

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

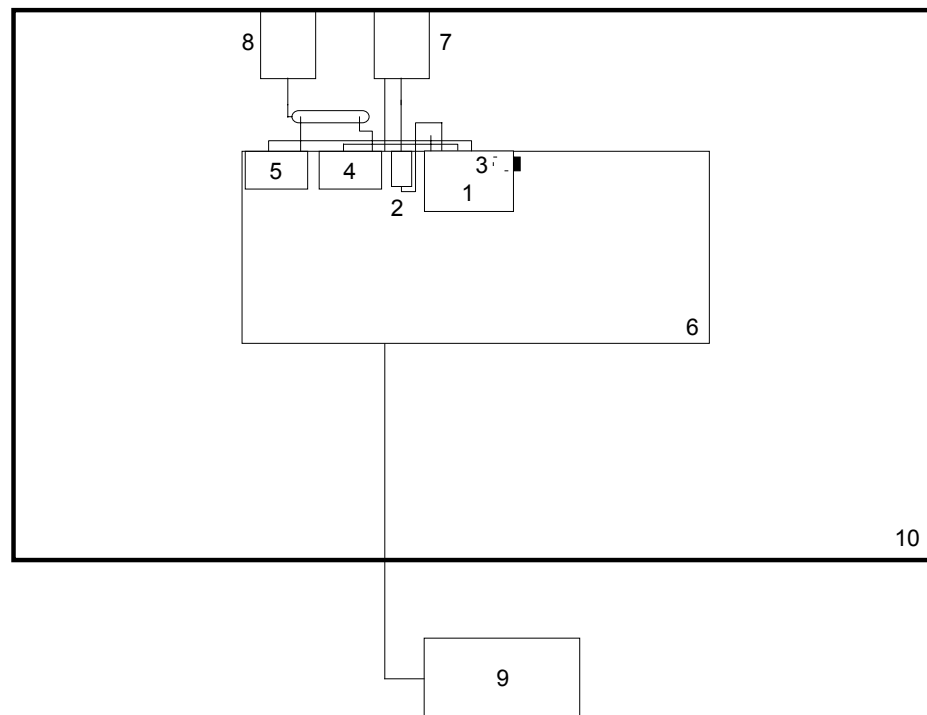


Figure 1: Measurement setup for conducted emission test

- | | | | |
|---|-------------------------|----|-----------------------------|
| 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

