

Straubing, December 15, 1999

TEST-REPORT

No. 56305-90733-1

for

LUC PC24E-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 PC24E-H-FC
Serial number(s):	99UT11411941 (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:	see "Configuration of EUT and Peripheral Devices" on page 8
FCC-ID:	IMRWLPCE24H
Applicant:	Lucent Technologies Nederland B.V.
(full address)	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:	November 15, 1999
Date of test:	November 16 to December 2, 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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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 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 PC24E-H-FC was tested operating with omni-directional antenna AOU24-OD-10 connected via 20 ft antenna cable, lightning arrestor and RF-IEEE cable and mounted in PCMCIA slot of personal computer AT & T Globalyst 550 via ISA adaptor board ISAPC-B0

External antenna AOU24-OD-10 was mounted on a metal tripod in 1.5 m height (bottom).

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

Item	Part no.	Serial no.	Designation	Manufacturer
RF-modem	012372A	99UT11411941	LUC PC24E-H-FC	Lucent
External omni-directional antenna	012741	Sample no. 1	AOU24-OD-10 (original designation of manufacturer: 2439 LT)	Telex
Coaxial antenna cable 3/8", 20 ft	011463	---	--- (cable type LMR400, N connector (male) on each side)	Times Microwave Systems
RF-IEEE cable, 50 cm (to be connected to RF-modem)	010777	---	--- (cable type Filotex P - EDE 296769, N connector (male) on antenna side)	Lucent
Lightning arrestor	010997	---	--- (N connector (female) on each side)	Hyperlink
Personal computer	---	17-26190719	Globalyst 550	AT & T
ISA adaptor board	010053	B2-23	ISAPC-B0	Lucent

Table 1: Accessories and host equipment

External antenna AOU24-OD-10 is intended to be connected to EUT using one of four available versions of antenna cables. Depending on antenna cable the effective antenna gain is calculated by subtracting the appropriate total insertion loss including attenuation caused by RF-IEEE cable and lightning arrestor from the typical gain of external antenna (see table 2).

For testing cable with minimum attenuation (i.e. maximum effective antenna gain) was selected.

Part number ²		Antenna cable length	Cable type ³	Antenna gain AOU24-OD-10 [dBi]	Total insertion loss [dB]	Effective antenna gain [dBi]
Std.-N	Rev.-N					
011463	---	20 ft	LMR400	10.0	2.9	7.1
010998	010999	20 ft	LMR200	10.0	4.5	5.5
011000	010317	50 ft	LMR400	10.0	4.5	5.5
011001	011002	75 ft	LMR400	10.0	5.3	4.7

Table 2: Effective gain for external antenna AOU24-OD-10 and different antenna cables

² If noted cables are available with standard N or reverse N connectors

³ Cable type TWB 2001 (Amphenol) is identical to LMR200 (Times Microwave Systems) as well as TWB 4001 is the same as LMR400

6. Setup of Host

Configuration of cables of host

- Unshielded power lines for AC-power supply of personal computer and monitor, Kawasaki, 180 cm
- Shielded video cable E101344 Style 2990 VW-1 connected to video interface of personal computer, AWM, 170 cm
- Shielded data cable connected to parallel interface of personal computer, Inmac, 150 cm, Senton inv.-no. 1387
- Shielded data cable connected to serial interface of personal computer, Senton, 220 cm, Senton inv.-no. 1401

Configuration of host and peripheral devices

- Personal computer AT & T Globalyst 550:
 Serial no.: 17-26190719 FCC-ID: CTD3246
- Lucent ISA-card ISAPC-B0:
 Serial no.: B2-23
- Monitor Siemens S26361-K203-V311:
 Serial no.: 17569281 FCC-ID: ASIC3X2
- PS/2-keyboard HP C1405A #ABD:
 Serial no.: 3221S30020 FCC-ID⁴: B94VECTRA386S-20
- PS/2-mouse HP C1413A:
 Serial no.: 3227M01197 FCC-ID: B94C1413X
- Parallel printer HP ThinkJet 2225C+:
 Serial no.: 3006S68236 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

⁴ FCC-ID of corresponding personal computer

7. Survey of Additional External Antennae

As stated by applicant in table 3 additionally used related external antennae (same type of radiation) are listed with reference to the tested antenna.

External Antenna							Cable assembly				Total loss (dB)	Total Gain (dBi)	Remarks
P/N	Designator	Model	Manuf	Manuf P/N	Type	Gain (dBi)	P/N Std-N	Rev-N	Cable Type	Length	1)		
LUCENT													
012741	AOU24-OD-10		Telex	2439 LT	Omni	10	011463	na	LMR400	20ft	2.9	7.1	
							010998	010999	LMR200	20ft	4.5	5.5	
							011000	010317	LMR400	50ft	4.5	5.5	
							011001	011002	LMR400	75ft	5.3	4.7	
011005 (011006)	AOU24-OD-77		MaxRad	Z483	Omni	7	011463	na	LMR400	20ft	2.9	4.1	
							010998	010999	LMR200	20ft	4.5	2.5	
							011000	010317	LMR400	50ft	4.5	2.5	
							011001	011002	LMR400	75ft	5.3	1.7	
010994 (010993)	AOU24-OD-55		Larssen	FB45ST2400WA	Omni	5	011161	011160	Filotex	2.5m	3.3	1.7	
012843	AOU24-OD-55-B		Telex	Mobile	Omni	5	Fixed	na	Filotex	2.5m	3.3	1.7	
010096	AIN24-OD-0202-0		Lucent	--	Omni	--	na	na	Filotex	1.5m	--	2.0	RF connector
na							010777	010995	Filotex	50cm	0.9		RF IEEE cable
na							010997	010996	na		0.4		Lightning Protector
LXE													
155845-0001	--	Spire	LXE	155845-0001	Omni	6	--		RG-58	5.25 in.	1	5	
155846-0001	--	Spire	LXE	155846-0001	Omni	3	--		RG-58	5.25 in.	1	2	
153180-0001	--	None	Cushcraft	RTN2400SXR	Omni	2.2	--		Filotex	8 inch	1	1.2	
480429-0400	--	None	MaxRad	MHWS2400WRPC	Omni	2.2	--		Filotex	8 inch	1	1.2	

Table 3: Survey of Additional External Antennae

NOTES:

1. Total loss LMR cable assy includes LMR cable + Surge Arrestor + RF IEEE cable.
2. Cable type LMR 200 (Times Microwave) identical to TWB2001 (Amphenol) and LMR400 identical to TWB40001 (Amphenol owns Times Microwave).
3. The antenna part numbers shown between brackets refer to the Reversed N connector attached.

8. Measuring Methods

8.1. Minimum 6 dB Bandwidth (§ 15.247.a2)

The minimum 6 dB bandwidth was measured with a spectrum analyzer connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.

The spectrum analyzer was set to:

RBW = 100 kHz, VBW = 100 kHz, span = 50 MHz, sweep = 20 ms

See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):

02, 18, 57, 67, 68

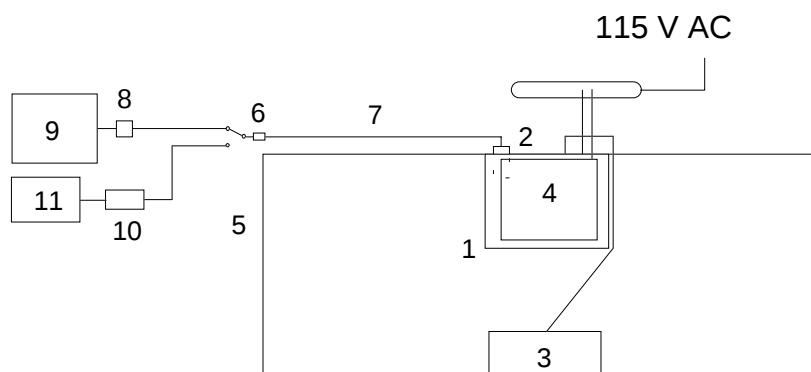


Figure 1: Measurement setup for testing on antenna connector

- | | |
|--|---|
| 1 Personal computer with ISA-card | 6 DC-block |
| 2 RF-modem | 7 Test cable including adapter cable |
| 3 Keyboard | 8 Attenuator |
| 4 Monitor | 9 Spectrum analyzer |
| 5 Wooden table | 10 Power sensor |
| | 11 Power meter |

8.2. 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.

A spectrum analyzer (set to RBW = 100 kHz, VBW = 100 kHz, span = 100 MHz, sweep = 40 ms) was used to record the shape of the transmit signal.

See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):

02, 08, 09, 18, 67, 68

8.3. Peak Power Density (§ 15.247.d)

The peak power density was measured with a spectrum analyzer connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.

The spectrum analyzer was set to max hold with

RBW = 3 kHz, VBW = 100 kHz, span = 300 kHz, sweep = 100 s

See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):

02, 18, 57, 67, 68

8.4. Conducted Emission 0.45 MHz - 30 MHz (§15.207)

Conducted emissions were measured in the frequency range 0.45 MHz to 30 MHz. The bandwidth of the EMI-Receiver was set to 9 kHz and the detector-function was set to CISPR quasi-peak.

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

Measurements were performed on phase and neutral lines of the power-cords of the tested system. Preliminary scans were taken with the detector-function of the EMI-receiver set to peak to determine the conducted EMI-profile of the EUT. At the final test the cables and equipment were placed and moved within the range of positions likely to find their maximum emissions.

See figure 2 for the measurement setup.

Test equipment used (see equipment list for details):

04, 22, 23, 60, 63

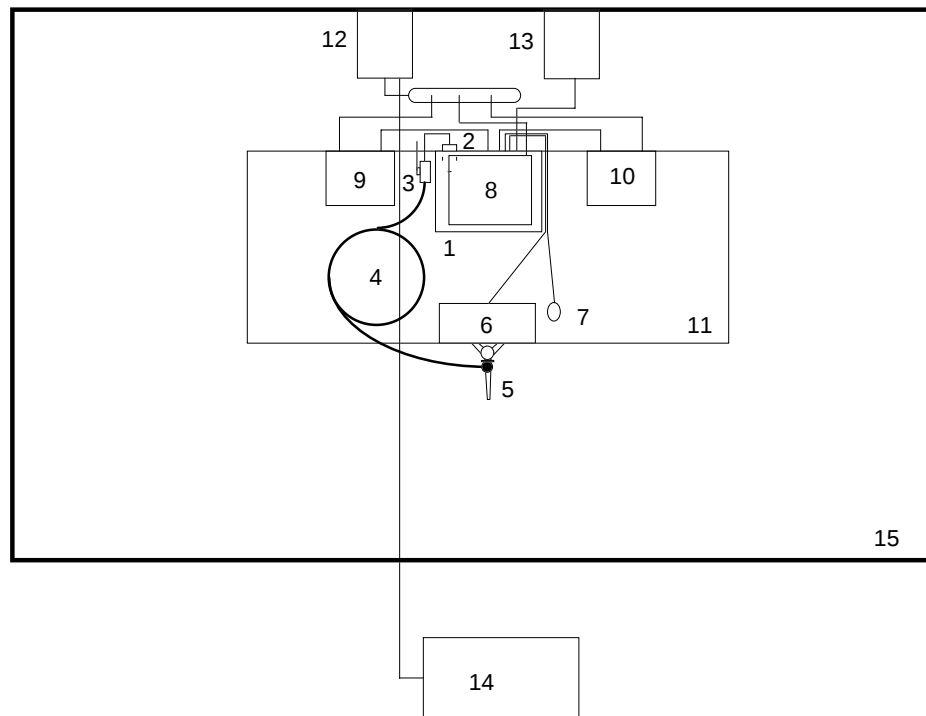


Figure 2: Measurement setup no. 2 for conducted emission test

- | | |
|--|---------------------------------------|
| 1 Personal computer with ISA-card | 12 LISN for EUT |
| 2 RF-modem | 13 LISN for peripheral devices |
| 3 Lightning arrestor with ground connection | 14 Test receiver |
| 4 Antenna cable | 15 Shielded room |
| 5 RF-antenna (2.4 GHz) mounted on metal tripod (grounded) | |
| 6 Keyboard | |
| 7 Mouse | |
| 8 Monitor | |
| 9 Parallel printer | |
| 10 Serial printer | |
| 11 Wooden table | |

8.5. Radiated Emission 30 MHz - 1 GHz (§15.209, §15.247.c, §15.205.a,b)

Radiated emissions were measured over the frequency range from 30 MHz to 1 GHz. The bandwidth of the EMI-receiver was set to 120 kHz and the detector-function was set to CISPR quasi-peak.

The test setup was made in accordance with ANSI C63.4-1992. Measurements were made in both the horizontal and vertical planes of polarization. Preliminary scans were taken in a semi-anechoic room using a spectrum analyzer with the detector function set to peak. All tests were performed at a test-distance of 3 meters. For final testing an open-area test-site was used. During the tests the EUT was rotated all around and the receiving-antenna was raised and lowered from 1 meter to 4 meters to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions. See figure 3 for the measurement setup.

Test equipment used (see equipment list for details):

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

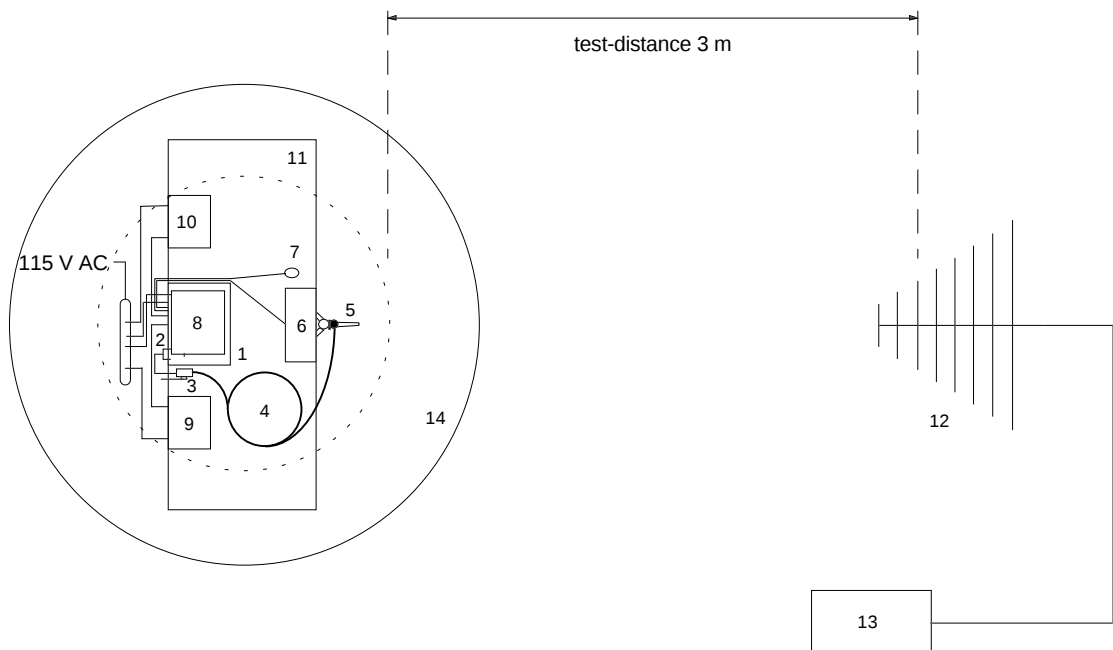


Figure 3: Measurement setup for radiated emission test below 1 GHz

- | | |
|--|-------------------------------|
| 1 Personal computer with ISA-card | 12 Measurement antenna |
| 2 RF-modem | 13 Test receiver |
| 3 Lightning arrester with ground connection | 14 Turn table |
| 4 Antenna cable | |
| 5 RF-antenna (2.4 GHz) mounted on metal tripod (grounded) | |
| 6 Keyboard | |
| 7 Mouse | |
| 8 Monitor | |
| 9 Parallel printer | |
| 10 Serial printer | |
| 11 Wooden table | |

8.6. Radiated Emission 1 GHz - 25 GHz (§15.209, §15.247.c, §15.205.a,b)

Radiated emissions were measured in the frequency range 1 GHz to 25 GHz in transmit mode and 1 GHz to 12.5 GHz in receive mode. The resolution bandwidth of the spectrum analyzer was set to 1 MHz. Scans for the whole frequency range were taken with video bandwidth set to 1 MHz to check out the highest peak levels. In case of less margin to average limit additional prescans were made with video bandwidth reduced from 1 MHz to 100 kHz, 30 kHz or 10 kHz. Final measurements were performed at the critical frequencies with video bandwidth of the spectrum analyzer set to 1 kHz (average mode). EUT was rotated all around and receiving antenna was raised and lowered to find the maximum levels of emission. Cables and equipment were placed and moved within the range of position likely to find their maximum emissions.

All tests were performed in a semi-anechoic chamber with a test-distance of 3 meters (except for the frequency range 18 GHz - 25 GHz where test distance was reduced to 1 meter).

To avoid overload in transmit mode no preamplifier was used between 1 GHz and 3.95 GHz. Above 3.95 GHz tests were performed with appropriate preamplifiers (attenuation of operating frequency by horn antenna is sufficient to avoid overload of preamplifier). For receive mode appropriate preamplifiers were used for the whole frequency range. To eliminate variations in amplification of the preamplifiers a signal generator was used for substitution (however, during testing a correction according to the minimum amplification was added).

Substitution was performed in the following steps:

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

See figure 4 for the measurement setups.

Test equipment used (see equipment list for details):

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

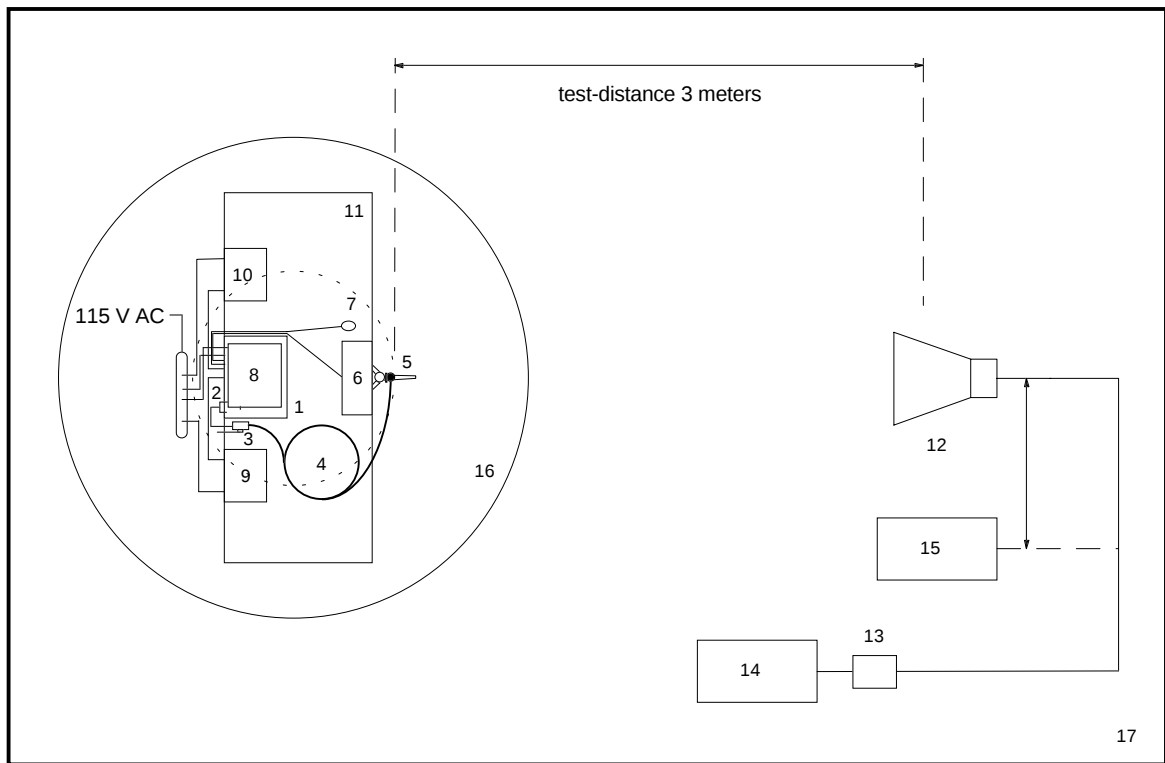


Figure 4: Measurement setup for radiated emission test above 1 GHz

- | | |
|--|--|
| 1 Personal computer with ISA-card | 12 Measurement antenna |
| 2 RF-modem | 13 Preamplifier (if applicable) |
| 3 Lightning arrestor with ground connection | 14 Spectrum analyzer |
| 4 Antenna cable | 15 Signal generator |
| 5 RF-antenna (2.4 GHz) mounted on metal tripod (grounded) | 16 Turn table |
| 6 Keyboard | 17 Semi-anechoic room |
| 7 Mouse | |
| 8 Monitor | |
| 9 Parallel printer | |
| 10 Serial printer | |
| 11 Wooden table | |

9. 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.

