

Straubing, June 25, 1999

TEST - REPORT

No. 56305-90389-1

for

LUC PC24-H-FC

RF-modem for wireless LAN

Applicant: Lucent Technologies Nederland B.V.

Purpose of testing: To show compliance with

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

Note:

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

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1. Administrative Data

Equipment Under Test (EUT): LUC PC24-H-FC
Serial number(s): 92290006 (RF-modem)
Sample no. 1 (external antenna)
Type of equipment: RF-modem using DSSS technology for wireless connection for e.g. portable and mobile computers which have a PCMCIA-bus.
Parts/accessories:

- RF-modem LUC PC24-H-FC, part no. 011683/B
- external omni-directional antenna AIN24-OD-0202, part no. 010096

(for additional information see "Configuration of EUT and Peripheral Devices" on page 8)
FCC-ID: IMRWLPC24H

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

Receipt of EUT: June 14, 1999
Date of test: June 16 to 24, 1999
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 file number:	31040/SIT 1300F2
Industry Canada file number:	IC 3050

3. Summary of Test Results

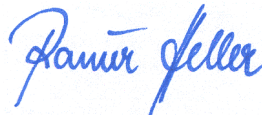
The tested sample (including accessories) complies with the requirements for

- 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 "WaveLAN-II Engineering Test Program", Version v01.17c (May 6 1999). According to applicant three different kinds of modulation are used for transmission specified by the appropriate bit rate:

Transmit mode (TX):

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

Receive mode (RX):

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

Note: See next page for instructions supplied by applicant to achieve required operation mode.

¹ Full testing with bit rate 11 Mbps only

INSTRUCTIONS - TEST PROGRAM

WaveLAN Engineering Test Program, V01.17c, May 6, 1999

SETUP

- INSERT Modem
- INSERT Test Program disk
- SWITCH ON PC
- GO TO A:\
- TYPE **Cert_eng**
- **MAIN MENU** appears
- SELECT **INITIALISE** and ENTER
- INITIALISE appears for a short time, green power LED is on
- Program returns automatically to **MAIN MENU**

CHANNEL SELECTION

- SELECT **SET CHANNEL** from MAIN MENU and ENTER
- SELECT channel and ENTER
- RESULTS appear
- ESC (back to **MAIN MENU**)

TX MODE

- SELECT **TX CONTINUOUS ON** from MAIN MENU and ENTER,
- SET **BIT RATE** parameters: 2Mbps, 5.5Mbps or 11Mbps and ENTER
(Modem transmits spectrum with specified bit rate on selected channel. Both LEDs are on. Check by spectrum analyzer)
- To stop transmission SELECT **RX CONTINUOUS ON / STOP** and ENTER
- To restart transmission SELECT **TX CONTINUOUS ON** and ENTER two times
- NOTE: Before changing the channel number **INITIALISE** has to be selected first. For further details see Channel Selection above.

RX MODE

- SELECT **RX CONTINUOUS ON / STOP** from MAIN MENU and ENTER
- NOTE: Before changing the channel number **INITIALISE** has to be selected first. For further details see Channel Selection above.

CHANNEL LIST

Channel ID	FCC (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

5. Configuration of EUT and Peripheral Devices

RF-modem module LUC PC24-H-FC was tested operating with external antenna AIN24-OD-0202 connected (1.5 m antenna cable) and mounted in PCMCIA slot of notebook AT & T Globalyst 200.

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

Item	Part no.	Serial no.	Designation	Manufacturer
RF-modem	011683/B	92290006	LUC PC24-H-FC	Lucent
External omni-directional antenna	010096	Sample no. 1	AIN24-OD-0202	Lucent
Notebook	---	017-28730433	Globalyst 200	AT & T

Table 1: Accessories and host equipment

6. Setup of Host

Configuration of cables of host

- Unshielded power lines for AC-power supply of notebook, Kawasaki, 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 personal computer, Senton, 220 cm, Senton inv.-no. 1401

Configuration of host and peripheral devices

- Notebook AT & T Globalyst 200:
Serial no.: 017-28730433 FCC-ID: A3LS3945
with
AC power supply AT & T AC Adapter:
Product ID: 3150-K909-V001 Part no.: 5290000117
- PS/2-keyboard HP C1405A #ABD:
Serial no.: 3221S30020 FCC-ID²: B94VECTRA386S-20
- 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

² FCC-ID of corresponding personal computer

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

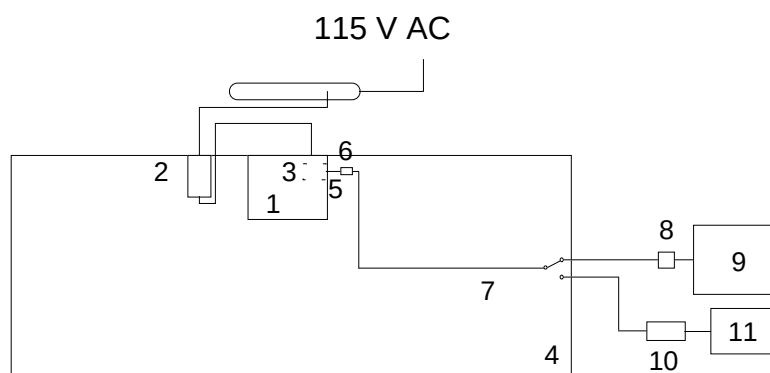


Figure 1: Measurement setup for testing on antenna connector

- | | |
|------------------------------------|----------------------------|
| 1 Notebook | 5 Adapter cable |
| 2 Power supply for notebook | 6 DC-block |
| 3 RF-modem (EUT) | 7 Test cable |
| 4 Wooden table | 8 Attenuator |
| | 9 Spectrum analyzer |
| | 10 Power sensor |
| | 11 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

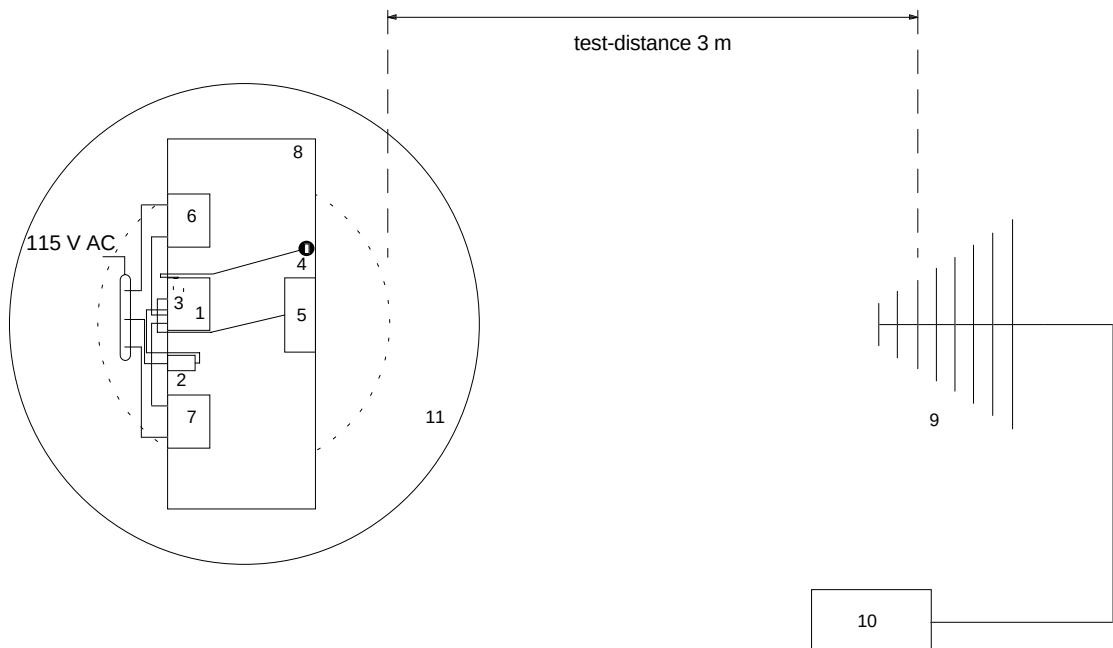


Figure 2: Measurement setup for radiated emission test below 1 GHz

- | | |
|------------------------------------|------------------------------|
| 1 Notebook | 9 Measurement antenna |
| 2 Power supply for notebook | 10 Test receiver |
| 3 RF-modem (EUT) | 11 Turn table |
| 4 RF-antenna (2.4 GHz) | |
| 5 Keyboard | |
| 6 Parallel printer | |
| 7 Serial printer | |
| 8 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 100 Hz (average mode). EUT was rotated all around and receiving antenna was raised and lowered to find the maximum levels of emission. Cables and equipment were placed and moved within the range of position likely to find their maximum emissions.

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

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

For receive mode appropriate preamplifiers were used for the whole frequency range.

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

Substitution was performed in the following steps:

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

See figure 3 for the measurement setups.

Test equipment used (see equipment list for details):

02, 13, 14, 16, ,42, 43, 44, 45, 46, 47, 48, 49, 57, 64

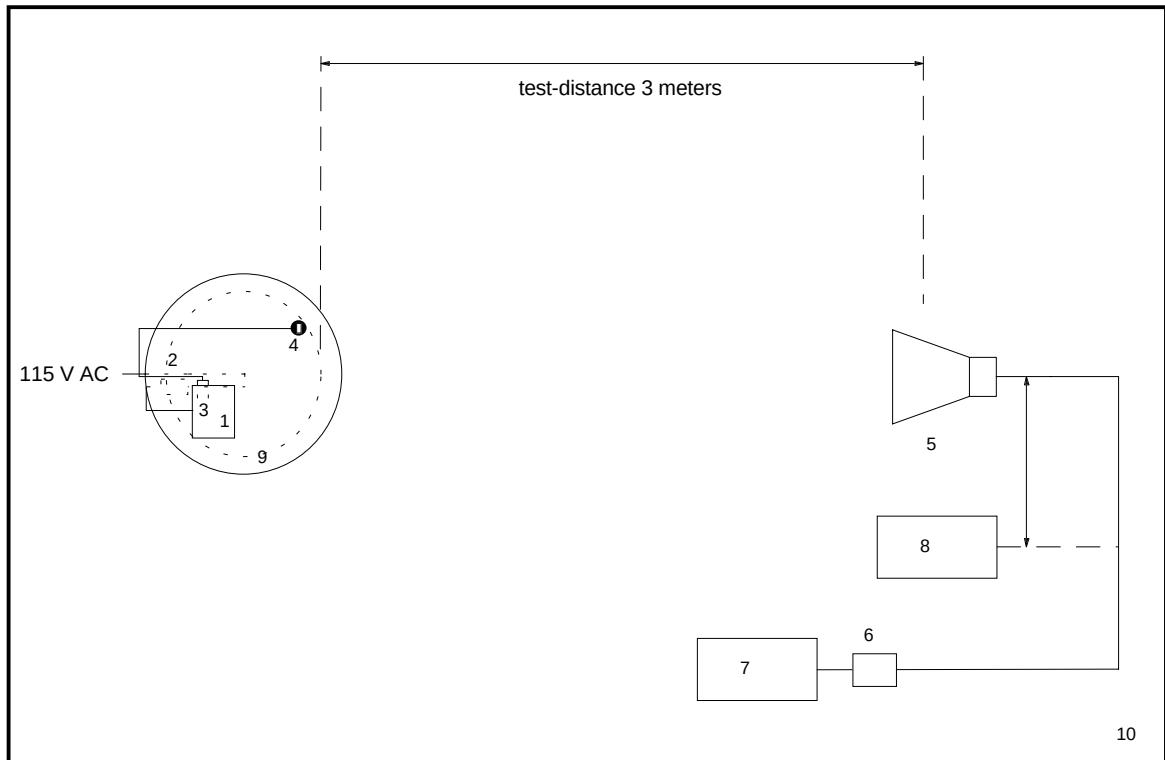


Figure 3: Measurement setup for radiated emission test above 1 GHz

- | | |
|-----------------------------|--------------------------------|
| 1 Notebook | 5 Measurement antenna |
| 2 Power supply for notebook | 6 Preamplifier (if applicable) |
| 3 RF-modem (EUT) | 7 Spectrum analyzer |
| 4 RF-antenna (2.4 GHz) | 8 Signal generator |
| | 9 Turn table |
| | 10 Semi-anechoic room |

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.

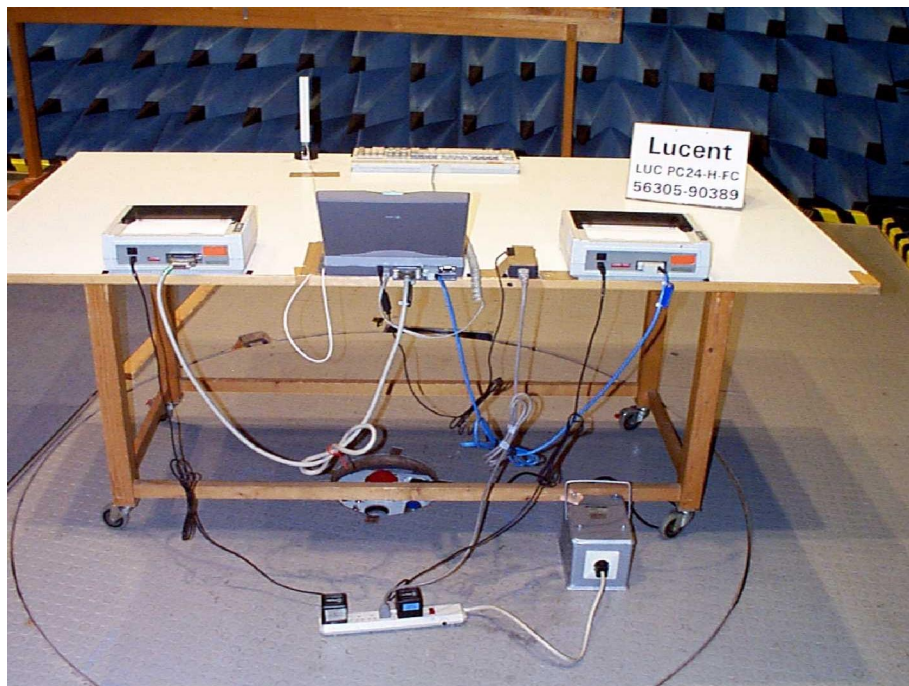
No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	R 3271	05050023	Advantest
02	EMI Test Receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
03	Test Receiver	ESH 3	880112/032	Rohde & Schwarz
04	Test Receiver	ESHS 10	860043/016	Rohde & Schwarz
05	Test Receiver	ESV	881414/009	Rohde & Schwarz
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			Lucent Technologies
68	DC Block 0.01-18GHz		8037	Inmet Corp.
69	High pass filter			Lucent Technologies

9. Photographs Taken During Testing

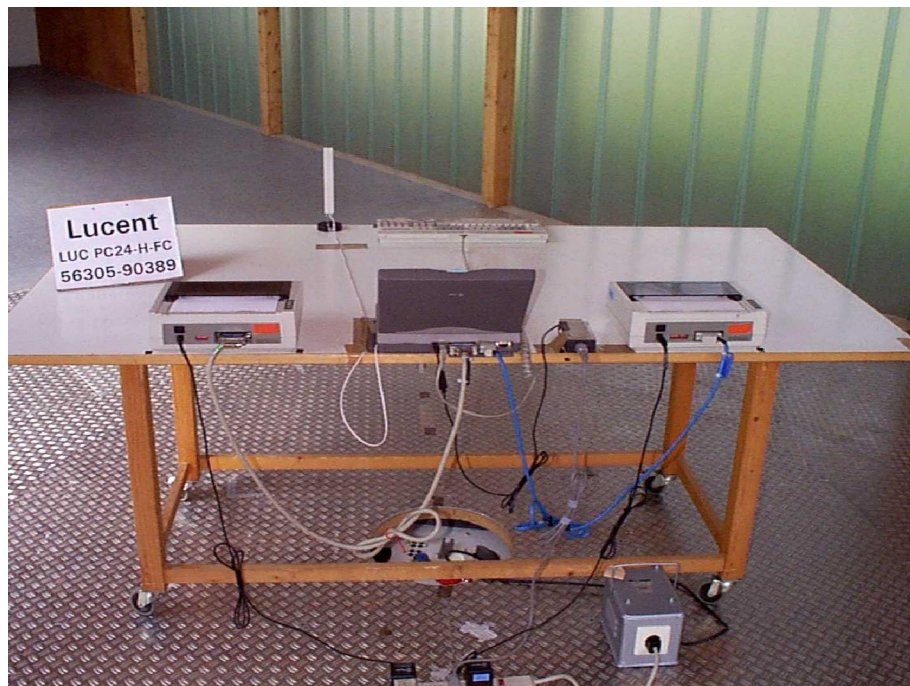
Photos No. 9.1 - 9.2

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



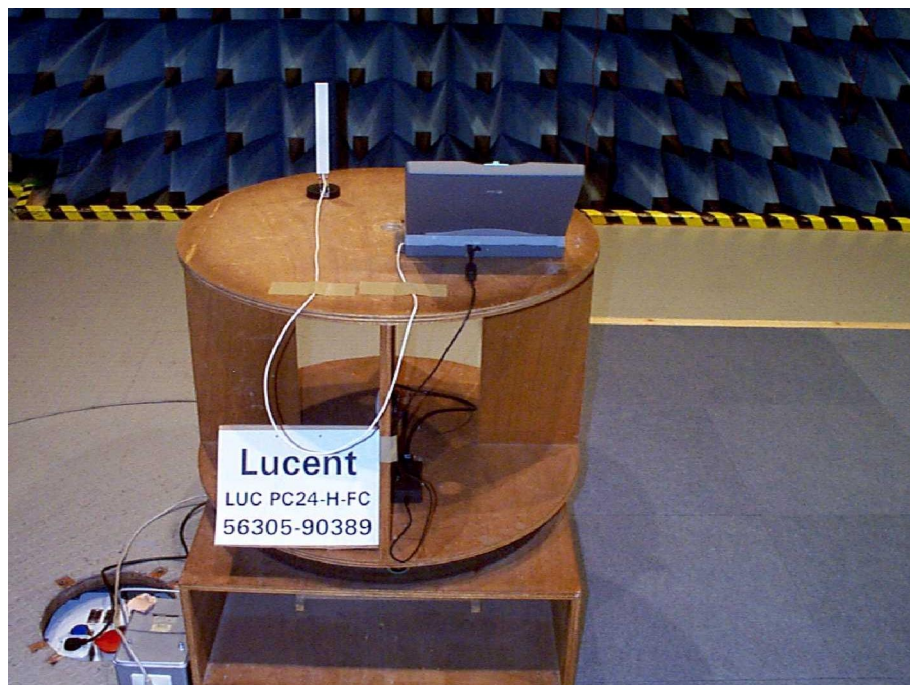
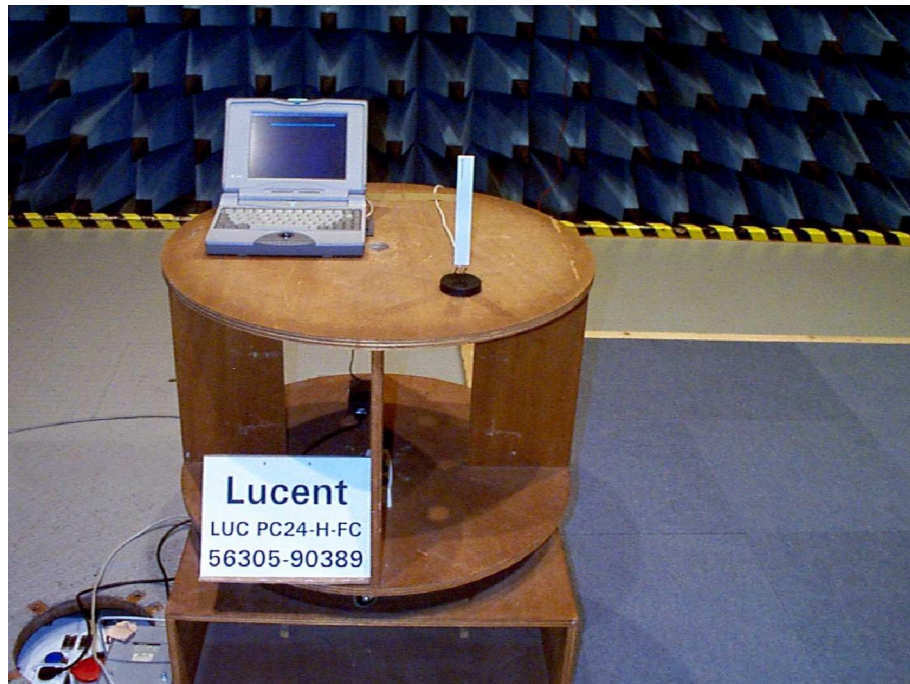
Photos No. 9.3 - 9.4

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



Photos No. 9.5 - 9.6

Test setup for radiated emission test above 1 GHz



10. List of Measurements

FCC Part 15 Subpart C			
Section(s):	Test	Page	Result
	Transmit mode (TX):	23	
§15.247.a2	Minimum 6 dB bandwidth	---	not performed
§15.247.b	Maximum peak output power	24	passed
§15.247.d	Peak power density	---	not performed
§15.247.e	Processing gain	---	test performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	25	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	52	passed
	Receive mode (RX):	70	
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	71	passed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	80	passed

Note 1: Extent of testing was defined by applicant. For full testing of previous version see Senton test report no. 56305-90203-1.

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.

