i>Limit exceeded</i> |
|--------------------------|--|---------------------------------|--------------------------------------|--------------------------------------|---------------------------|
| 0.185 | 44.3 | | 44.3 | 64.3 | |
| 0.190 | 47.9 | | 47.9 | 64.0 | |
| 0.475 | 36.0 | | 36.0 | 56.4 | |
| 0.730 | 33.8 | | 33.8 | 56.0 | |
| 0.835 | 35.5 | | 35.5 | 56.0 | |
| 1.150 | 34.5 | | 34.5 | 56.0 | |
| 1.780 | 34.9 | | 34.9 | 56.0 | |
| 2.140 | 36.1 | | 36.1 | 56.0 | |
| 2.735 | 38.3 | | 38.3 | 56.0 | |
| 3.175 | 36.8 | | 36.8 | 56.0 | |
| 4.070 | 35.2 | | 35.2 | 56.0 | |
| 5.460 | 34.7 | | 34.7 | 60.0 | |

| | |
|-------------------------------|--|
| <p>Result: Limit kept</p> | <p>Project file: 56305-20559-3</p> <p style="text-align: right;">Page 33 of 44 Pages</p> |
|-------------------------------|--|

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

Model:
PCC-2411-PCE-BAS1

Serial no.:
02UTENG00002

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord notebook (EUT)
Phase N

Date of test: 11/04/2002 Operator: R. Heller

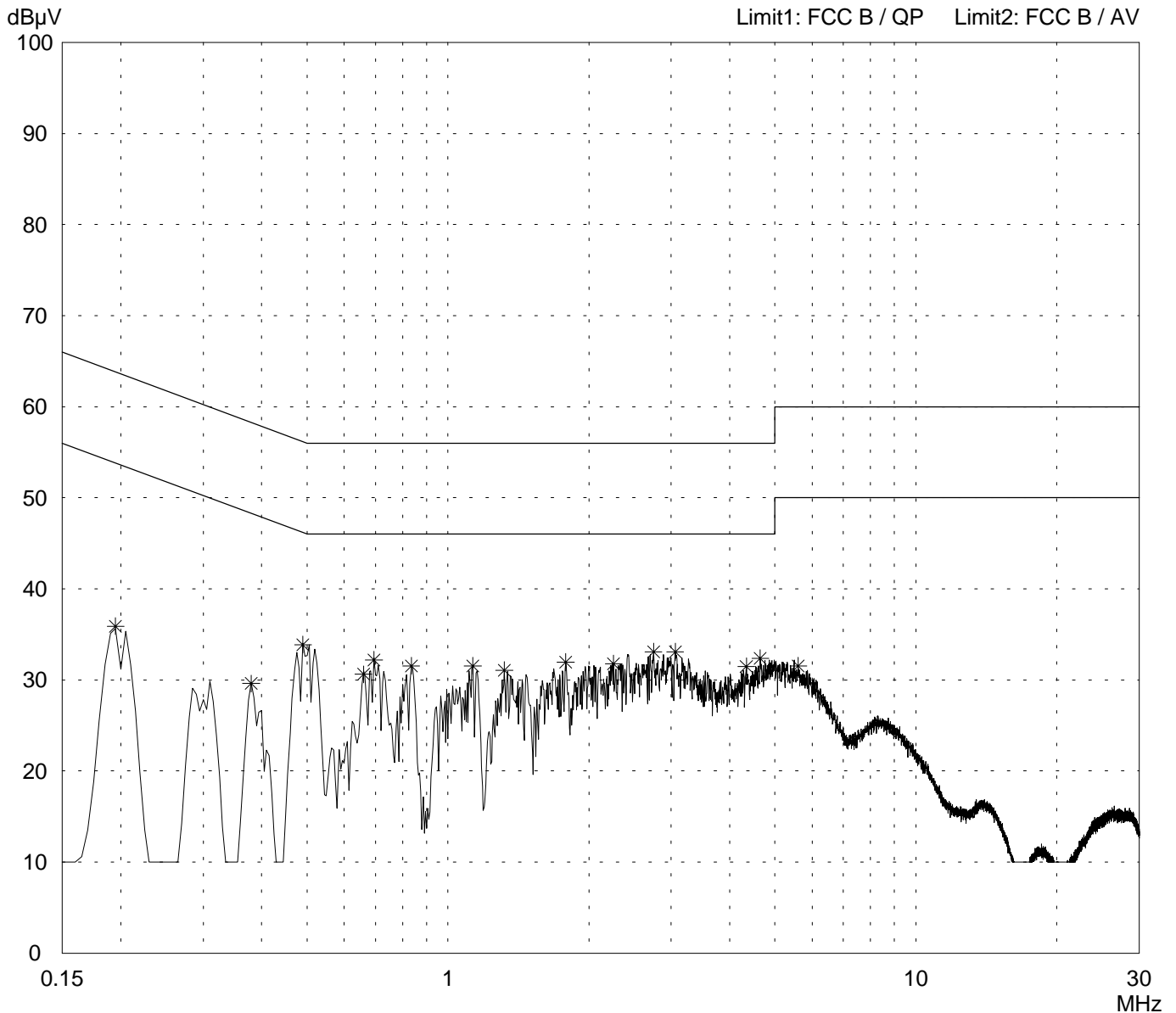
Test performed: automatically File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- operating with bit rate 11 Mbps
- RX mode with $f = 2.442$ GHz