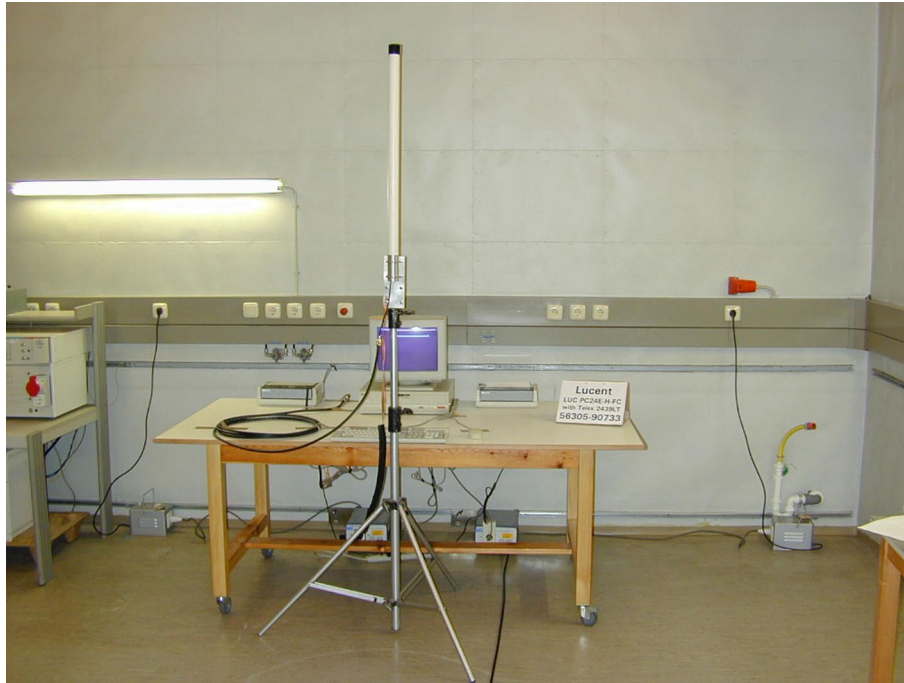
No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	R 3271	05050023	Advantest
02	EMI Test Receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
03	Test Receiver	ESH 3	880112/032	Rohde & Schwarz
04	Test Receiver	ESHS 10	860043/016	Rohde & Schwarz
05	Test Receiver	ESV	881414/009	Rohde & Schwarz
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

10. Photographs Taken During Testing

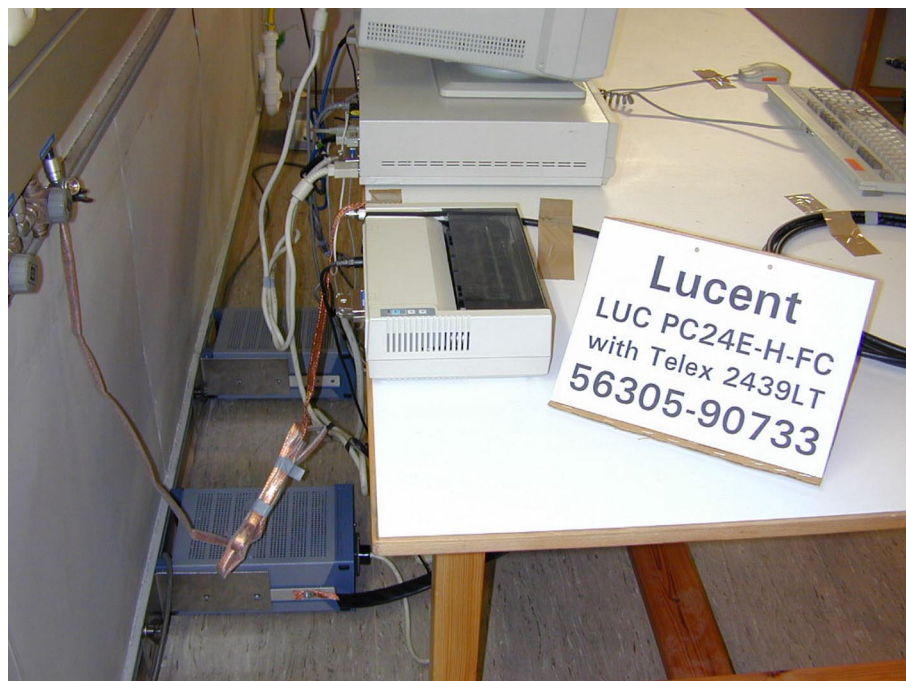
Photo No. 10.1

Test setup for conducted emission test 450 kHz - 30 MHz



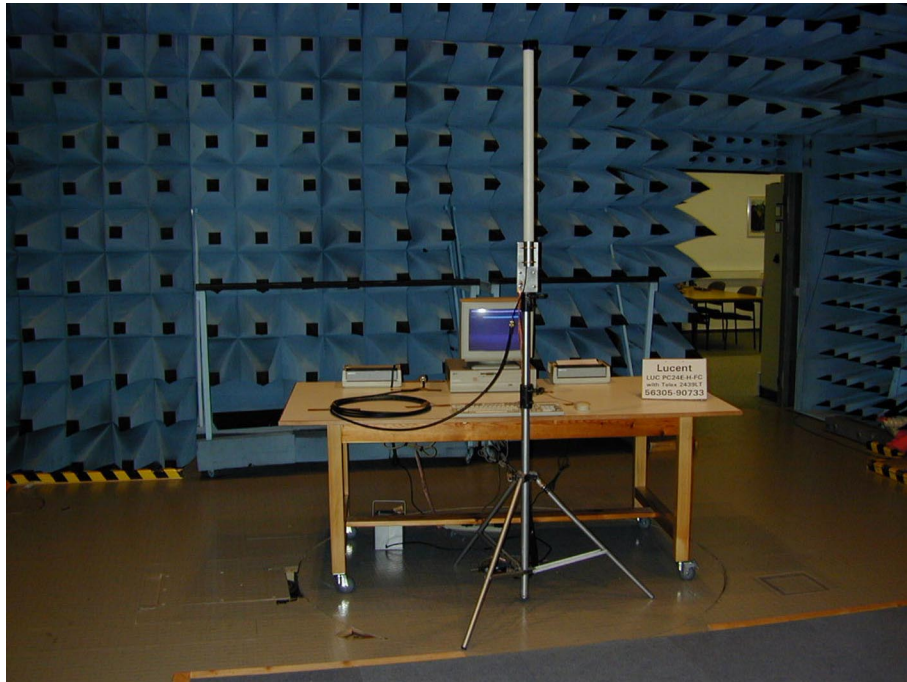
Photos No. 10.2 - 10.3

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



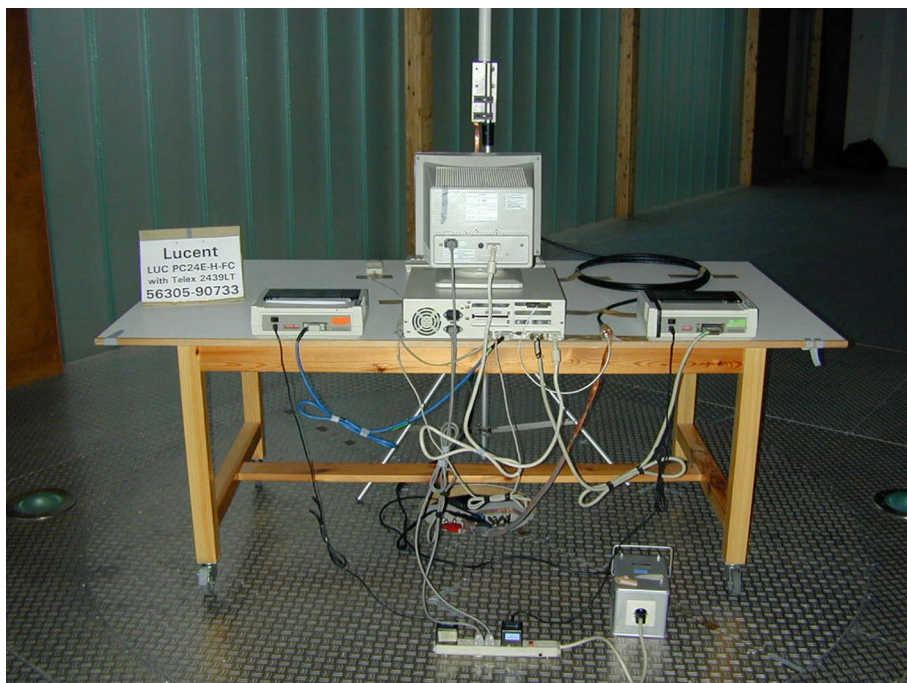
Photos No. 10.4 - 10.5

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



Photos No. 10.6 - 10.7

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



11. List of Measurements

FCC Part 15 Subpart C			
Section(s):	Test	Page	Result
	Transmit mode (TX):	31	
§15.247.a2	Minimum 6 dB bandwidth	32	passed
§15.247.b	Maximum peak output power	38	passed
§15.247.d	Peak power density	45	passed
	Frequency range (conducted)	57	for information only
§15.247.e	Processing gain	---	test performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	63	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	87	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	111	passed
	Receive mode (RX):	147	
§15.207	Conducted emission test 450 kHz - 30 MHz	148	passed
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	156	passed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	164	passed

Note: Conducted and radiated emission tests in transmit mode were performed with bit rate set to 11 Mbps only (standard operation mode; lower bit rates are selected as fall back if environmental conditions do not allow higher rates). Based on conducted emission tests performed on antenna connector called "frequency range" comparing shapes of TX signal with bit rate set to either 5.5 Mbps or 11 Mbps no additional tests were performed with bit rate 5.5 Mbps. However, special care was taken to observe the difference especially in average results of TX fundamental and (even) harmonics when selecting 11 (or 5.5) Mbps on the one hand, and 2 Mbps on the other hand. Therefore additional emission tests at band edges and TX harmonics were performed with 2 Mbps. Having less significant differences in peak results than in average levels only critical harmonics observed with 11 Mbps (i.e. with less than 10 dB margin of peak levels to average limit) had to be retested with bit rate set to 2 Mbps.

12. Test Results

Test results for
Transmit (TX) mode

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Tested on: antenna connector

Delta f (-6 dB points) = 9.55 MHz

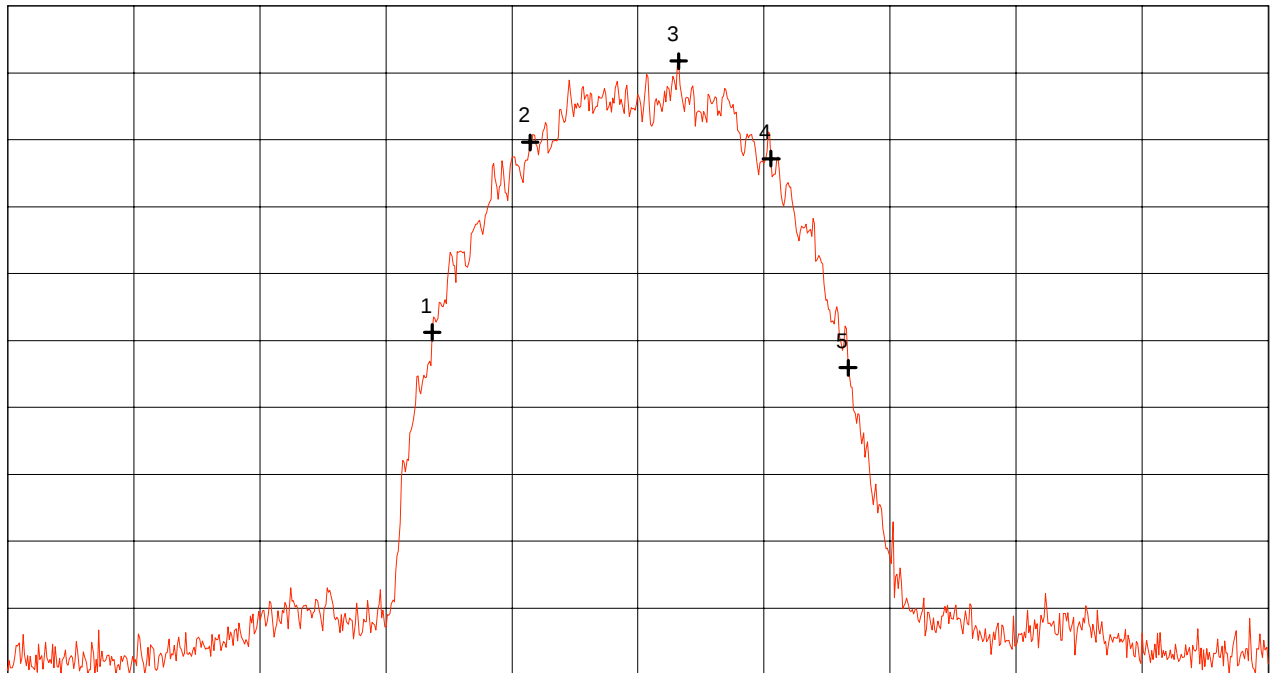
Result: Test passed

Note: -20 dB points for information only!

Ref.Level 10 dBm
5 dB dB/Div.

ATT 35 dB

Ref. Offset 21.1 dB



Start 2.387 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.437 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.403833 GHz	-14.40 dBm
Nr.2	2.407722 GHz	-0.20 dBm
Nr.3	2.413611 GHz	5.88 dBm
Nr.4	2.417278 GHz	-1.41 dBm
Nr.5	2.420333 GHz	-17.04 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

Tested on: antenna connector

Delta f (-6 dB points) = 9.83 MHz

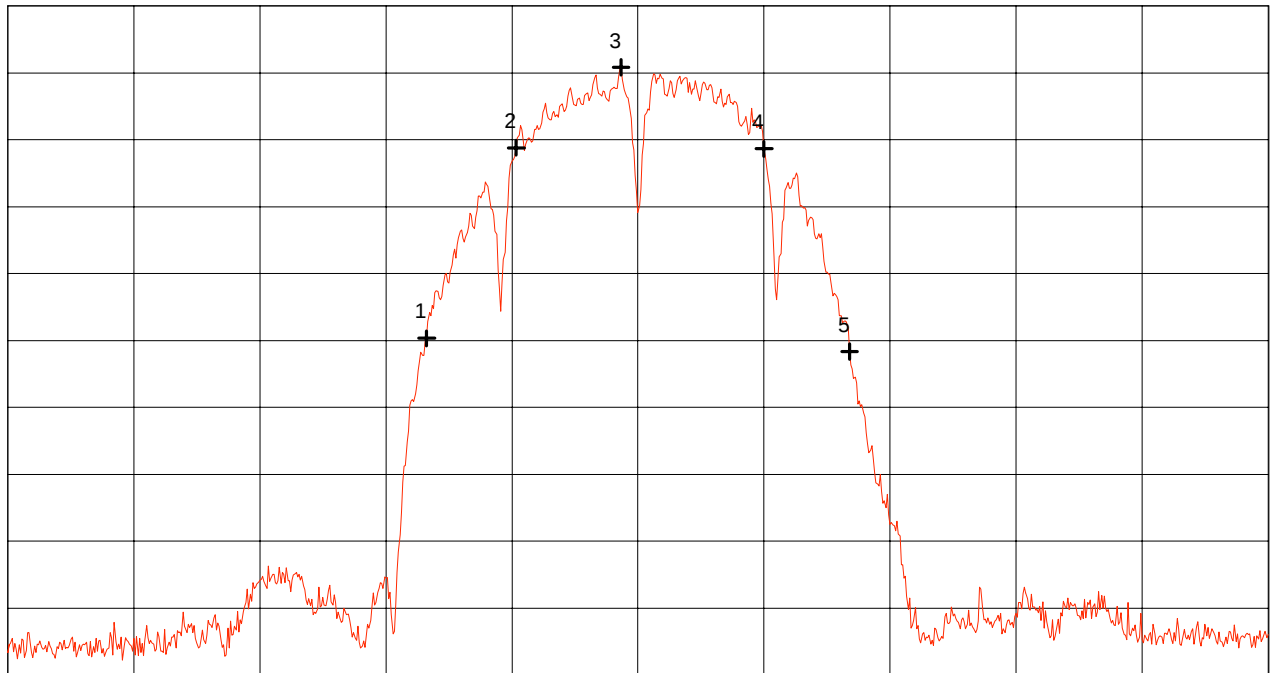
Result: Test passed

Note: -20 dB points for information only!

Ref.Level 10 dBm
5 dB dB/Div.

ATT 35 dB

Ref. Offset 21.1 dB



Start 2.387 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.437 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.403611 GHz	-14.83 dBm
Nr.2	2.407167 GHz	-0.60 dBm
Nr.3	2.411333 GHz	5.42 dBm
Nr.4	2.417000 GHz	-0.67 dBm
Nr.5	2.420389 GHz	-15.83 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Tested on: antenna connector

Delta f (-6 dB points) = 9.61 MHz

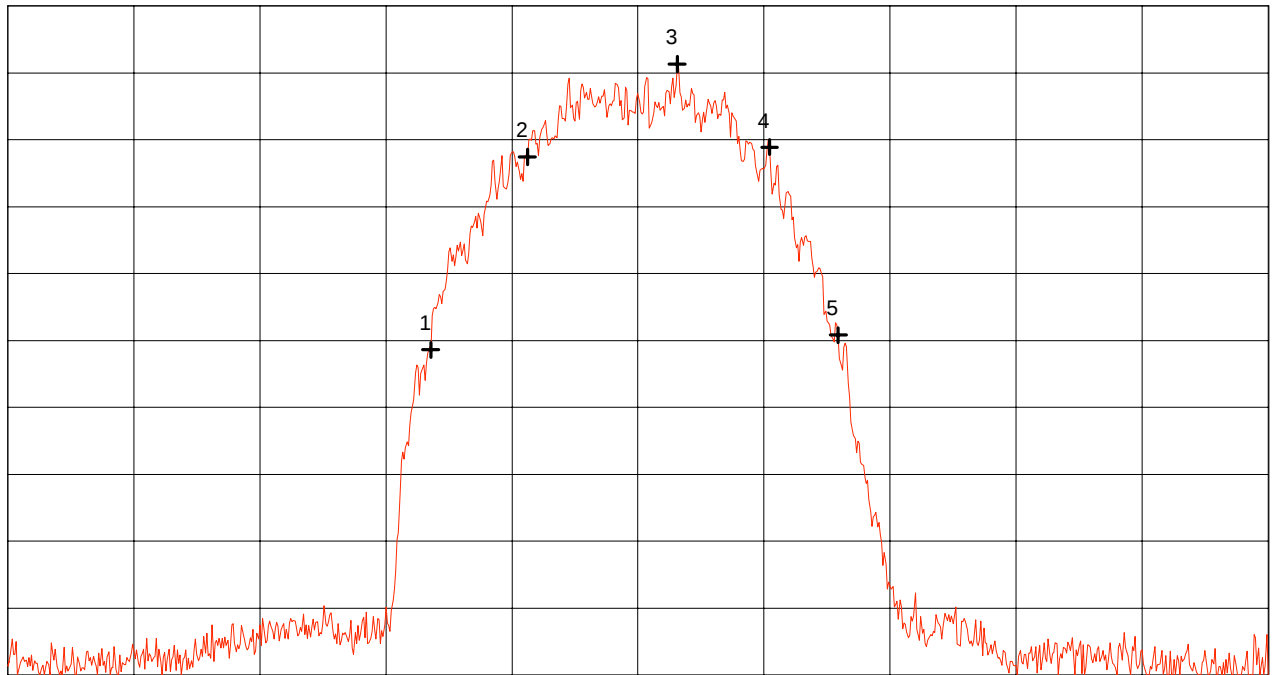
Result: Test passed

Note: -20 dB points for information only!