11. Test Results

Test results for
Transmit (TX) mode

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

Model: LUC PC24-H-FC
Type: RF-modem for wireless LAN
Serial No.: 90890026
Applicant: Lucent Technologies Nederland B.V.
Date of test: 03/23/1999
Operator: R. Heller

Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC

- TX mode

Tested on: Antenna connector

Selected bit rate	Operating frequency [GHz]	Power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit [dBm]
2 Mbps	2.412	14.6	0.5	15.1	30
	2.442	14.9	0.5	15.4	30
	2.462	14.9	0.5	15.4	30
5.5 Mbps	2.412	14.7	0.5	15.2	30
	2.442	15.0	0.5	15.5	30
	2.462	15.0	0.5	15.5	30
11 Mbps	2.412	14.6	0.5	15.1	30
	2.442	14.9	0.5	15.4	30
	2.462	14.9	0.5	15.4	30

Result: The limit is kept

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/16/1999 Operator:
R. Heller

Test performed: automatically File name:

Mode:

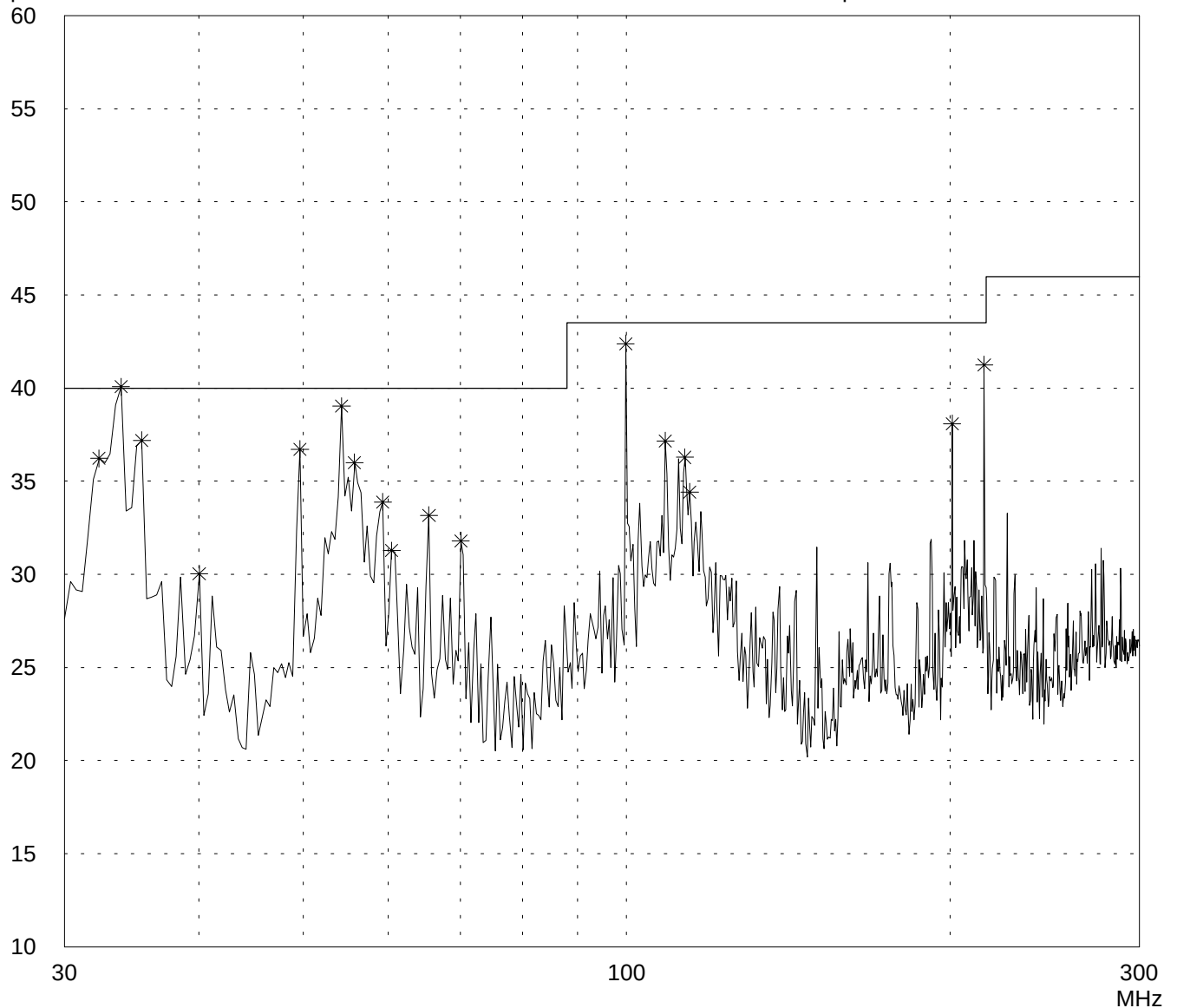
- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

dB μ V/m

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-90389-1

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Radiated Emission Test 300 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/16/1999 Operator: R. Heller

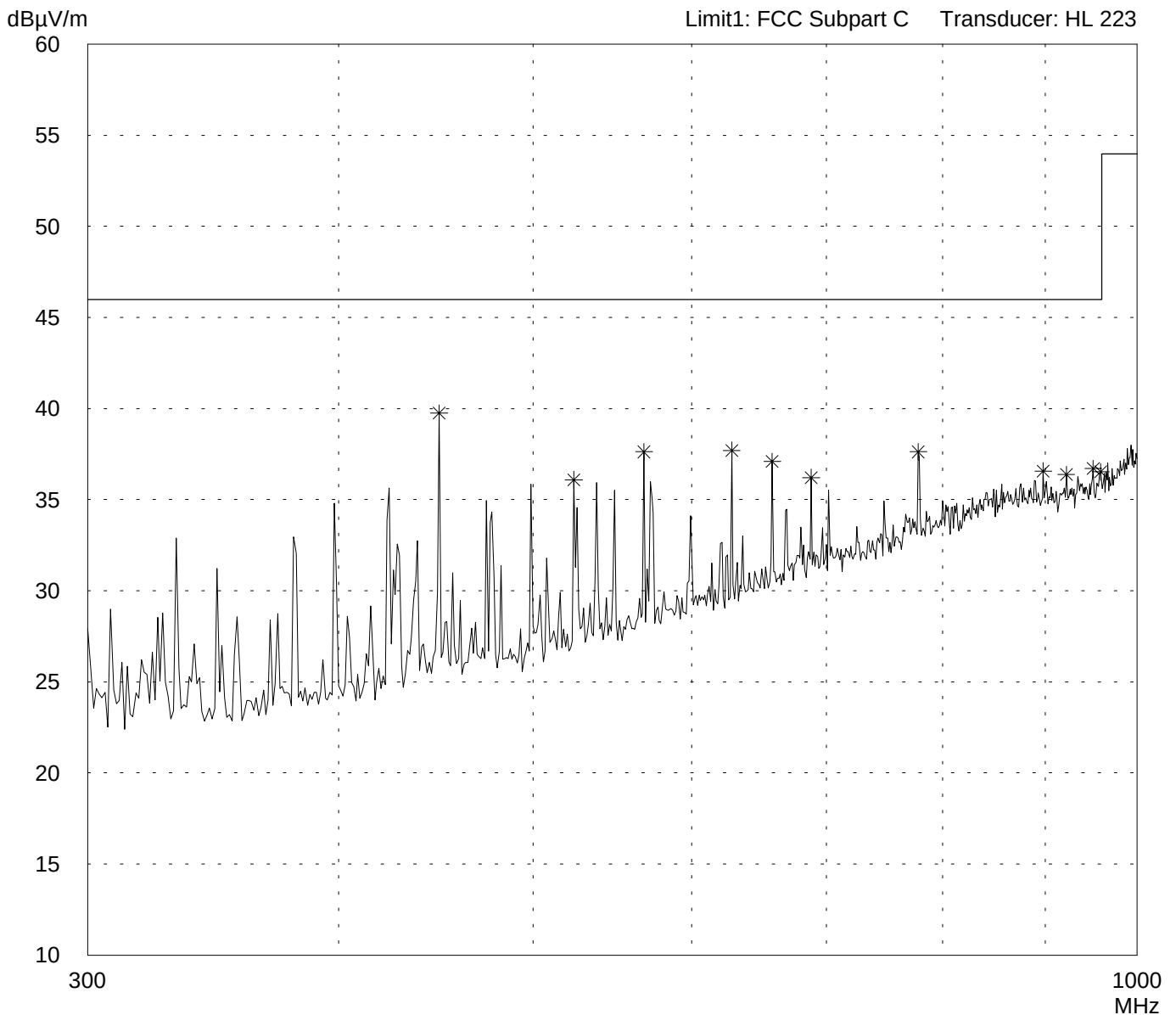
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/16/1999 Operator:
R. Heller

Test performed: automatically File name:

Mode:

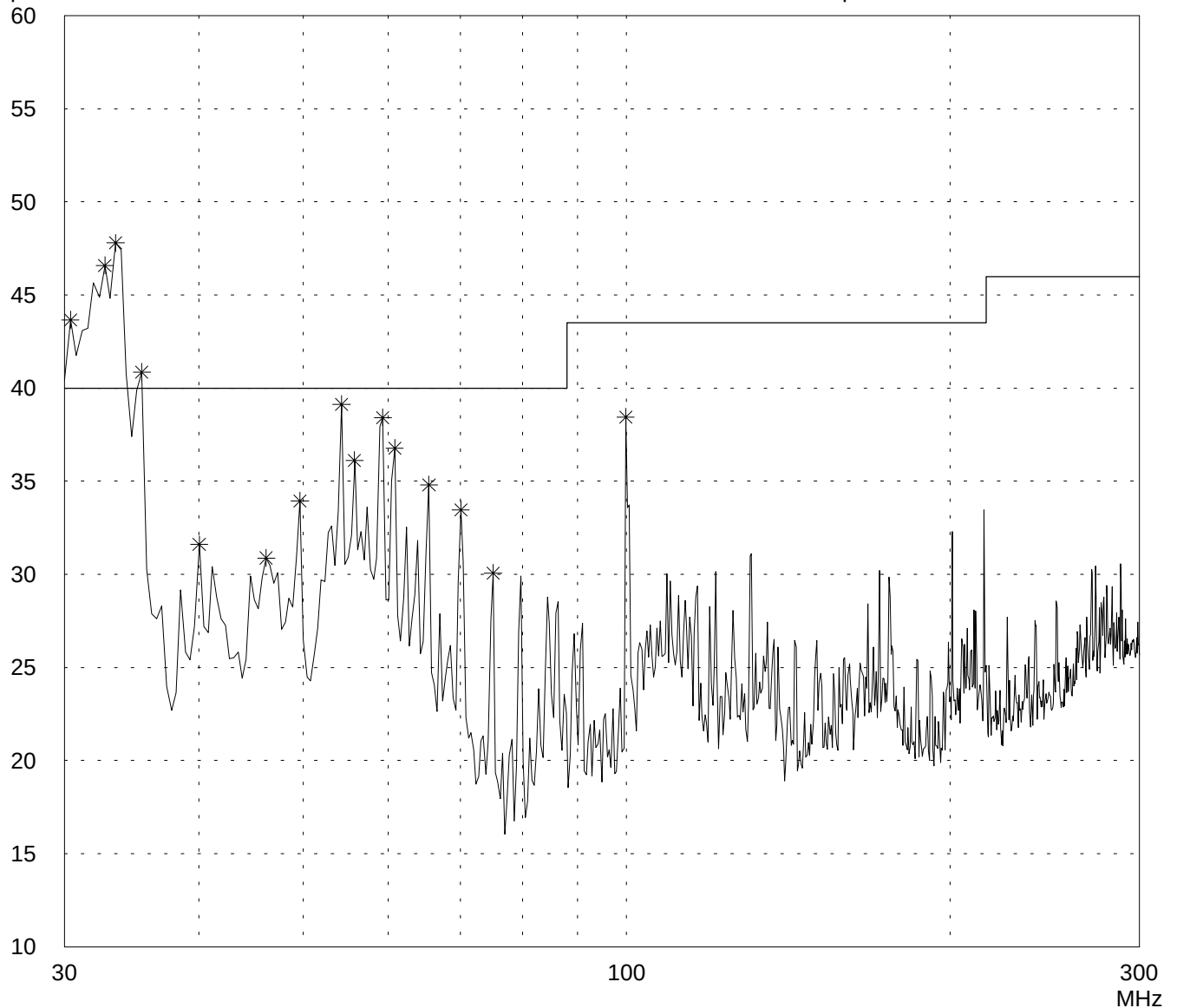
- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

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:
56305-90389-1

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Radiated Emission Test 300 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

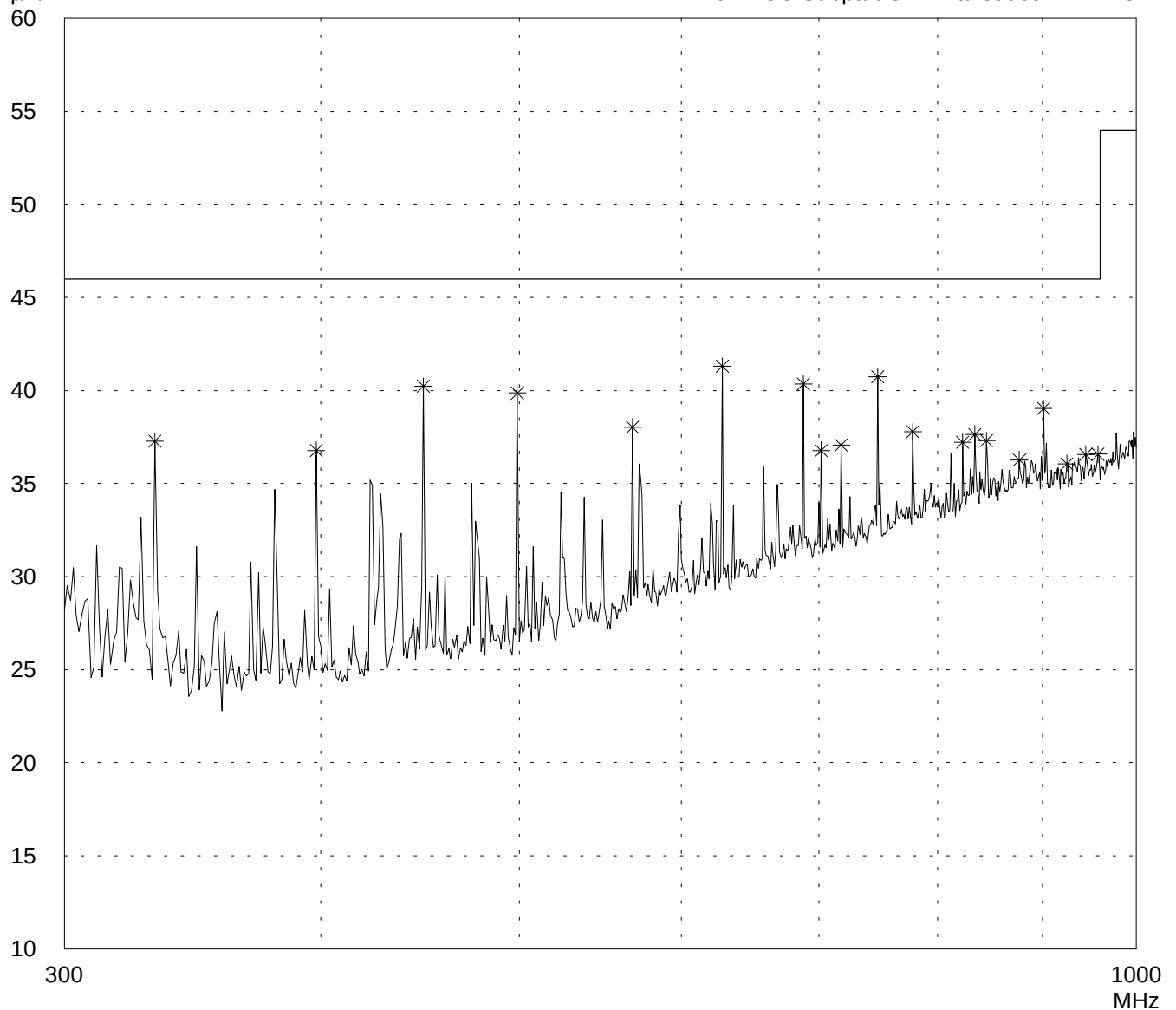
- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

dB μ V/m

Limit1: FCC Subpart C Transducer: HL 223



Result:
Prescan

Project file:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

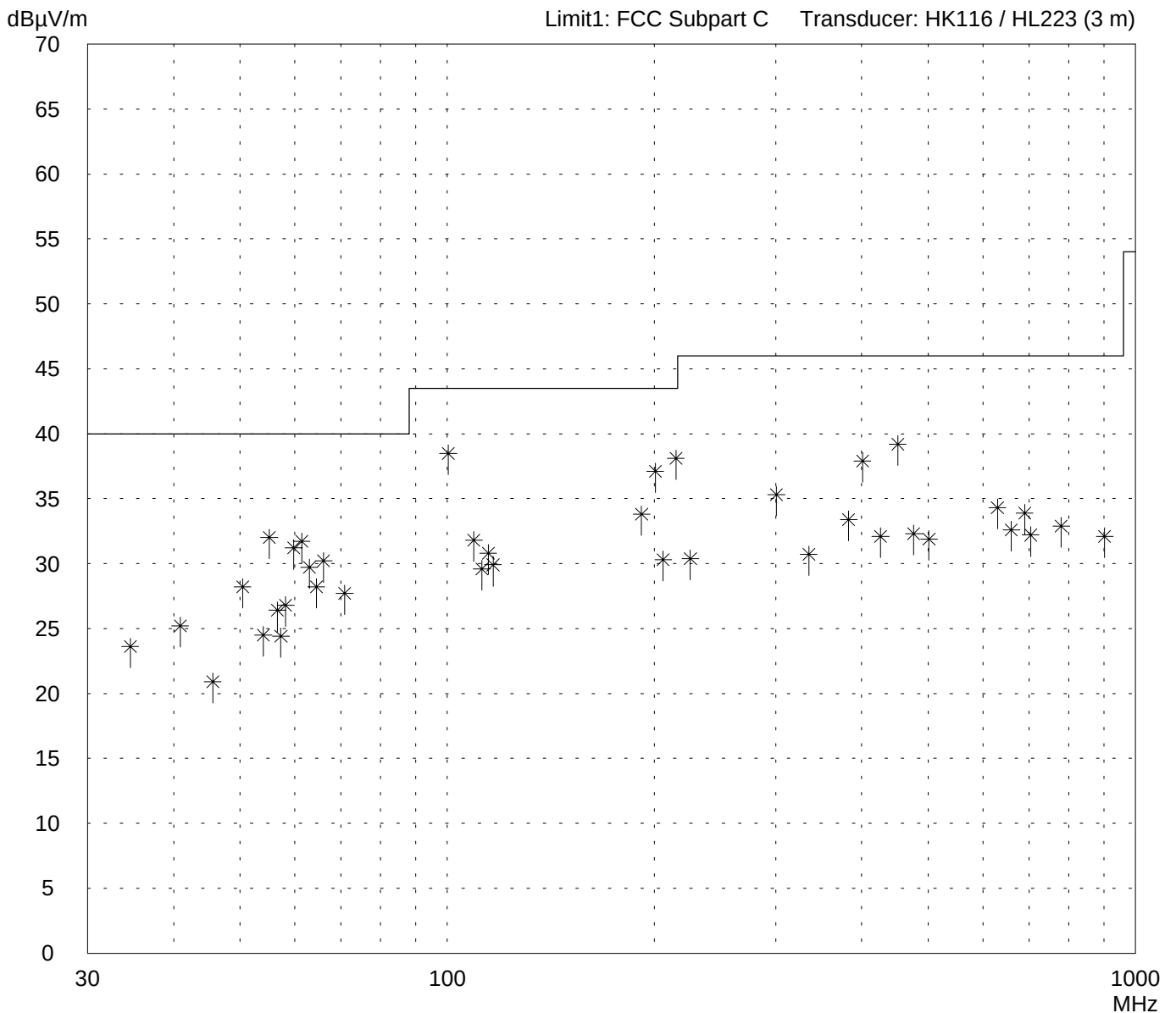
Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	Reading dB μ V	Correction factor dB	Value dB μ V/m	Limit dB μ V/m	Limit exceeded
34.6	10.0	13.6	23.6	40.0	
40.9	13.0	12.2	25.2	40.0	
45.6	9.5	11.4	20.9	40.0	
50.4	17.5	10.7	28.2	40.0	
54.0	14.0	10.5	24.5	40.0	
55.1	21.5	10.5	32.0	40.0	
56.6	16.0	10.4	26.4	40.0	
57.3	14.0	10.4	24.4	40.0	
58.2	16.5	10.3	26.8	40.0	
59.8	21.0	10.2	31.2	40.0	
61.4	21.5	10.2	31.7	40.0	
63.0	19.5	10.2	29.7	40.0	
64.5	18.0	10.2	28.2	40.0	
66.1	20.0	10.2	30.2	40.0	
70.9	17.5	10.2	27.7	40.0	
100.3	27.0	11.5	38.5	43.5	
109.3	19.5	12.3	31.8	43.5	
112.2	17.0	12.6	29.6	43.5	
114.6	18.0	12.8	30.8	43.5	
116.5	17.0	12.9	29.9	43.5	
191.5	17.0	16.8	33.8	43.5	
200.5	20.0	17.1	37.1	43.5	
205.9	13.0	17.3	30.3	43.5	
214.8	20.5	17.6	38.1	43.5	
225.5	12.5	17.9	30.4	46.0	
300.7	18.5	16.8	35.3	46.0	
335.2	12.5	18.2	30.7	46.0	
383.1	13.5	19.9	33.4	46.0	
401.0	17.5	20.4	37.9	46.0	
426.1	11.0	21.1	32.1	46.0	
451.1	17.5	21.7	39.2	46.0	
476.2	10.0	22.3	32.3	46.0	
501.2	9.0	22.9	31.9	46.0	
630.1	8.5	25.8	34.3	46.0	
660.0	6.0	26.6	32.6	46.0	
690.1	6.5	27.4	33.9	46.0	

Result:
Limit kept

Project file:
56305-90389-1

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

Model: LUC PC24-H-FC	Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200 - FCC test setup - supply voltage 115 V AC - with external antenna AIN24-OD-0202 (1.5 m antenna cable) - operating with bit rate 11 Mbps - TX mode with $f = 2.412$ GHz
Serial no.: 92290006	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 06/17/1999	
Test performed: by hand	File name:

Detector: Quasi-Peak	List of values: Selected by hand
-------------------------	-------------------------------------

Frequency MHz	Reading dBμV	Correction factor dB	Value dBμV/m	Limit dBμV/m	Limit exceeded
704.0	4.5	27.7	32.2	46.0	
780.1	4.5	28.4	32.9	46.0	
902.0	1.5	30.6	32.1	46.0	

Result: Limit kept	Project file: 56305-90389-1	Page 31 of 81 Pages
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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/17/1999 Operator:
R. Heller

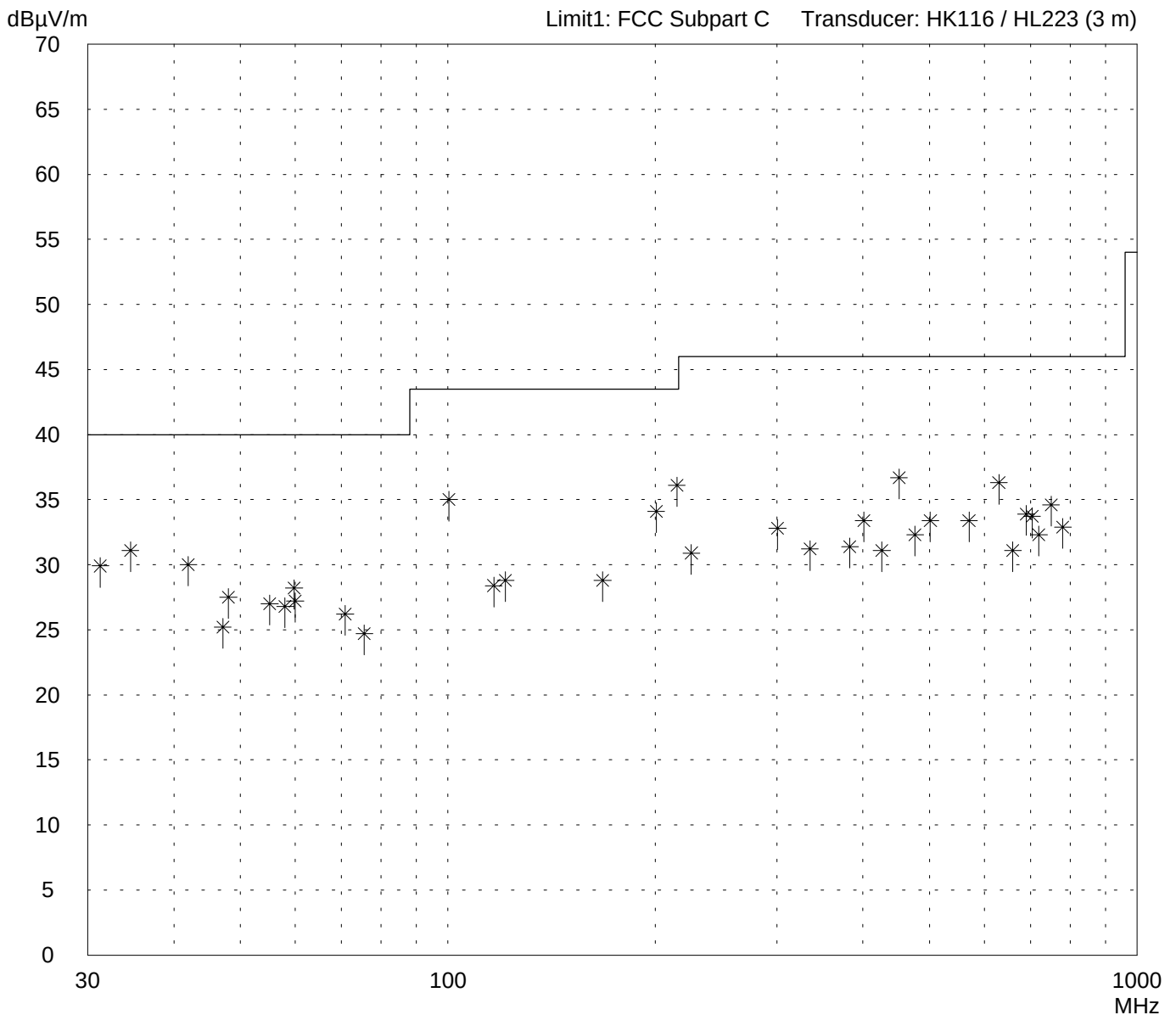
Test performed: by hand File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	Reading dB μ V	Correction factor dB	Value dB μ V/m	Limit dB μ V/m	Limit exceeded
31.3	15.5	14.4	29.9	40.0	
34.6	17.5	13.6	31.1	40.0	
42.0	18.0	12.0	30.0	40.0	
47.1	14.0	11.2	25.2	40.0	
48.0	16.5	11.0	27.5	40.0	
55.1	16.5	10.5	27.0	40.0	
58.0	16.5	10.3	26.8	40.0	
59.8	18.0	10.2	28.2	40.0	
60.0	17.0	10.2	27.2	40.0	
70.9	16.0	10.2	26.2	40.0	
75.6	14.5	10.2	24.7	40.0	
100.3	23.5	11.5	35.0	43.5	
116.5	15.5	12.9	28.4	43.5	
121.2	15.5	13.3	28.8	43.5	
167.6	13.0	15.8	28.8	43.5	
200.5	17.0	17.1	34.1	43.5	
214.8	18.5	17.6	36.1	43.5	
225.5	13.0	17.9	30.9	46.0	
300.7	16.0	16.8	32.8	46.0	
335.2	13.0	18.2	31.2	46.0	
383.1	11.5	19.9	31.4	46.0	
401.0	13.0	20.4	33.4	46.0	
426.0	10.0	21.1	31.1	46.0	
451.1	15.0	21.7	36.7	46.0	
476.2	10.0	22.3	32.3	46.0	
501.2	10.5	22.9	33.4	46.0	
570.1	9.0	24.4	33.4	46.0	
630.1	10.5	25.8	36.3	46.0	
660.0	4.5	26.6	31.1	46.0	
690.1	6.5	27.4	33.9	46.0	
704.0	6.0	27.7	33.7	46.0	
720.1	4.5	27.8	32.3	46.0	
750.1	6.5	28.1	34.6	46.0	
780.1	4.5	28.4	32.9	46.0	

Result:
Limit kept

Project file:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/16/1999 Operator: R. Heller

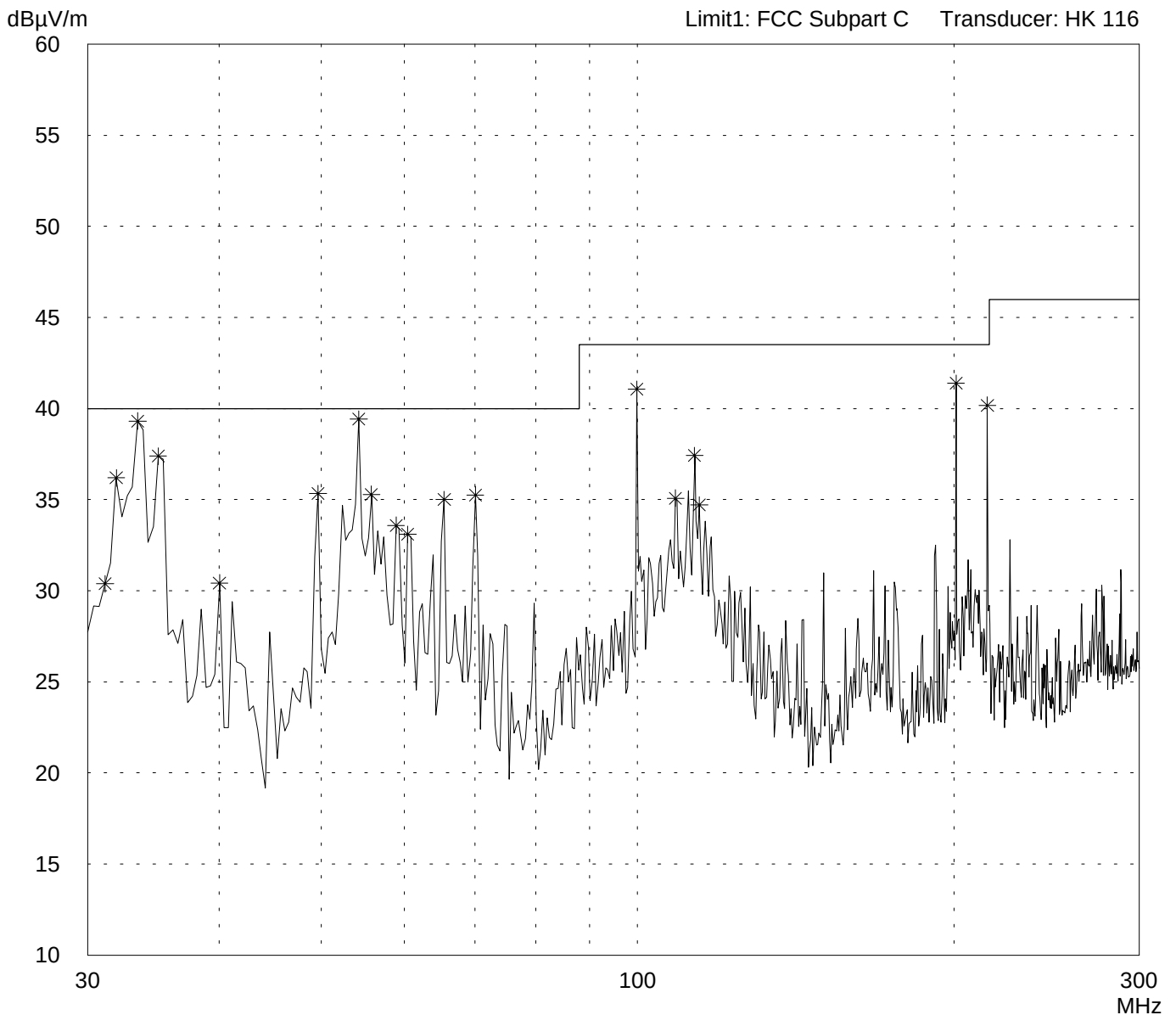
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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Radiated Emission Test 300 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/16/1999 Operator: R. Heller

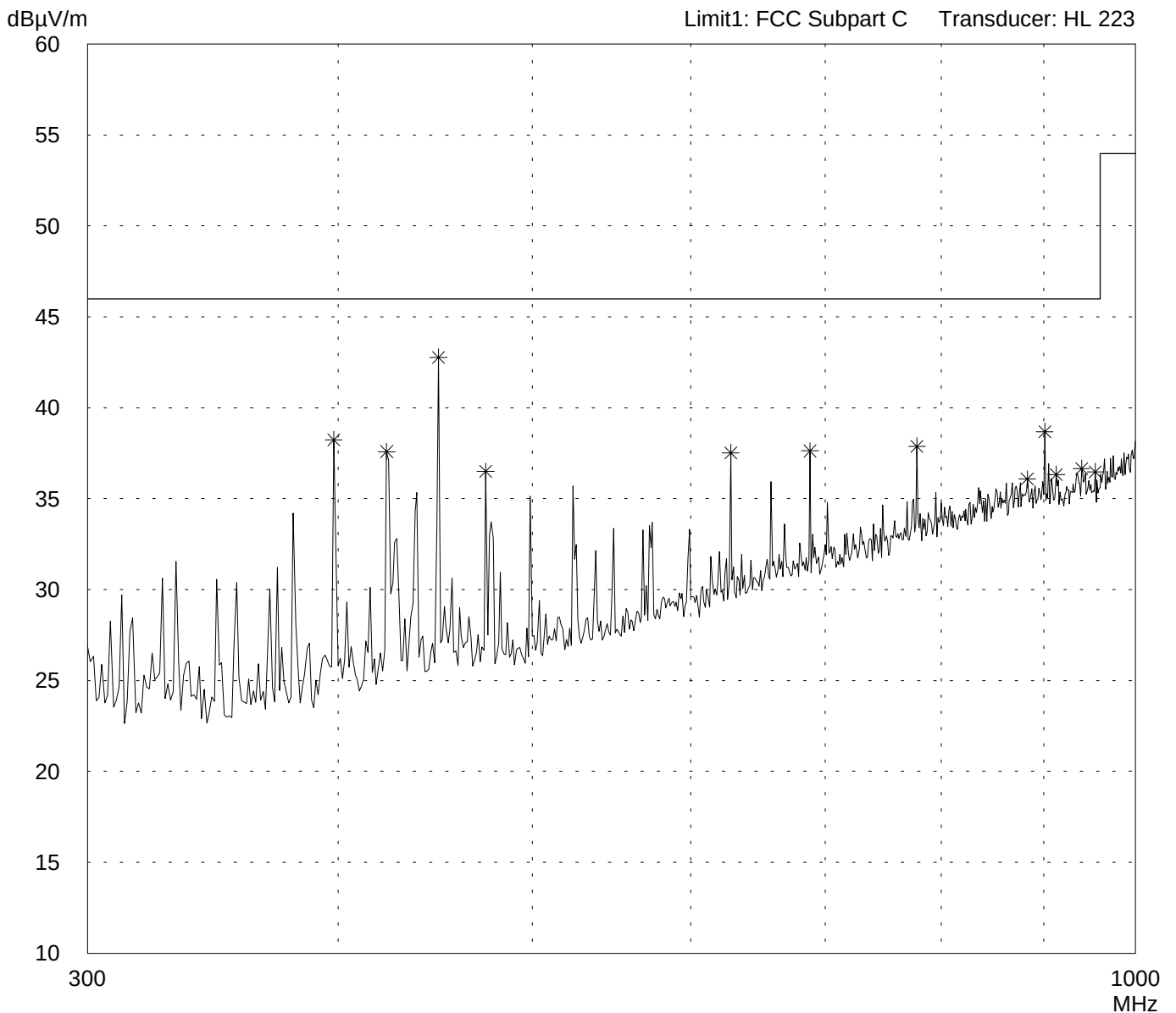
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/16/1999 Operator: R. Heller

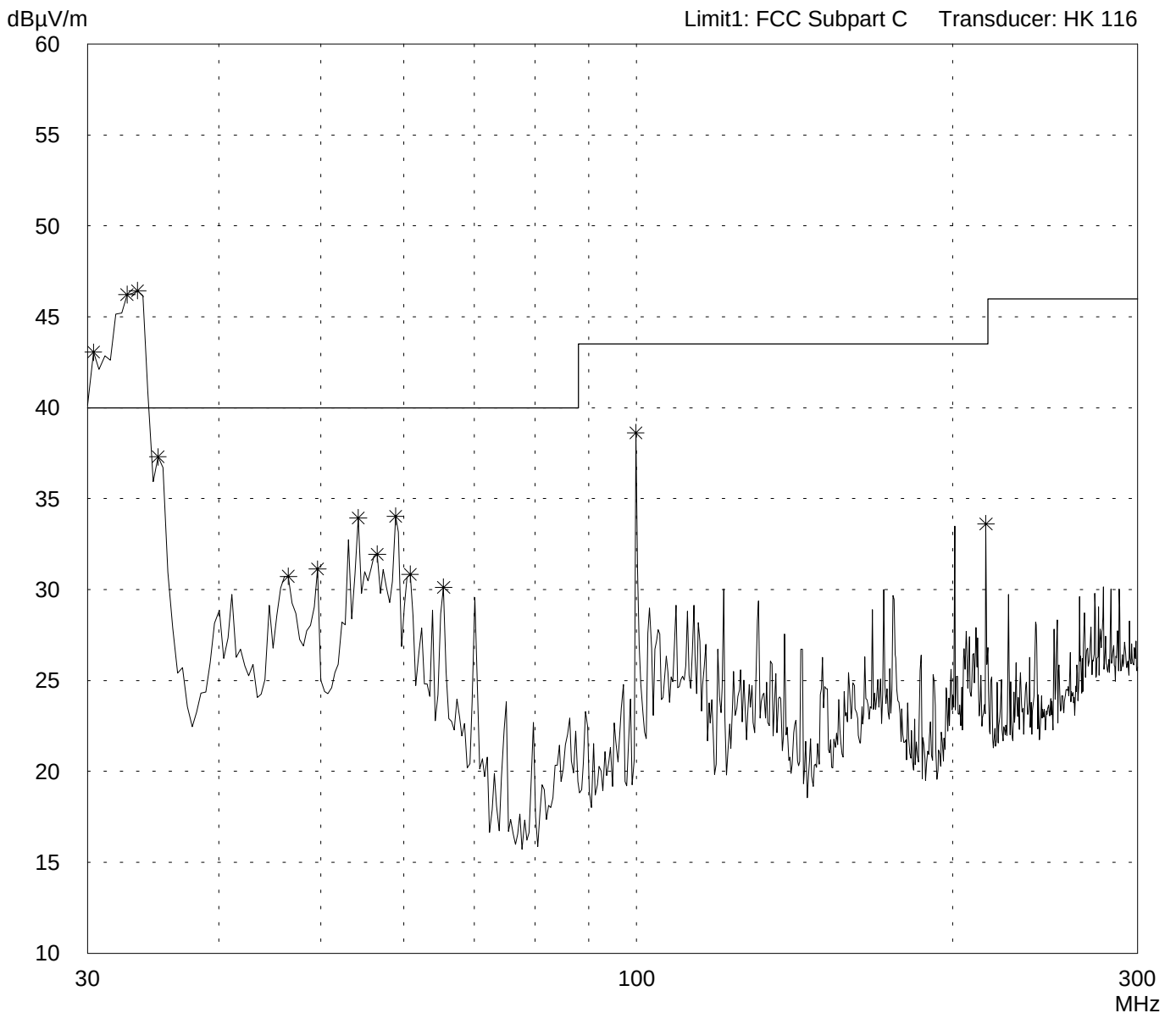
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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Radiated Emission Test 300 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/16/1999 Operator: R. Heller

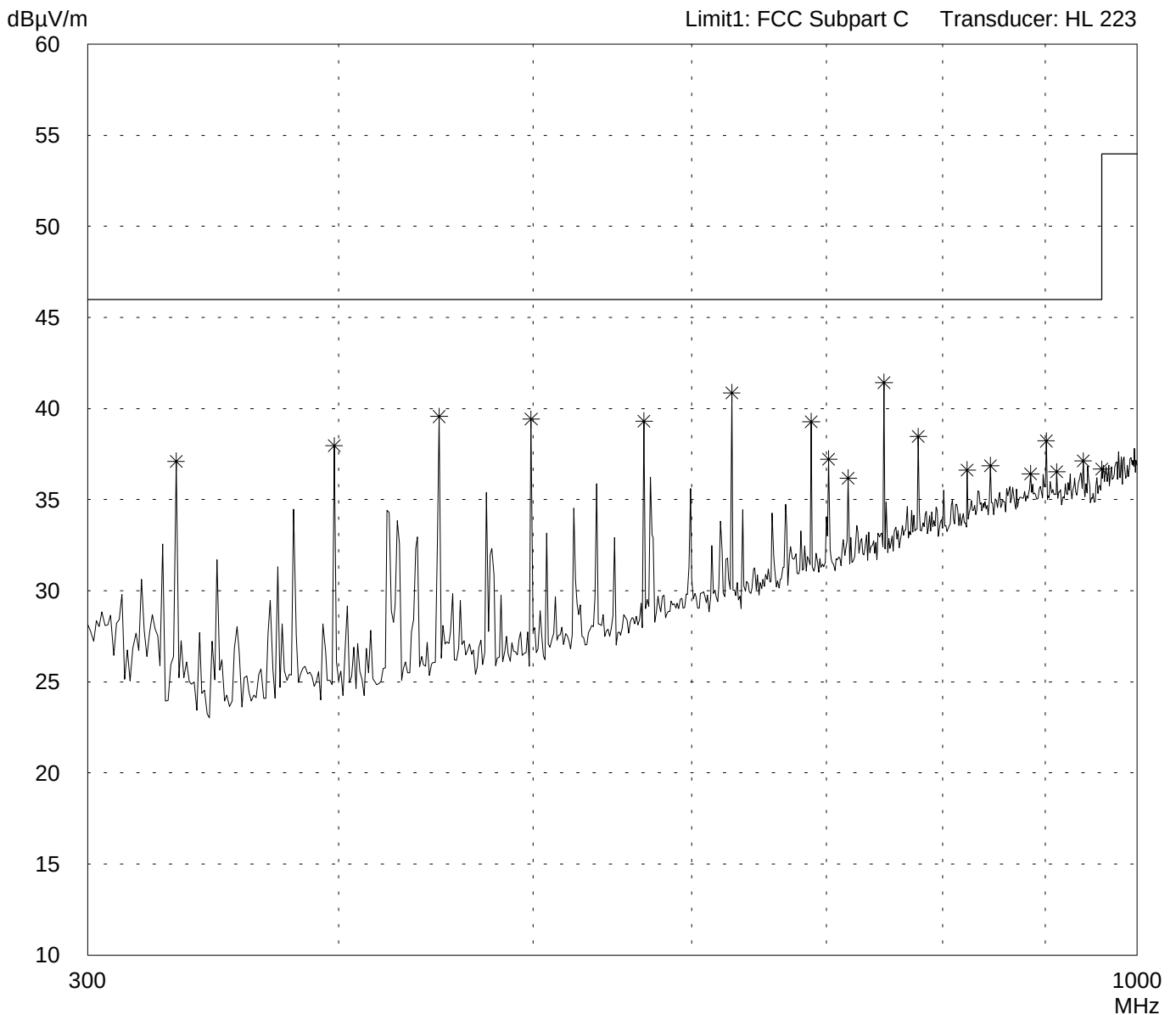
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/17/1999 Operator:
R. Heller