Detector:
Average / Final Results: AV

Final results:
Selected by hand



Result:
Limit kept

Project file:
56305-20559-3

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

| | |
|---|---|
| <p>Model: PCC-2411-PCE-BAS1</p> <p>Serial no.: 02UTENG00002</p> <p>Applicant: Agere Systems Nederland B.V.</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord notebook (EUT) Phase N</p> <p>Date of test: 11/04/2002 Operator: R. Heller</p> <p>Test performed: automatically File name:</p> | <p>Mode:</p> <ul style="list-style-type: none"> - FCC test setup - supply voltage 115 V AC - EUT mounted in notebook Dell Latitude C800 - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz |
|---|---|

| | |
|--|--|
| <p>Detector: Average / Final Results: AV</p> | <p>Final results: Selected by hand</p> |
|--|--|

| <i>Frequency MHz</i> | <i>Reading dBμV</i> | <i>Correction factor dB</i> | <i>Value dBμV</i> | <i>Limit dBμV</i> | <i>Limit exceeded</i> |
|--------------------------|--|---------------------------------|--------------------------------------|--------------------------------------|---------------------------|
| 0.195 | 35.9 | | 35.9 | 53.8 | |
| 0.380 | 29.6 | | 29.6 | 48.3 | |
| 0.490 | 33.9 | | 33.9 | 46.2 | |
| 0.660 | 30.6 | | 30.6 | 46.0 | |
| 0.695 | 32.2 | | 32.2 | 46.0 | |
| 0.835 | 31.6 | | 31.6 | 46.0 | |
| 1.130 | 31.6 | | 31.6 | 46.0 | |
| 1.320 | 31.1 | | 31.1 | 46.0 | |
| 1.785 | 32.0 | | 32.0 | 46.0 | |
| 2.260 | 31.8 | | 31.8 | 46.0 | |
| 2.750 | 33.1 | | 33.1 | 46.0 | |
| 3.060 | 33.1 | | 33.1 | 46.0 | |
| 4.340 | 31.5 | | 31.5 | 46.0 | |
| 4.650 | 32.4 | | 32.4 | 46.0 | |
| 5.605 | 31.5 | | 31.5 | 50.0 | |

| | |
|-------------------------------|--|
| <p>Result: Limit kept</p> | <p>Project file: 56305-20559-3</p> <p style="text-align: right;">Page 35 of 44 Pages</p> |
|-------------------------------|--|

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

Model:
PCC-2411-PCE-BAS1

Serial no.:
02UTENG00002

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 11/04/2002 Operator: R. Heller

Test performed: automatically File name:

Mode:

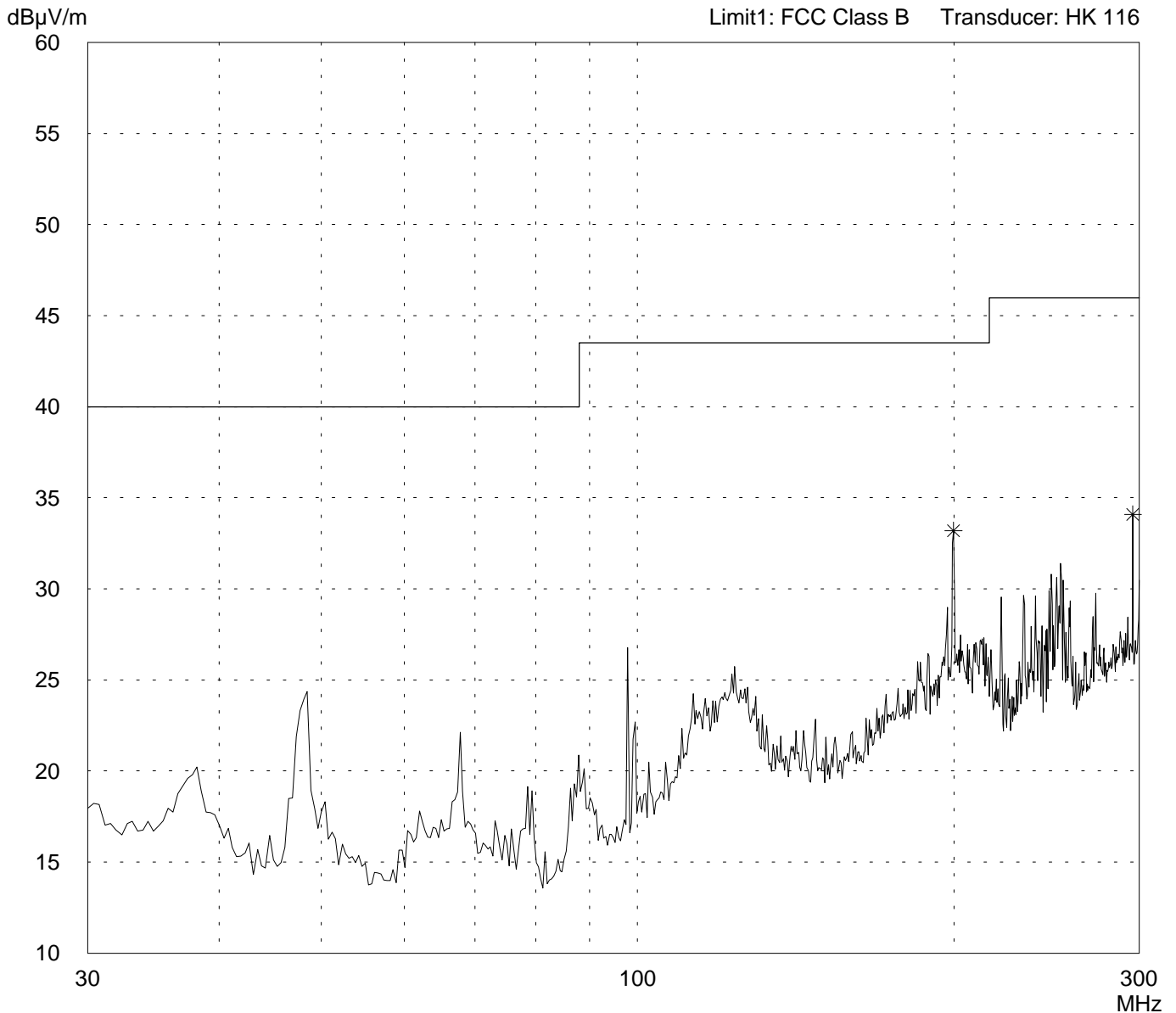
- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- display switched off

- operating with bit rate 11 Mbps

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
56305-20559-3

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

Model:
PCC-2411-PCE-BAS1

Serial no.:
02UTENG00002

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 11/04/2002 Operator: R. Heller

Test performed: automatically File name:

Mode:

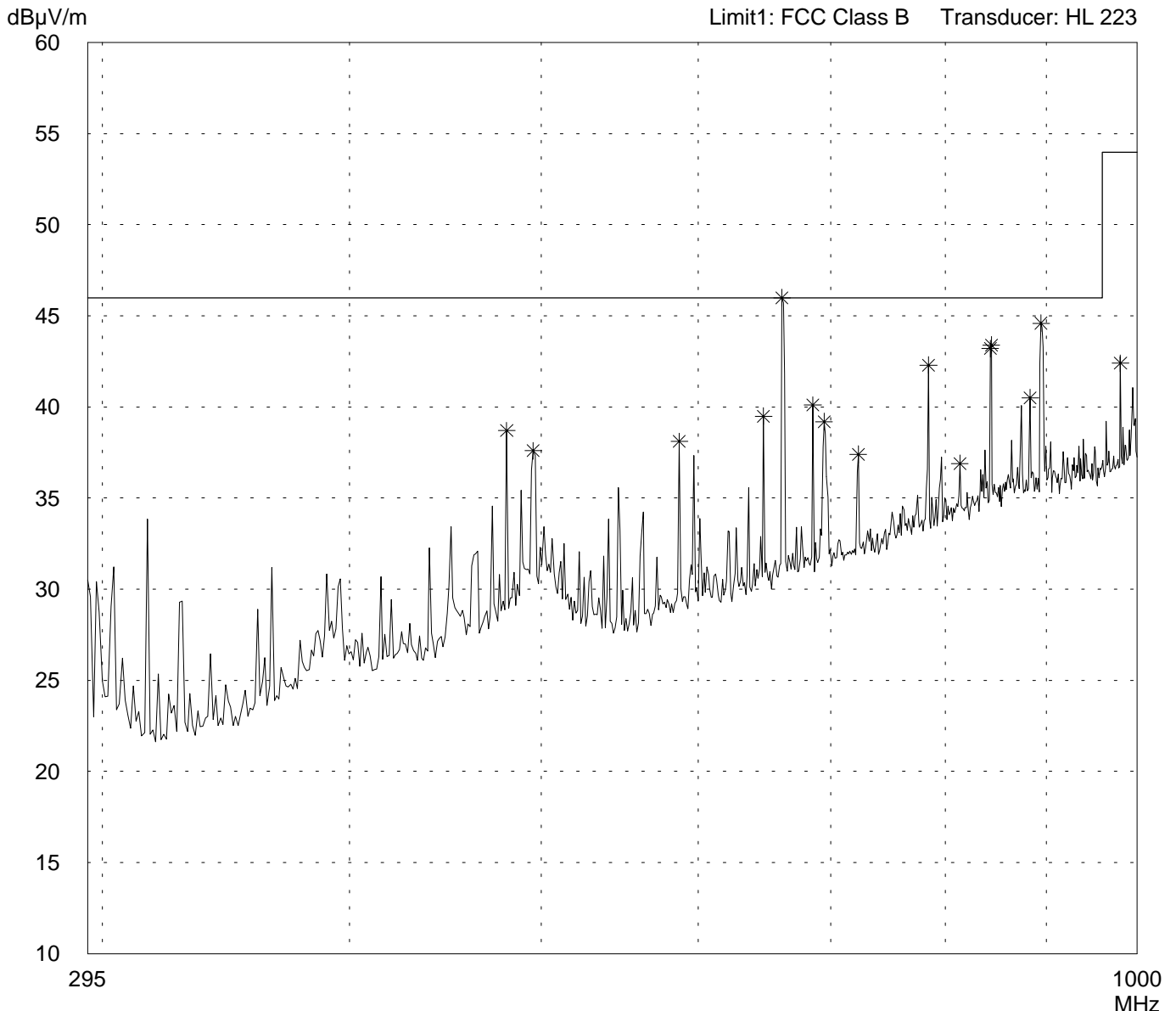
- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- display switched off