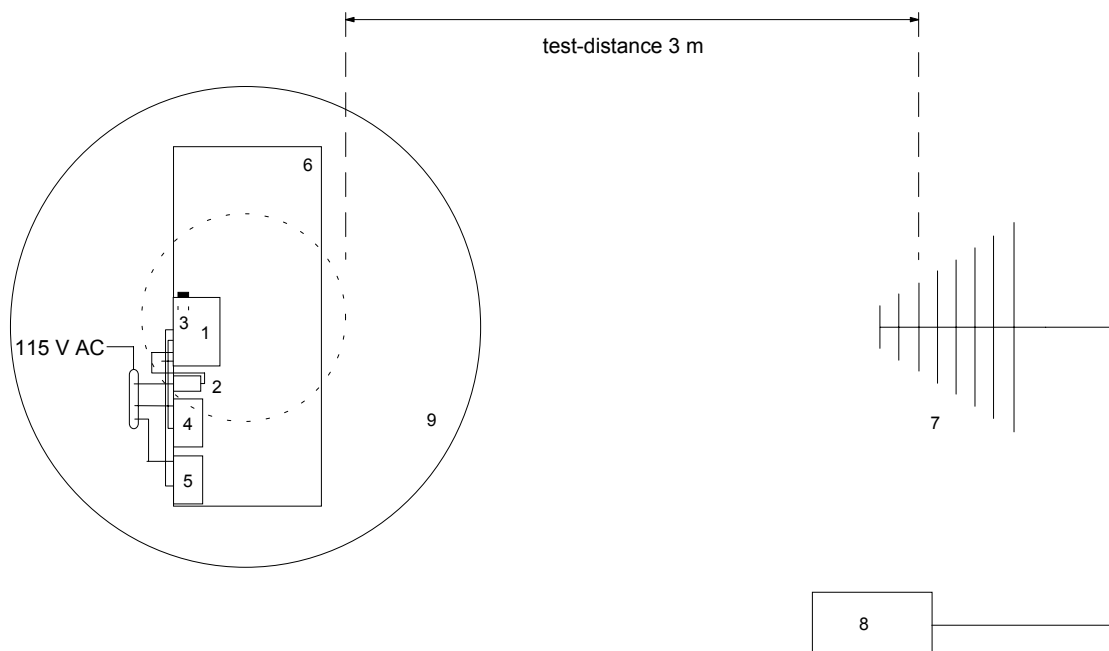


Figure 2: Measurement setup for radiated emission test below 1 GHz

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

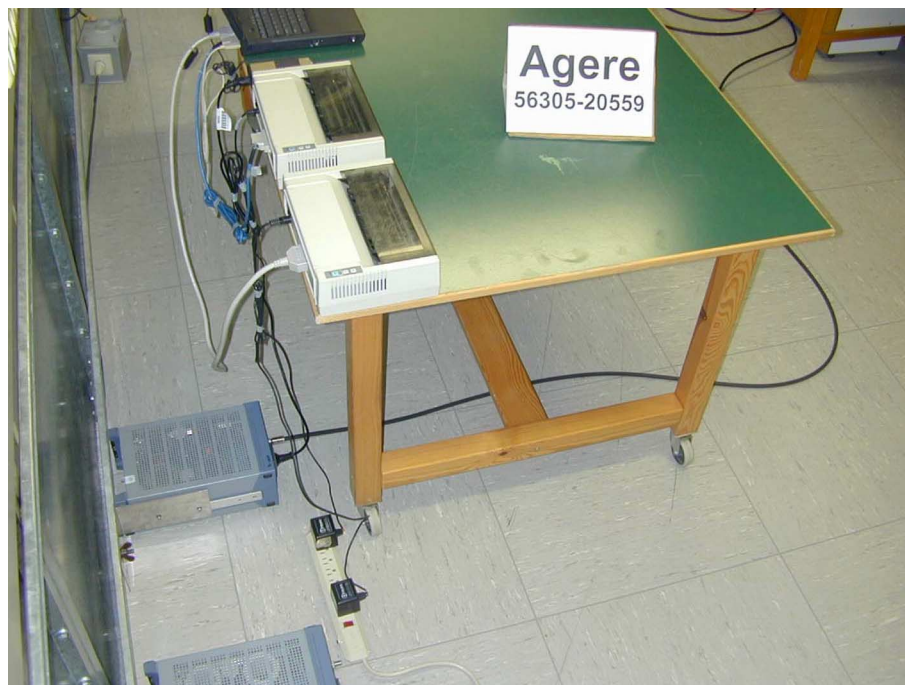
Photo No. 9.1

Test setup for conducted emission test 150 kHz - 30 MHz



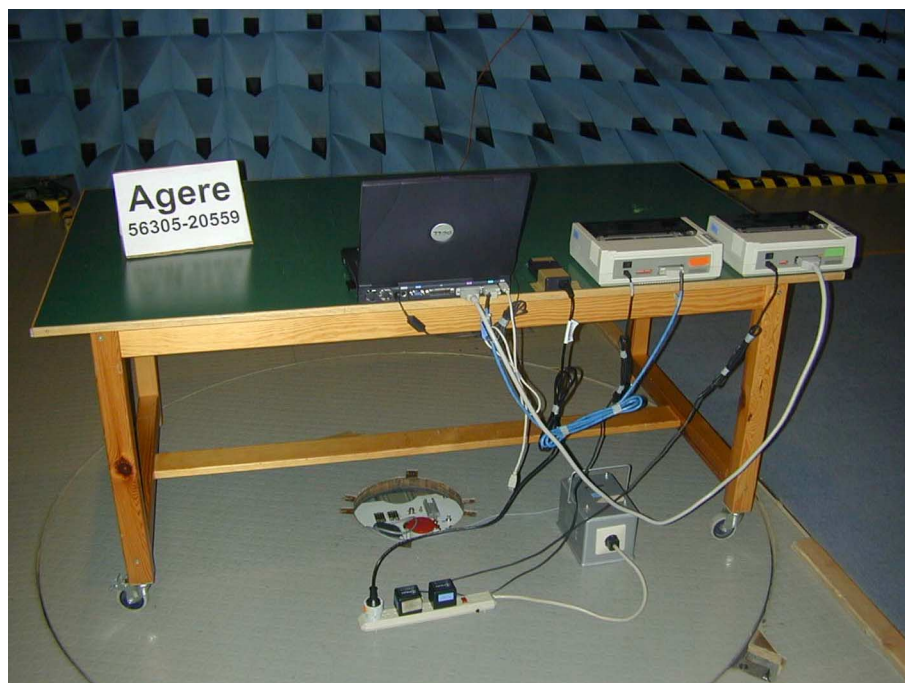
Photos No. 9.2 - 9.3

**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)



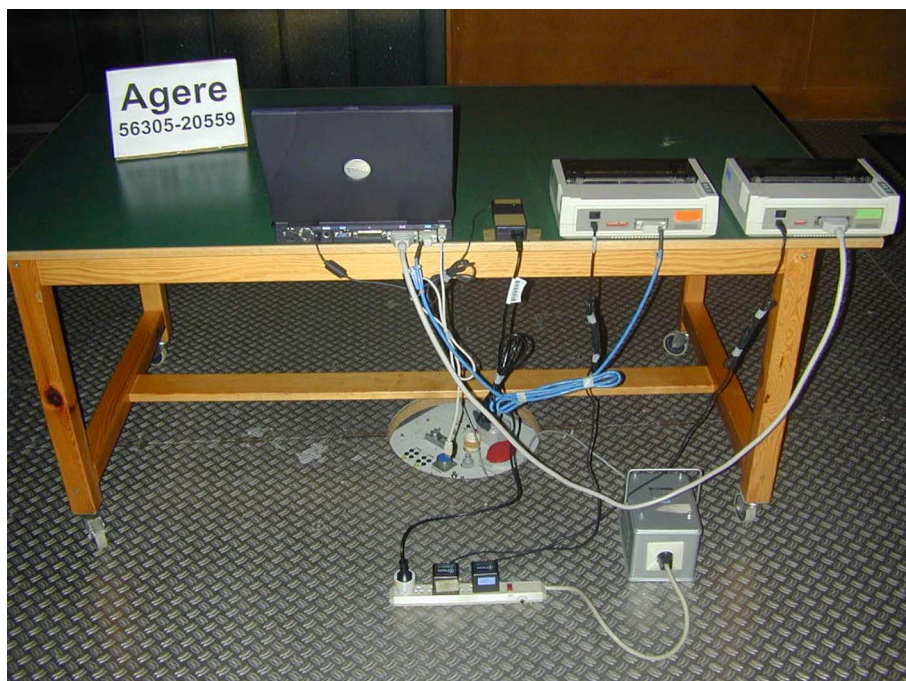
Photos No. 9.6 - 9.7

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:

- | | |
|--|--|
| ☒ CFR47 Part 15
May 30, 2002 | Code of Federal Regulations 47 Part 15 - Radio Frequency Devices |
| ☒ 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 |
| ☒ ICES-003, Issue 3
November 22, 1997 | Industry Canada Interference-Causing Equipment Standard - Digital Apparatus |
| ☒ 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