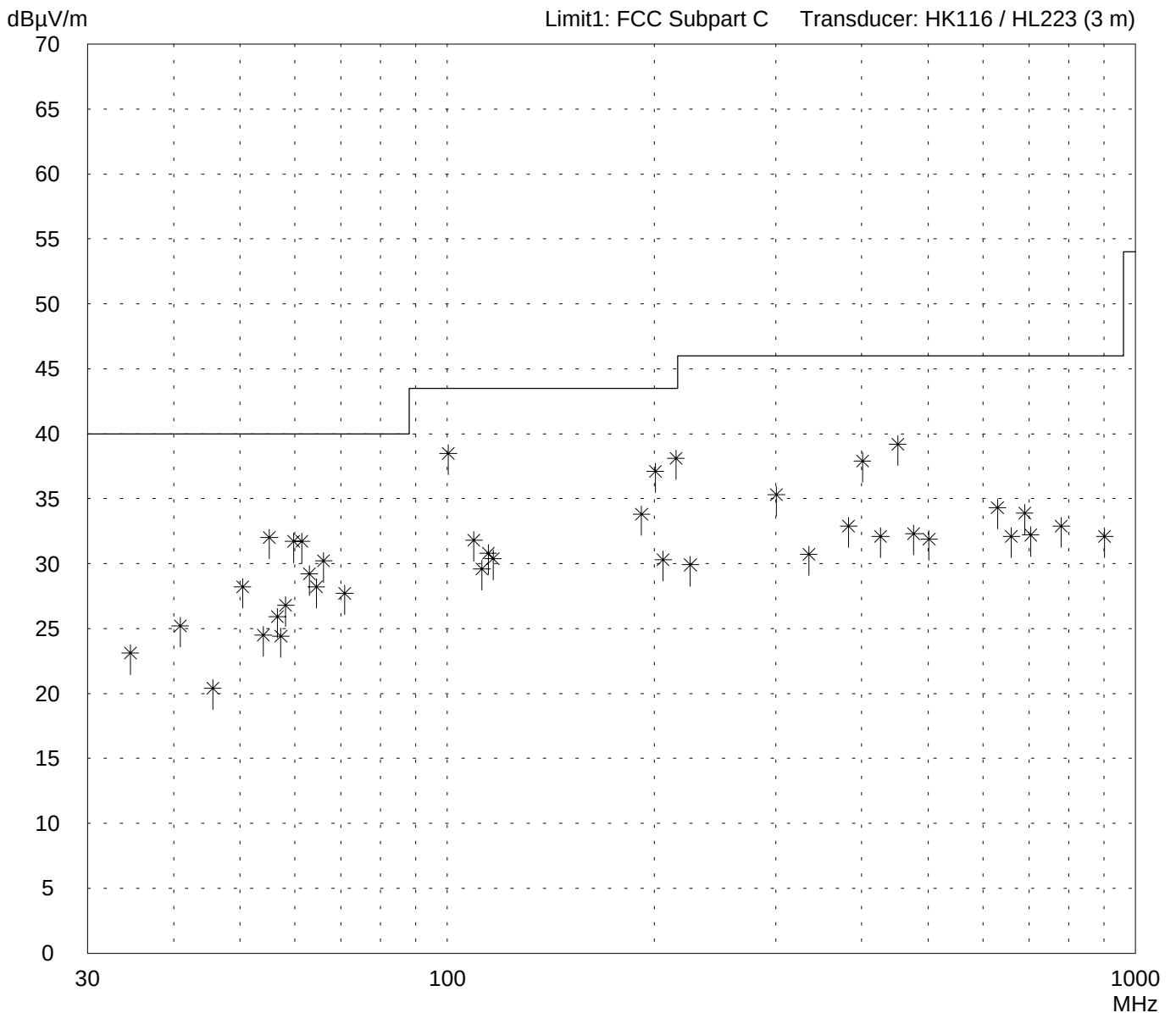
Test performed: by hand File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	Reading dB μ V	Correction factor dB	Value dB μ V/m	Limit dB μ V/m	Limit exceeded
34.6	9.5	13.6	23.1	40.0	
40.9	13.0	12.2	25.2	40.0	
45.6	9.0	11.4	20.4	40.0	
50.4	17.5	10.7	28.2	40.0	
54.0	14.0	10.5	24.5	40.0	
55.1	21.5	10.5	32.0	40.0	
56.6	15.5	10.4	25.9	40.0	
57.3	14.0	10.4	24.4	40.0	
58.2	16.5	10.3	26.8	40.0	
59.8	21.5	10.2	31.7	40.0	
61.4	21.5	10.2	31.7	40.0	
63.0	19.0	10.2	29.2	40.0	
64.5	18.0	10.2	28.2	40.0	
66.1	20.0	10.2	30.2	40.0	
70.9	17.5	10.2	27.7	40.0	
100.3	27.0	11.5	38.5	43.5	
109.3	19.5	12.3	31.8	43.5	
112.2	17.0	12.6	29.6	43.5	
114.6	18.0	12.8	30.8	43.5	
116.5	17.5	12.9	30.4	43.5	
191.5	17.0	16.8	33.8	43.5	
200.5	20.0	17.1	37.1	43.5	
205.9	13.0	17.3	30.3	43.5	
214.8	20.5	17.6	38.1	43.5	
225.5	12.0	17.9	29.9	46.0	
300.7	18.5	16.8	35.3	46.0	
335.2	12.5	18.2	30.7	46.0	
383.1	13.0	19.9	32.9	46.0	
401.0	17.5	20.4	37.9	46.0	
426.1	11.0	21.1	32.1	46.0	
451.1	17.5	21.7	39.2	46.0	
476.2	10.0	22.3	32.3	46.0	
501.2	9.0	22.9	31.9	46.0	
630.1	8.5	25.8	34.3	46.0	
660.0	5.5	26.6	32.1	46.0	
690.1	6.5	27.4	33.9	46.0	

Result:
Limit kept

Project file:
56305-90389-1

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

Model: LUC PC24-H-FC	Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200 - FCC test setup - supply voltage 115 V AC - with external antenna AIN24-OD-0202 (1.5 m antenna cable) - operating with bit rate 11 Mbps - TX mode with $f = 2.442$ GHz
Serial no.: 92290006	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 06/17/1999	
Test performed: by hand	File name:

Detector: Quasi-Peak	List of values: Selected by hand
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Frequency MHz	Reading dBμV	Correction factor dB	Value dBμV/m	Limit dBμV/m	Limit exceeded
704.0	4.5	27.7	32.2	46.0	
780.1	4.5	28.4	32.9	46.0	
902.0	1.5	30.6	32.1	46.0	

Result: Limit kept	Project file: 56305-90389-1	Page 40 of 81 Pages
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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/17/1999 Operator:
R. Heller

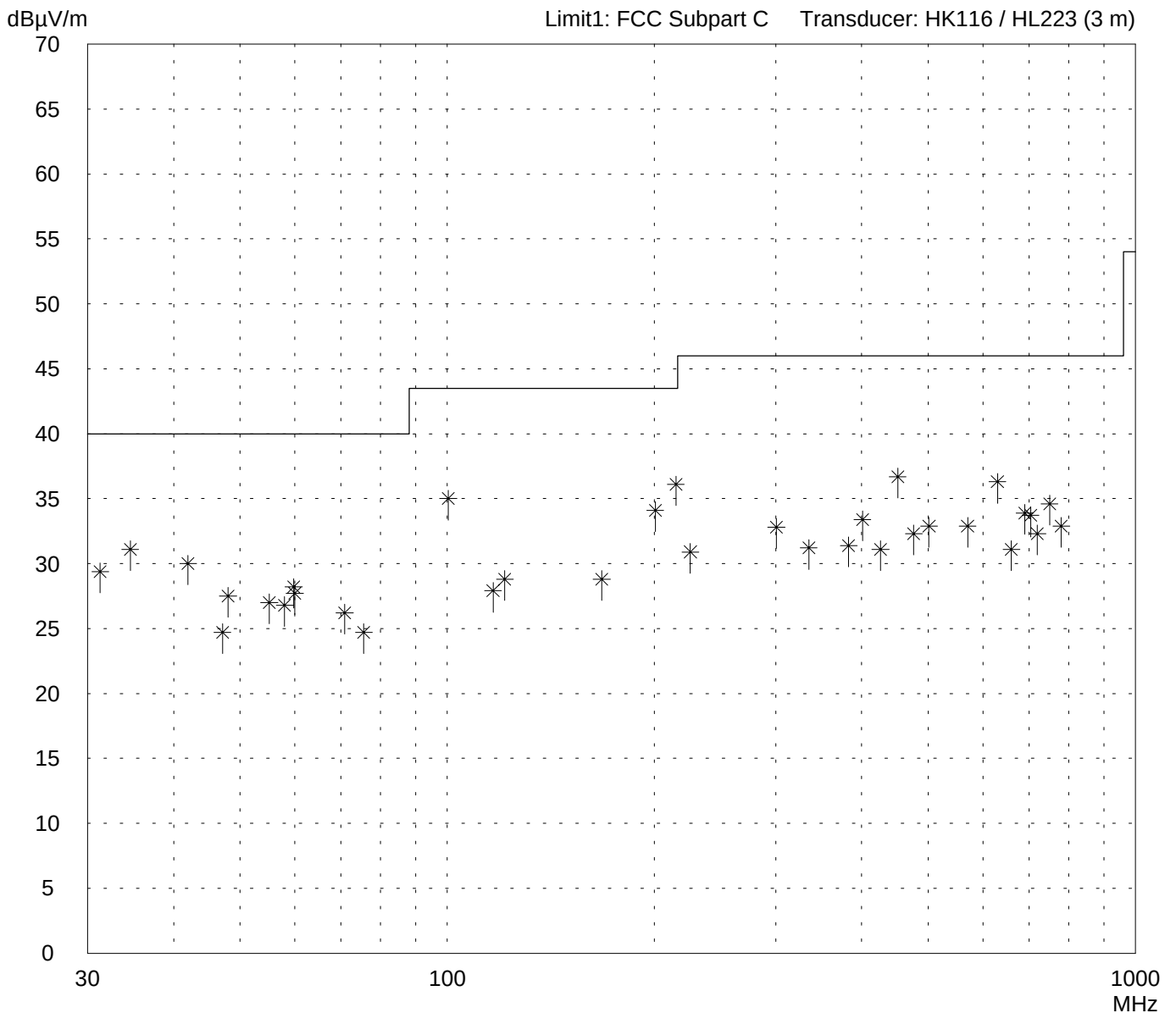
Test performed: by hand File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	Reading dB μ V	Correction factor dB	Value dB μ V/m	Limit dB μ V/m	Limit exceeded
31.3	15.0	14.4	29.4	40.0	
34.6	17.5	13.6	31.1	40.0	
42.0	18.0	12.0	30.0	40.0	
47.1	13.5	11.2	24.7	40.0	
48.0	16.5	11.0	27.5	40.0	
55.1	16.5	10.5	27.0	40.0	
58.0	16.5	10.3	26.8	40.0	
59.8	18.0	10.2	28.2	40.0	
60.0	17.5	10.2	27.7	40.0	
70.9	16.0	10.2	26.2	40.0	
75.6	14.5	10.2	24.7	40.0	
100.3	23.5	11.5	35.0	43.5	
116.5	15.0	12.9	27.9	43.5	
121.2	15.5	13.3	28.8	43.5	
167.6	13.0	15.8	28.8	43.5	
200.5	17.0	17.1	34.1	43.5	
214.8	18.5	17.6	36.1	43.5	
225.5	13.0	17.9	30.9	46.0	
300.7	16.0	16.8	32.8	46.0	
335.2	13.0	18.2	31.2	46.0	
383.1	11.5	19.9	31.4	46.0	
401.0	13.0	20.4	33.4	46.0	
426.0	10.0	21.1	31.1	46.0	
451.1	15.0	21.7	36.7	46.0	
476.2	10.0	22.3	32.3	46.0	
501.2	10.0	22.9	32.9	46.0	
570.1	8.5	24.4	32.9	46.0	
630.1	10.5	25.8	36.3	46.0	
660.0	4.5	26.6	31.1	46.0	
690.1	6.5	27.4	33.9	46.0	
704.0	6.0	27.7	33.7	46.0	
720.1	4.5	27.8	32.3	46.0	
750.1	6.5	28.1	34.6	46.0	
780.1	4.5	28.4	32.9	46.0	

Result:
Limit kept

Project file:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/16/1999 Operator:
R. Heller

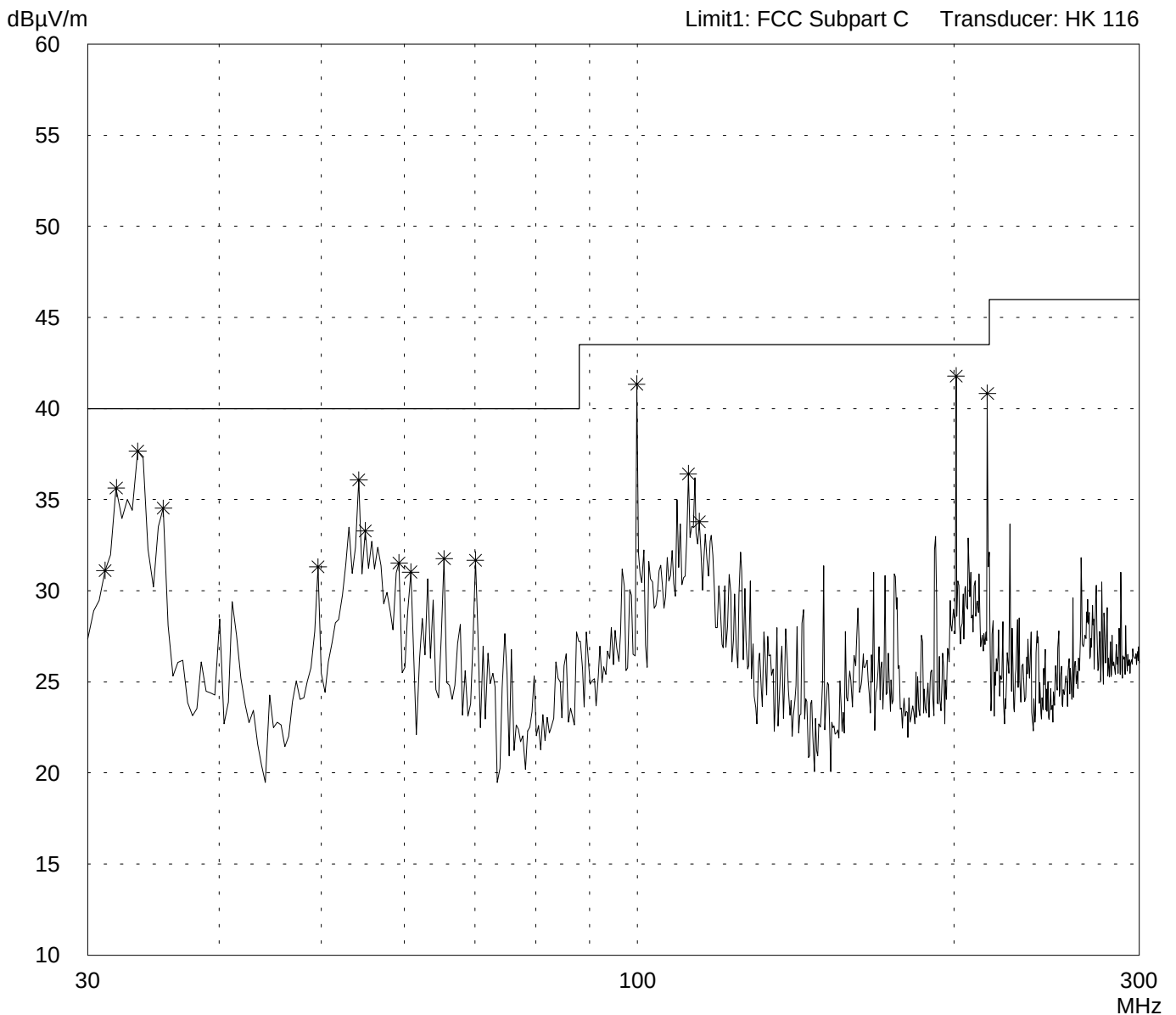
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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Radiated Emission Test 300 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/16/1999 Operator: R. Heller

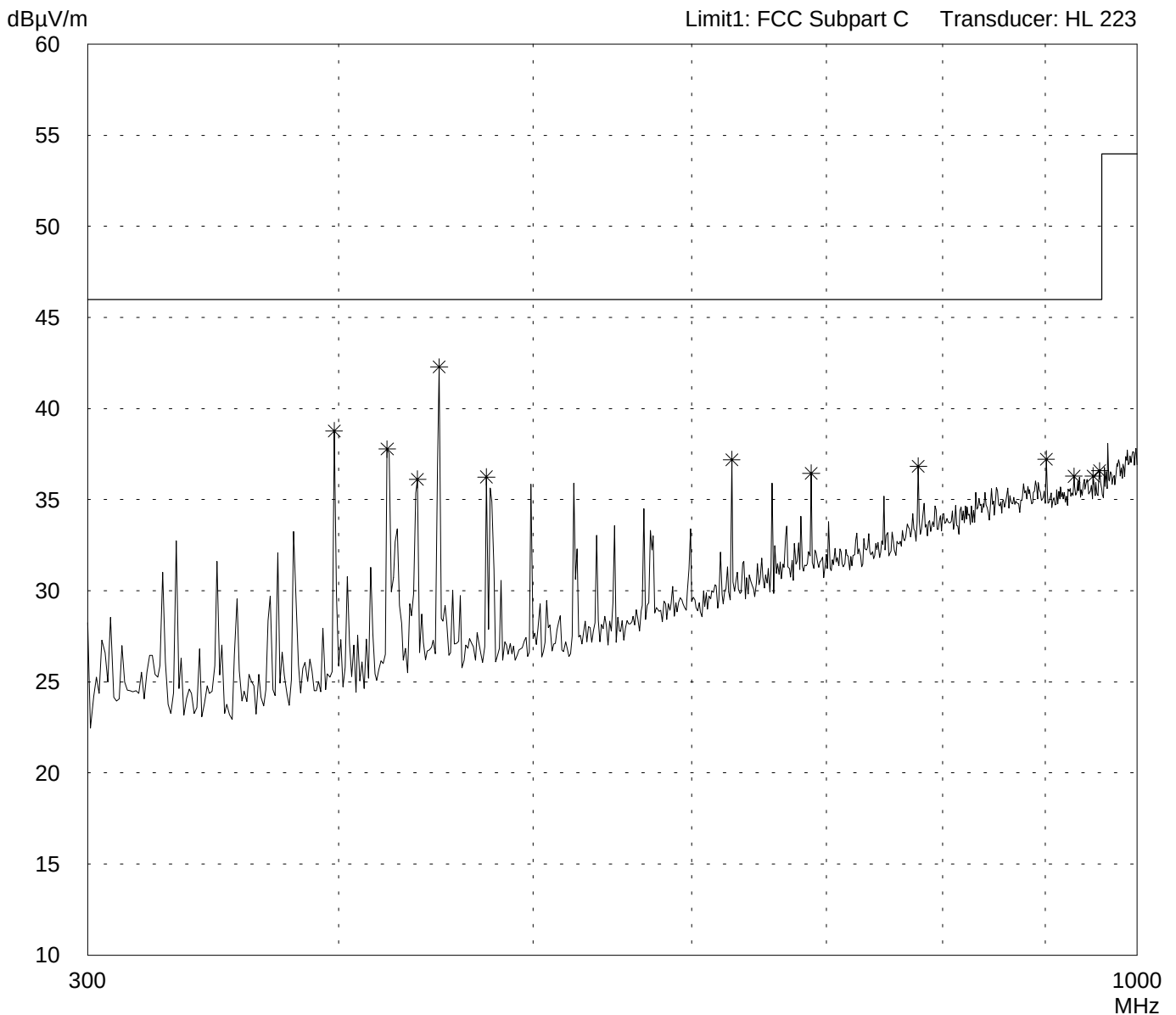
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/16/1999 Operator:
R. Heller

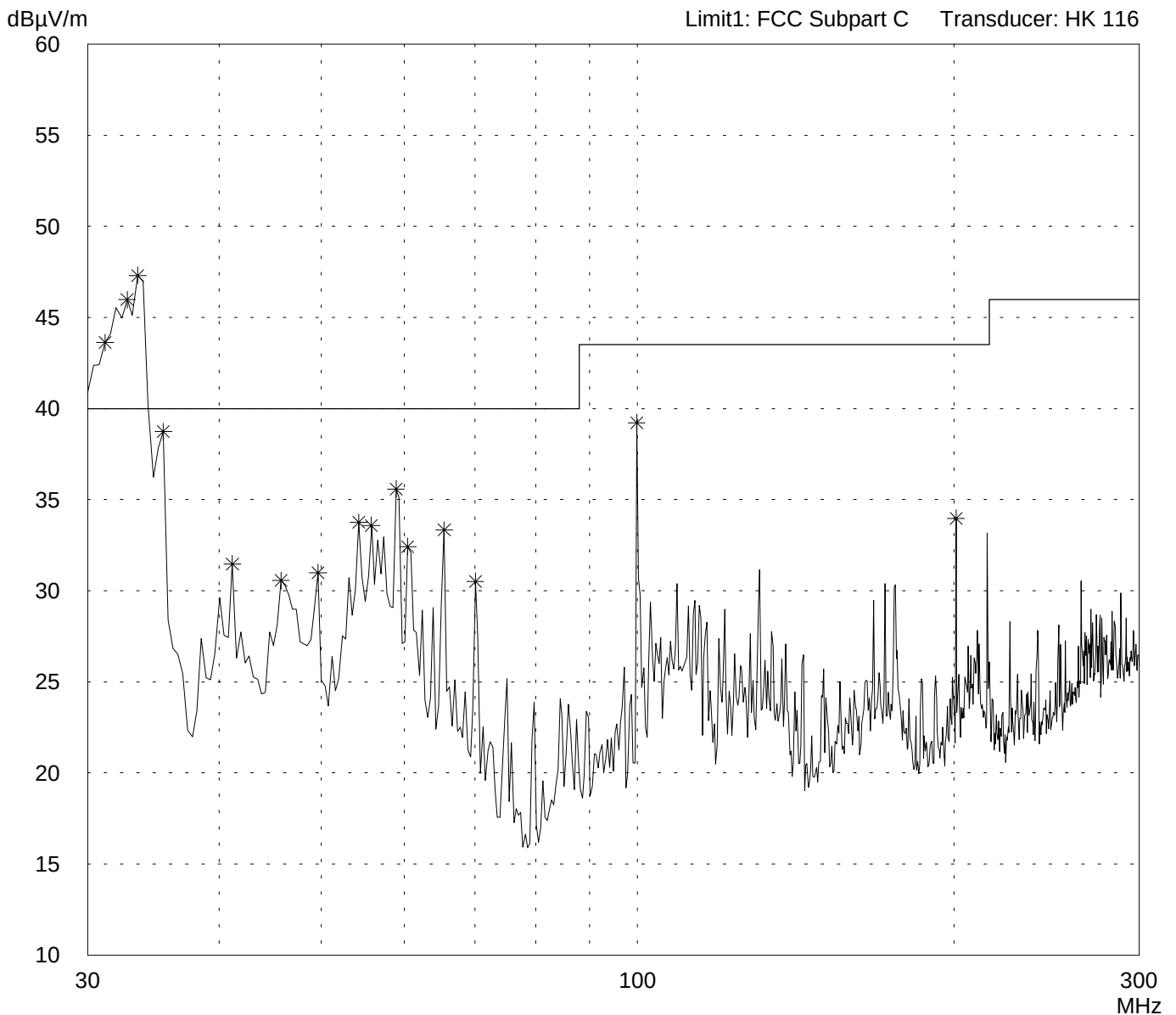
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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Radiated Emission Test 300 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/16/1999 Operator: R. Heller