- operating with bit rate 11 Mbps

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
56305-20559-3

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

Model:
PCC-2411-PCE-BAS1

Serial no.:
02UTENG00002

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/04/2002 Operator: R. Heller

Test performed: automatically File name:

Mode:

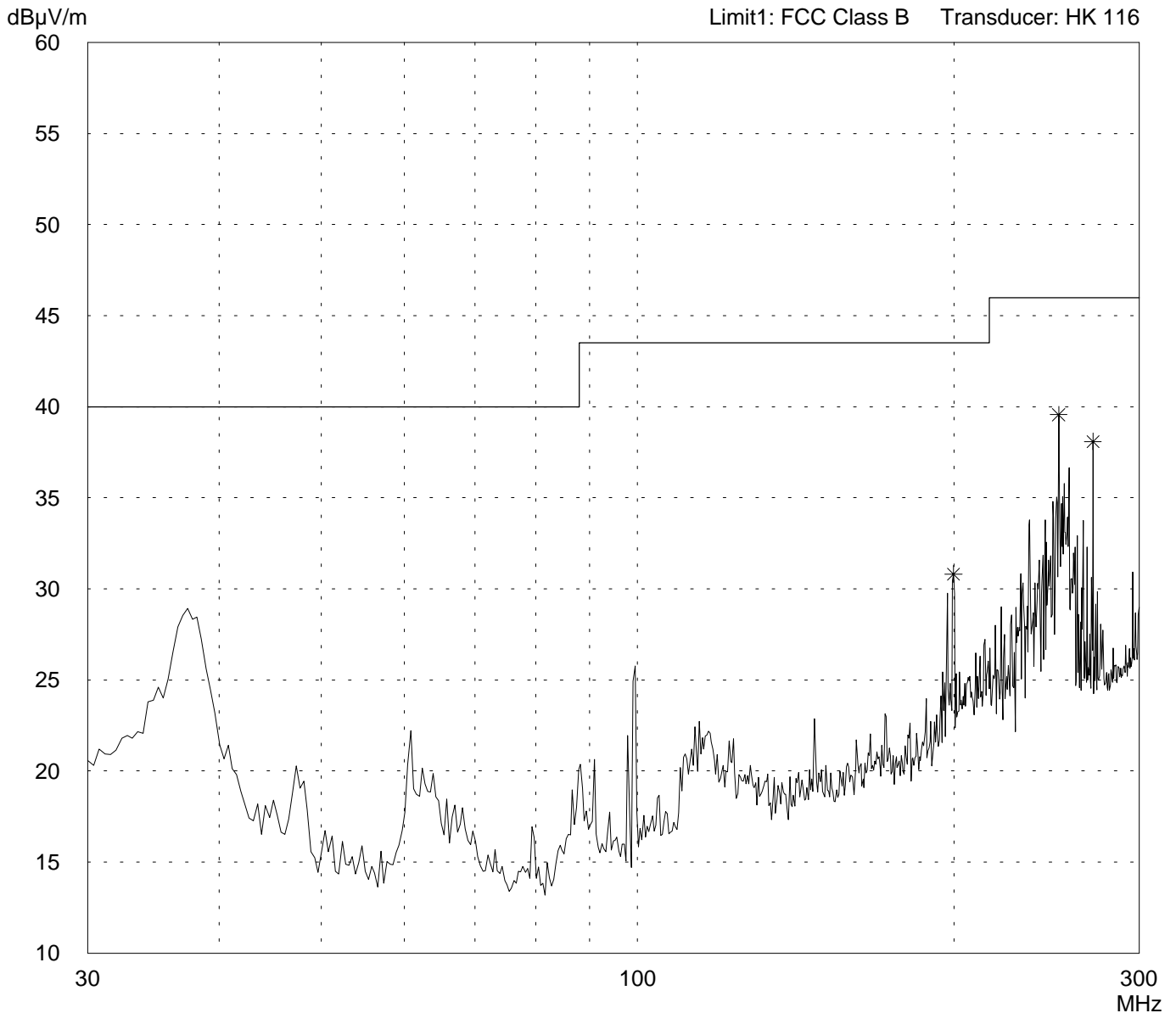
- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- display switched off