Ref.Level 10 dBm
5 dB dB/Div.

ATT 35 dB

Ref. Offset 21.1 dB



Start 2.417 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.467 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.433778 GHz	-15.69 dBm
Nr.2	2.437611 GHz	-1.28 dBm
Nr.3	2.443556 GHz	5.66 dBm
Nr.4	2.447222 GHz	-0.56 dBm
Nr.5	2.449944 GHz	-14.61 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

Tested on: antenna connector

Delta f (-6 dB points) = 9.83 MHz

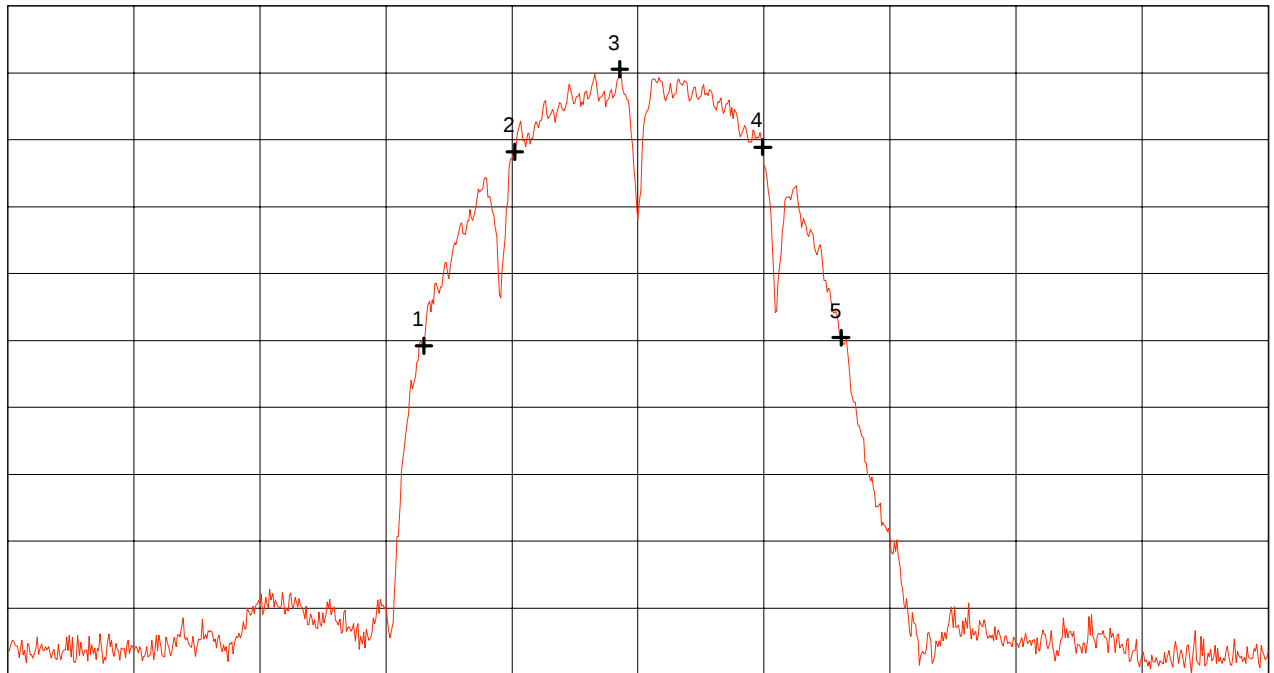
Result: Test passed

Note: -20 dB points for information only!

Ref.Level 10 dBm
5 dB dB/Div.

ATT 35 dB

Ref. Offset 21.1 dB



Start 2.417 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.467 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.433500 GHz	-15.40 dBm
Nr.2	2.437111 GHz	-0.90 dBm
Nr.3	2.441278 GHz	5.28 dBm
Nr.4	2.446944 GHz	-0.55 dBm
Nr.5	2.450056 GHz	-14.80 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Tested on: antenna connector

Delta f (-6 dB points) = 10.27 MHz

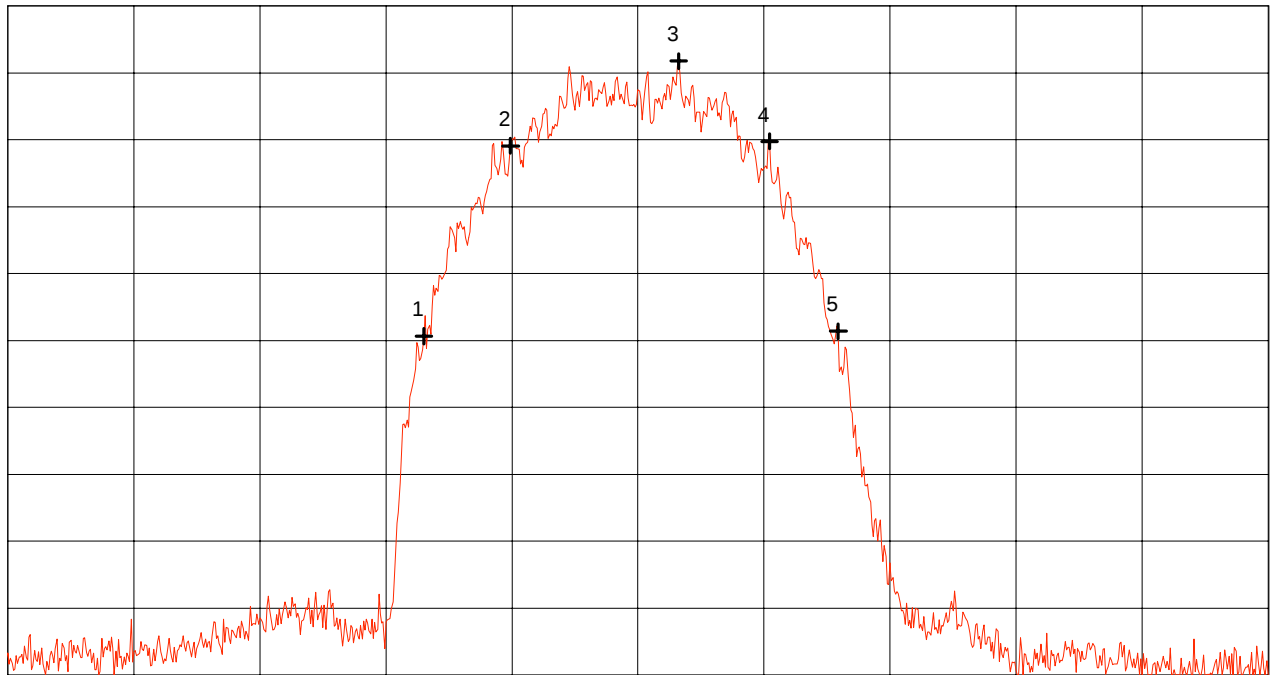
Result: Test passed

Note: -20 dB points for information only!

Ref.Level 10 dBm
5 dB dB/Div.

ATT 35 dB

Ref. Offset 21.1 dB



Start 2.437 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.453500 GHz	-14.69 dBm
Nr.2	2.456944 GHz	-0.46 dBm
Nr.3	2.463611 GHz	5.88 dBm
Nr.4	2.467222 GHz	-0.13 dBm
Nr.5	2.469944 GHz	-14.32 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

Tested on: antenna connector

Delta f (-6 dB points) = 9.94 MHz

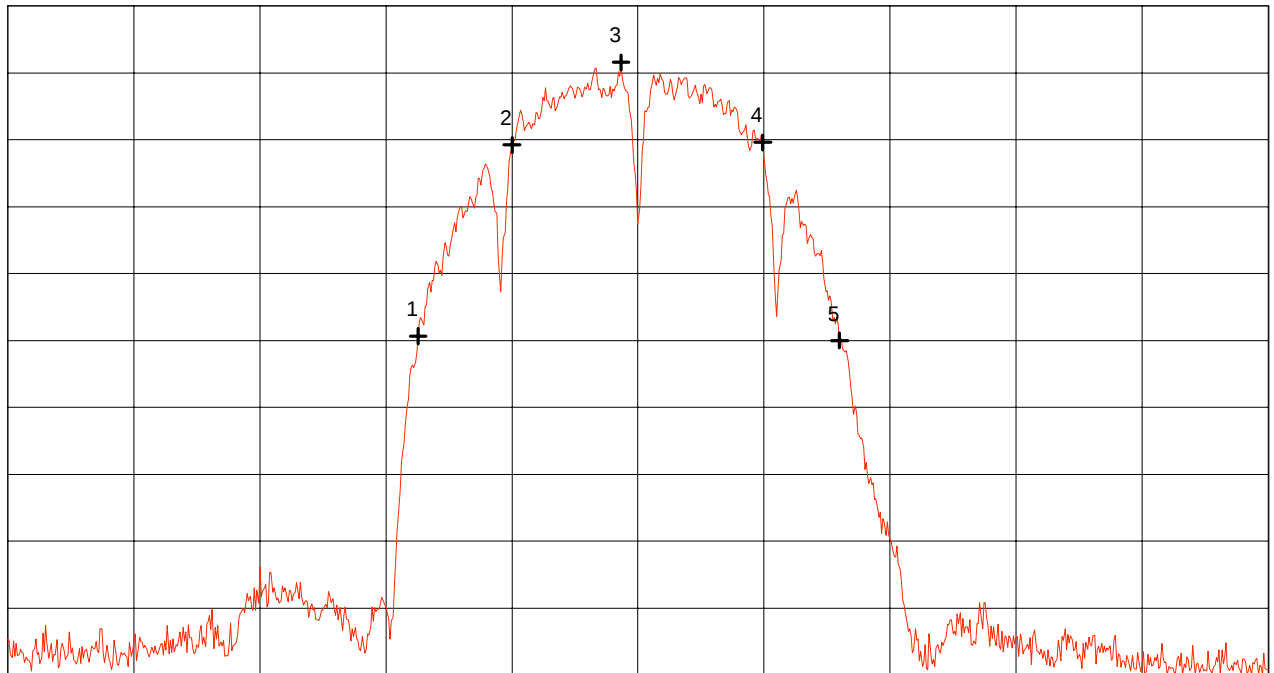
Result: Test passed

Note: -20 dB points for information only!

Ref.Level 10 dBm
5 dB dB/Div.

ATT 35 dB

Ref. Offset 21.1 dB



Start 2.437 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.453278 GHz	-14.68 dBm
Nr.2	2.457000 GHz	-0.39 dBm
Nr.3	2.461333 GHz	5.79 dBm
Nr.4	2.466944 GHz	-0.19 dBm
Nr.5	2.470000 GHz	-15.01 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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

Model: LUC PC24E-H-FC with AOU24-OD-10
 Type: RF-modem with external antenna for wireless LAN
 Serial No.: 99UT11411941 (RF-modem), sample no. 1 (antenna)
 Applicant: Lucent Technologies Nederland B.V.
 Date of test: 11/29/1999
 Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
 via ISA card ISAPC-B0 (#B2-23)
 - 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	14.5	0.5	15.0	See table below
	2.442	14.3	0.5	14.8	
	2.462	14.9	0.5	15.4	
5.5 Mbps	2.412	14.5	0.5	15.0	
	2.442	14.3	0.5	14.8	
	2.462	14.8	0.5	15.3	
11 Mbps	2.412	14.5	0.5	15.0	
	2.442	14.3	0.5	14.8	
	2.462	14.8	0.5	15.3	

Note:

Typical gain of external omni-directional-antenna AOU24-OD-10 is 10 dBi. Depending on antenna cable the effective antenna gain is calculated by subtracting the appropriate total insertion loss including attenuation caused by RF-IEEE cable and lightning arrestor.

Limit of 30 dBm is reduced by the amount of the effective antenna gain exceeding 6 dBi.

Antenna cable	Antenna gain AOU24-OD-10 [dBi]	Total insertion loss [dB]	Effective antenna gain		Limit [dBm]
			total value [dBi]	exceeding 6 dBi [dB]	
20 ft LMR400	10.0	2.9	7.1	1.1	28.9
20 ft LMR200	10.0	4.5	5.5	0.0	30.0
50 ft LMR400	10.0	4.5	5.5	0.0	30.0
75 ft LMR400	10.0	5.3	4.7	0.0	30.0

Result: The limit is kept

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

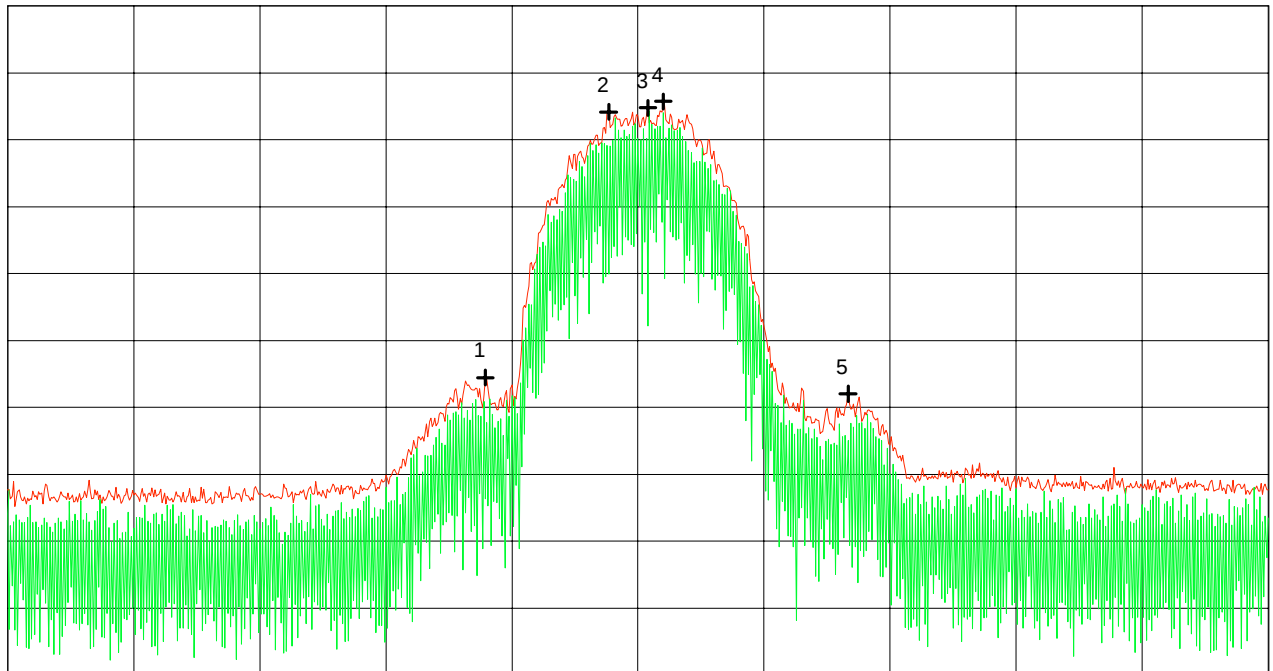
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Tested on: antenna connector

Ref.Level 20 dBm
10 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.362 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.462 GHz
SWP 40 ms

**** Multi Marker ****

Nr.1	2.399889 GHz	-35.55 dBm
Nr.2	2.409667 GHz	4.16 dBm
Nr.3	2.412778 GHz	4.77 dBm
Nr.4	2.414000 GHz	5.71 dBm
Nr.5	2.428667 GHz	-37.99 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

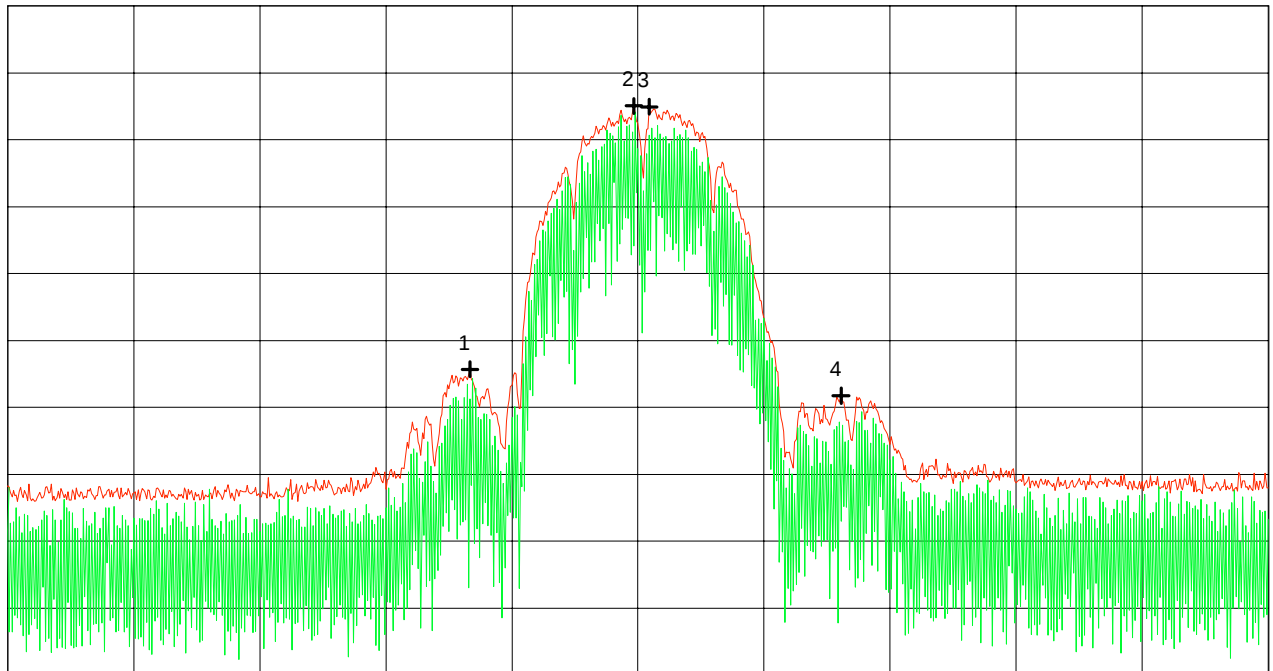
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

Tested on: antenna connector

Ref.Level 20 dBm
10 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.362 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.462 GHz
SWP 40 ms

**** Multi Marker ****

Nr.1	2.398667 GHz	-34.31 dBm
Nr.2	2.411667 GHz	5.05 dBm
Nr.3	2.412889 GHz	4.92 dBm
Nr.4	2.428111 GHz	-38.27 dBm
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

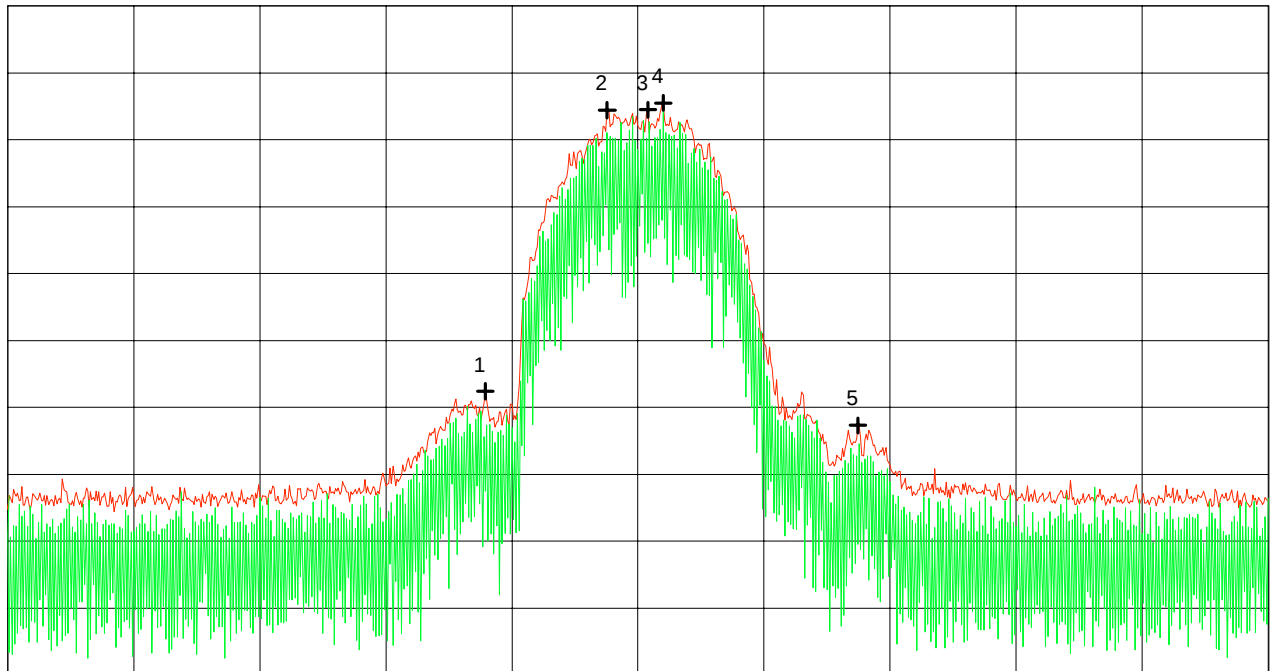
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Tested on: antenna connector