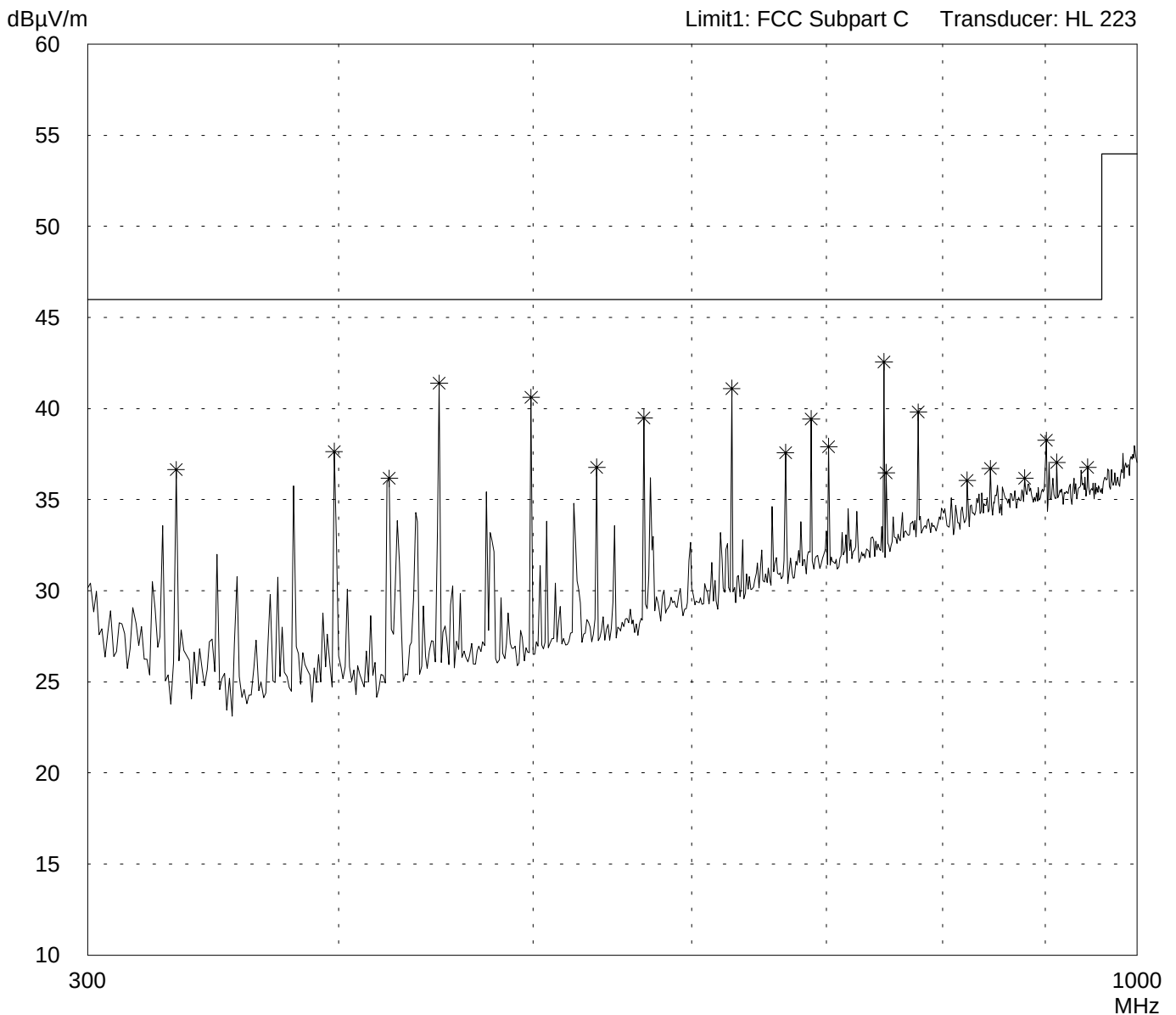
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

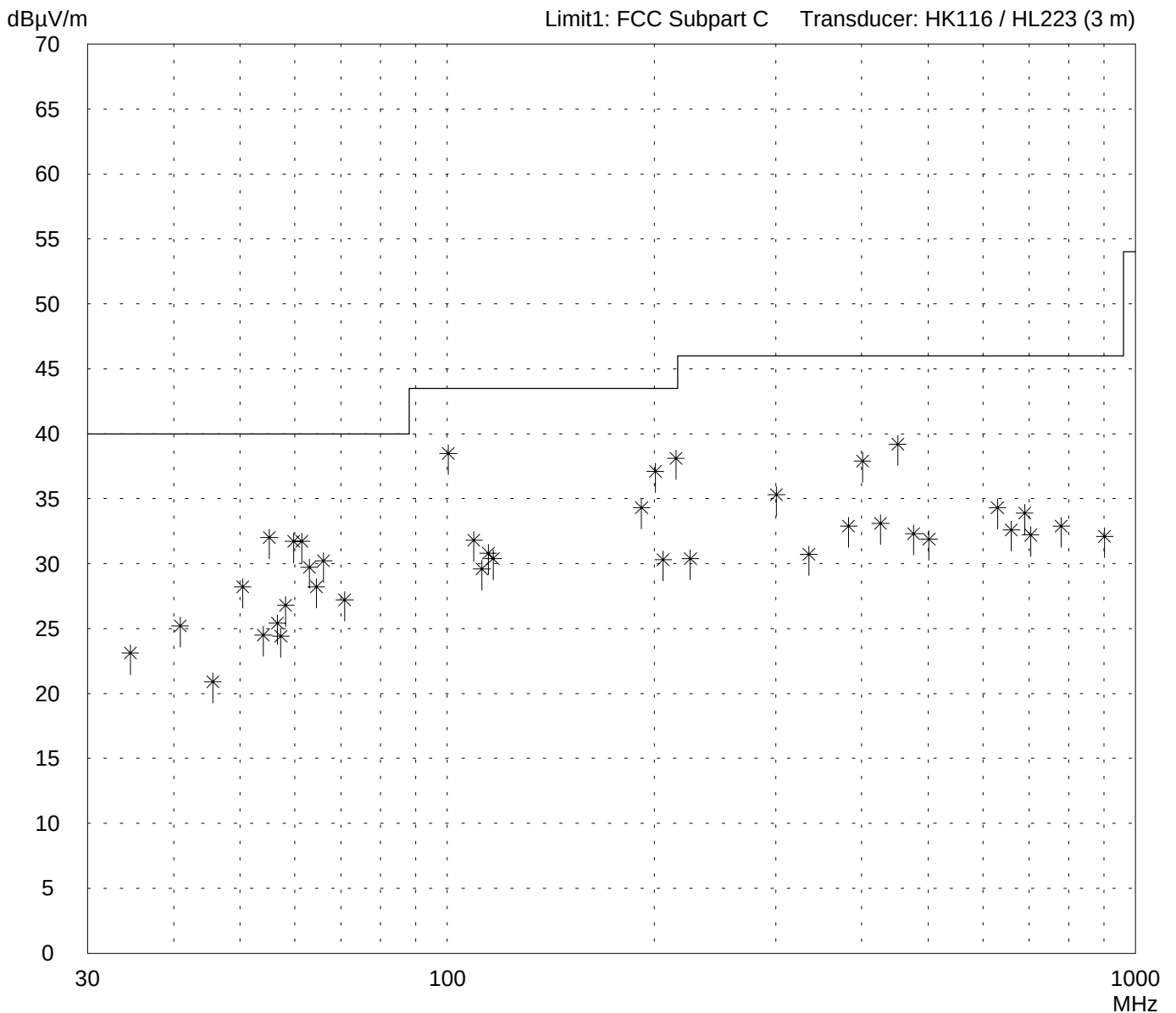
Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	Reading dB μ V	Correction factor dB	Value dB μ V/m	Limit dB μ V/m	Limit exceeded
34.6	9.5	13.6	23.1	40.0	
40.9	13.0	12.2	25.2	40.0	
45.6	9.5	11.4	20.9	40.0	
50.4	17.5	10.7	28.2	40.0	
54.0	14.0	10.5	24.5	40.0	
55.1	21.5	10.5	32.0	40.0	
56.6	15.0	10.4	25.4	40.0	
57.3	14.0	10.4	24.4	40.0	
58.2	16.5	10.3	26.8	40.0	
59.8	21.5	10.2	31.7	40.0	
61.4	21.5	10.2	31.7	40.0	
63.0	19.5	10.2	29.7	40.0	
64.5	18.0	10.2	28.2	40.0	
66.1	20.0	10.2	30.2	40.0	
70.9	17.0	10.2	27.2	40.0	
100.3	27.0	11.5	38.5	43.5	
109.3	19.5	12.3	31.8	43.5	
112.2	17.0	12.6	29.6	43.5	
114.6	18.0	12.8	30.8	43.5	
116.5	17.5	12.9	30.4	43.5	
191.5	17.5	16.8	34.3	43.5	
200.5	20.0	17.1	37.1	43.5	
205.9	13.0	17.3	30.3	43.5	
214.8	20.5	17.6	38.1	43.5	
225.5	12.5	17.9	30.4	46.0	
300.7	18.5	16.8	35.3	46.0	
335.2	12.5	18.2	30.7	46.0	
383.1	13.0	19.9	32.9	46.0	
401.0	17.5	20.4	37.9	46.0	
426.1	12.0	21.1	33.1	46.0	
451.1	17.5	21.7	39.2	46.0	
476.2	10.0	22.3	32.3	46.0	
501.2	9.0	22.9	31.9	46.0	
630.1	8.5	25.8	34.3	46.0	
660.0	6.0	26.6	32.6	46.0	
690.1	6.5	27.4	33.9	46.0	

Result:
Limit kept

Project file:
56305-90389-1

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

Model: LUC PC24-H-FC	Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200 - FCC test setup - supply voltage 115 V AC - with external antenna AIN24-OD-0202 (1.5 m antenna cable) - operating with bit rate 11 Mbps - TX mode with $f = 2.462$ GHz
Serial no.: 92290006	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 06/17/1999	
Test performed: by hand	File name:

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

Result: Limit kept	Project file: 56305-90389-1	Page 49 of 81 Pages
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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/17/1999 Operator:
R. Heller

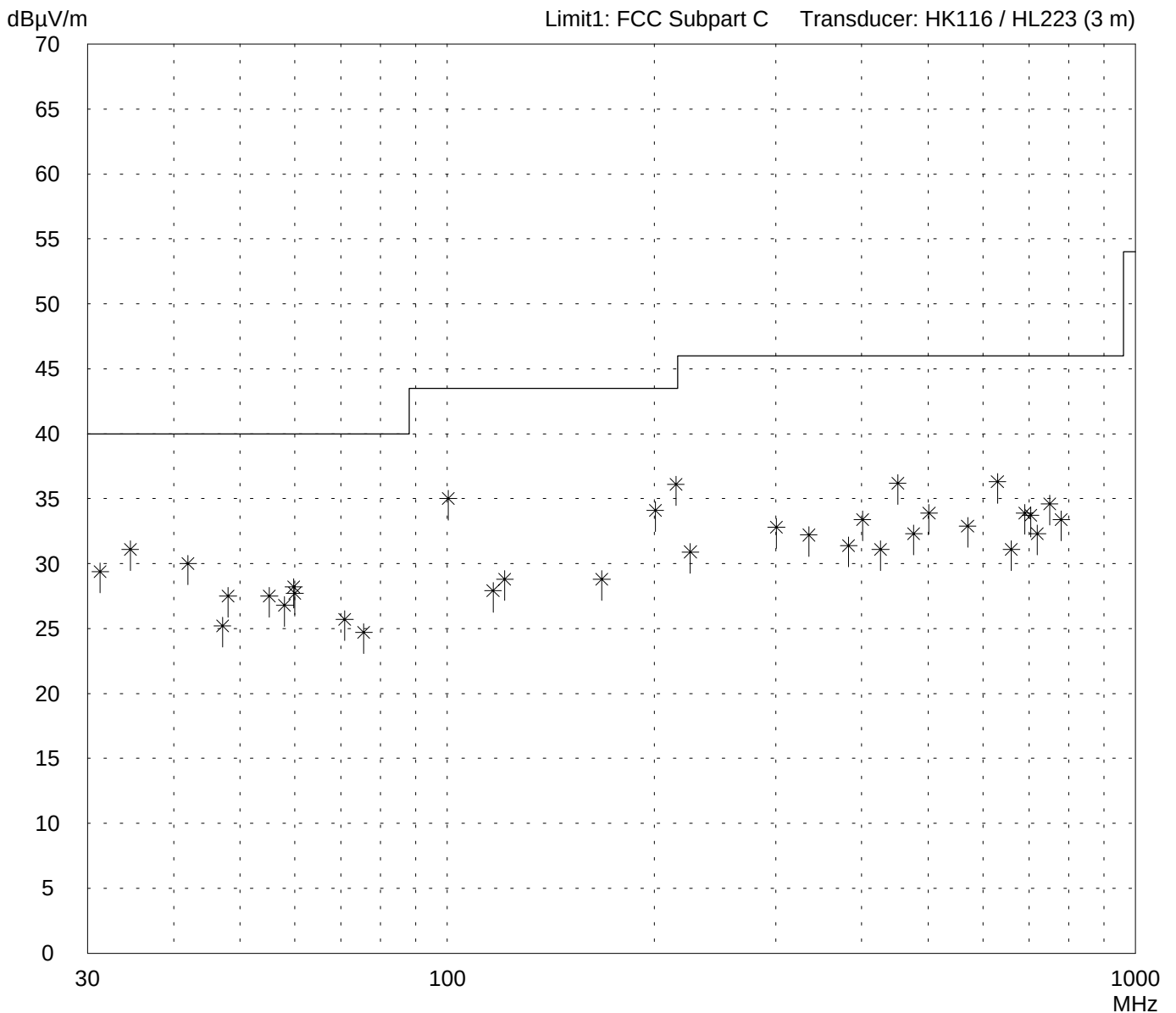
Test performed: by hand File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- 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:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	Reading dB μ V	Correction factor dB	Value dB μ V/m	Limit dB μ V/m	Limit exceeded
31.3	15.0	14.4	29.4	40.0	
34.6	17.5	13.6	31.1	40.0	
42.0	18.0	12.0	30.0	40.0	
47.1	14.0	11.2	25.2	40.0	
48.0	16.5	11.0	27.5	40.0	
55.1	17.0	10.5	27.5	40.0	
58.0	16.5	10.3	26.8	40.0	
59.8	18.0	10.2	28.2	40.0	
60.0	17.5	10.2	27.7	40.0	
70.9	15.5	10.2	25.7	40.0	
75.6	14.5	10.2	24.7	40.0	
100.3	23.5	11.5	35.0	43.5	
116.5	15.0	12.9	27.9	43.5	
121.2	15.5	13.3	28.8	43.5	
167.6	13.0	15.8	28.8	43.5	
200.5	17.0	17.1	34.1	43.5	
214.8	18.5	17.6	36.1	43.5	
225.5	13.0	17.9	30.9	46.0	
300.7	16.0	16.8	32.8	46.0	
335.2	14.0	18.2	32.2	46.0	
383.1	11.5	19.9	31.4	46.0	
401.0	13.0	20.4	33.4	46.0	
426.0	10.0	21.1	31.1	46.0	
451.1	14.5	21.7	36.2	46.0	
476.2	10.0	22.3	32.3	46.0	
501.2	11.0	22.9	33.9	46.0	
570.1	8.5	24.4	32.9	46.0	
630.1	10.5	25.8	36.3	46.0	
660.0	4.5	26.6	31.1	46.0	
690.1	6.5	27.4	33.9	46.0	
704.0	6.0	27.7	33.7	46.0	
720.1	4.5	27.8	32.3	46.0	
750.1	6.5	28.1	34.6	46.0	
780.1	5.0	28.4	33.4	46.0	

Result:
Limit kept

Project file:
56305-90389-1

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

Model: LUC PC24-H-FC
Type: RF-modem for wireless LAN
Serial No.: 92290006
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/22/1999
Operator: R. Heller

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-202 (1.5 m antenna cable)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dB μ V]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.3900	vertical	52.6		0.6	20.7	52.6	74
2.3987	vertical	70.5		0.6	20.7	70.5	NRB
2.4000	vertical	68.5		0.6	20.7	68.5	NRB
2.4020	vertical	73.1		0.6	20.7	73.1	OB
2.4118	vertical	107.3		0.6	20.7	107.3	OB
2.4228	vertical	73.4		0.6	20.7	73.4	OB
2.5020	vertical	48.1		0.6	20.7	48.1	74
4.1273	vertical	39.1	-95.0		27.2	39.2	74
4.8282	vertical	45.2	-89.4		27.3	44.9	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 107.3 dB μ V/m.

Result: The limits are kept

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

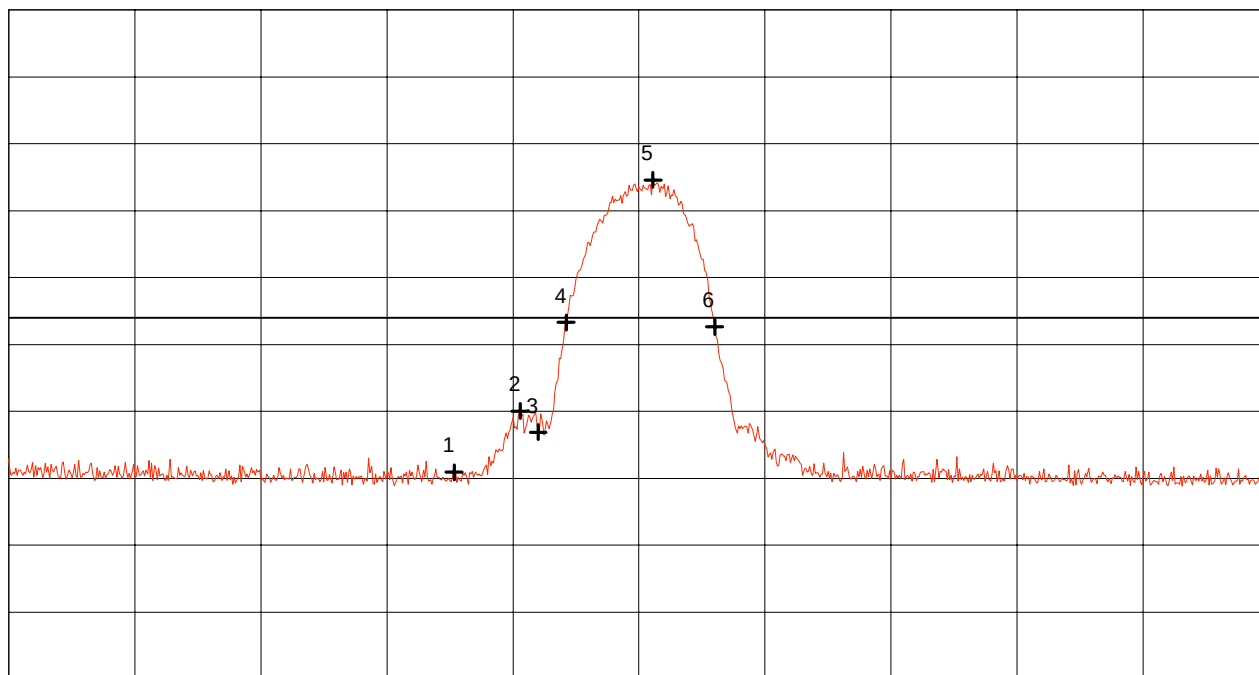
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB 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 ****

Nr.1	2.390000 GHz	50.89 dB μ V/m
Nr.2	2.397833 GHz	60.06 dB μ V/m
Nr.3	2.400000 GHz	56.88 dB μ V/m
Nr.4	2.403333 GHz	73.29 dB μ V/m
Nr.5	2.413667 GHz	94.59 dB μ V/m
Nr.6	2.421000 GHz	72.63 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