- operating with bit rate 11 Mbps

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
56305-20559-3

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

Model:
PCC-2411-PCE-BAS1

Serial no.:
02UTENG00002

Applicant:
Agere Systems Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/04/2002 Operator: R. Heller

Test performed: automatically File name:

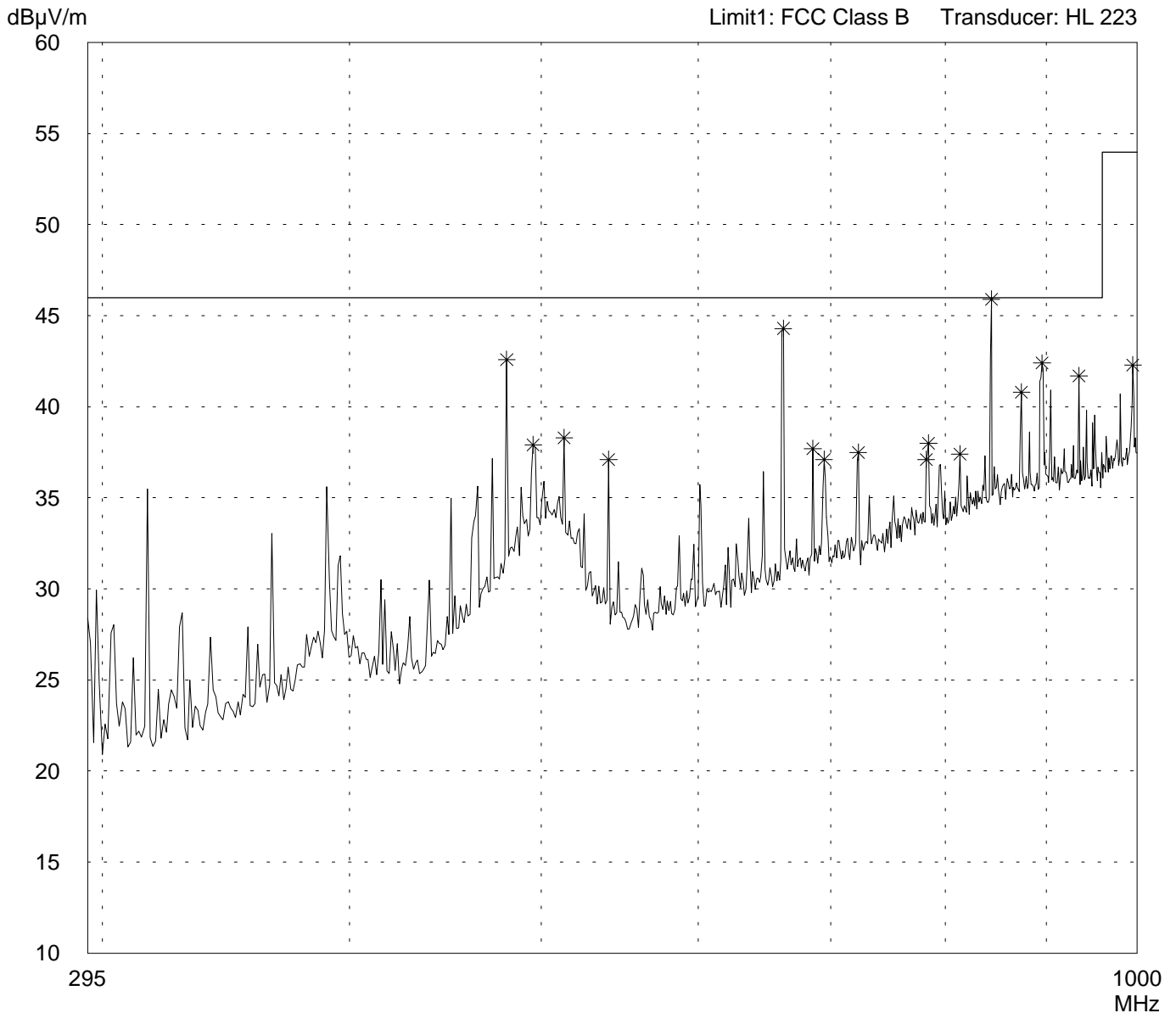
Mode:
- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- display switched off