Ref.Level 20 dBm
10 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.392 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.492 GHz
SWP 40 ms

**** Multi Marker ****

Nr.1	2.429889 GHz	-37.59 dBm
Nr.2	2.439556 GHz	4.42 dBm
Nr.3	2.442778 GHz	4.47 dBm
Nr.4	2.444000 GHz	5.48 dBm
Nr.5	2.459444 GHz	-42.69 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

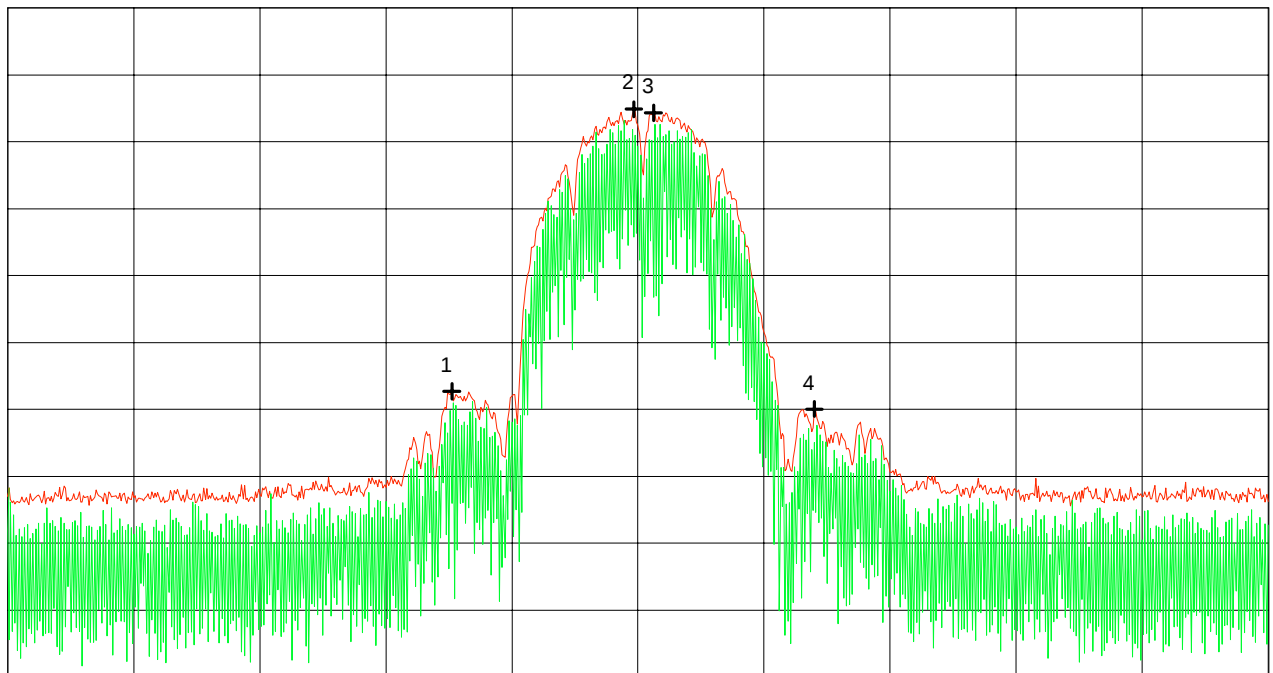
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

Tested on: antenna connector

Ref.Level 20 dBm
10 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.392 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.492 GHz
SWP 40 ms

**** Multi Marker ****

Nr.1	2.427222 GHz	-37.31 dBm
Nr.2	2.441667 GHz	4.85 dBm
Nr.3	2.443222 GHz	4.34 dBm
Nr.4	2.456000 GHz	-39.95 dBm
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

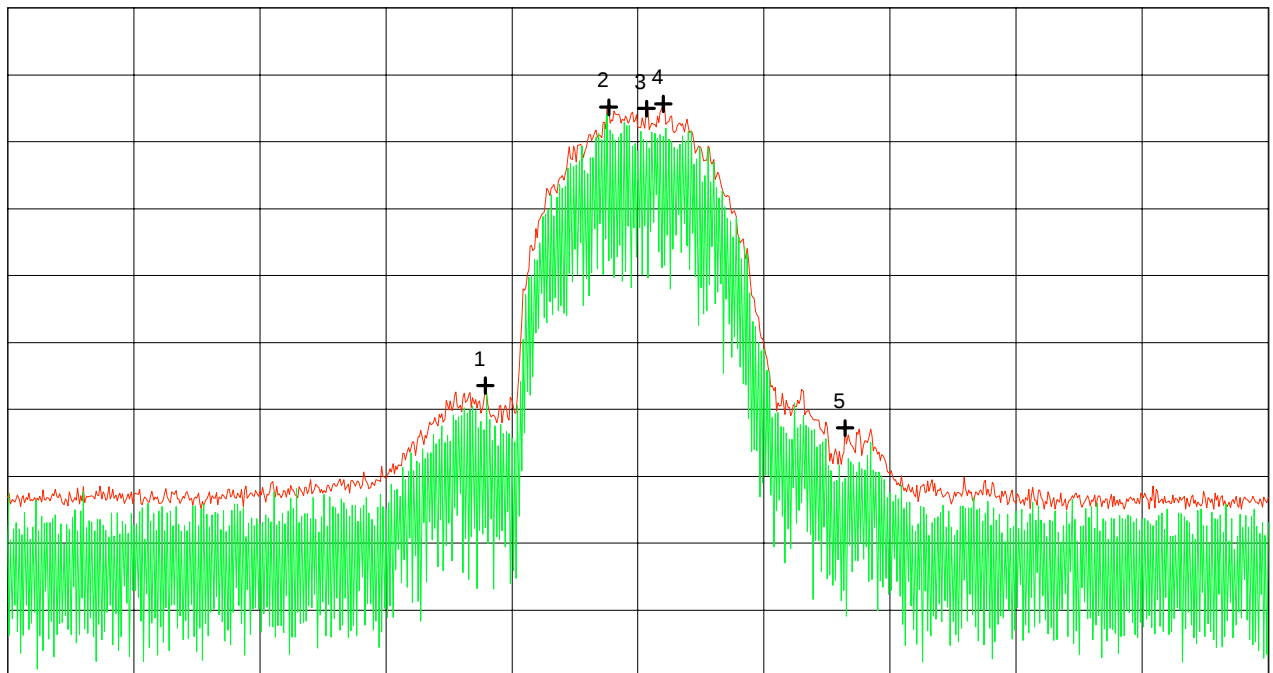
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Tested on: antenna connector

Ref.Level 20 dBm
10 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.412 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.512 GHz
SWP 40 ms

**** Multi Marker ****

Nr.1	2.449889 GHz	-36.44 dBm
Nr.2	2.459667 GHz	5.15 dBm
Nr.3	2.462667 GHz	4.97 dBm
Nr.4	2.464000 GHz	5.66 dBm
Nr.5	2.478444 GHz	-42.79 dBm
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

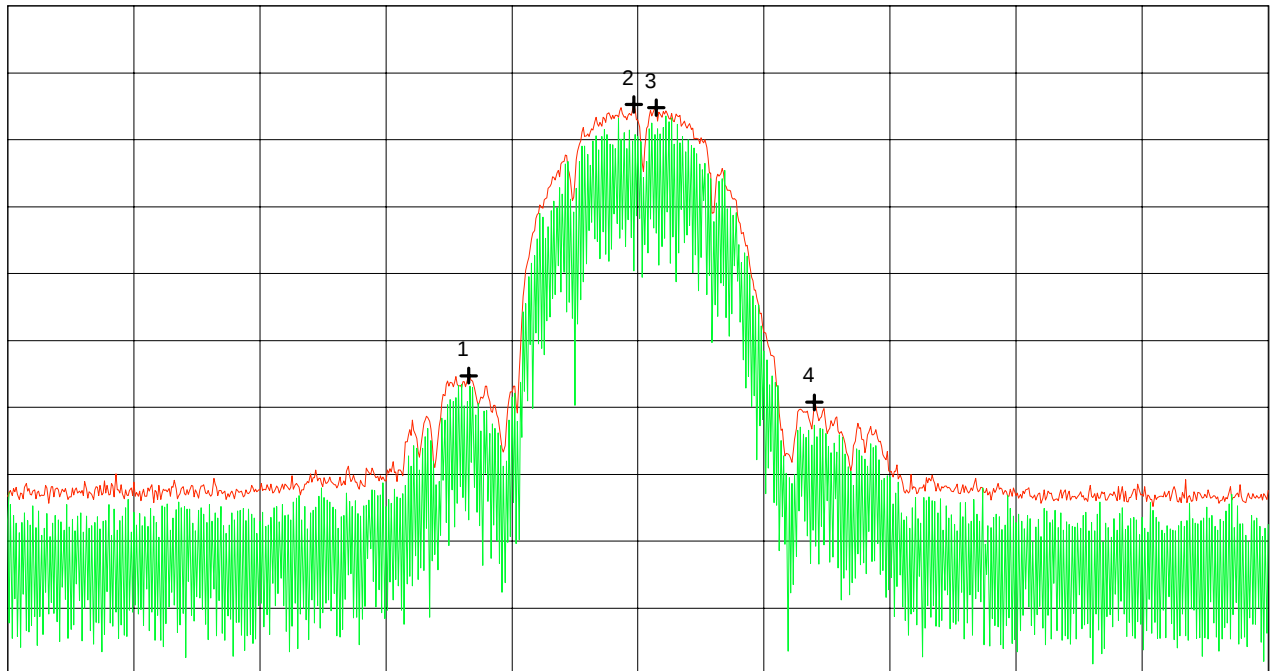
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

Tested on: antenna connector

Ref.Level 20 dBm
10 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.412 GHz
RBW 100 kHz

VBW 100 kHz

Stop 2.512 GHz
SWP 40 ms

**** Multi Marker ****

Nr.1	2.448556 GHz	-35.25 dBm
Nr.2	2.461667 GHz	5.28 dBm
Nr.3	2.463444 GHz	4.80 dBm
Nr.4	2.476000 GHz	-39.26 dBm
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

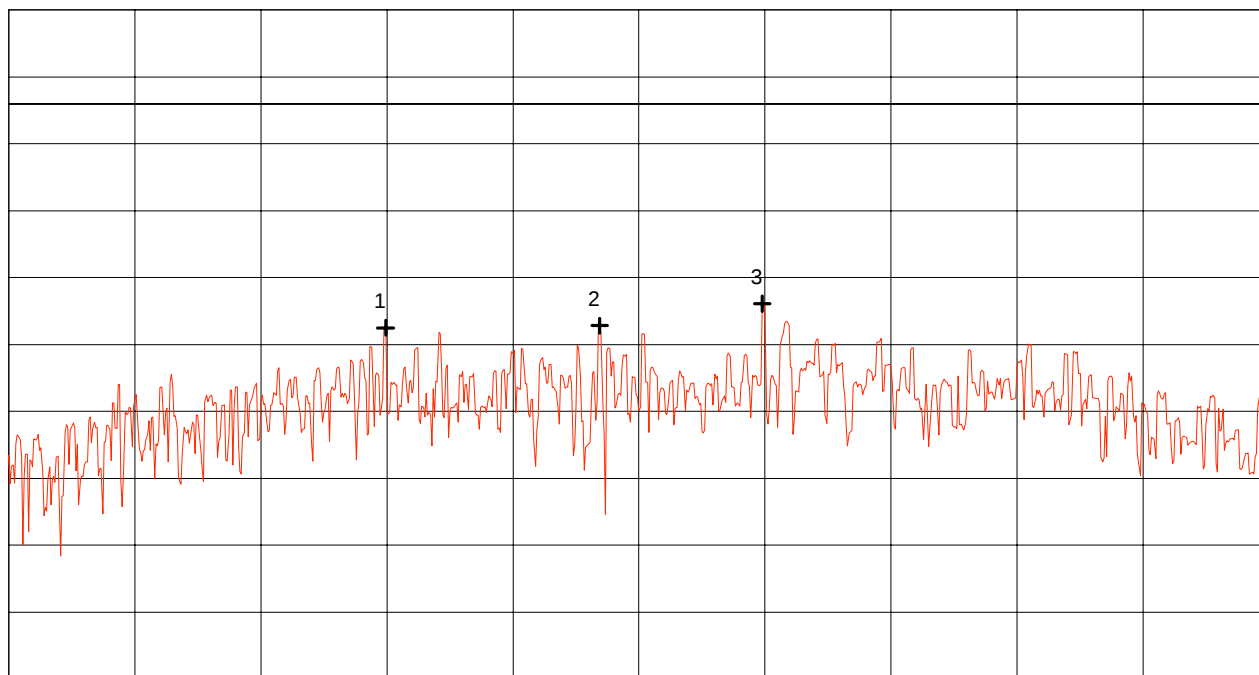
Tested on: antenna connector

Note: Prescan for zooming into maximum!

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.407 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.417 GHz
SWP 3.40 s

**** Multi Marker ****

Nr.1	2.409989 GHz	-8.76 dBm
Nr.2	2.411689 GHz	-8.60 dBm
Nr.3	2.412978 GHz	-6.95 dBm
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

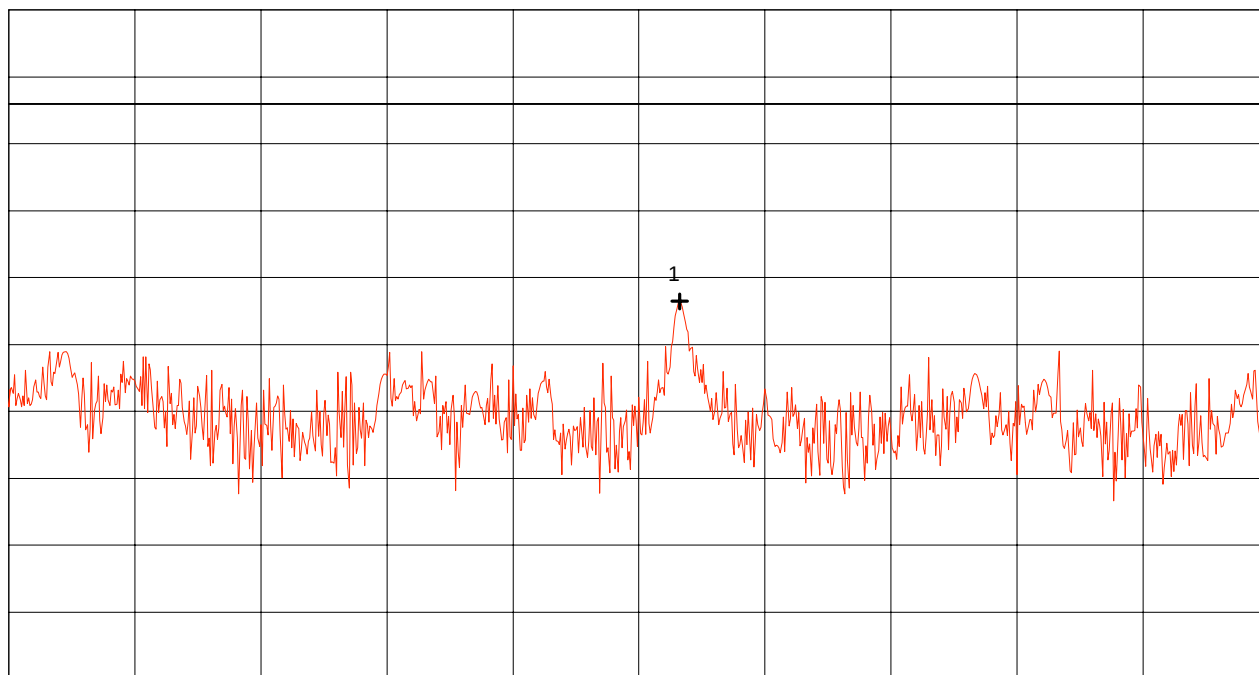
Tested on: antenna connector

Result: Test passed

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.412828 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.413128 GHz
SWP 100 s

**** Multi Marker ****

Nr.1	2.412988 GHz	-6.77 dBm
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

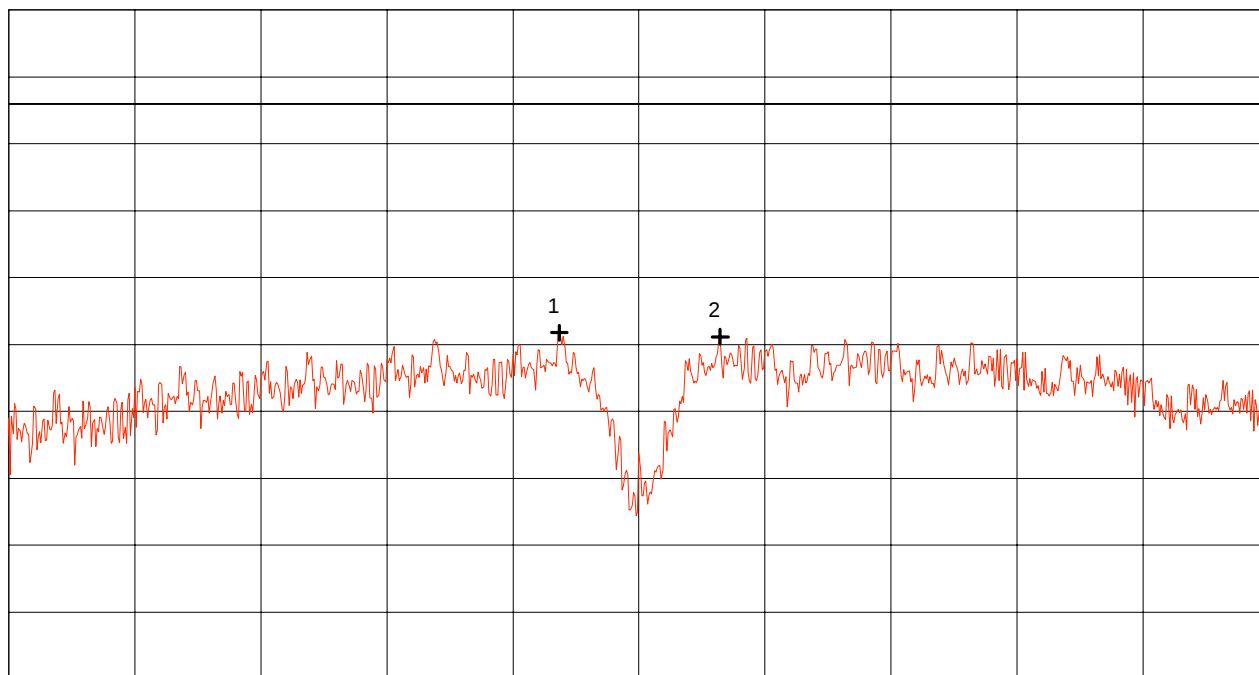
Tested on: antenna connector

Note: Prescan for zooming into maximum!