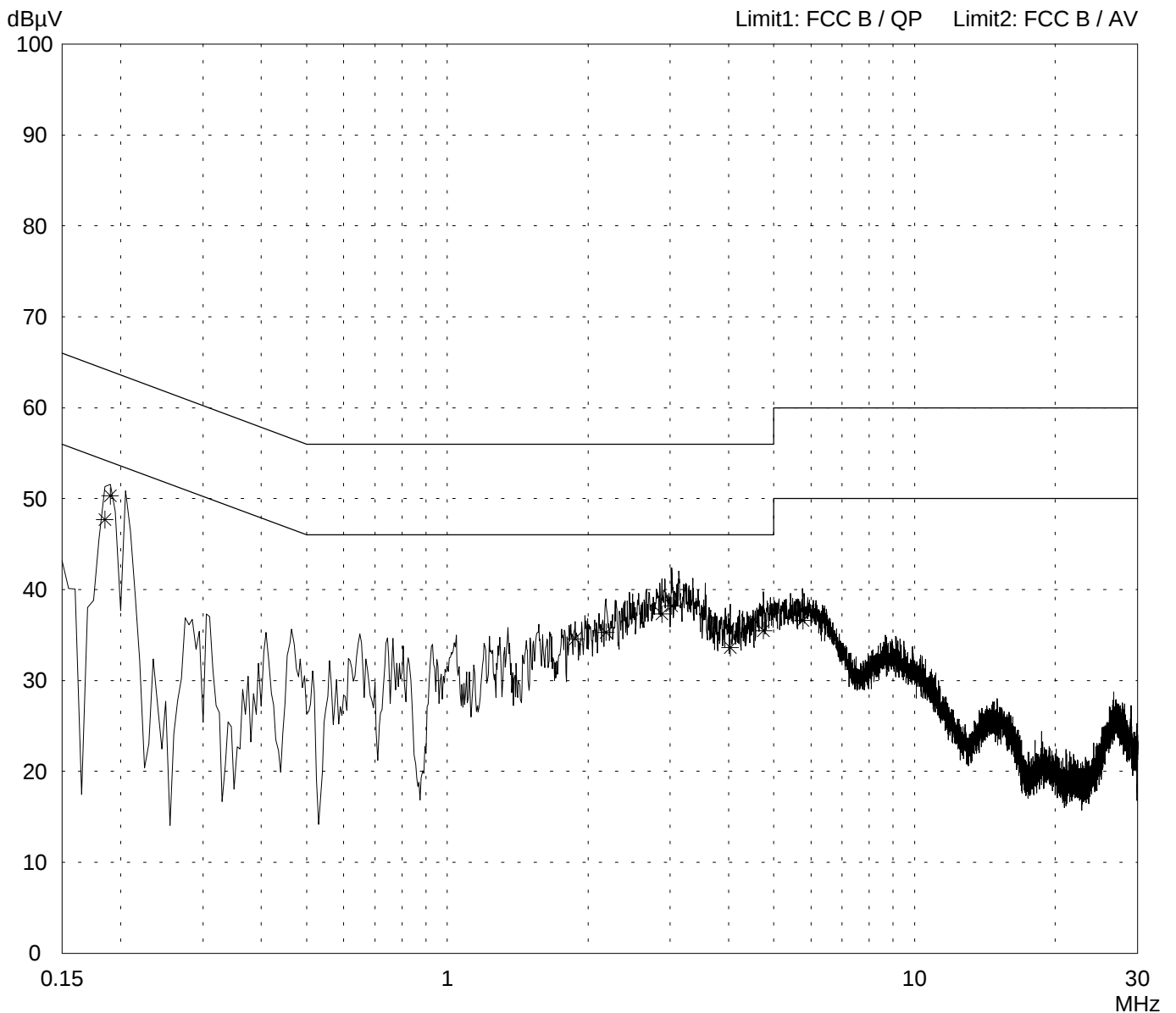
Test performed: automatically
File name:

Mode:

- 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:
56305-20559-3

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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B
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Model: PCC-2411-PCE-BAS1	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
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	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.185	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	

Result: Limit kept	Project file: 56305-20559-3	Page 29 of 44 Pages
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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

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

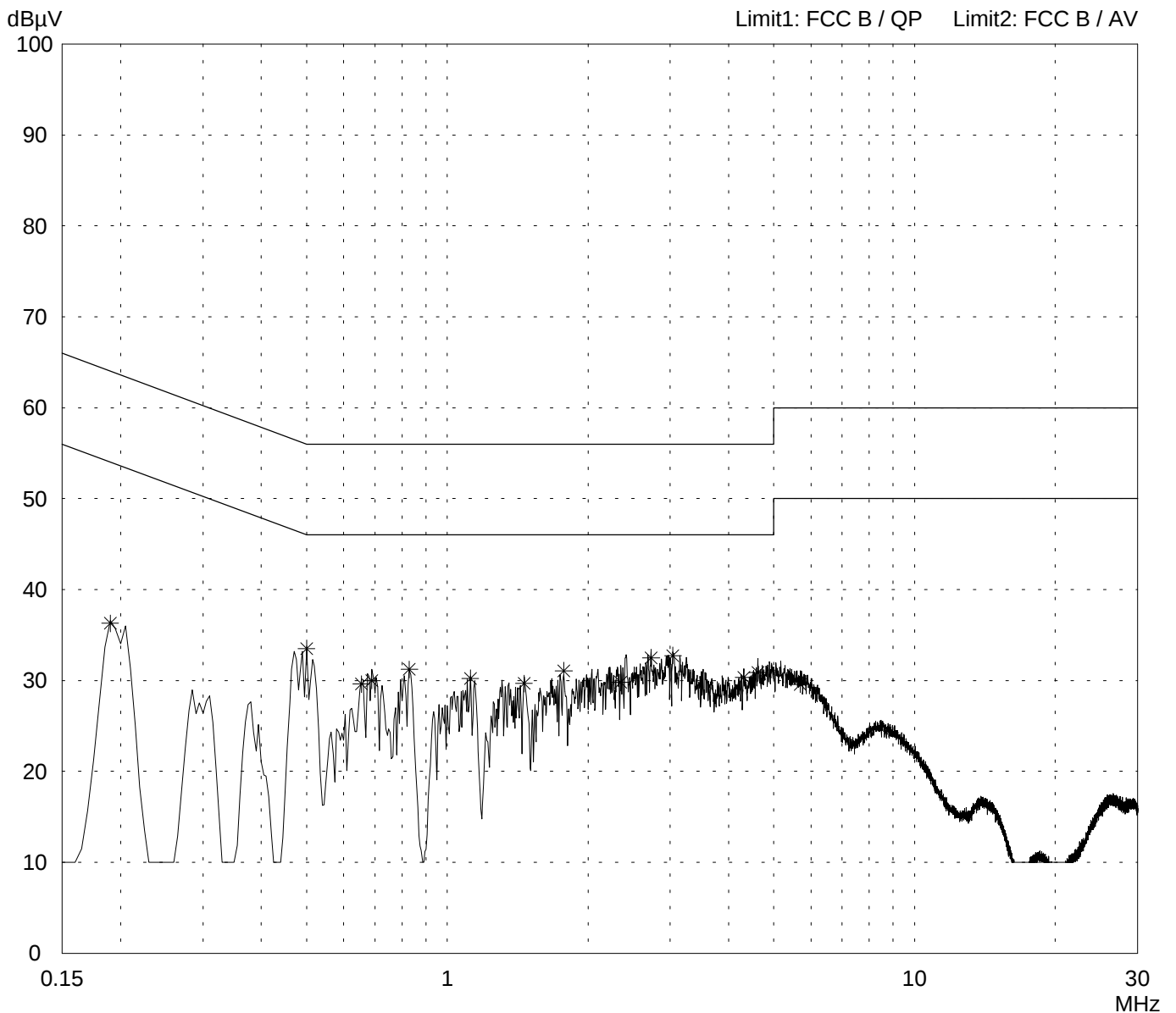
Test performed: automatically
File name:

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:
56305-20559-3

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

Detector: Average / Final Results: AV	Final results: 20 dB Margin 25 Subranges
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<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.190	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	Page 31 of 44 Pages
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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

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

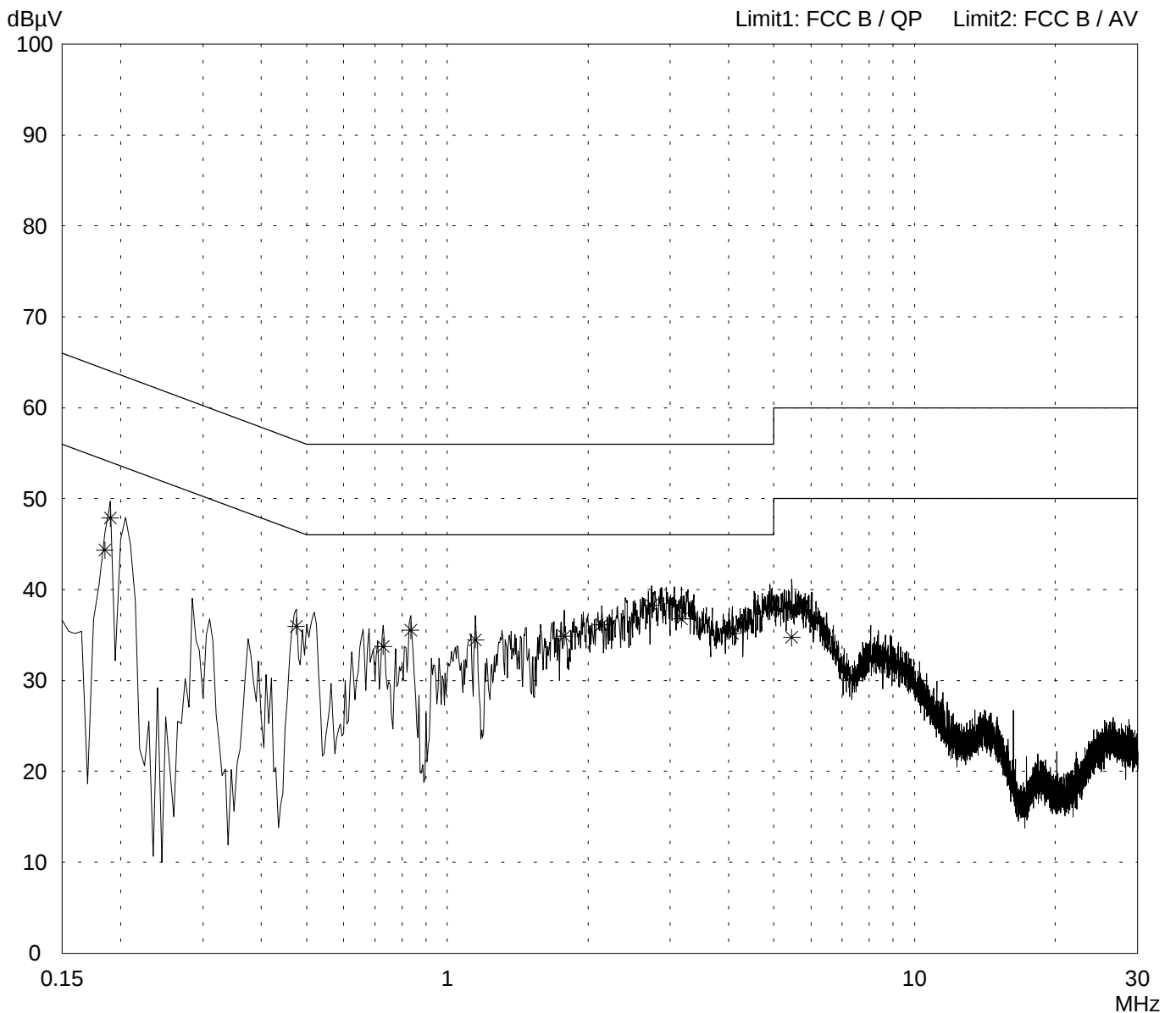
Test performed: automatically
File name:

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:
56305-20559-3

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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B
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Model: PCC-2411-PCE-BAS1	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
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	
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.185	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	

Result: Limit kept	Project file: 56305-20559-3	Page 33 of 44 Pages
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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

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

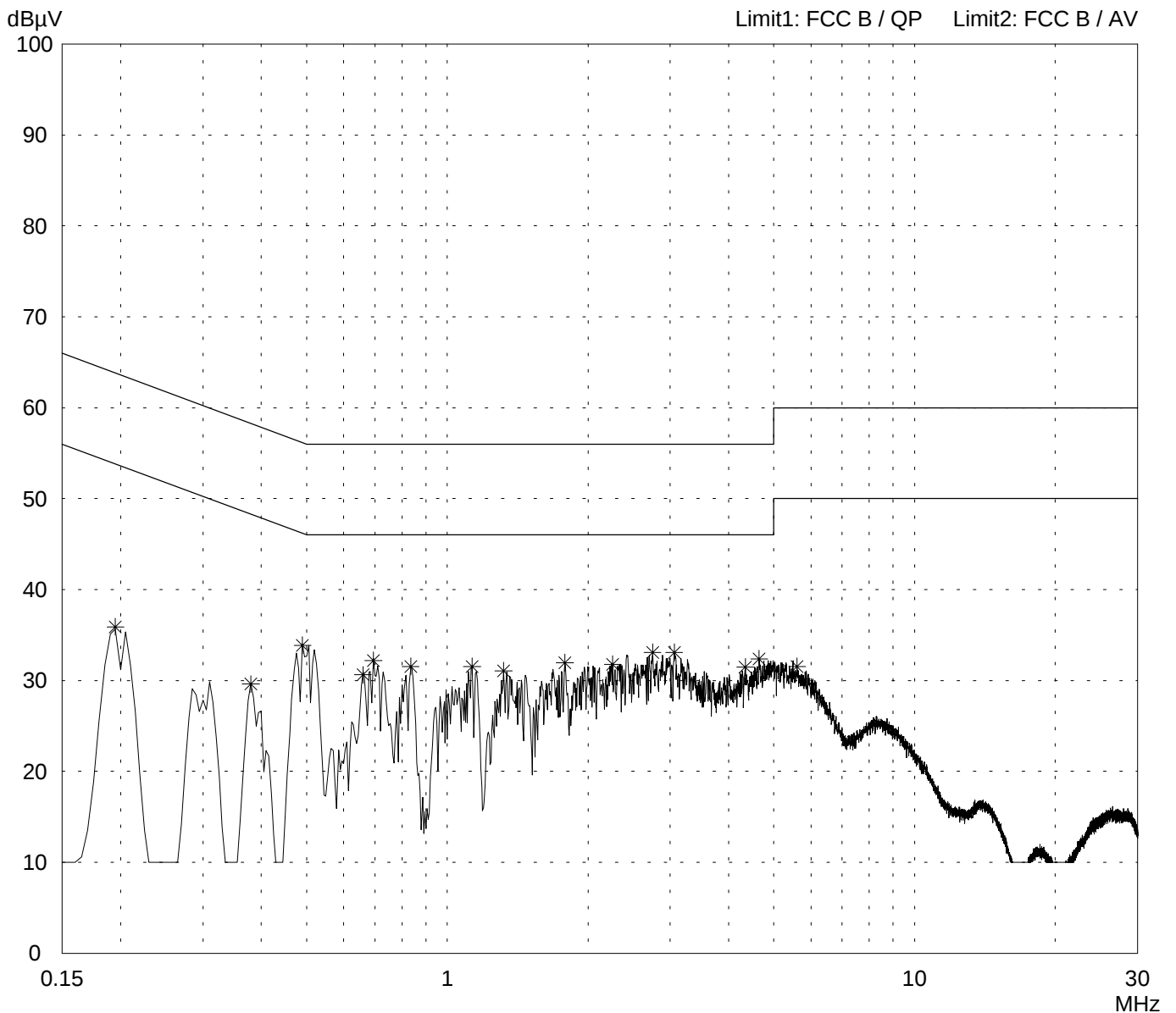
Test performed: automatically
File name:

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
--

Model: PCC-2411-PCE-BAS1	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
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	
Test performed: automatically	File name:

Detector: Average / Final Results: AV	Final results: Selected by hand
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[illegible]

Result: Limit kept	Project file: 56305-20559-3	Page 35 of 44 Pages
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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
Horizontal Polarization

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

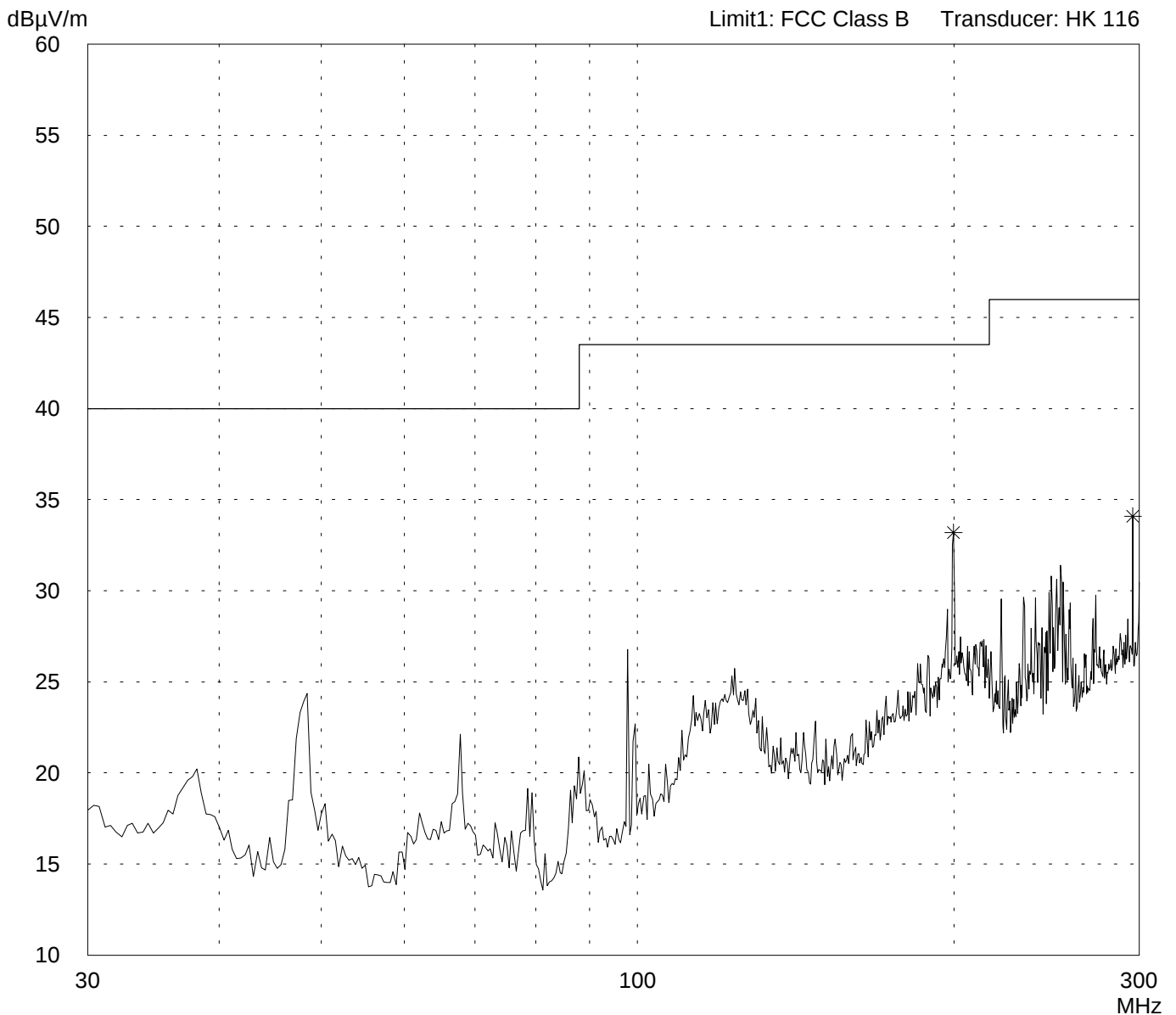
Test performed: automatically File name:

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:
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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:

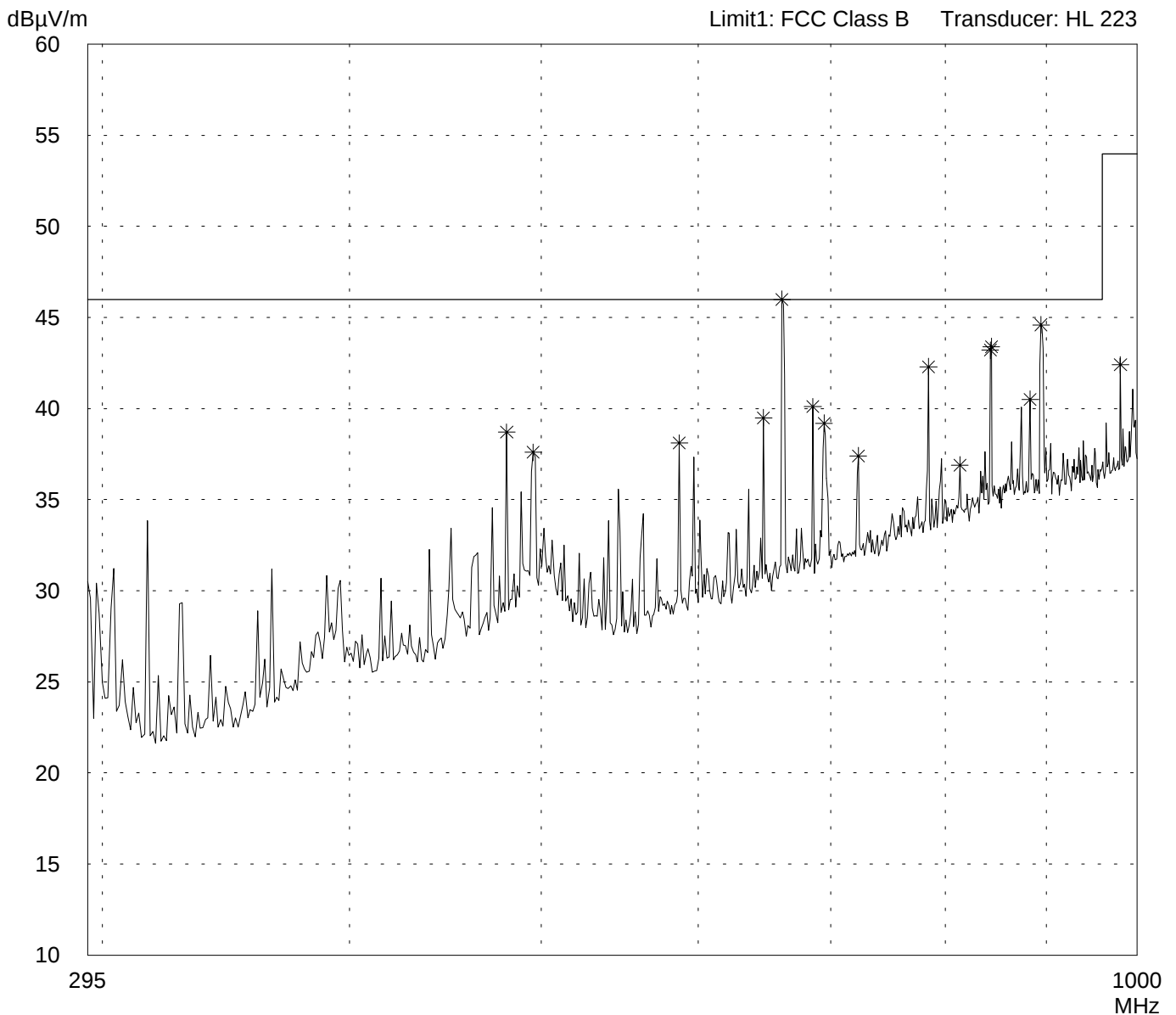
- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- display switched off

- 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:
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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

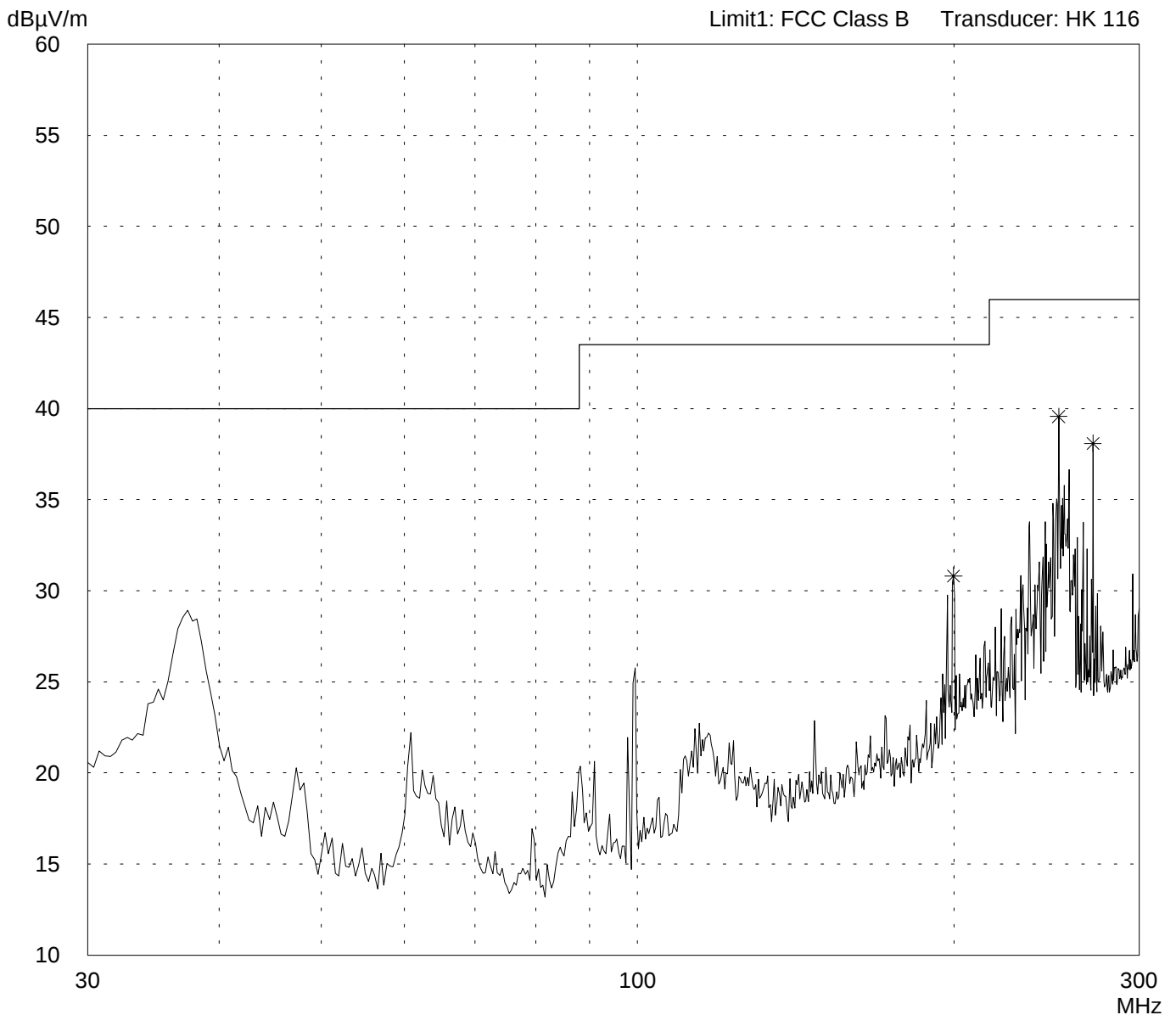
Test performed: automatically File name:

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:
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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

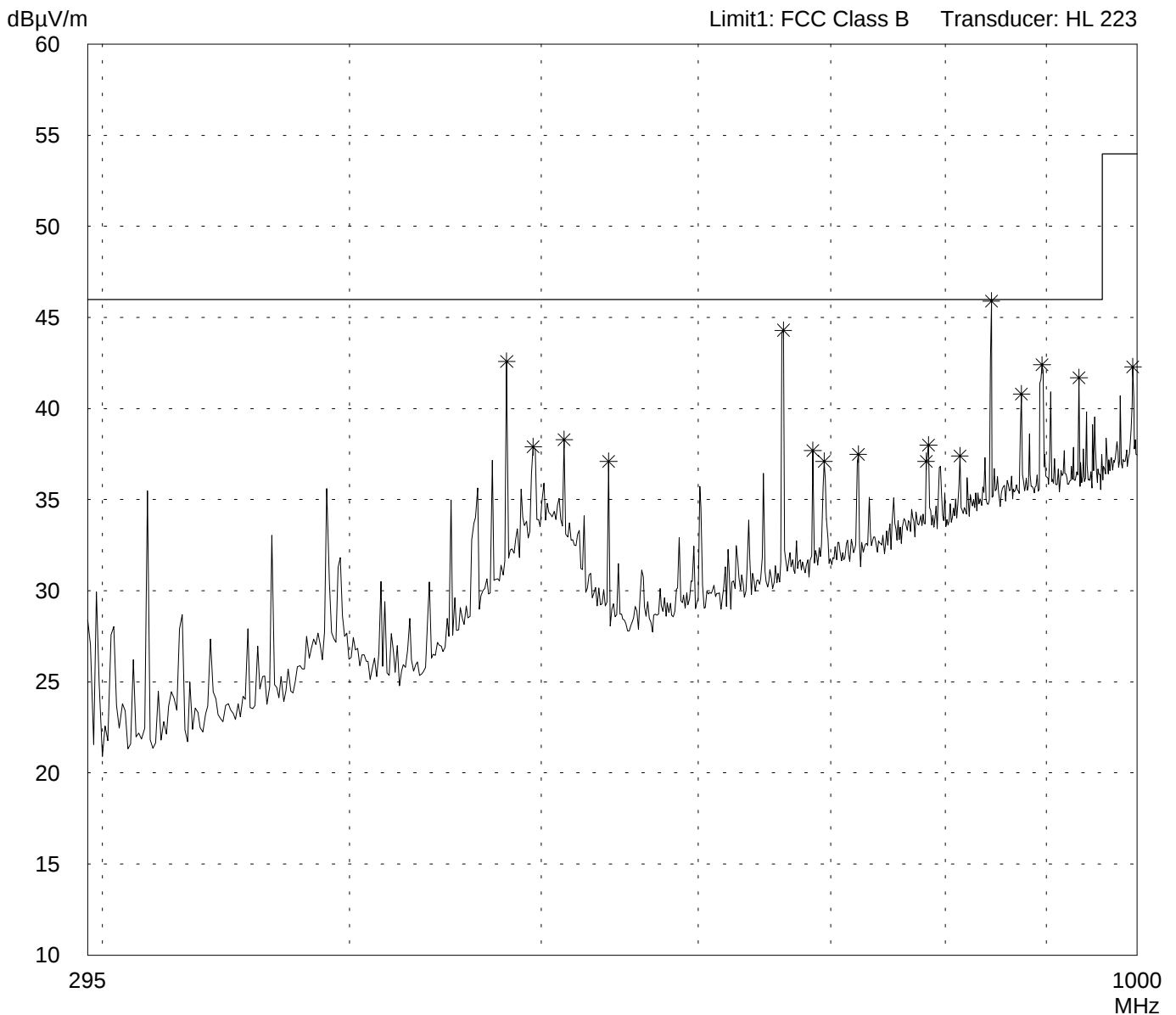
Test performed: automatically
File name:

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

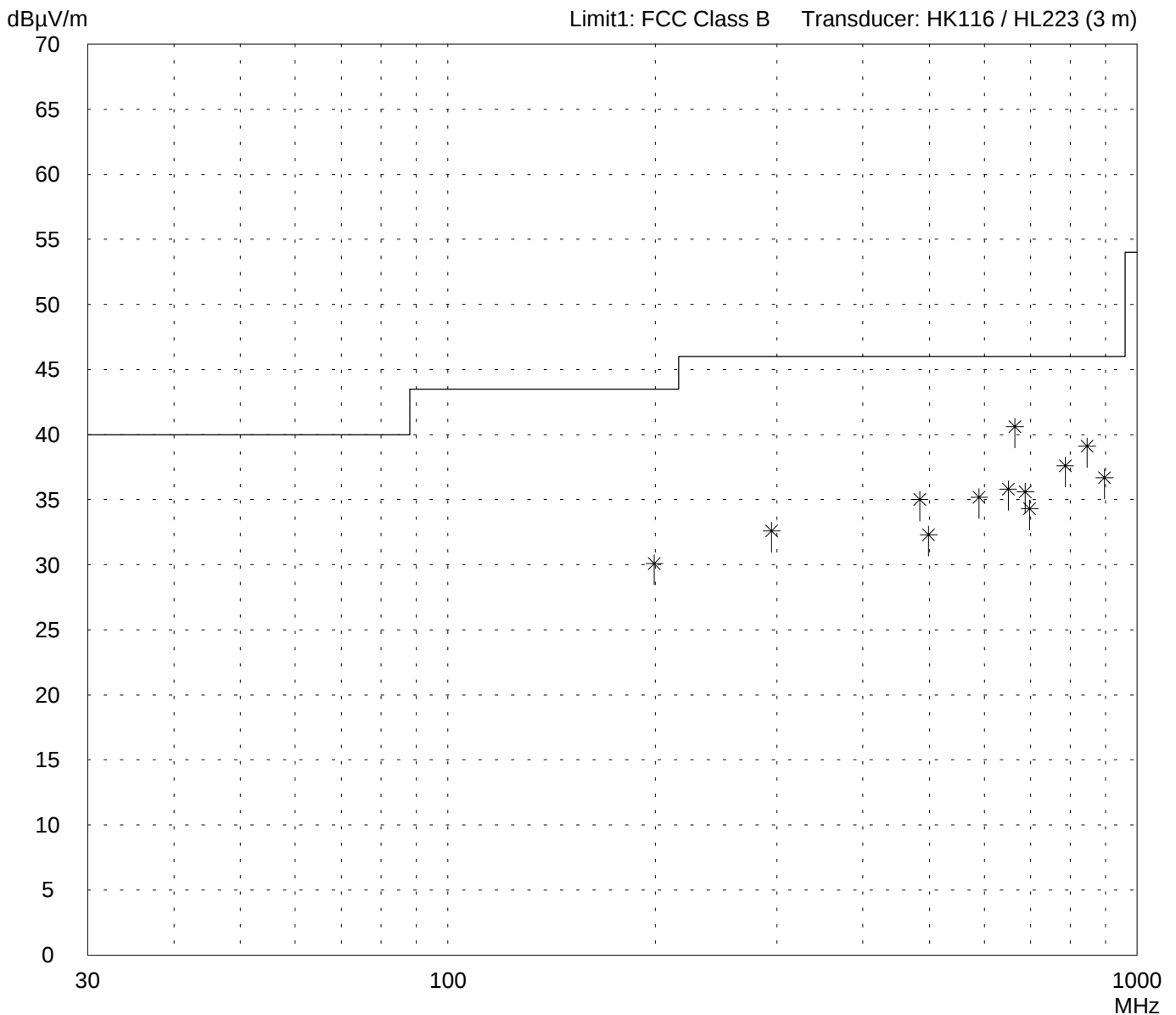
Test performed: by hand
File name:

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

Project file:
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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

<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	

Result:
Limit kept

Project file:
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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:

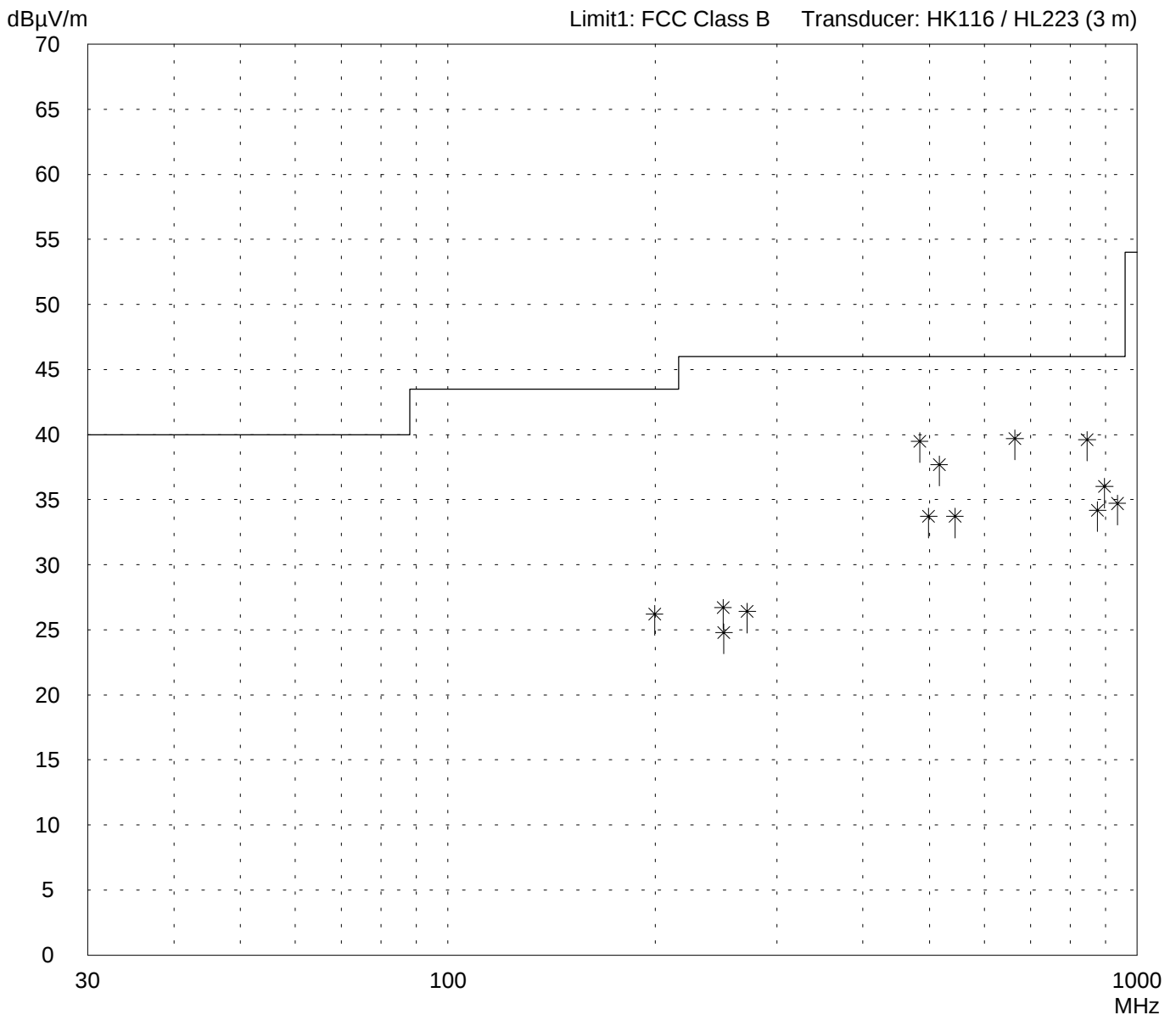
Mode:
- FCC test setup
- supply voltage 115 V AC
- EUT mounted in notebook Dell Latitude C800
- display switched off

- 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:
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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

<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:
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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