- operating with bit rate 11 Mbps

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
56305-20559-3

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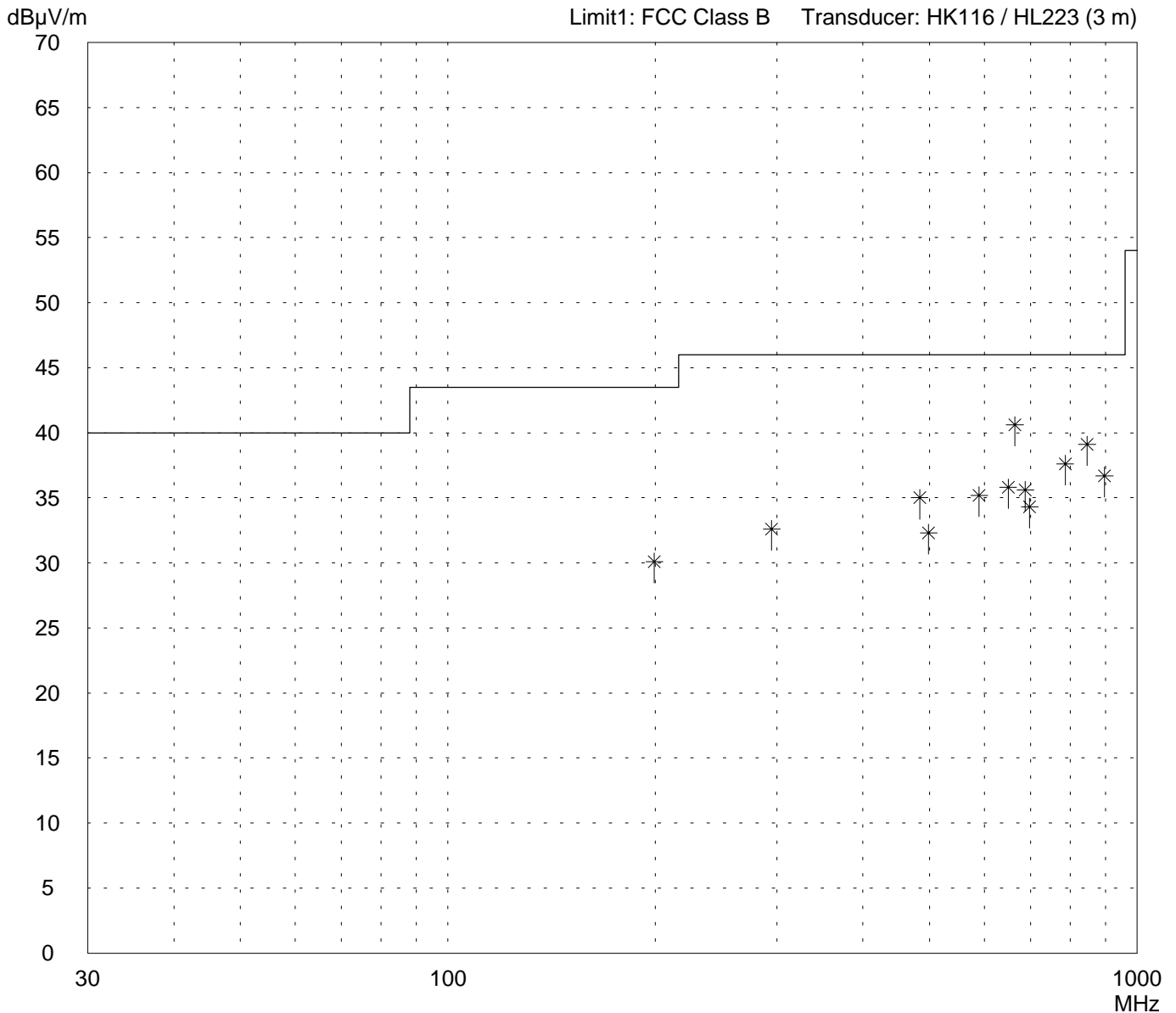
Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart B Class B

| | |
|---|------------------------|
| Model: PCC-2411-PCE-BAS1 | |
| Serial no.: 02UTENG00002 | |
| Applicant: Agere Systems Nederland B.V. | |
| Test site: Open area test-site I | |
| Tested on: Test distance 3 metres Horizontal Polarization | |
| Date of test: 11/05/2002 | Operator: R. Heller |
| Test performed: by hand | File name: |

| |
|---|
| Mode: - FCC test setup - supply voltage 115 V AC - EUT mounted in notebook Dell Latitude C800 - display switched off - 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 |
|-----------------------|