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.407 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.417 GHz
SWP 3.40 s

**** Multi Marker ****

Nr.1	2.411367 GHz	-9.12 dBm
Nr.2	2.412644 GHz	-9.42 dBm
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

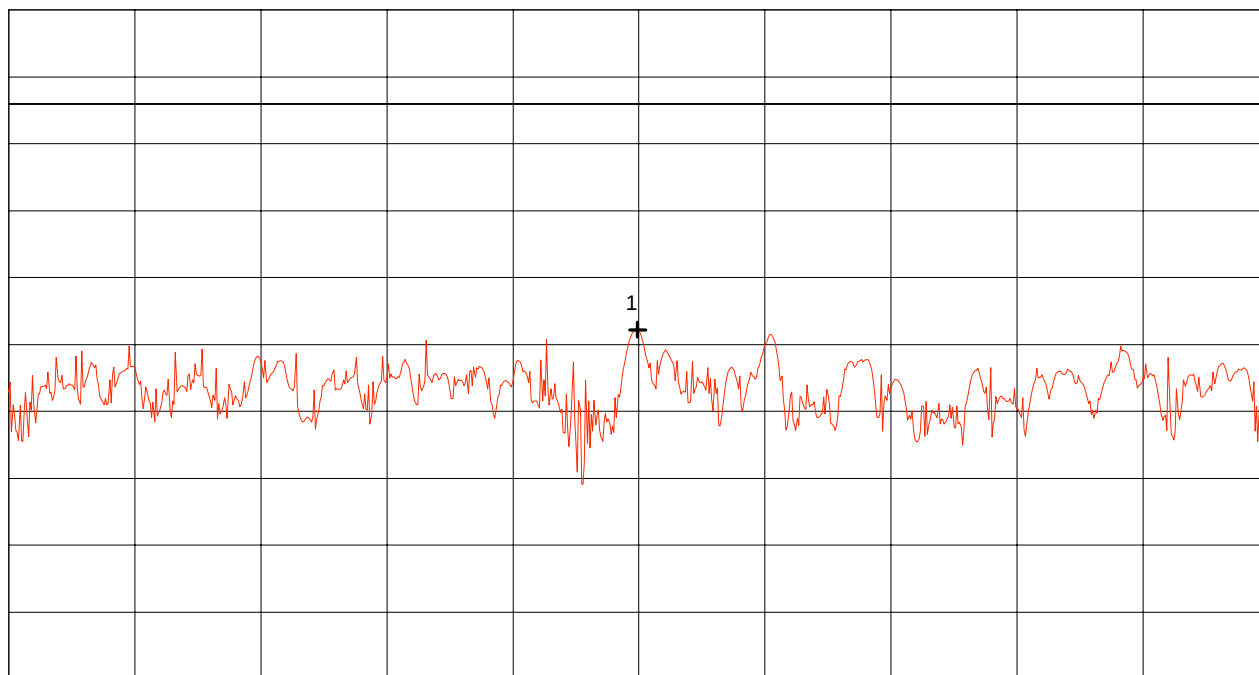
Tested on: antenna connector

Result: Test passed

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.411217 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.411517 GHz
SWP 100 s

**** Multi Marker ****

Nr.1	2.411367 GHz	-8.90 dBm
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

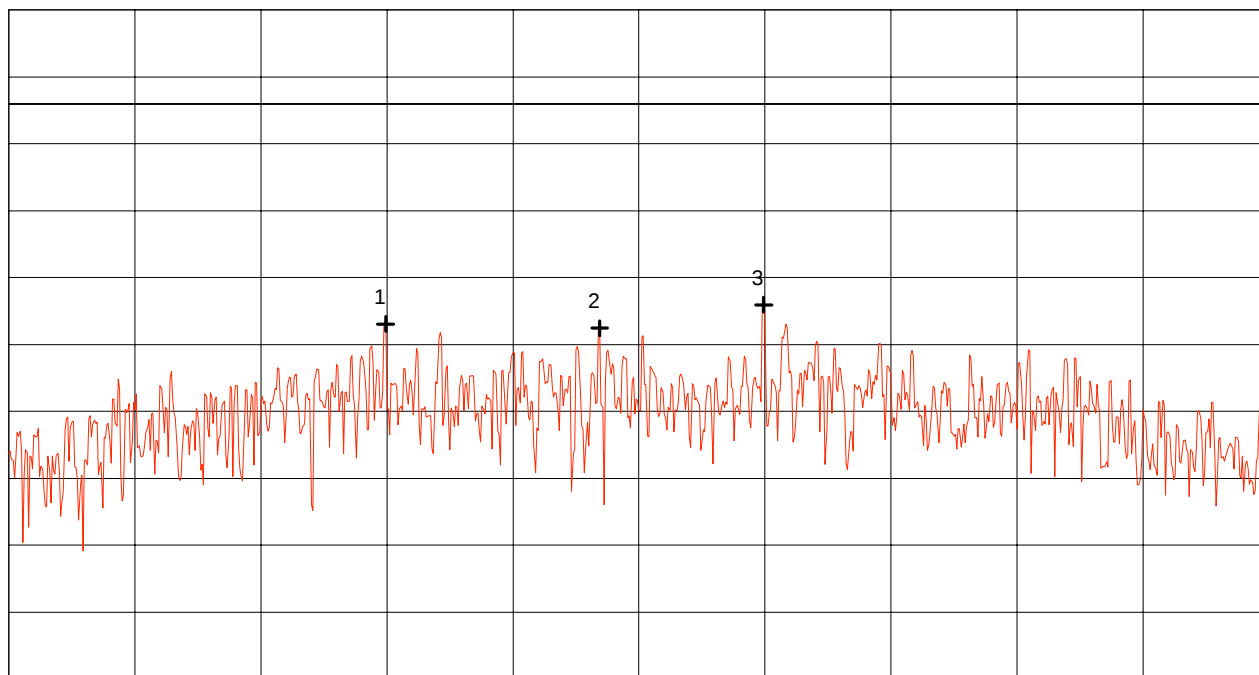
Tested on: antenna connector

Note: Prescan for zooming into maximum!

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.437 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.447 GHz
SWP 3.40 s

**** Multi Marker ****

Nr.1	2.439989 GHz	-8.46 dBm
Nr.2	2.441689 GHz	-8.79 dBm
Nr.3	2.442989 GHz	-7.04 dBm
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442 \text{ GHz}$

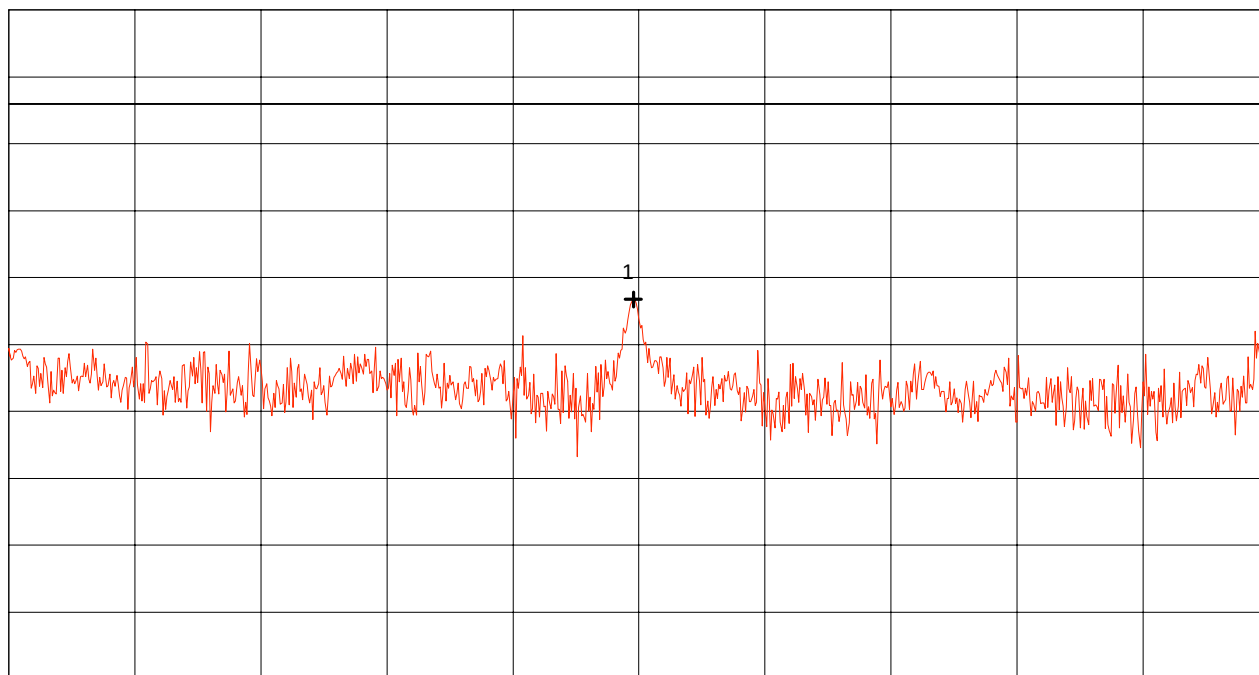
Tested on: antenna connector

Result: Test passed

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.442839 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.443139 GHz
SWP 100 s

**** Multi Marker ****

Nr.1	2.442988 GHz	-6.63 dBm
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

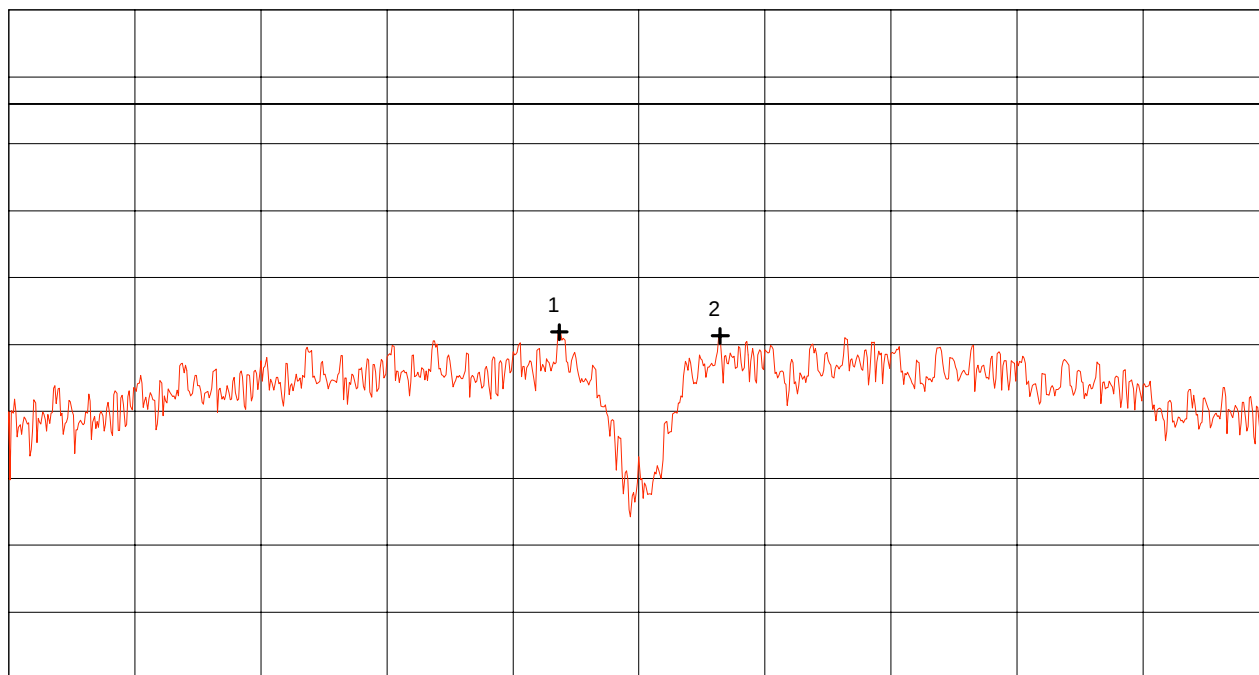
Tested on: antenna connector

Note: Prescan for zooming into maximum!

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.437 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.447 GHz
SWP 3.40 s

**** Multi Marker ****

Nr.1	2.441367 GHz	-9.08 dBm
Nr.2	2.442644 GHz	-9.36 dBm
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

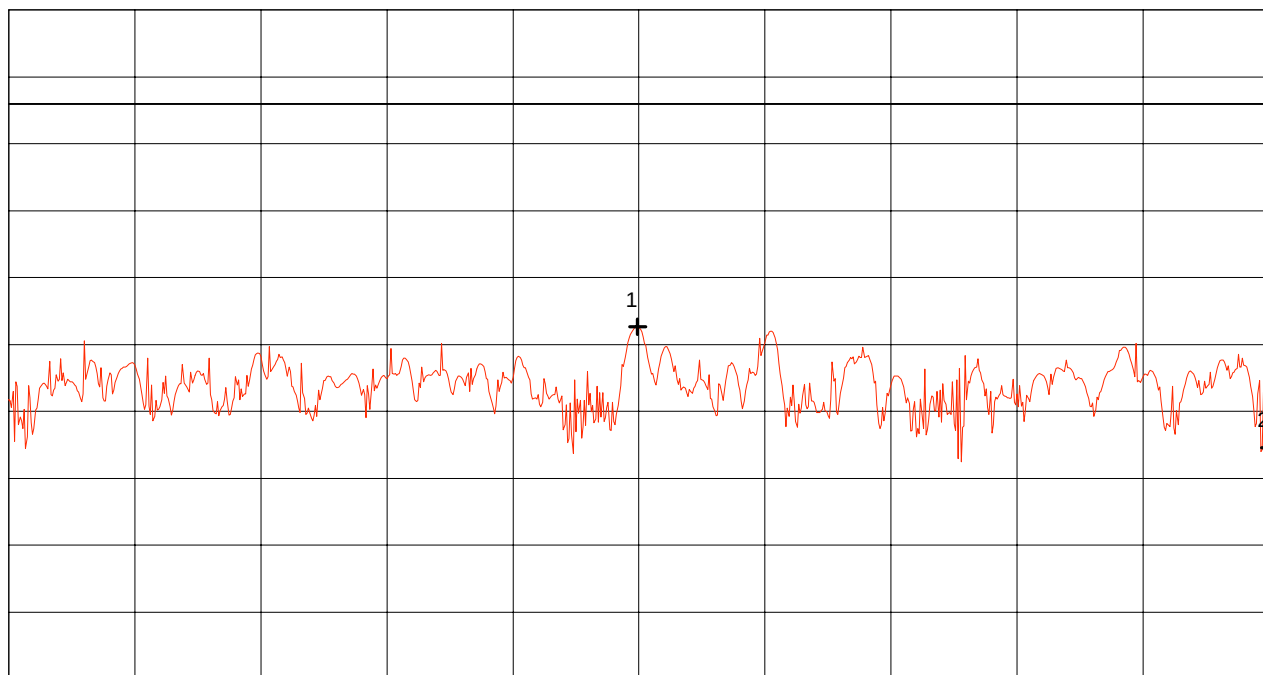
Tested on: antenna connector

Result: Test passed

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.441217 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.441517 GHz
SWP 100 s

**** Multi Marker ****

Nr.1	2.441367 GHz	-8.67 dBm
Nr.2	2.441517 GHz	-17.70 dBm
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

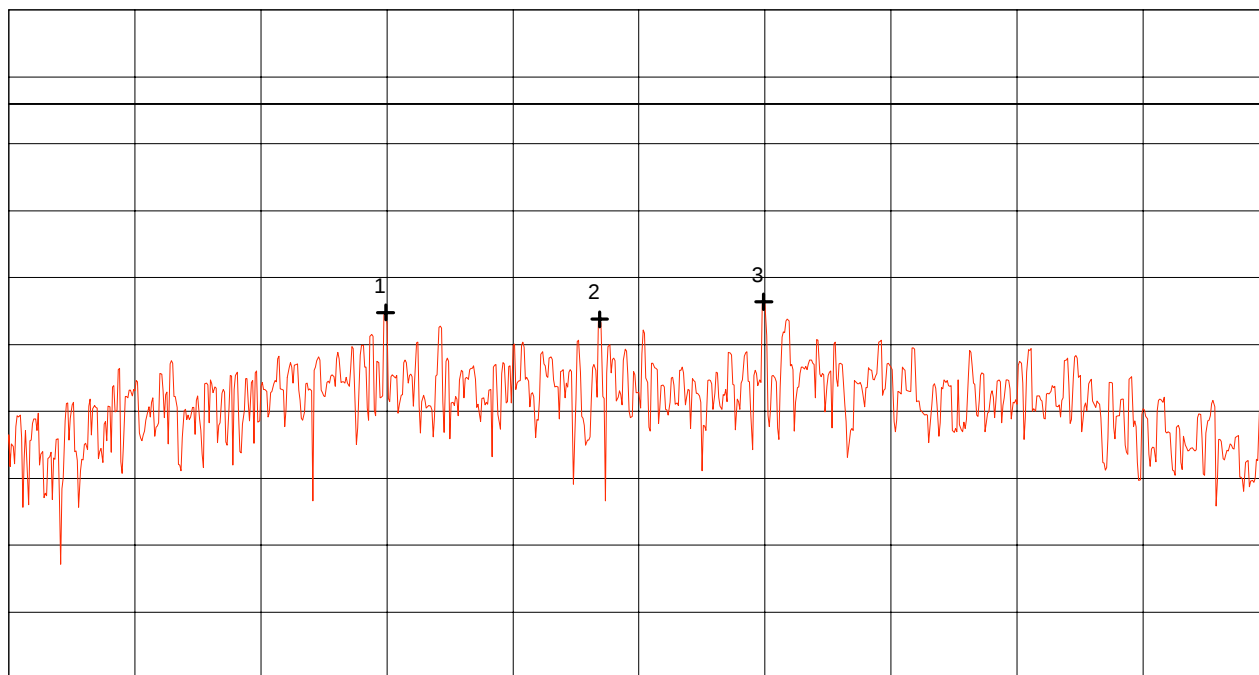
Tested on: antenna connector

Note: Prescan for zooming into maximum!

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.457 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.467 GHz
SWP 3.40 s

**** Multi Marker ****

Nr.1	2.459989 GHz	-7.61 dBm
Nr.2	2.461689 GHz	-8.12 dBm
Nr.3	2.462989 GHz	-6.81 dBm
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

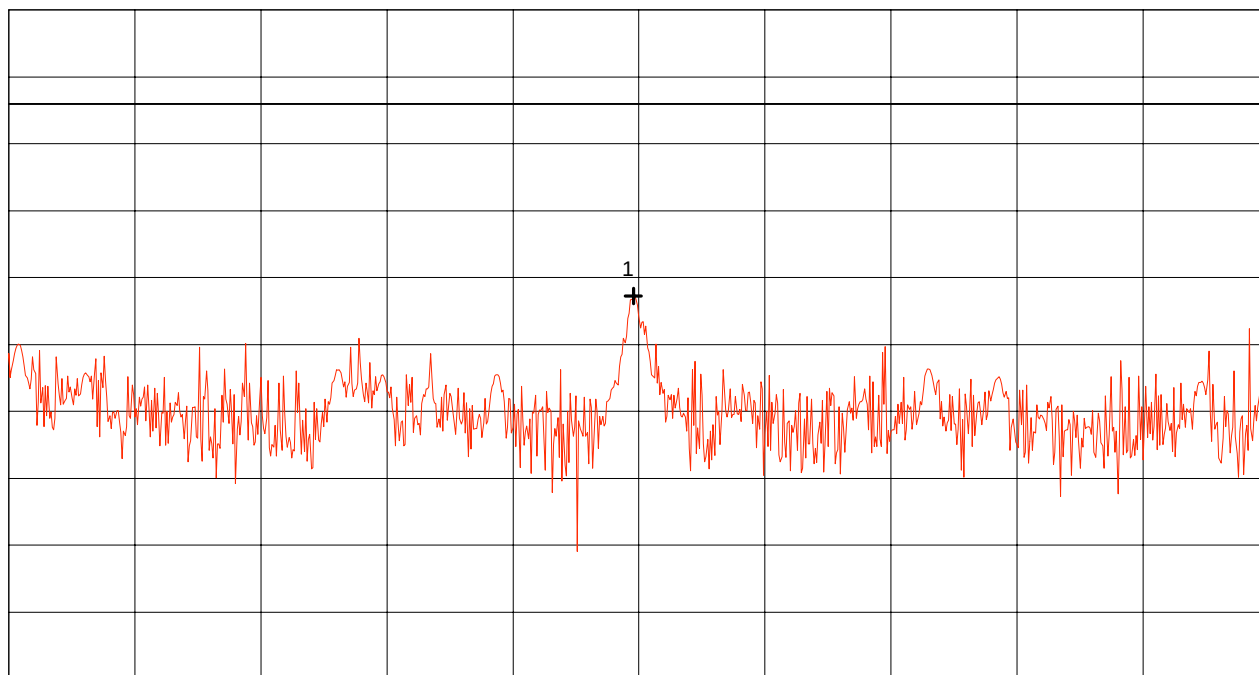
Tested on: antenna connector

Result: Test passed

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.462839 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.463139 GHz
SWP 100 s

**** Multi Marker ****

Nr.1	2.462988 GHz	-6.38 dBm
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

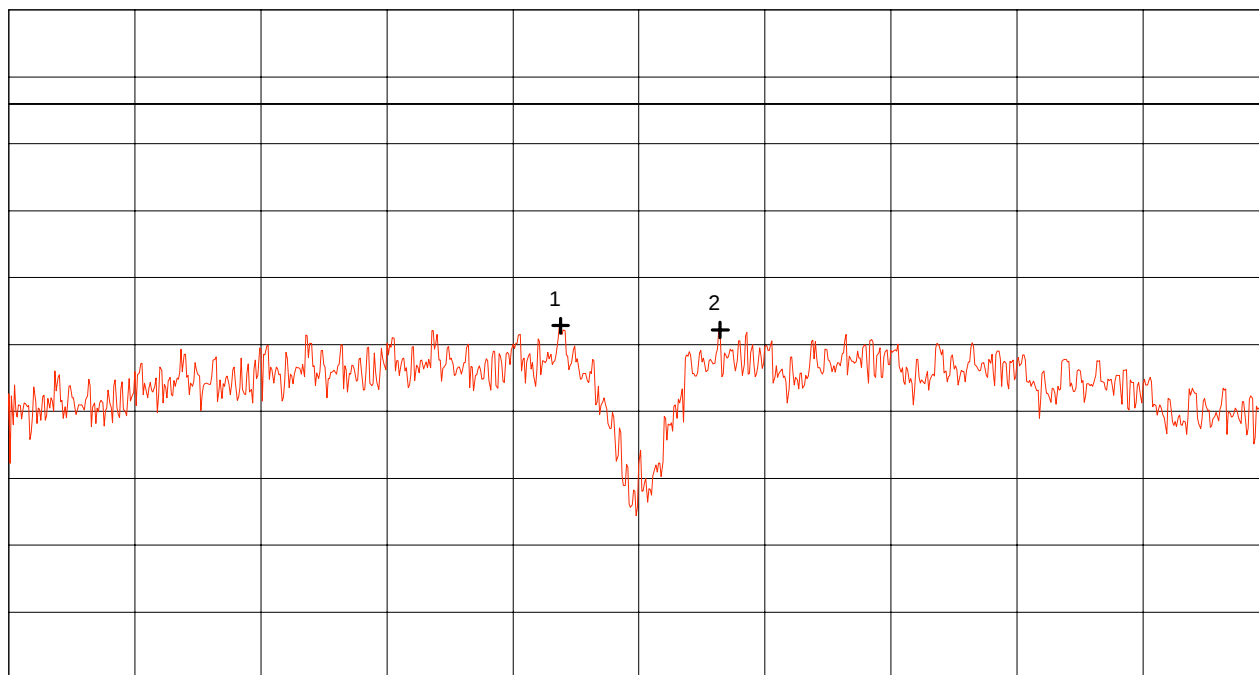
Tested on: antenna connector

Note: Prescan for zooming into maximum!