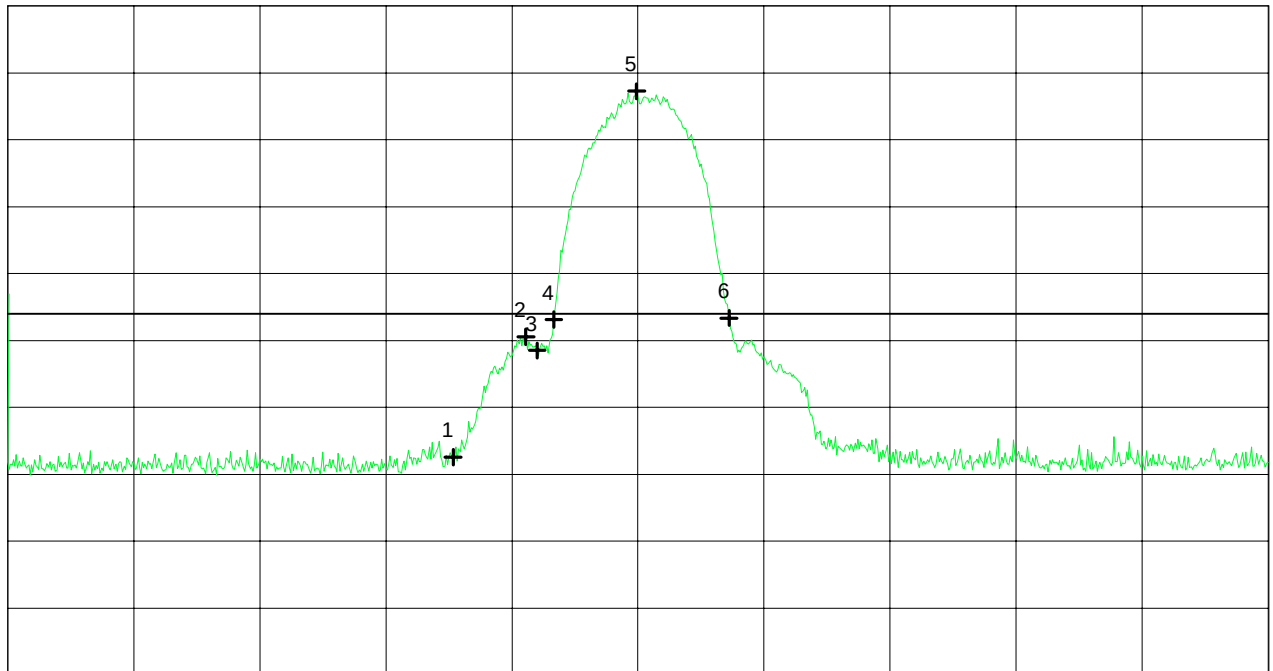
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB 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 ****

Nr.1	2.390000 GHz	52.56 dB μ V/m
Nr.2	2.398667 GHz	70.54 dB μ V/m
Nr.3	2.400000 GHz	68.49 dB μ V/m
Nr.4	2.402000 GHz	73.13 dB μ V/m
Nr.5	2.411833 GHz	107.26 dB μ V/m
Nr.6	2.422833 GHz	73.36 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model: LUC PC24-H-FC
Type: RF-modem for wireless LAN
Serial No.: 92290006
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/22/1999
Operator: R. Heller

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-202 (1.5 m antenna cable)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.3900	vertical	42.5		0.6	20.7	42.5	54
2.3930	vertical	53.9		0.6	20.7	53.9	NRB
2.3988	vertical	62.4		0.6	20.7	62.4	NRB
2.4000	vertical	60.6		0.6	20.7	60.6	NRB
2.4148	vertical	104.0		0.6	20.7	104.0	OB
2.4305	vertical	53.8		0.6	20.7	53.8	OB
2.5001	vertical	45.2		0.6	20.7	45.2	54
4.8241	vertical	42.0	-92.4		27.3	41.9	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 104.0 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

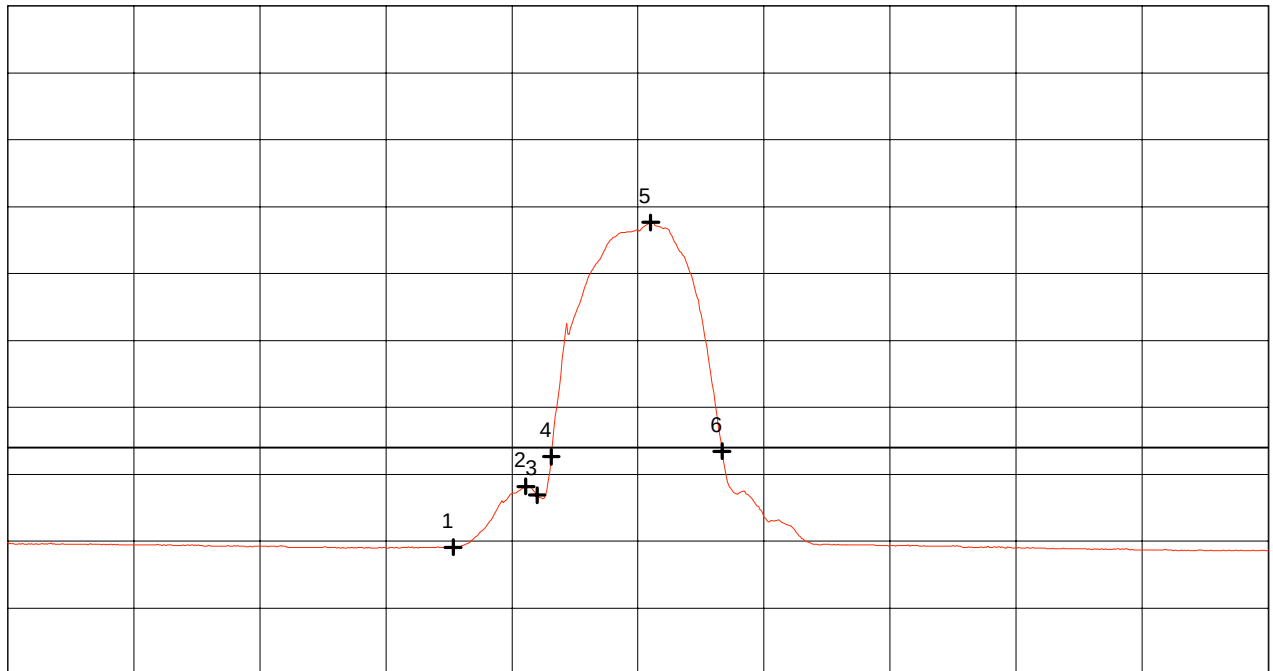
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	39.08 dB μ V/m
Nr.2	2.398667 GHz	48.17 dB μ V/m
Nr.3	2.400000 GHz	46.85 dB μ V/m
Nr.4	2.401667 GHz	52.62 dB μ V/m
Nr.5	2.413500 GHz	87.63 dB μ V/m
Nr.6	2.422000 GHz	53.43 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

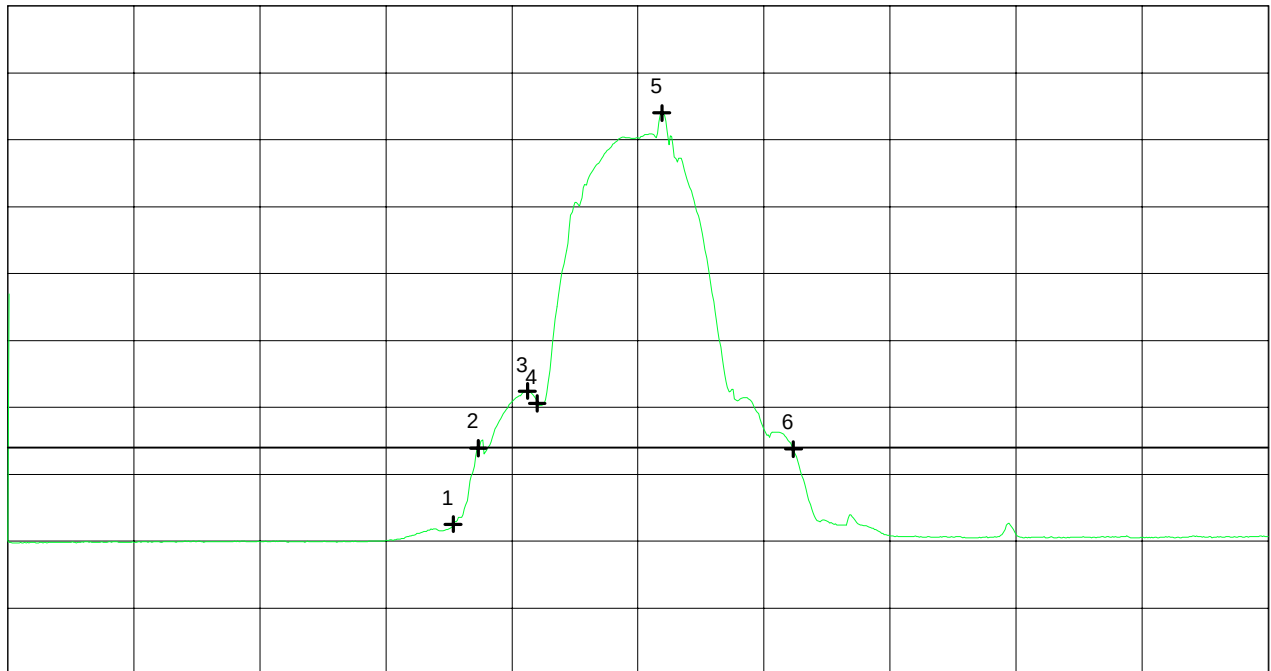
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	42.53 dB μ V/m
Nr.2	2.393000 GHz	53.89 dB μ V/m
Nr.3	2.398833 GHz	62.42 dB μ V/m
Nr.4	2.400000 GHz	60.59 dB μ V/m
Nr.5	2.414833 GHz	103.99 dB μ V/m
Nr.6	2.430500 GHz	53.78 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model: LUC PC24-H-FC
Type: RF-modem for wireless LAN
Serial No.: 92290006
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/22/1999
Operator: R. Heller

Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.4320	vertical	74.0		0.6	20.7	74.0	OB
2.4417	vertical	107.4		0.6	20.7	107.4	OB
2.4530	vertical	73.2		0.6	20.7	73.2	OB
2.4880	vertical	44.0		0.6	20.7	44.0	74
2.5320	vertical	44.3		0.6	20.7	44.3	74
4.1843	vertical	40.0	-94.2		27.2	40.0	74
4.8894	vertical	47.8	-86.6		27.3	47.7	74
7.3279	vertical	42.9	-93.8		29.9	43.1	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 107.4 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

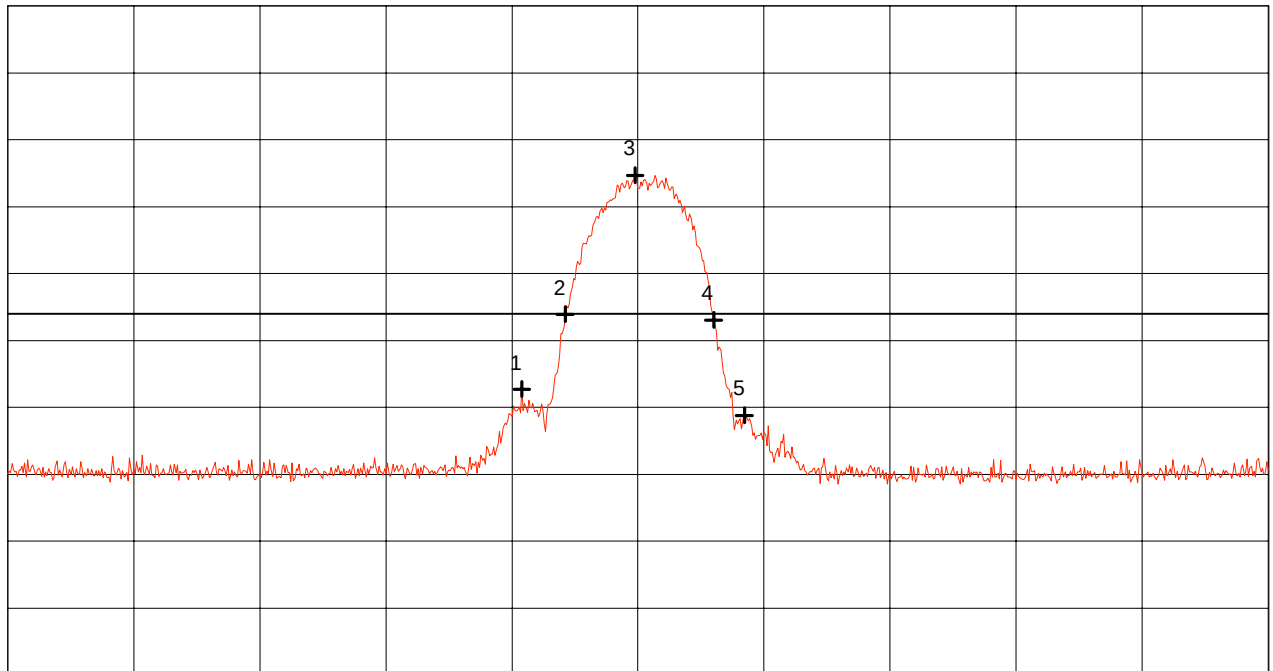
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB 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 ****

Nr.1	2.428167 GHz	62.72 dB μ V/m
Nr.2	2.433333 GHz	73.92 dB μ V/m
Nr.3	2.441667 GHz	94.69 dB μ V/m
Nr.4	2.451000 GHz	73.06 dB μ V/m
Nr.5	2.454667 GHz	58.81 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

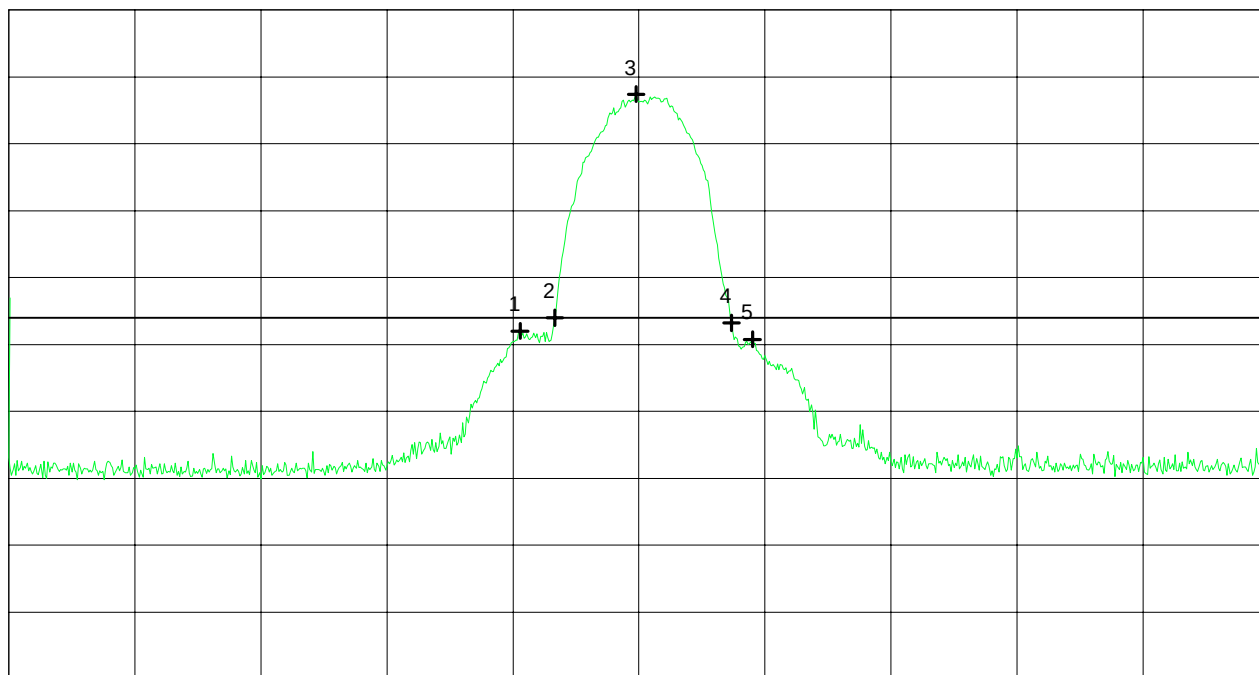
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB 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 ****

Nr.1	2.427833 GHz	71.99 dB μ V/m
Nr.2	2.432000 GHz	73.97 dB μ V/m
Nr.3	2.441667 GHz	107.41 dB μ V/m
Nr.4	2.453000 GHz	73.24 dB μ V/m
Nr.5	2.455500 GHz	70.77 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model: LUC PC24-H-FC
Type: RF-modem for wireless LAN
Serial No.: 92290006
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/22/1999
Operator: R. Heller

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-202 (1.5 m antenna cable)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.4233	vertical	53.9		0.6	20.7	53.9	OB
2.4448	vertical	103.8		0.6	20.7	103.8	OB
2.4605	vertical	53.8		0.6	20.7	53.8	OB
2.4862	vertical	42.4		0.6	20.7	42.4	54
4.8841	vertical	44.7	-89.5		27.3	44.8	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 103.8 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

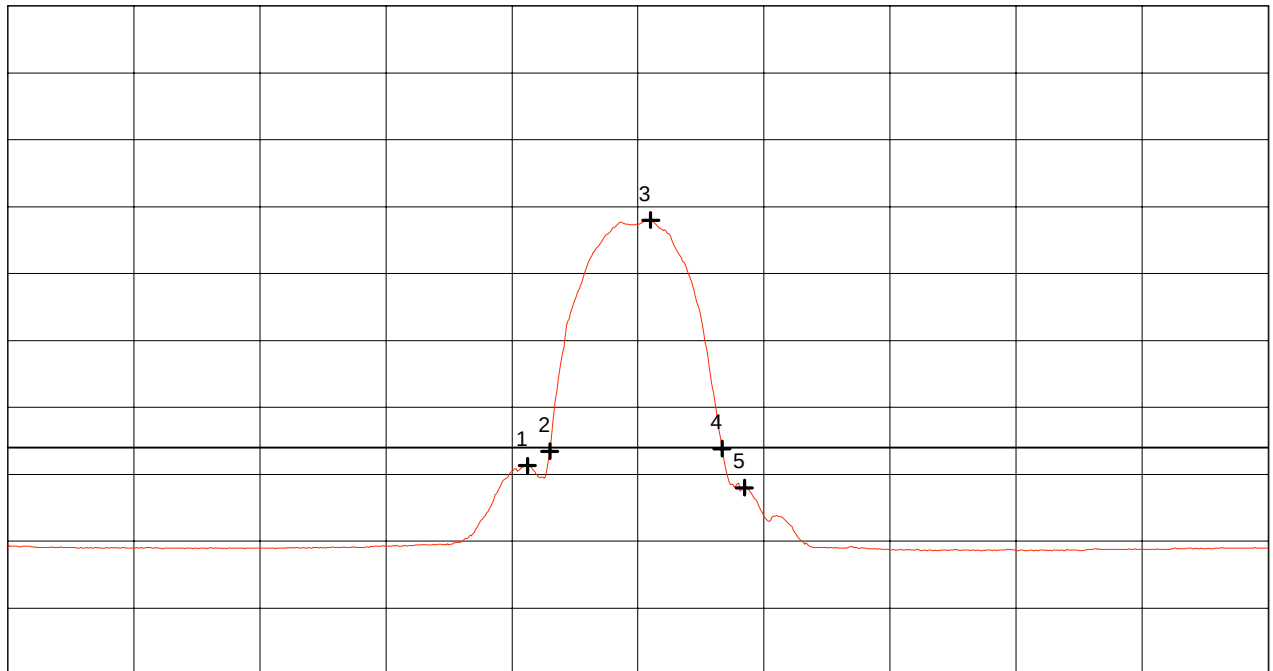
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.428833 GHz	51.27 dB μ V/m
Nr.2	2.431500 GHz	53.43 dB μ V/m
Nr.3	2.443500 GHz	87.99 dB μ V/m
Nr.4	2.452000 GHz	53.81 dB μ V/m
Nr.5	2.454667 GHz	47.99 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

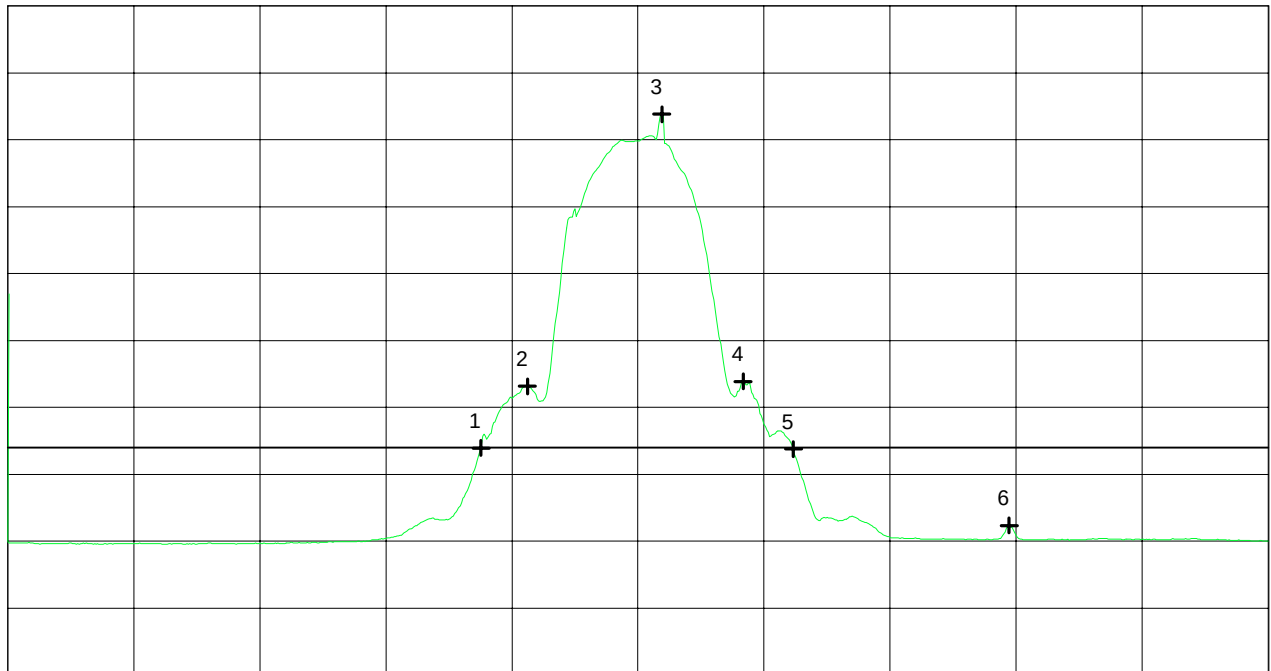
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.423333 GHz	53.94 dB μ V/m
Nr.2	2.428333 GHz	63.15 dB μ V/m
Nr.3	2.444833 GHz	103.81 dB μ V/m
Nr.4	2.454500 GHz	63.89 dB μ V/m
Nr.5	2.460500 GHz	53.78 dB μ V/m
Nr.6	2.486167 GHz	42.36 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model: LUC PC24-H-FC
Type: RF-modem for wireless LAN
Serial No.: 92290006
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/22/1999
Operator: R. Heller

Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.4518	vertical	72.1		0.6	20.7	72.1	OB
2.4618	vertical	108.1		0.6	20.7	108.1	OB
2.4730	vertical	73.2		0.6	20.7	73.2	OB
2.4835	vertical	55.1		0.6	20.7	55.1	74
2.4872	vertical	56.8		0.6	20.7	56.8	74
2.5000	vertical	52.1		0.6	20.7	52.1	74
2.5080	vertical	44.1		0.6	20.7	44.1	NRB
4.9296	vertical	45.3	-89.1		27.3	45.2	74
7.3932	vertical	41.1	-95.0		30.0	41.9	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 108.1 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

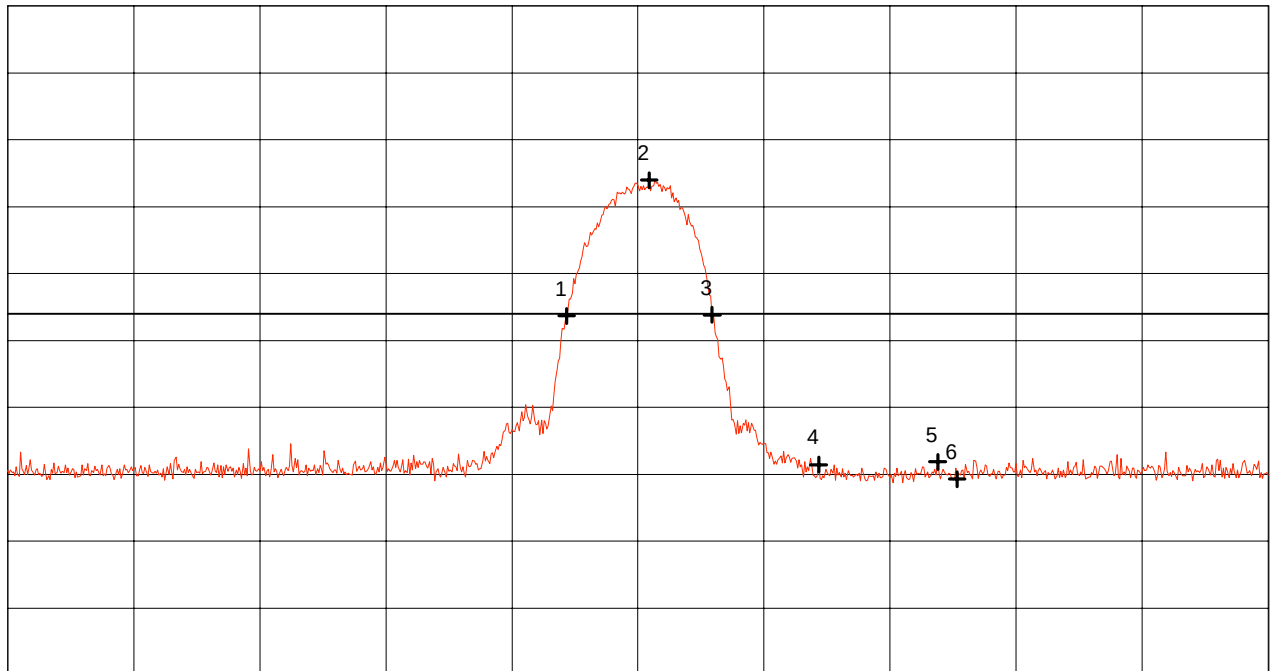
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB 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 ****

Nr.1	2.453500 GHz	73.67 dB μ V/m
Nr.2	2.463333 GHz	93.98 dB μ V/m
Nr.3	2.470833 GHz	73.84 dB μ V/m
Nr.4	2.483500 GHz	51.45 dB μ V/m
Nr.5	2.497667 GHz	51.85 dB μ V/m
Nr.6	2.500000 GHz	49.26 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

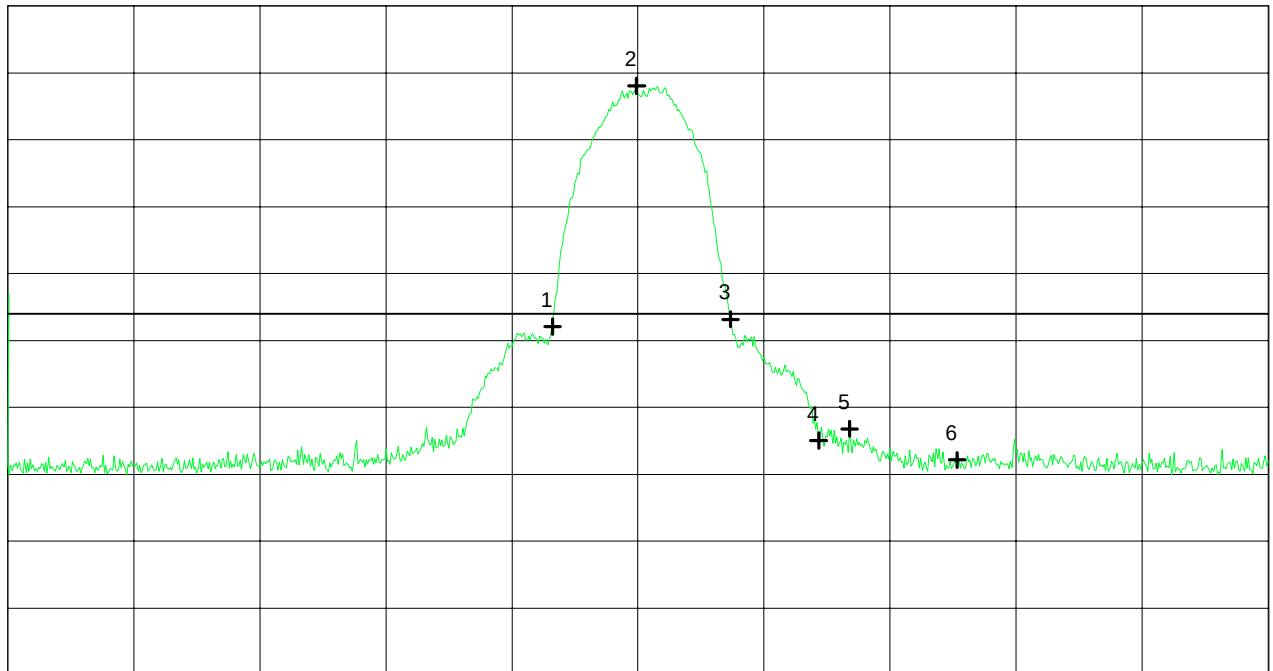
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB 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 ****

Nr.1	2.451833 GHz	72.07 dB μ V/m
Nr.2	2.461833 GHz	108.05 dB μ V/m
Nr.3	2.473000 GHz	73.16 dB μ V/m
Nr.4	2.483500 GHz	55.05 dB μ V/m
Nr.5	2.487167 GHz	56.78 dB μ V/m
Nr.6	2.500000 GHz	52.13 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model: LUC PC24-H-FC
Type: RF-modem for wireless LAN
Serial No.: 92290006
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/22/1999
Operator: R. Heller

Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.4427	vertical	53.1		0.6	20.7	53.1	OB
2.4648	vertical	102.9		0.6	20.7	102.9	OB
2.4800	vertical	53.9		0.6	20.7	53.9	OB
2.4835	vertical	43.0		0.6	20.7	43.0	54
2.4840	vertical	43.5		0.6	20.7	43.5	54
2.5000	vertical	40.2		0.6	20.7	40.2	54
4.9242	vertical	40.9	-93.3		27.3	41.0	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 102.9 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

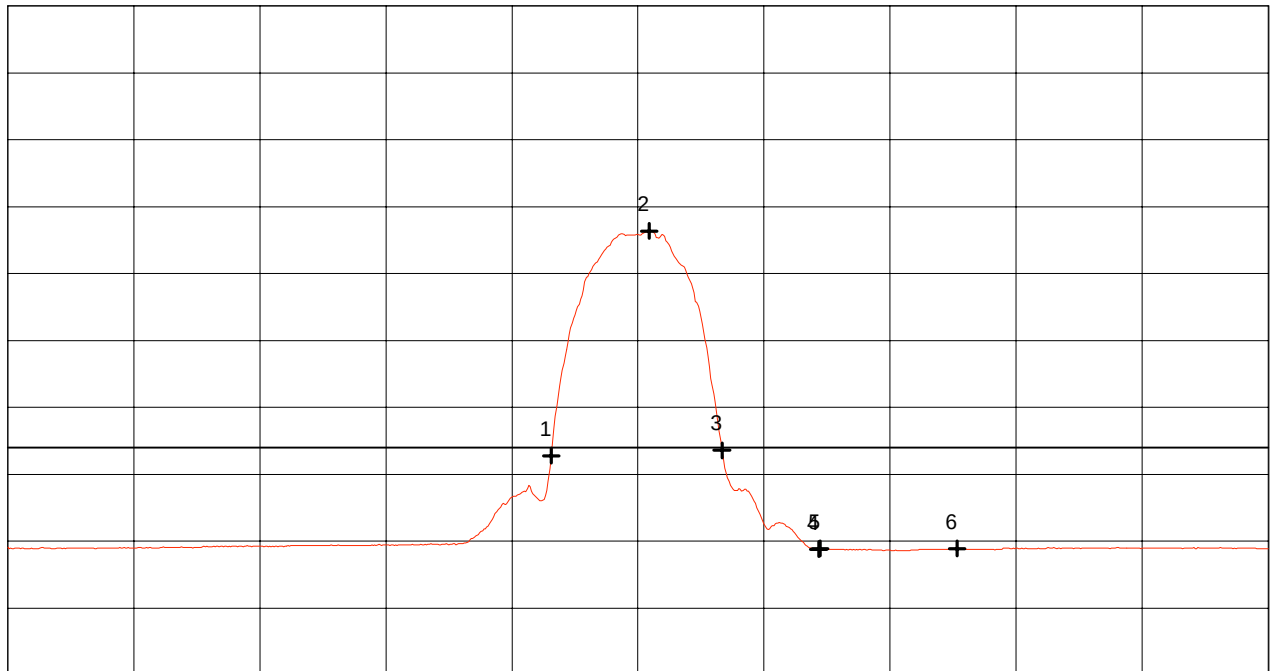
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.451667 GHz	52.79 dB μ V/m
Nr.2	2.463333 GHz	86.34 dB μ V/m
Nr.3	2.472000 GHz	53.56 dB μ V/m
Nr.4	2.483500 GHz	38.80 dB μ V/m
Nr.5	2.483667 GHz	38.88 dB μ V/m
Nr.6	2.500000 GHz	38.88 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial No.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

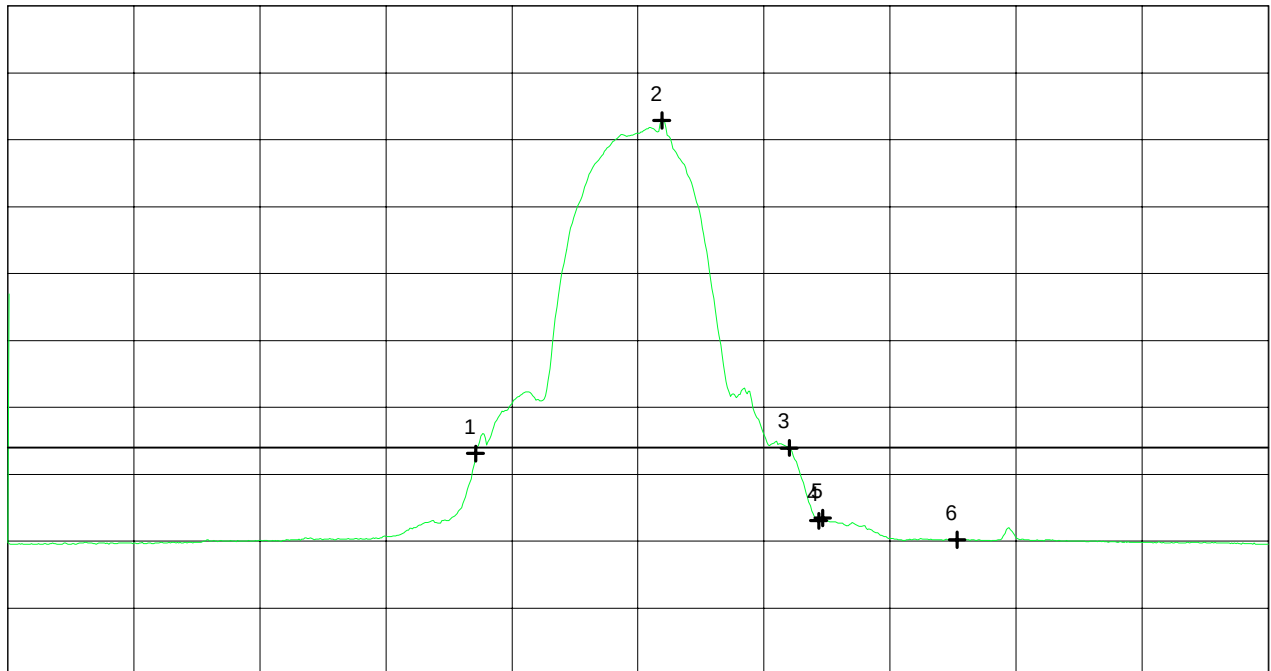
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.442667 GHz	53.07 dB μ V/m
Nr.2	2.464833 GHz	102.89 dB μ V/m
Nr.3	2.480000 GHz	53.94 dB μ V/m
Nr.4	2.483500 GHz	43.04 dB μ V/m
Nr.5	2.484000 GHz	43.47 dB μ V/m
Nr.6	2.500000 GHz	40.22 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
06/22/1999

Project-No.:
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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:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/16/1999 Operator:
R. Heller

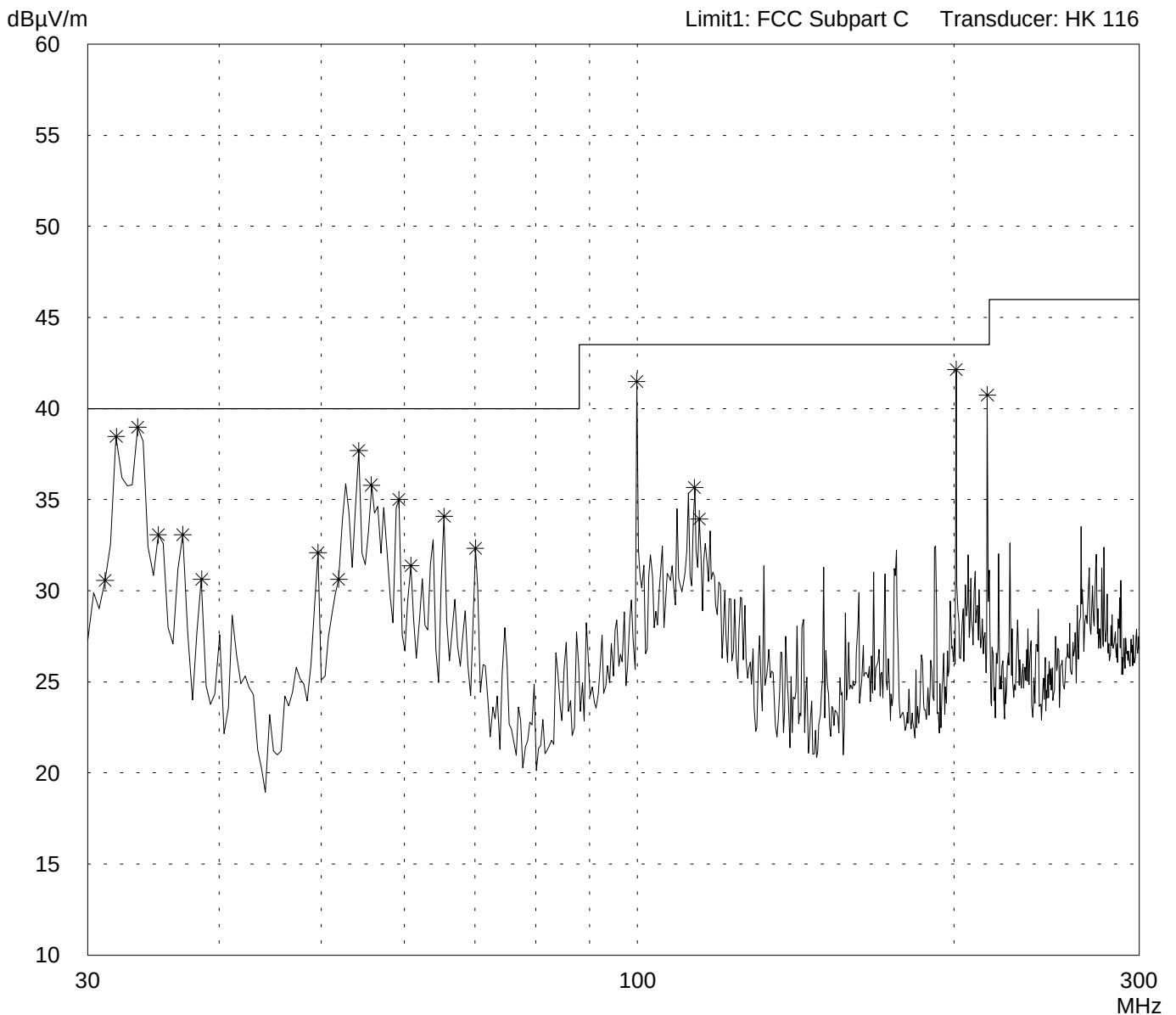
Test performed: automatically File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-90389-1

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Radiated Emission Test 300 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/16/1999 Operator: R. Heller

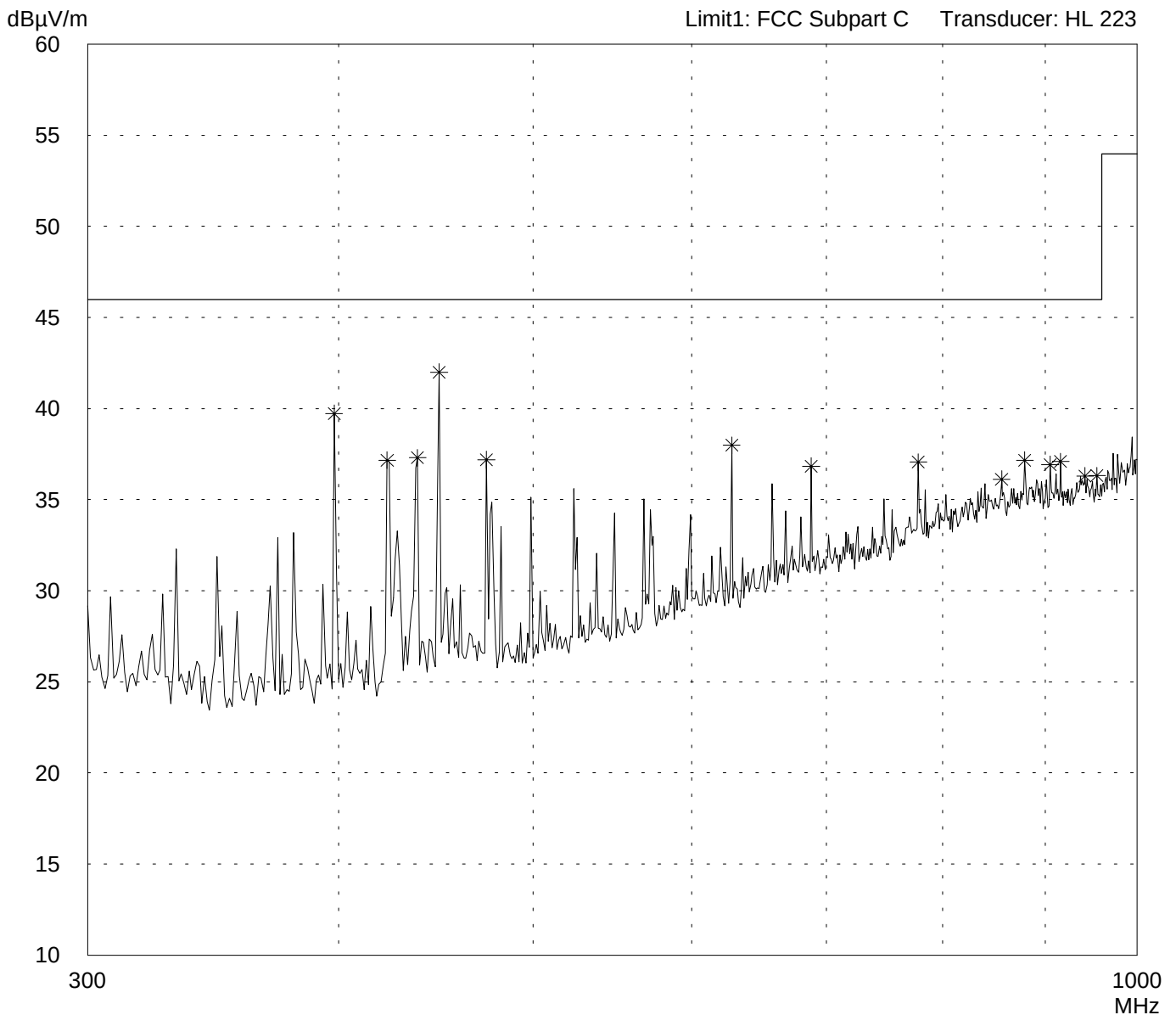
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/16/1999 Operator:
R. Heller