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|--------------------------------|---------------------|
| Project file: 56305-20559-3 | Page 40 of 44 Pages |
|--------------------------------|---------------------|

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

| | |
|---|---|
| <p>Model: PCC-2411-PCE-BAS1</p> <p>Serial no.: 02UTENG00002</p> <p>Applicant: Agere Systems Nederland B.V.</p> <p>Test site: Open area test-site I</p> <p>Tested on: Test distance 3 metres Horizontal Polarization</p> <p>Date of test: 11/05/2002 Operator: R. Heller</p> <p>Test performed: by hand File name:</p> | <p>Mode:</p> <ul style="list-style-type: none"> - FCC test setup - supply voltage 115 V AC - EUT mounted in notebook Dell Latitude C800 - display switched off <p>- operating with bit rate 11 Mbps</p> <p>- RX mode with f = 2.442 GHz</p> |
|---|---|

| | |
|---------------------------------|---|
| <p>Detector: Quasi-Peak</p> | <p>List of values: Selected by hand</p> |
|---------------------------------|---|

| <i>Frequency MHz</i> | <i>Reading dBμV</i> | <i>Correction factor dB</i> | <i>Value dBμV/m</i> | <i>Limit dBμV/m</i> | <i>Limit exceeded</i> |
|--------------------------|--|---------------------------------|--|--|---------------------------|
| 199.27 | 13.5 | 16.6 | 30.1 | 43.5 | |
| 294.92 | 10.6 | 22.0 | 32.6 | 46.0 | |
| 483.42 | 14.6 | 20.4 | 35.0 | 46.0 | |
| 498.33 | 11.6 | 20.7 | 32.3 | 46.0 | |
| 589.83 | 12.9 | 22.3 | 35.2 | 46.0 | |
| 649.98 | 12.4 | 23.4 | 35.8 | 46.0 | |
| 664.66 | 16.8 | 23.8 | 40.6 | 46.0 | |
| 688.16 | 11.3 | 24.3 | 35.6 | 46.0 | |
| 698.38 | 9.7 | 24.6 | 34.3 | 46.0 | |
| 786.47 | 12.2 | 25.4 | 37.6 | 46.0 | |
| 845.94 | 12.4 | 26.7 | 39.1 | 46.0 | |
| 896.85 | 9.3 | 27.4 | 36.7 | 46.0 | |

| | |
|-------------------------------|--|
| <p>Result: Limit kept</p> | <p>Project file: 56305-20559-3</p> <p style="text-align: right;">Page 41 of 44 Pages</p> |
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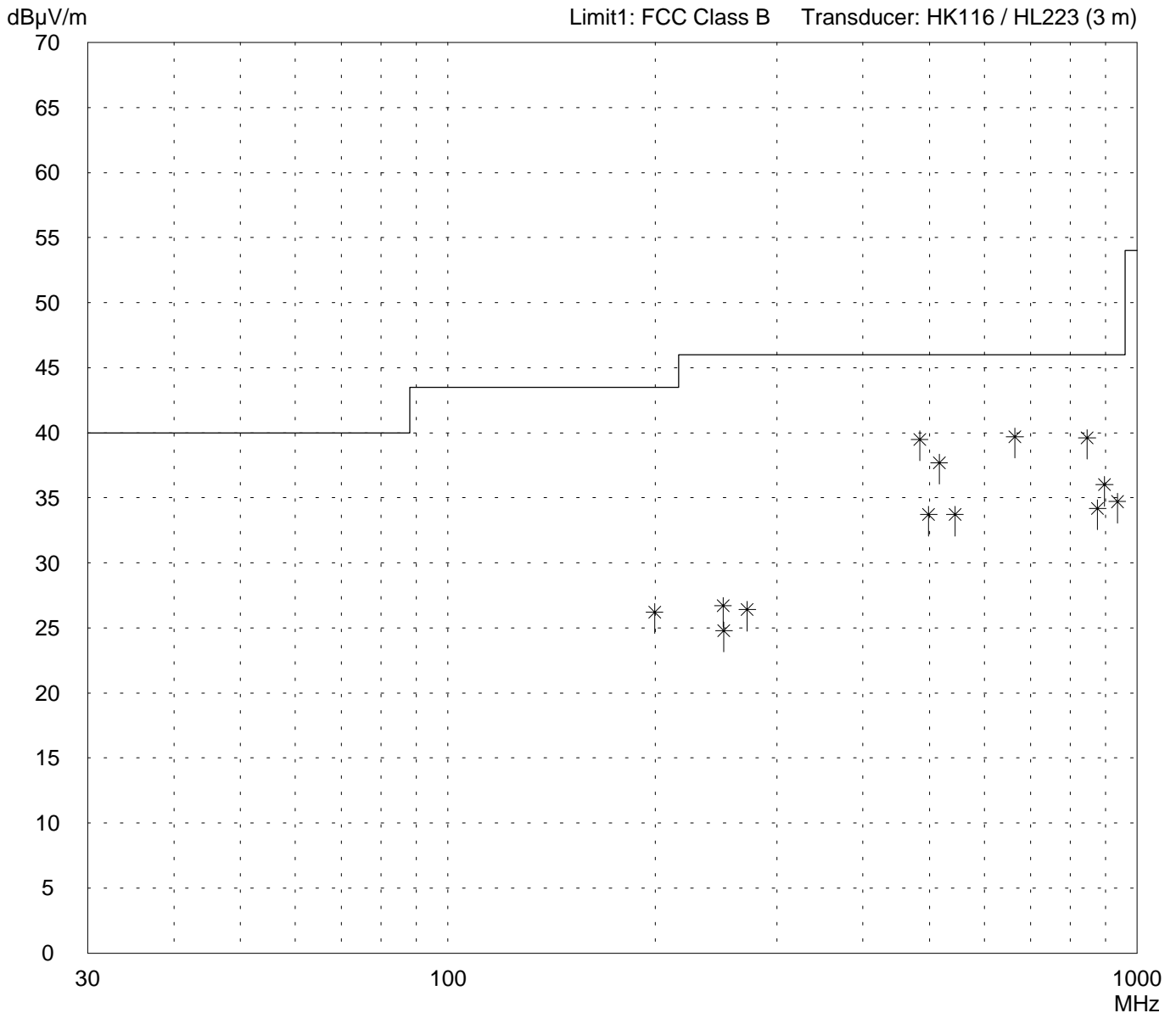
Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart B Class B