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.457 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.467 GHz
SWP 3.40 s

**** Multi Marker ****

Nr.1	2.461378 GHz	-8.59 dBm
Nr.2	2.462644 GHz	-8.92 dBm
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
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Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

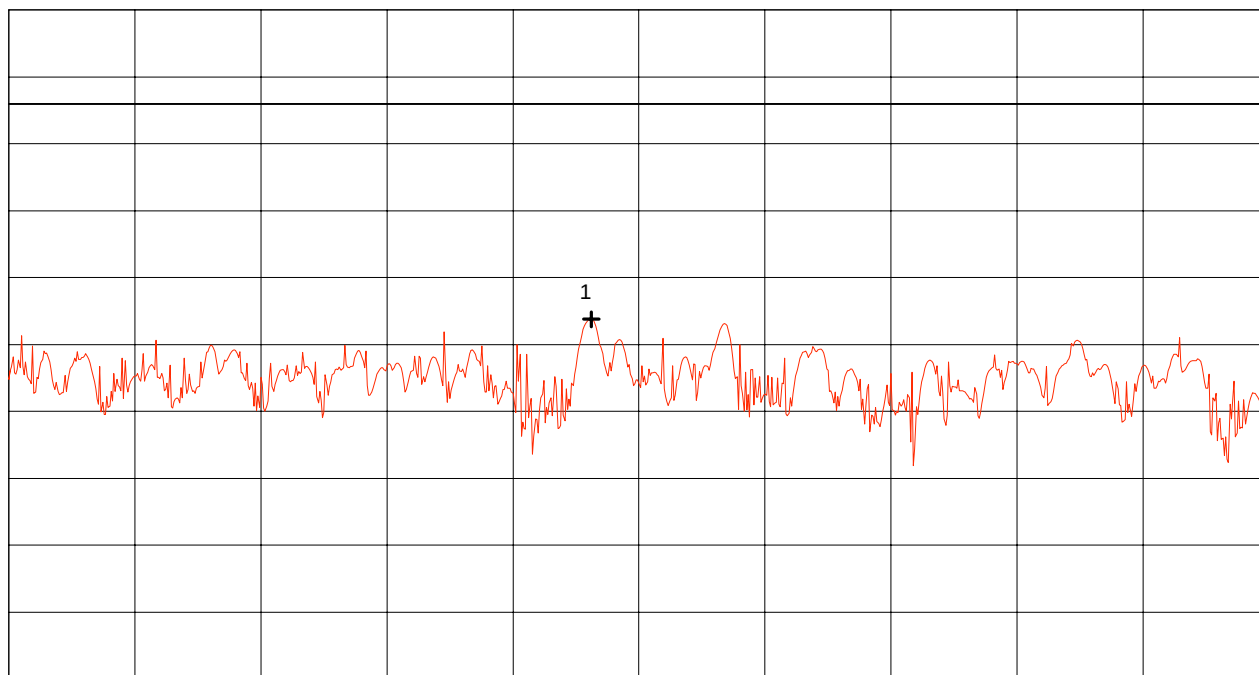
Tested on: antenna connector

Result: Test passed

Ref.Level 15 dBm
5 dB dB/Div.

ATT 15 dB

Ref. Offset 21.1 dB



Start 2.461228 GHz
RBW 3 kHz

VBW 100 kHz

Stop 2.461528 GHz
SWP 100 s

**** Multi Marker ****

Nr.1	2.461367 GHz	-8.12 dBm
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90733-1

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Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- TX mode with $f = 2.412 \text{ GHz}$

Tested on: antenna connector

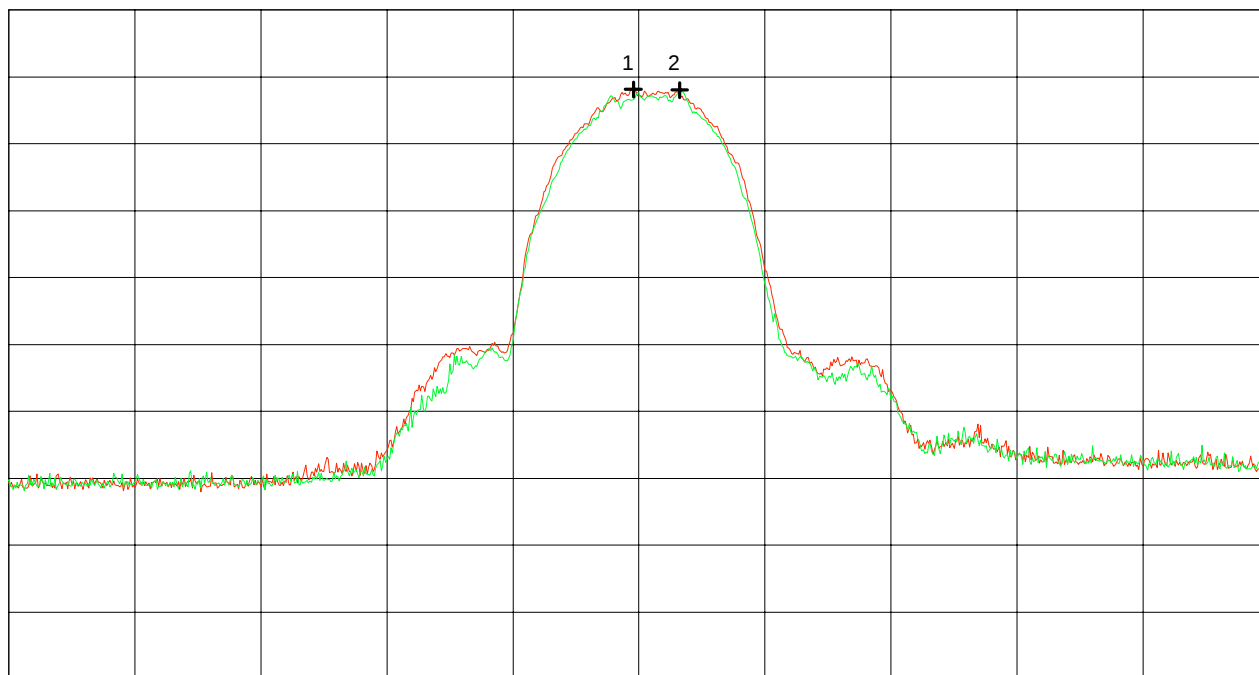
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

Note:
Prescan (conducted) for selection of worst case bit rate for radiated emission at band edges

Ref.Level 130 dB μ V
10 dB dB/Div.

ATT 15 dB

Ref. Offset 11.1 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.462 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.411556 GHz	118.10 dB μ V	(A)
Nr.2	2.415222 GHz	118.03 dB μ V	(B)
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Date:
12/03/1999

Project-No.:
56305-90733-1

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Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- TX mode with $f = 2.412 \text{ GHz}$

Tested on: antenna connector

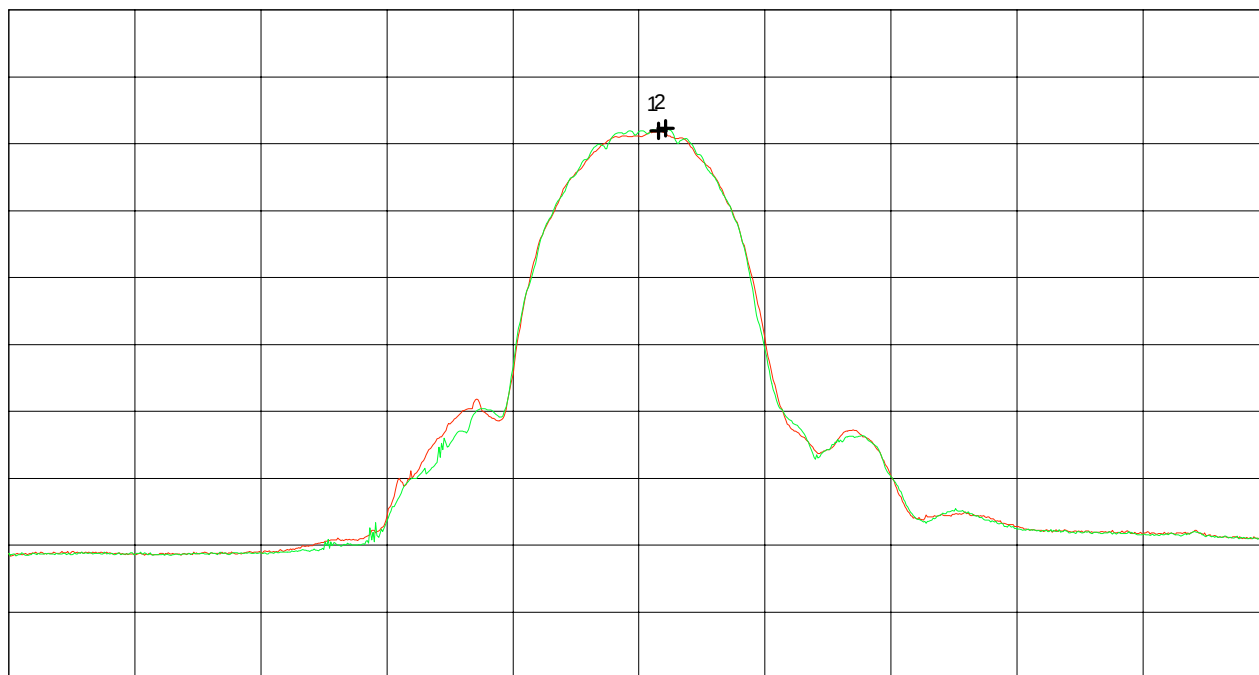
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

Note:
Prescan (conducted) for selection of worst case bit rate for radiated emission at band edges

Ref.Level 130 dB μ V
10 dB dB/Div.

ATT 15 dB

Ref. Offset 11.1 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.462 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.413556 GHz	111.93 dB μ V	(A)
Nr.2	2.414111 GHz	112.31 dB μ V	(B)
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Date:
12/03/1999

Project-No.:
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Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- TX mode with $f = 2.442 \text{ GHz}$

Tested on: antenna connector

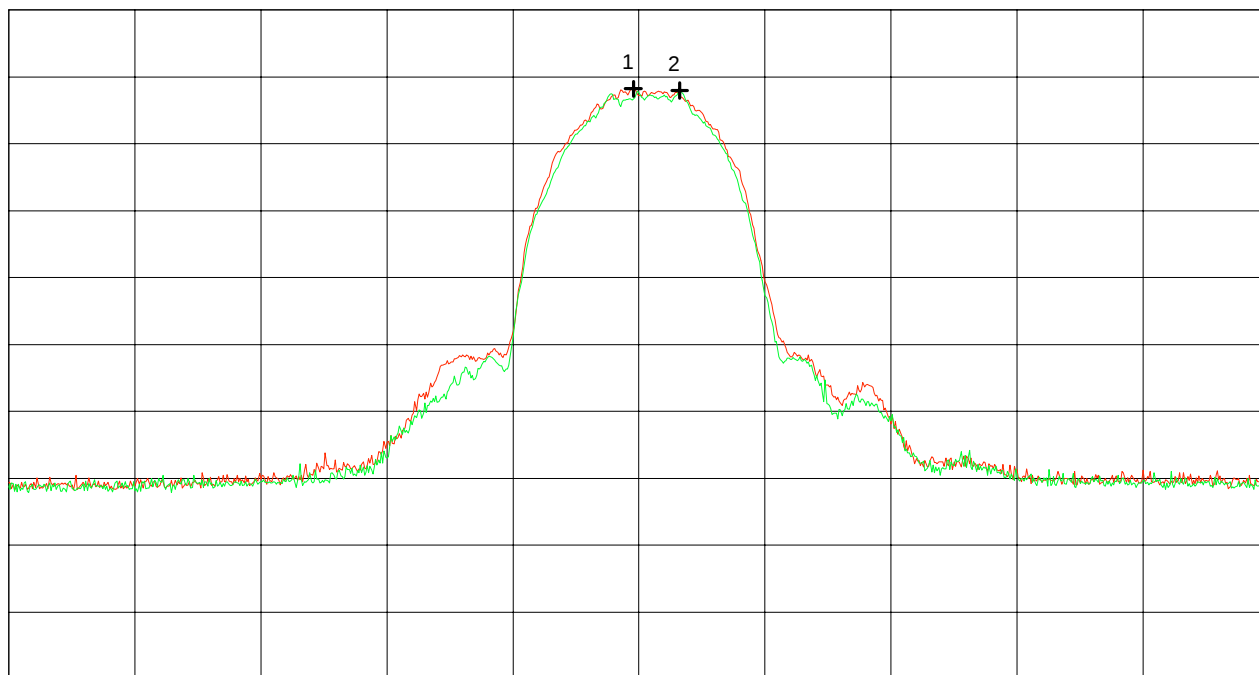
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

Note:
Prescan (conducted) for selection of worst case bit rate for radiated emission at band edges

Ref.Level 130 dB μ V
10 dB dB/Div.

ATT 15 dB

Ref. Offset 11.1 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.492 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.441556 GHz	118.23 dB μ V	(A)
Nr.2	2.445222 GHz	117.95 dB μ V	(B)
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Date:
12/03/1999

Project-No.:
56305-90733-1

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Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- TX mode with $f = 2.442 \text{ GHz}$

Tested on: antenna connector

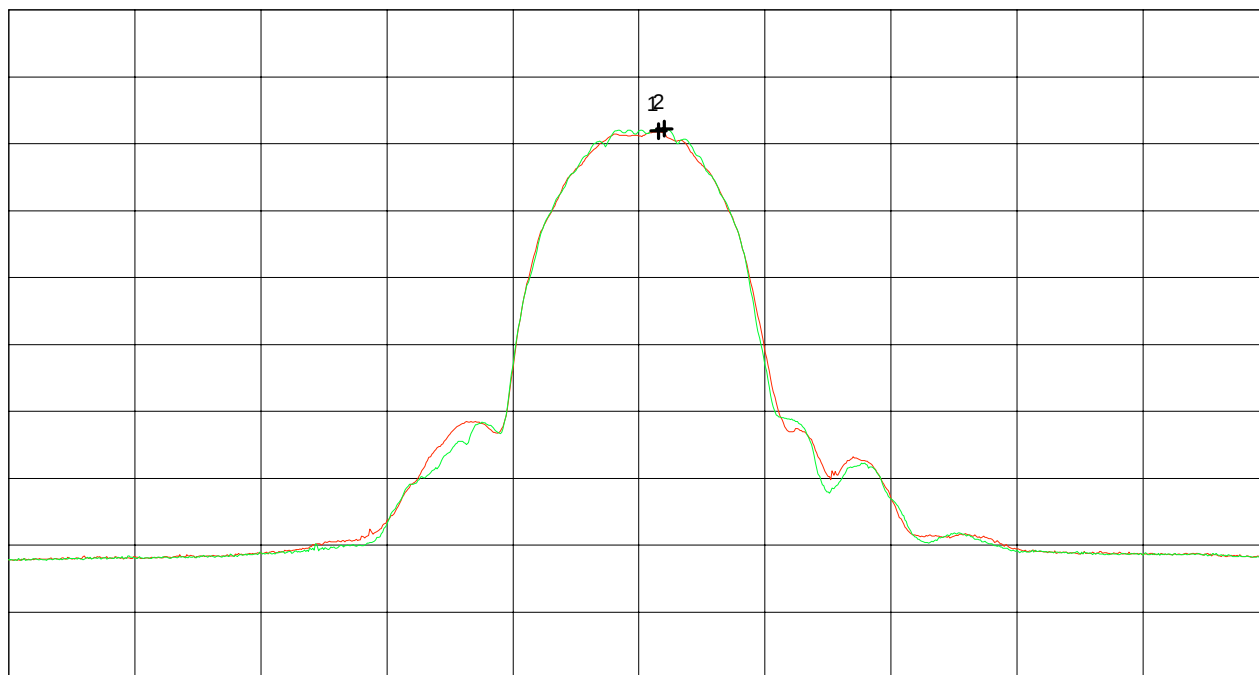
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

Note:
Prescan (conducted) for selection of worst case bit rate for radiated emission at band edges

Ref.Level 130 dB μ V
10 dB dB/Div.