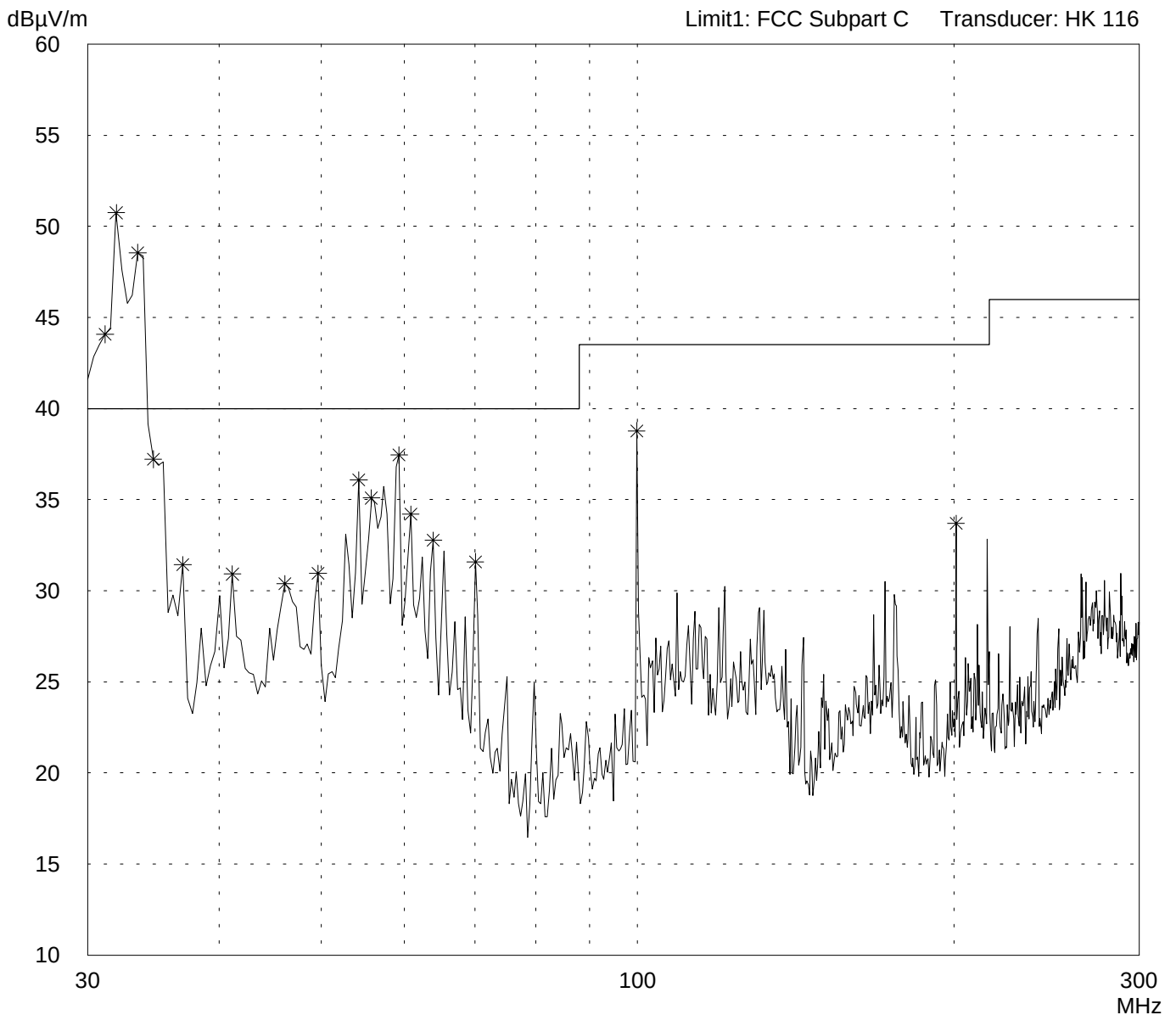
Test performed: automatically File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-90389-1

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Radiated Emission Test 300 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/16/1999 Operator: R. Heller

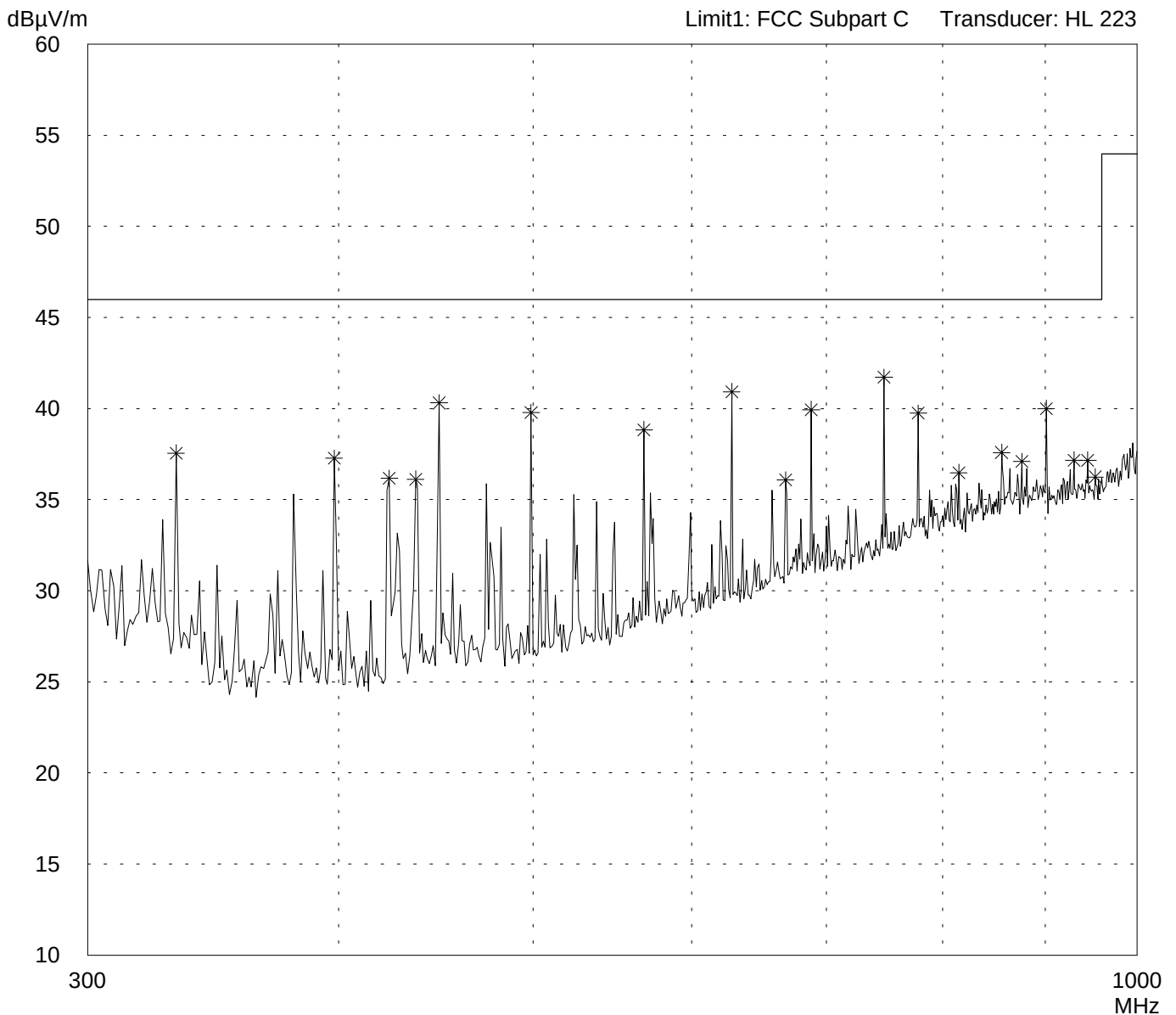
Test performed: automatically File name:

Mode:

- RF-modem PC24-H-FC mounted in AT & T Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202 (1.5 m antenna cable)
- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/17/1999 Operator:
R. Heller

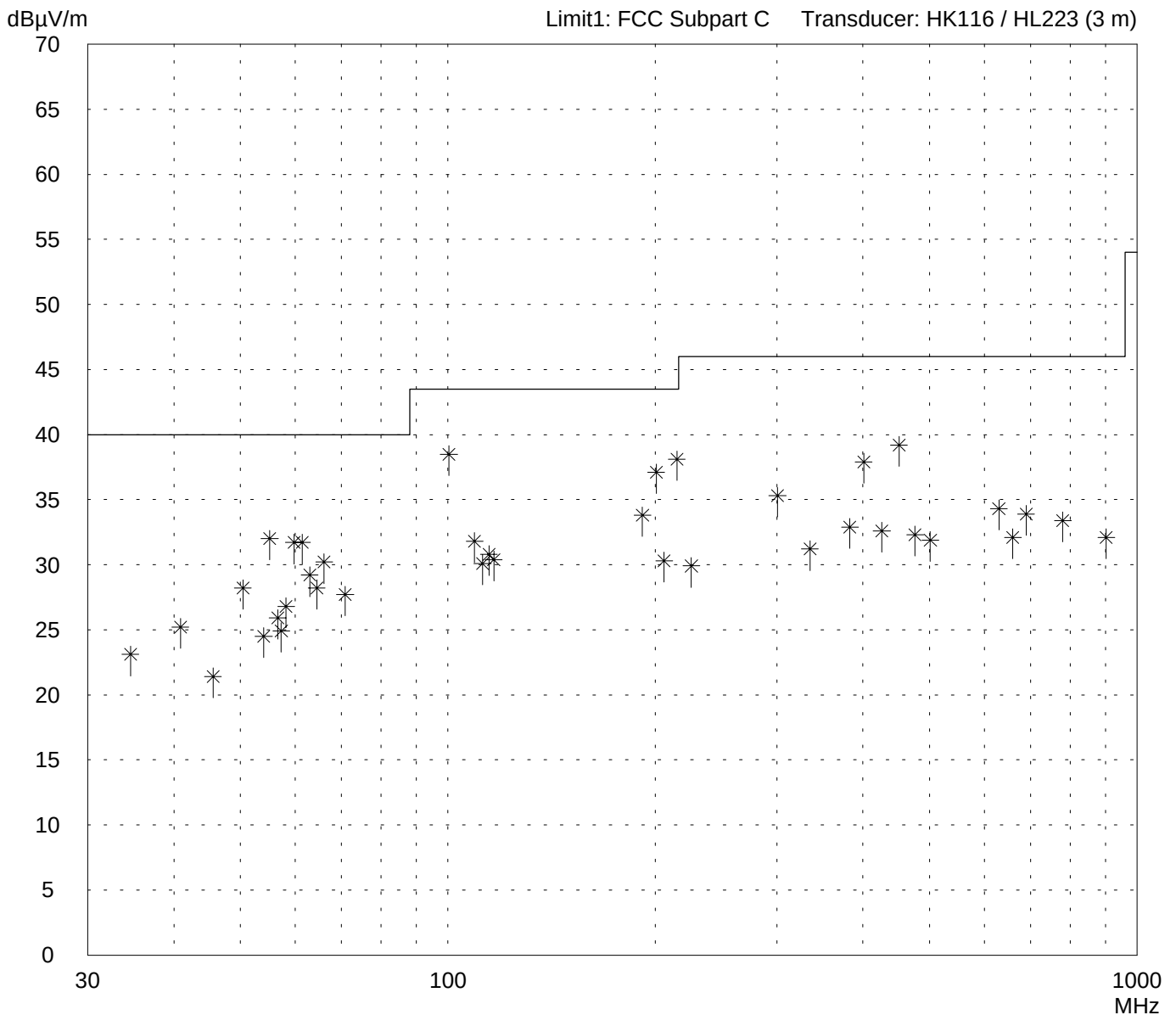
Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- RX mode with f = 2.442 GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	Reading dBμV	Correction factor dB	Value dBμV/m	Limit dBμV/m	Limit exceeded
34.6	9.5	13.6	23.1	40.0	
40.9	13.0	12.2	25.2	40.0	
45.6	10.0	11.4	21.4	40.0	
50.4	17.5	10.7	28.2	40.0	
54.0	14.0	10.5	24.5	40.0	
55.1	21.5	10.5	32.0	40.0	
56.6	15.5	10.4	25.9	40.0	
57.3	14.5	10.4	24.9	40.0	
58.2	16.5	10.3	26.8	40.0	
59.8	21.5	10.2	31.7	40.0	
61.4	21.5	10.2	31.7	40.0	
63.0	19.0	10.2	29.2	40.0	
64.5	18.0	10.2	28.2	40.0	
66.1	20.0	10.2	30.2	40.0	
70.9	17.5	10.2	27.7	40.0	
100.3	27.0	11.5	38.5	43.5	
109.3	19.5	12.3	31.8	43.5	
112.2	17.5	12.6	30.1	43.5	
114.6	18.0	12.8	30.8	43.5	
116.5	17.5	12.9	30.4	43.5	
191.5	17.0	16.8	33.8	43.5	
200.5	20.0	17.1	37.1	43.5	
205.9	13.0	17.3	30.3	43.5	
214.8	20.5	17.6	38.1	43.5	
225.5	12.0	17.9	29.9	46.0	
300.7	18.5	16.8	35.3	46.0	
335.2	13.0	18.2	31.2	46.0	
383.1	13.0	19.9	32.9	46.0	
401.0	17.5	20.4	37.9	46.0	
426.1	11.5	21.1	32.6	46.0	
451.1	17.5	21.7	39.2	46.0	
476.2	10.0	22.3	32.3	46.0	
501.2	9.0	22.9	31.9	46.0	
630.1	8.5	25.8	34.3	46.0	
660.0	5.5	26.6	32.1	46.0	
690.1	6.5	27.4	33.9	46.0	

Result:
Limit kept

Project file:
56305-90389-1

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

Model: LUC PC24-H-FC	Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200 - FCC test setup - supply voltage 115 V AC - with external antenna AIN24-OD-0202 (1.5 m antenna cable) - RX mode with $f = 2.442$ GHz
Serial no.: 92290006	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 06/17/1999	
Test performed: by hand	File name:

Detector: Quasi-Peak	List of values: Selected by hand
-------------------------	-------------------------------------

Frequency MHz	Reading dBμV	Correction factor dB	Value dBμV/m	Limit dBμV/m	Limit exceeded
780.1 902.0	5.0 1.5	28.4 30.6	33.4 32.1	46.0 46.0	

Result: Limit kept	Project file: 56305-90389-1	Page 77 of 81 Pages
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Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart C

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/17/1999 Operator:
R. Heller

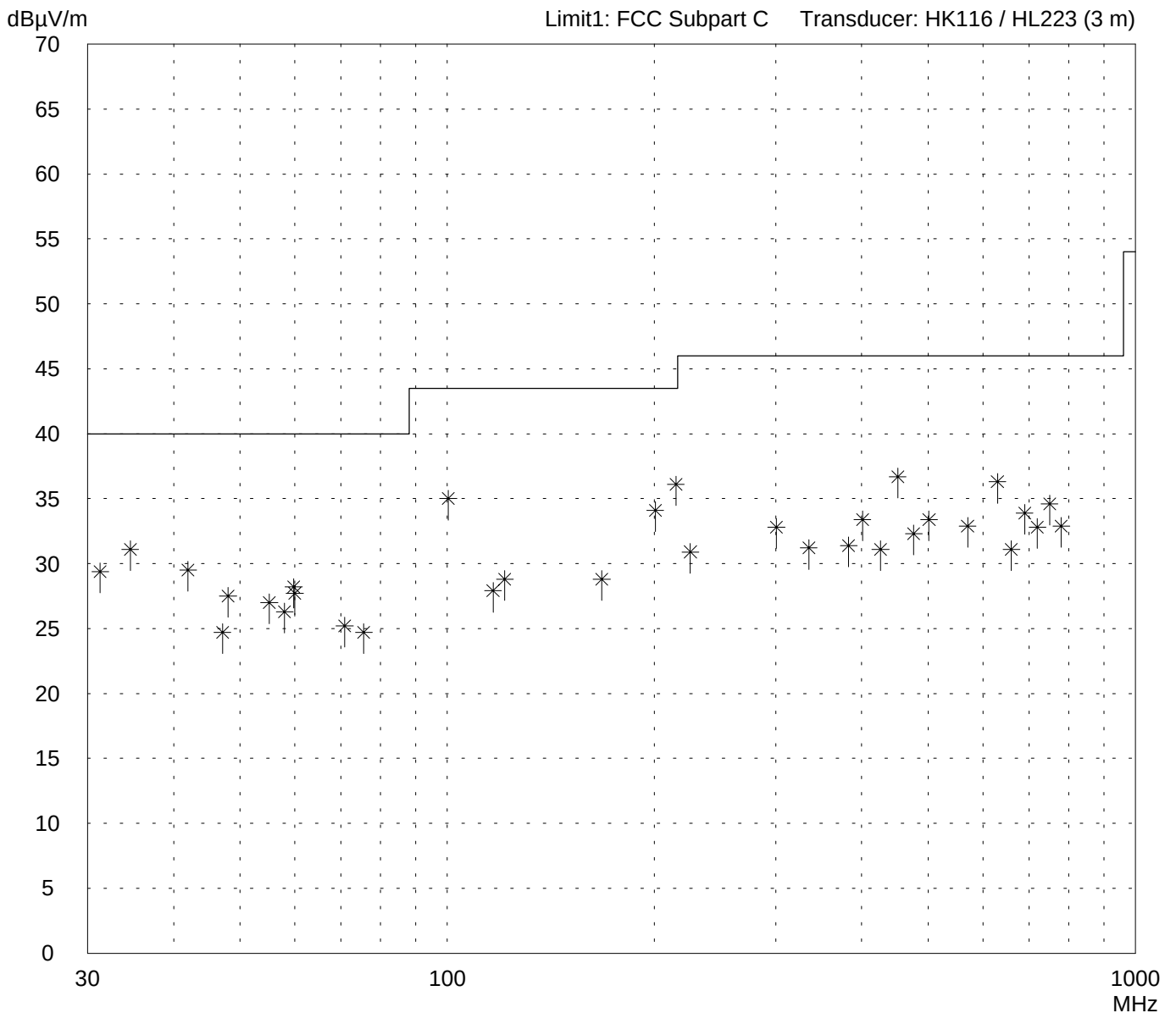
Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-90389-1

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

Model:
LUC PC24-H-FC

Serial no.:
92290006

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 06/17/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:
- RF-modem PC24-H-FC mounted in AT & T
Globalyst 200
- FCC test setup
- supply voltage 115 V AC
- with external antenna AIN24-OD-0202
(1.5 m antenna cable)

- RX mode with f = 2.442 GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	Reading dB μ V	Correction factor dB	Value dB μ V/m	Limit dB μ V/m	Limit exceeded
31.3	15.0	14.4	29.4	40.0	
34.6	17.5	13.6	31.1	40.0	
42.0	17.5	12.0	29.5	40.0	
47.1	13.5	11.2	24.7	40.0	
48.0	16.5	11.0	27.5	40.0	
55.1	16.5	10.5	27.0	40.0	
58.0	16.0	10.3	26.3	40.0	
59.8	18.0	10.2	28.2	40.0	
60.0	17.5	10.2	27.7	40.0	
70.9	15.0	10.2	25.2	40.0	
75.6	14.5	10.2	24.7	40.0	
100.3	23.5	11.5	35.0	43.5	
116.5	15.0	12.9	27.9	43.5	
121.2	15.5	13.3	28.8	43.5	
167.6	13.0	15.8	28.8	43.5	
200.5	17.0	17.1	34.1	43.5	
214.8	18.5	17.6	36.1	43.5	
225.5	13.0	17.9	30.9	46.0	
300.7	16.0	16.8	32.8	46.0	
335.2	13.0	18.2	31.2	46.0	
383.1	11.5	19.9	31.4	46.0	
401.0	13.0	20.4	33.4	46.0	
426.0	10.0	21.1	31.1	46.0	
451.1	15.0	21.7	36.7	46.0	
476.2	10.0	22.3	32.3	46.0	
501.2	10.5	22.9	33.4	46.0	
570.1	8.5	24.4	32.9	46.0	
630.1	10.5	25.8	36.3	46.0	
660.0	4.5	26.6	31.1	46.0	
690.1	6.5	27.4	33.9	46.0	
720.1	5.0	27.8	32.8	46.0	
750.1	6.5	28.1	34.6	46.0	
780.1	4.5	28.4	32.9	46.0	

Result:
Limit kept

Project file:
56305-90389-1

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

Model: LUC PC24-H-FC
 Type: RF-modem for wireless LAN
 Serial No.: 92290006
 Applicant: Lucent Technologies Nederland B.V.
 Test-site: Semi anechoic room
 Test distance: 3 meters
 Date of test: 06/22/1999
 Operator: R. Heller

Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200
 - FCC test setup
 - supply voltage 115 V AC
 - with external antenna AIN24-OD-202 (1.5 m antenna cable)

 - RX mode with $f = 2.442$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
1.000 -12.500							74

Note: No levels above noise floor detected

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

Model: LUC PC24-H-FC
 Type: RF-modem for wireless LAN
 Serial No.: 92290006
 Applicant: Lucent Technologies Nederland B.V.
 Test-site: Semi anechoic room
 Test distance: 3 meters
 Date of test: 06/22/1999
 Operator: R. Heller

Mode: - RF-modem PC24-H-FC mounted in AT & T Globalyst 200
 - FCC test setup
 - supply voltage 115 V AC
 - with external antenna AIN24-OD-202 (1.5 m antenna cable)

 - RX mode with $f = 2.442$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
1.000 -12.500							54

Note: No levels above noise floor detected