| | |
|---|------------------------|
| Model: PCC-2411-PCE-BAS1 | |
| Serial no.: 02UTENG00002 | |
| Applicant: Agere Systems Nederland B.V. | |
| Test site: Open area test-site I | |
| Tested on: Test distance 3 metres Vertical Polarization | |
| Date of test: 11/05/2002 | Operator: R. Heller |
| Test performed: by hand | File name: |

| |
|---|
| Mode: - FCC test setup - supply voltage 115 V AC - EUT mounted in notebook Dell Latitude C800 - display switched off - operating with bit rate 11 Mbps - RX mode with $f = 2.442$ GHz |
|---|

| |
|-------------------------|
| Detector: Quasi-Peak |
|-------------------------|

| |
|-------------------------------------|
| List of values: Selected by hand |
|-------------------------------------|



| |
|-----------------------|
| Result: Limit kept |
|-----------------------|

| | |
|--------------------------------|---------------------|
| Project file: 56305-20559-3 | Page 42 of 44 Pages |
|--------------------------------|---------------------|

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

Model:
PCC-2411-PCE-BAS1

Serial no.:
02UTENG00002

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/05/2002 Operator: R. Heller

Test performed: by hand File name:

Mode:

- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- display switched off

- operating with bit rate 11 Mbps

- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

| <i>Frequency MHz</i> | <i>Reading dBμV</i> | <i>Correction factor dB</i> | <i>Value dBμV/m</i> | <i>Limit dBμV/m</i> | <i>Limit exceeded</i> |
|--------------------------|--|---------------------------------|--|--|---------------------------|
| 199.38 | 9.6 | 16.6 | 26.2 | 43.5 | |
| 250.59 | 9.8 | 16.9 | 26.7 | 46.0 | |
| 251.32 | 7.9 | 16.9 | 24.8 | 46.0 | |
| 271.75 | 7.5 | 18.9 | 26.4 | 46.0 | |
| 483.42 | 19.1 | 20.4 | 39.5 | 46.0 | |
| 498.33 | 13.0 | 20.7 | 33.7 | 46.0 | |
| 516.10 | 16.7 | 21.0 | 37.7 | 46.0 | |
| 543.94 | 12.4 | 21.3 | 33.7 | 46.0 | |
| 664.79 | 15.9 | 23.8 | 39.7 | 46.0 | |
| 846.10 | 12.9 | 26.7 | 39.6 | 46.0 | |
| 876.34 | 6.8 | 27.4 | 34.2 | 46.0 | |
| 896.84 | 8.6 | 27.4 | 36.0 | 46.0 | |
| 936.42 | 7.3 | 27.4 | 34.7 | 46.0 | |

Result:
Limit kept

Project file:
56305-20559-3

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13. Additional Information supplementary to the Test Report

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