ATT 15 dB

Ref. Offset 11.1 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.492 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.443556 GHz	111.91 dB μ V	(A)
Nr.2	2.444000 GHz	112.26 dB μ V	(B)
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Date:
12/03/1999

Project-No.:
56305-90733-1

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Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- TX mode with $f = 2.462$ GHz

Tested on: antenna connector

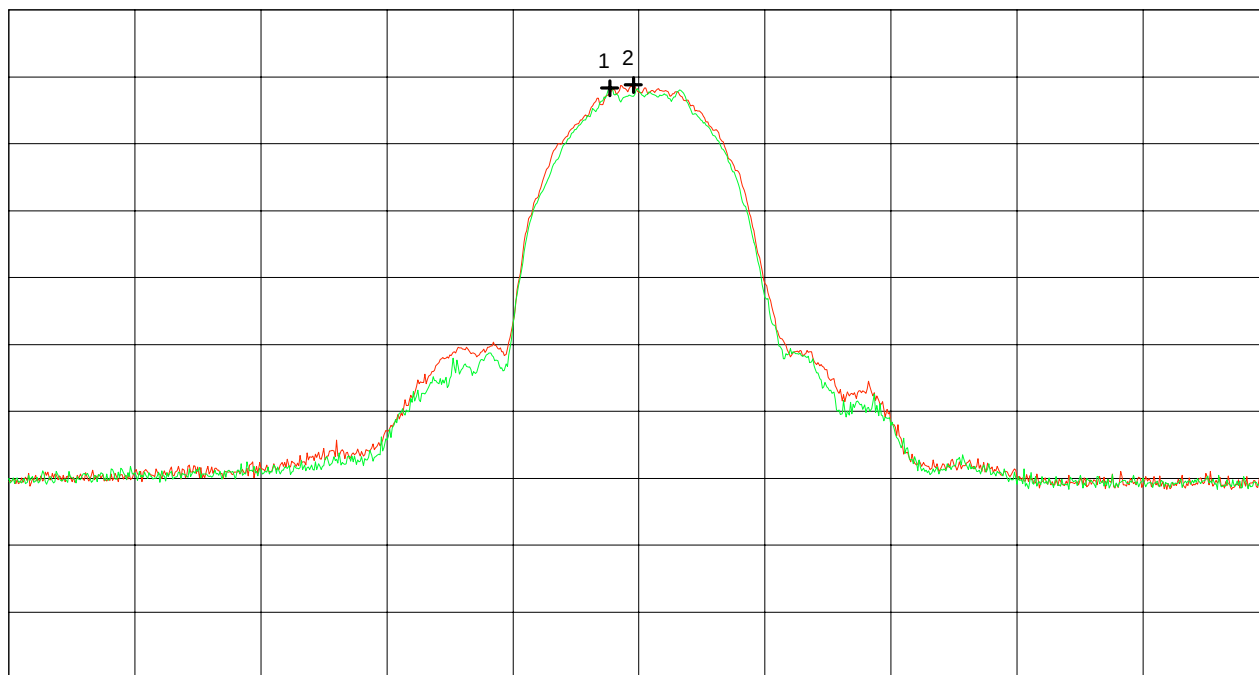
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

Note:
Prescan (conducted) for selection of worst case bit rate for radiated emission at band edges

Ref.Level 130 dB μ V
10 dB dB/Div.

ATT 15 dB

Ref. Offset 11.1 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.512 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.459667 GHz	118.33 dB μ V
Nr.2	2.461556 GHz	118.79 dB μ V
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/03/1999

Project-No.:
56305-90733-1

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Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- TX mode with $f = 2.462 \text{ GHz}$

Tested on: antenna connector

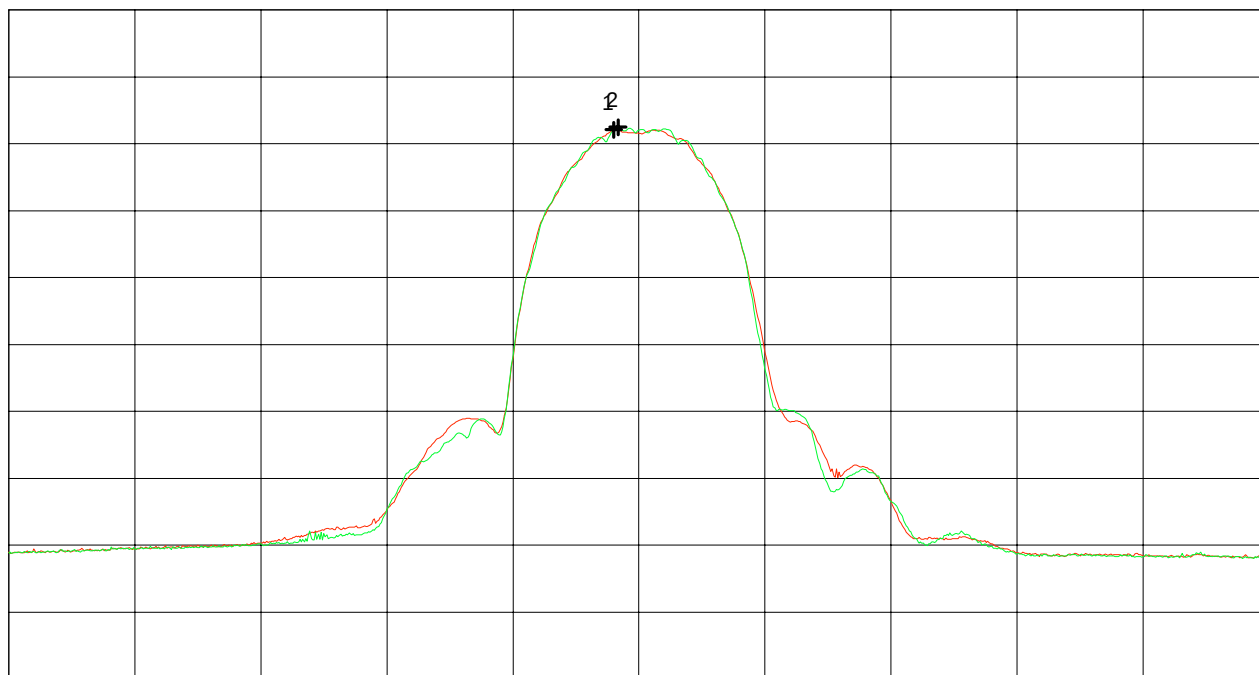
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

Note:
Prescan (conducted) for selection of worst case bit rate for radiated emission at band edges

Ref.Level 130 dB μ V
10 dB dB/Div.

ATT 15 dB

Ref. Offset 11.1 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.512 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.460000 GHz	112.08 dB μ V	(B)
Nr.2	2.460333 GHz	112.47 dB μ V	(A)
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Date:
12/03/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 11/16/1999 Operator: R. Heller

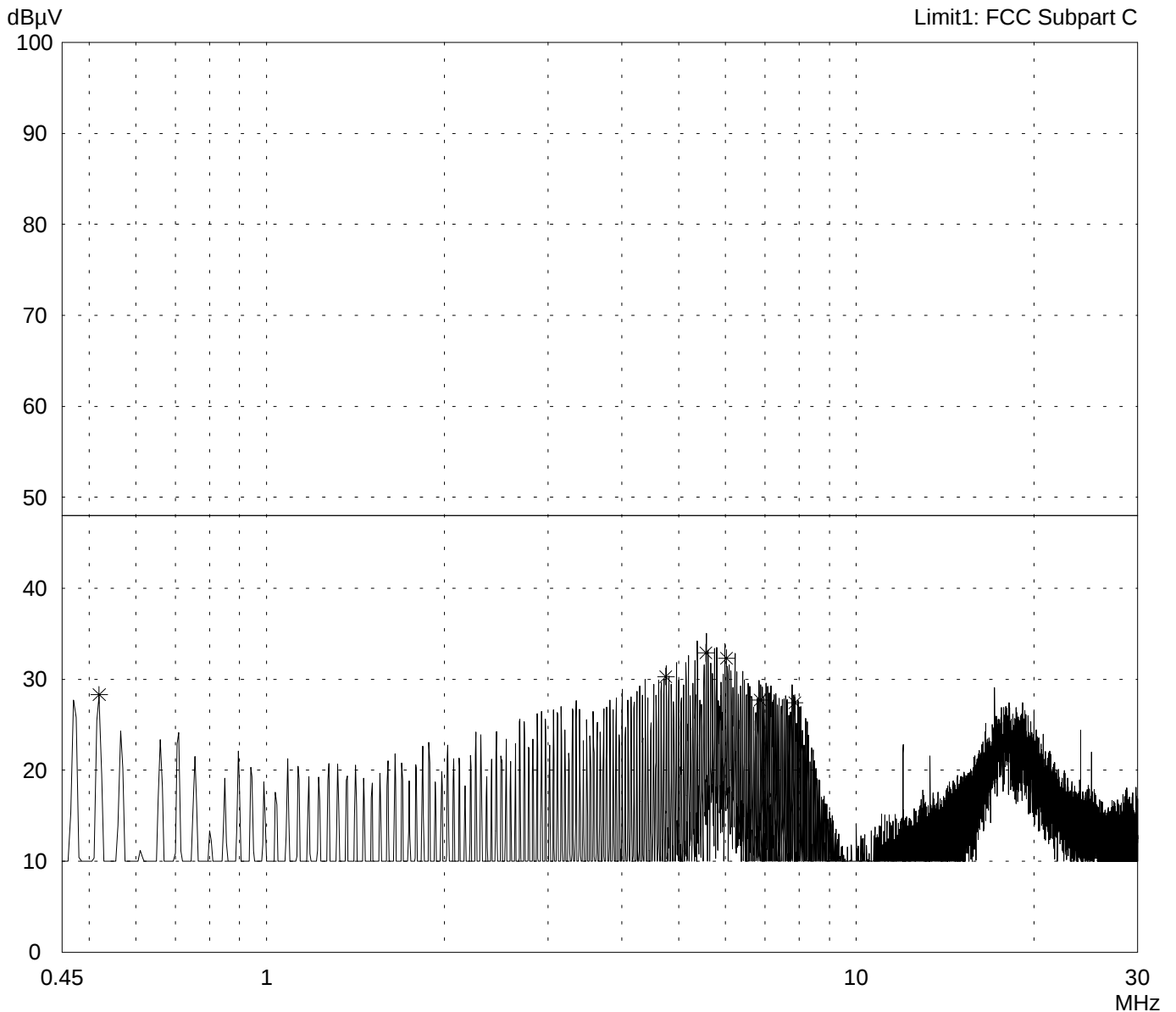
Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
-
- operating with bit rate 11 Mbps
-
- TX mode with $f = 2.412$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.412$ GHz	
Serial no.: 99UT11411941		
Applicant: Lucent Technologies Nederland B.V.		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord personal computer (EUT) Phase L1		
Date of test: 11/16/1999		Operator: R. Heller
Test performed: automatically		File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.520	28.3		28.3	48.0	
4.755	30.3		30.3	48.0	
5.560	32.9		32.9	48.0	
6.025	32.3		32.3	48.0	
6.870	27.7		27.7	48.0	
7.859	27.4		27.4	48.0	
17.130	22.3		22.3	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 64 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

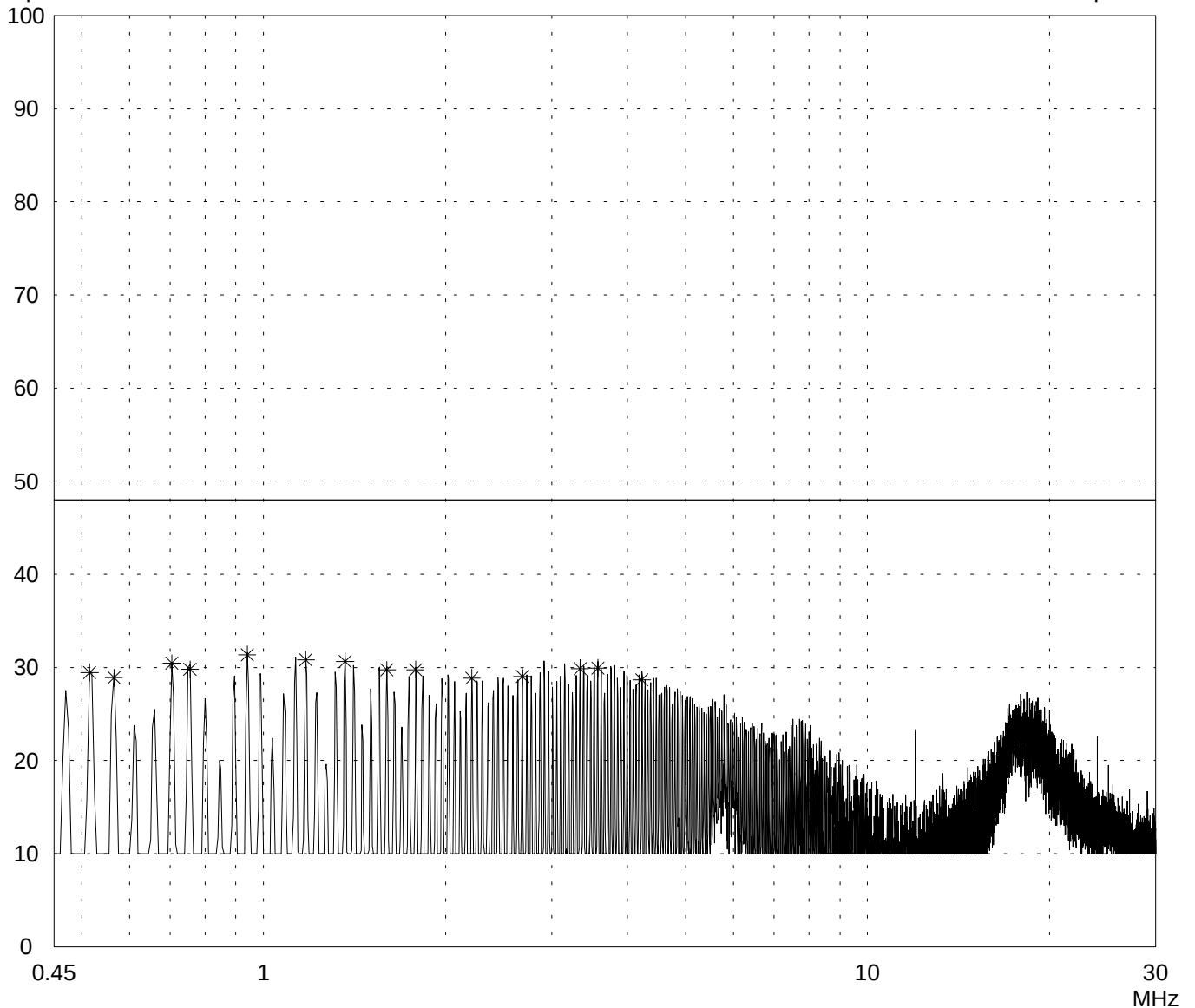
- TX mode with $f = 2.412$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.412$ GHz	
Serial no.: 99UT11411941		
Applicant: Lucent Technologies Nederland B.V.		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord personal computer (EUT) Phase N		
Date of test: 11/16/1999		Operator: R. Heller
Test performed: automatically		File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.515	29.5		29.5	48.0	
0.565	28.9		28.9	48.0	
0.705	30.4		30.4	48.0	
0.755	29.8		29.8	48.0	
0.940	31.4		31.4	48.0	
1.175	30.8		30.8	48.0	
1.365	30.6		30.6	48.0	
1.600	29.7		29.7	48.0	
1.785	29.8		29.8	48.0	
2.210	28.9		28.9	48.0	
2.680	29.0		29.0	48.0	
3.340	29.9		29.9	48.0	
3.575	29.9		29.9	48.0	
4.230	28.7		28.7	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 66 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

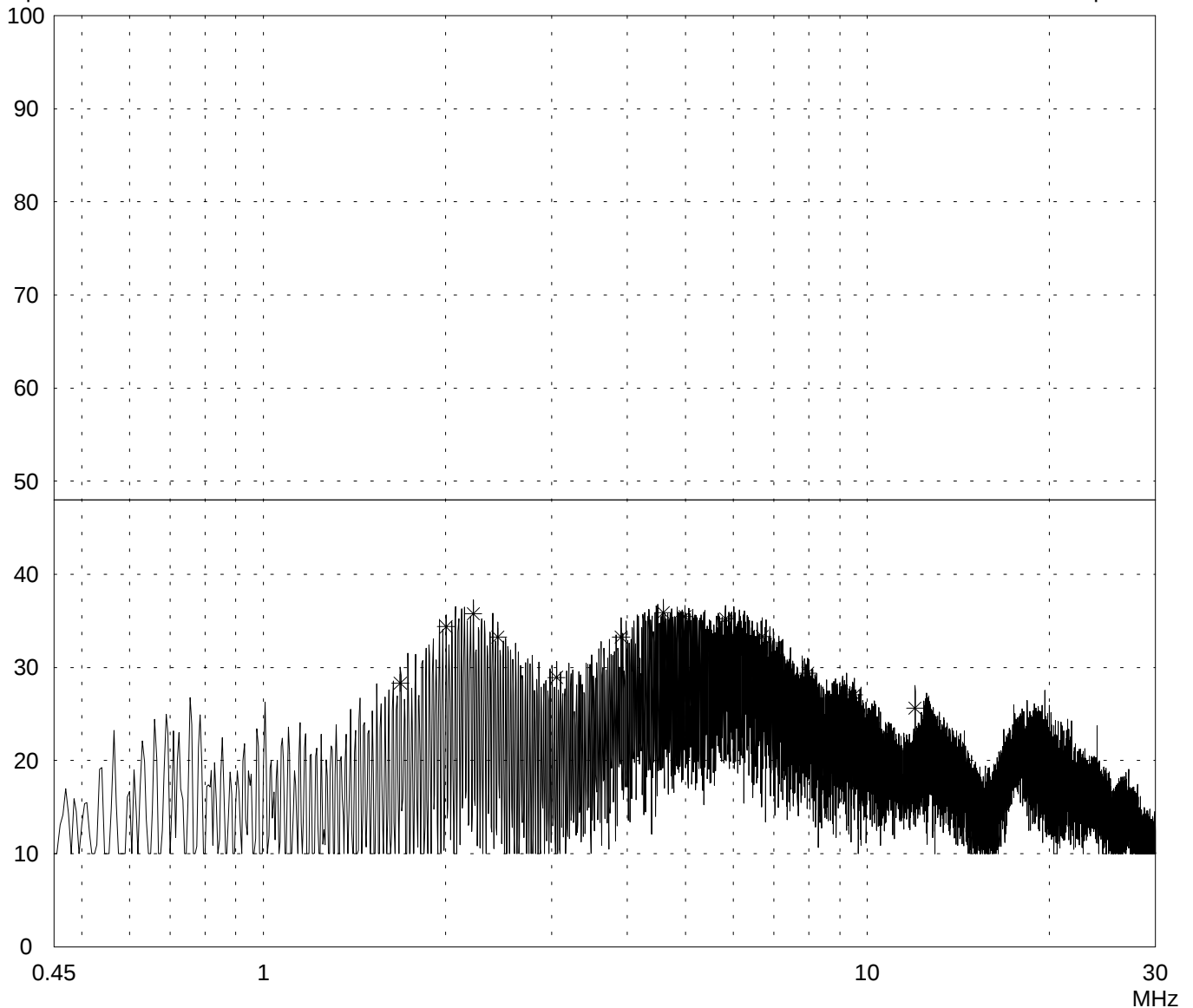
- TX mode with $f = 2.412$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
1.685	28.3		28.3	48.0	
2.005	34.4		34.4	48.0	
2.225	35.8		35.8	48.0	
2.445	33.3		33.3	48.0	
3.055	28.9		28.9	48.0	
3.910	33.3		33.3	48.0	
4.595	35.9		35.9	48.0	
4.985	35.5		35.5	48.0	
5.820	35.3		35.3	48.0	
6.700	33.3		33.3	48.0	
7.970	29.4		29.4	48.0	
9.510	27.1		27.1	48.0	
12.000	25.6		25.6	48.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase N

Date of test: 11/16/1999 Operator: R. Heller

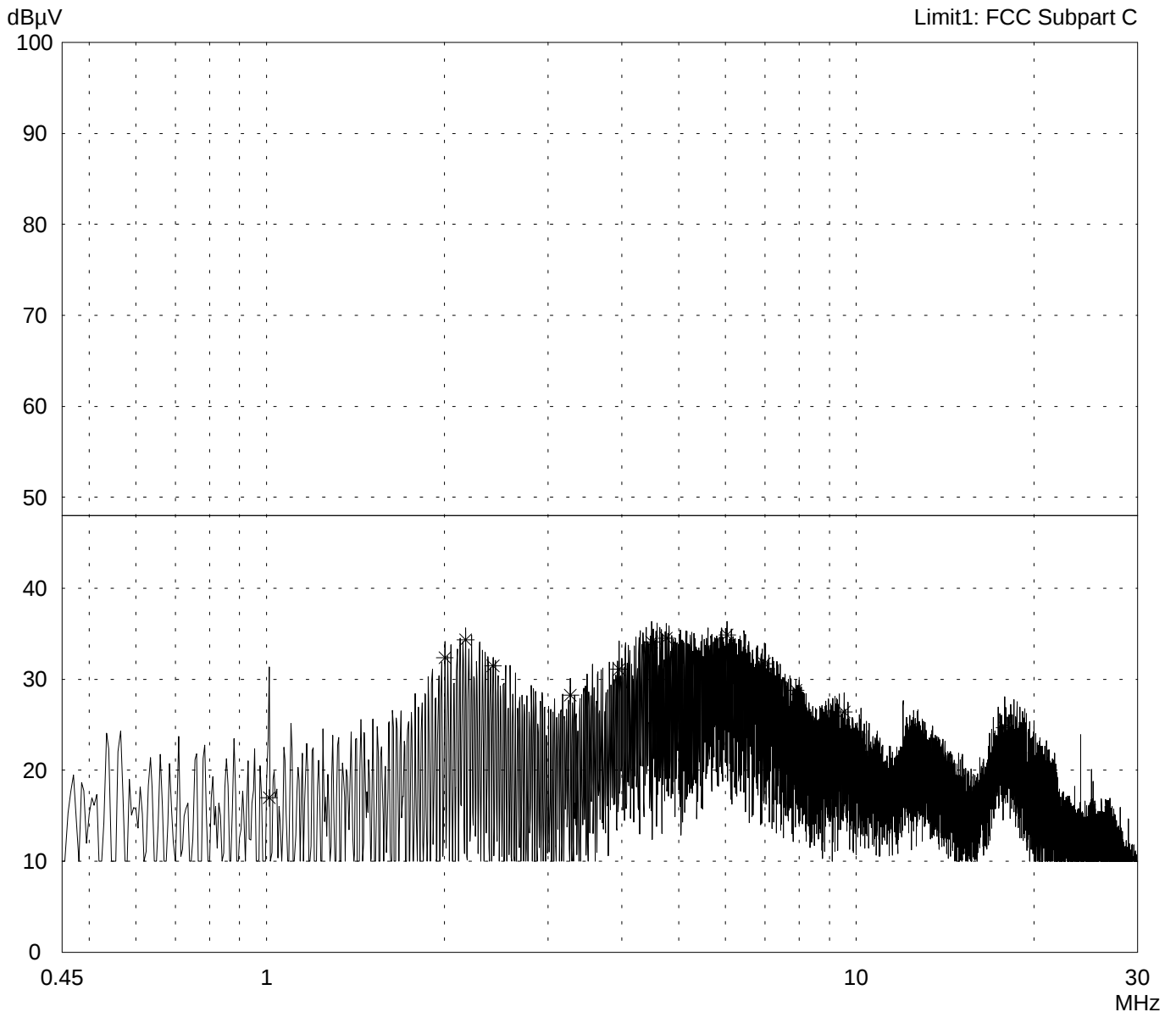
Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase N

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
1.010	17.0		17.0	48.0	
2.005	32.4		32.4	48.0	
2.175	34.4		34.4	48.0	
2.420	31.5		31.5	48.0	
3.275	28.3		28.3	48.0	
3.960	31.1		31.1	48.0	
4.500	34.1		34.1	48.0	
4.765	34.5		34.5	48.0	
6.040	34.9		34.9	48.0	
6.990	31.7		31.7	48.0	
7.895	28.8		28.8	48.0	
9.535	26.4		26.4	48.0	
17.845	24.6		24.6	48.0	

Result:
Limit kept

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 11/16/1999
Operator: R. Heller

Test performed: automatically
File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

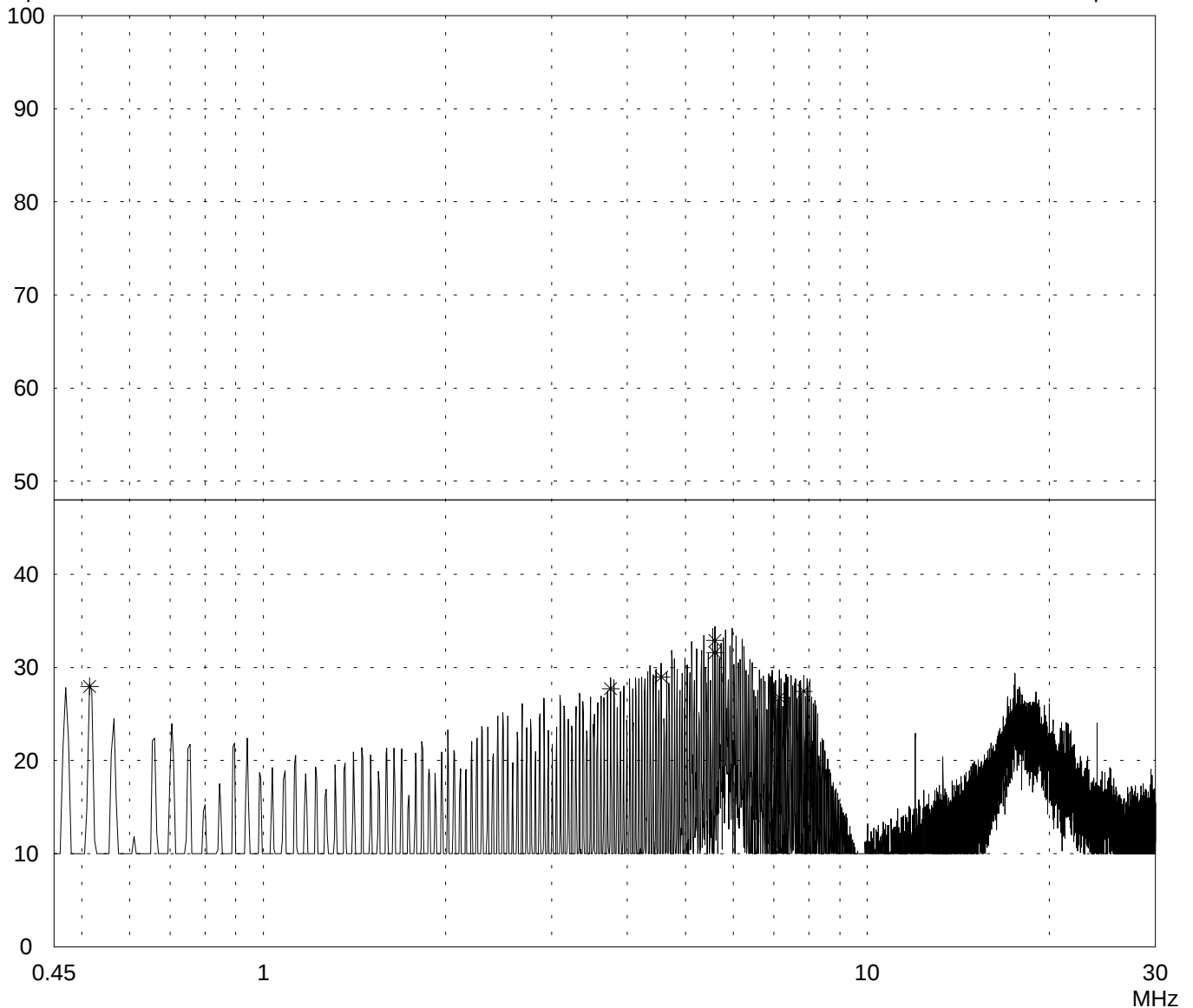
- TX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.442$ GHz	
Serial no.: 99UT11411941		
Applicant: Lucent Technologies Nederland B.V.		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord personal computer (EUT) Phase L1		
Date of test: 11/16/1999		Operator: R. Heller
Test performed: automatically		File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.515	28.0		28.0	48.0	
3.760	27.7		27.7	48.0	
4.560	28.9		28.9	48.0	
5.590	32.9		32.9	48.0	
5.595	31.6		31.6	48.0	
7.145	26.8		26.8	48.0	
7.845	27.4		27.4	48.0	
17.570	23.2		23.2	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 72 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

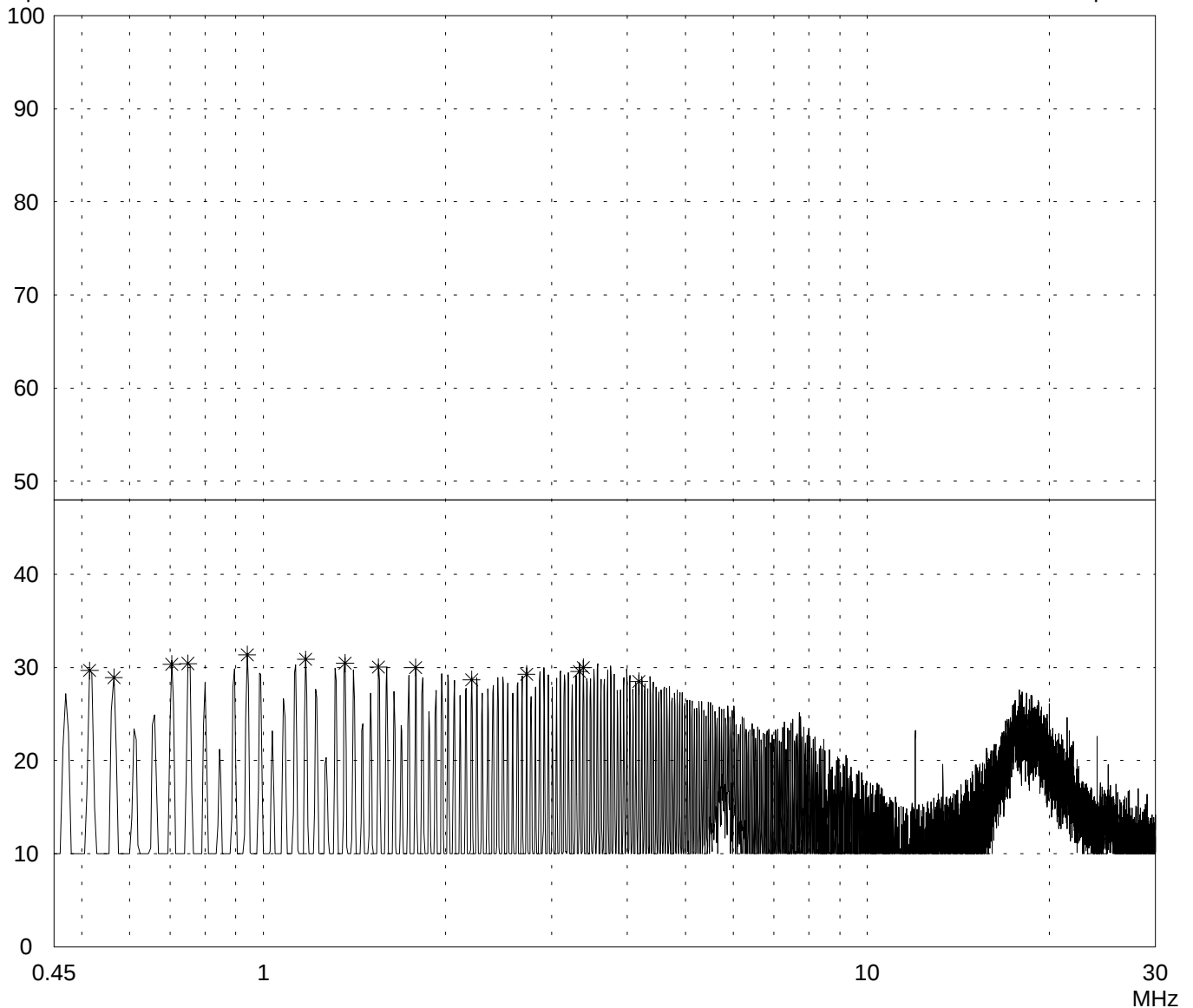
- TX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C
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Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.442$ GHz
Serial no.: 99UT11411941	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord personal computer (EUT) Phase N	
Date of test: 11/16/1999 Operator: R. Heller	
Test performed: automatically File name:	

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

[illegible]

Result: Limit kept	Project file: 56305-90733-1	Page 74 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

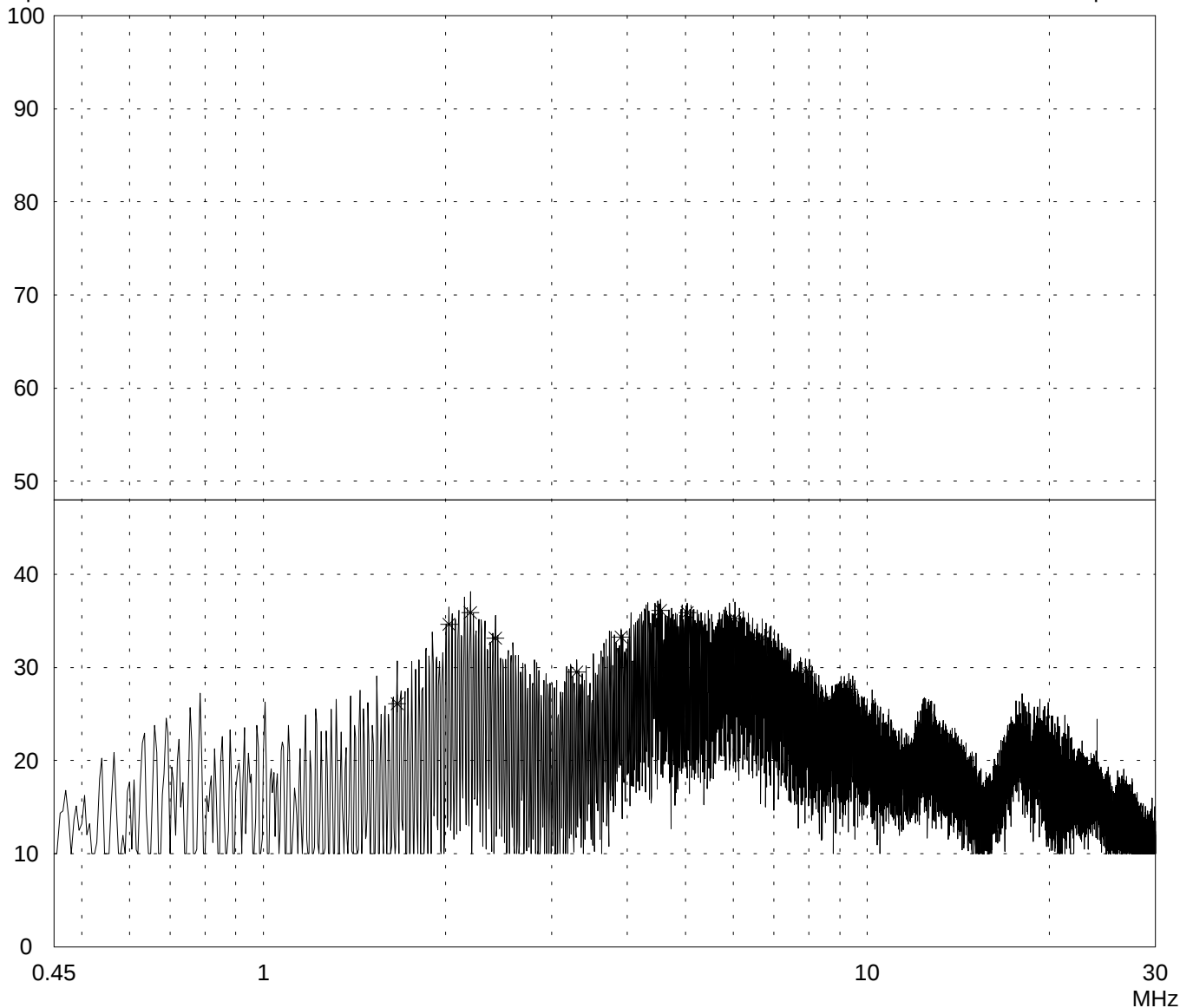
- TX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.442$ GHz
Serial no.: 99UT11411941	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord peripheral devices Phase L1	
Date of test: 11/16/1999	
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>
1.665	26.1		26.1	48.0	
2.030	34.6		34.6	48.0	
2.200	35.9		35.9	48.0	
2.420	33.2		33.2	48.0	
3.300	29.5		29.5	48.0	
3.910	33.3		33.3	48.0	
4.545	36.1		36.1	48.0	
5.035	35.9		35.9	48.0	
6.040	35.2		35.2	48.0	
6.700	33.2		33.2	48.0	
7.895	29.6		29.6	48.0	
9.315	27.6		27.6	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 76 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase N

Date of test: 11/16/1999
Operator: R. Heller

Test performed: automatically
File name:

Mode:

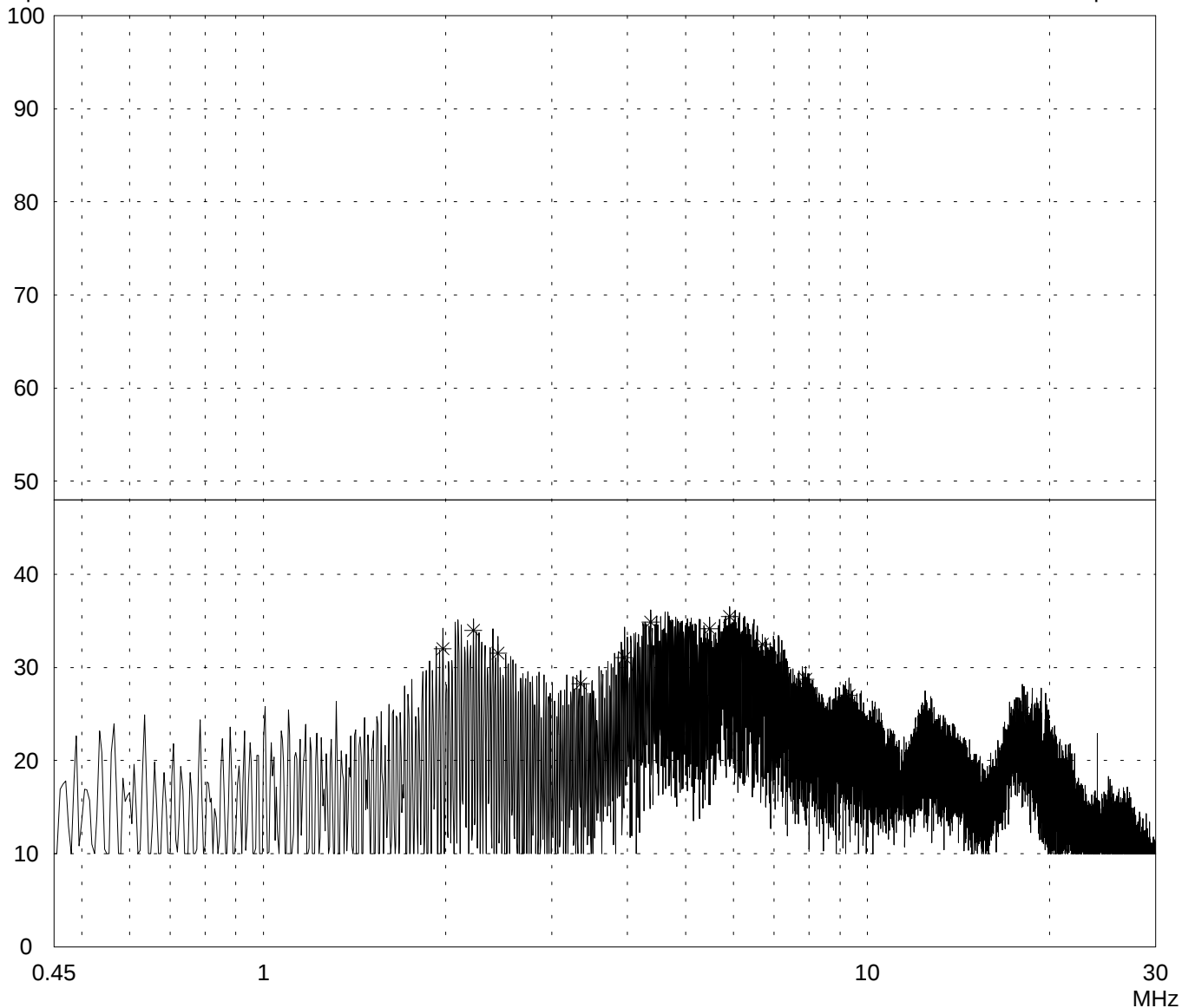
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz	
Serial no.: 99UT11411941		
Applicant: Lucent Technologies Nederland B.V.		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord peripheral devices Phase N		
Date of test: 11/16/1999		Operator: R. Heller
Test performed: automatically		File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
1.980	32.0		32.0	48.0	
2.225	34.0		34.0	48.0	
2.445	31.5		31.5	48.0	
3.350	28.3		28.3	48.0	
3.960	31.1		31.1	48.0	
4.375	34.9		34.9	48.0	
5.475	34.1		34.1	48.0	
5.915	35.5		35.5	48.0	
6.700	32.5		32.5	48.0	
7.895	28.7		28.7	48.0	
9.315	27.0		27.0	48.0	
18.065	25.1		25.1	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 78 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

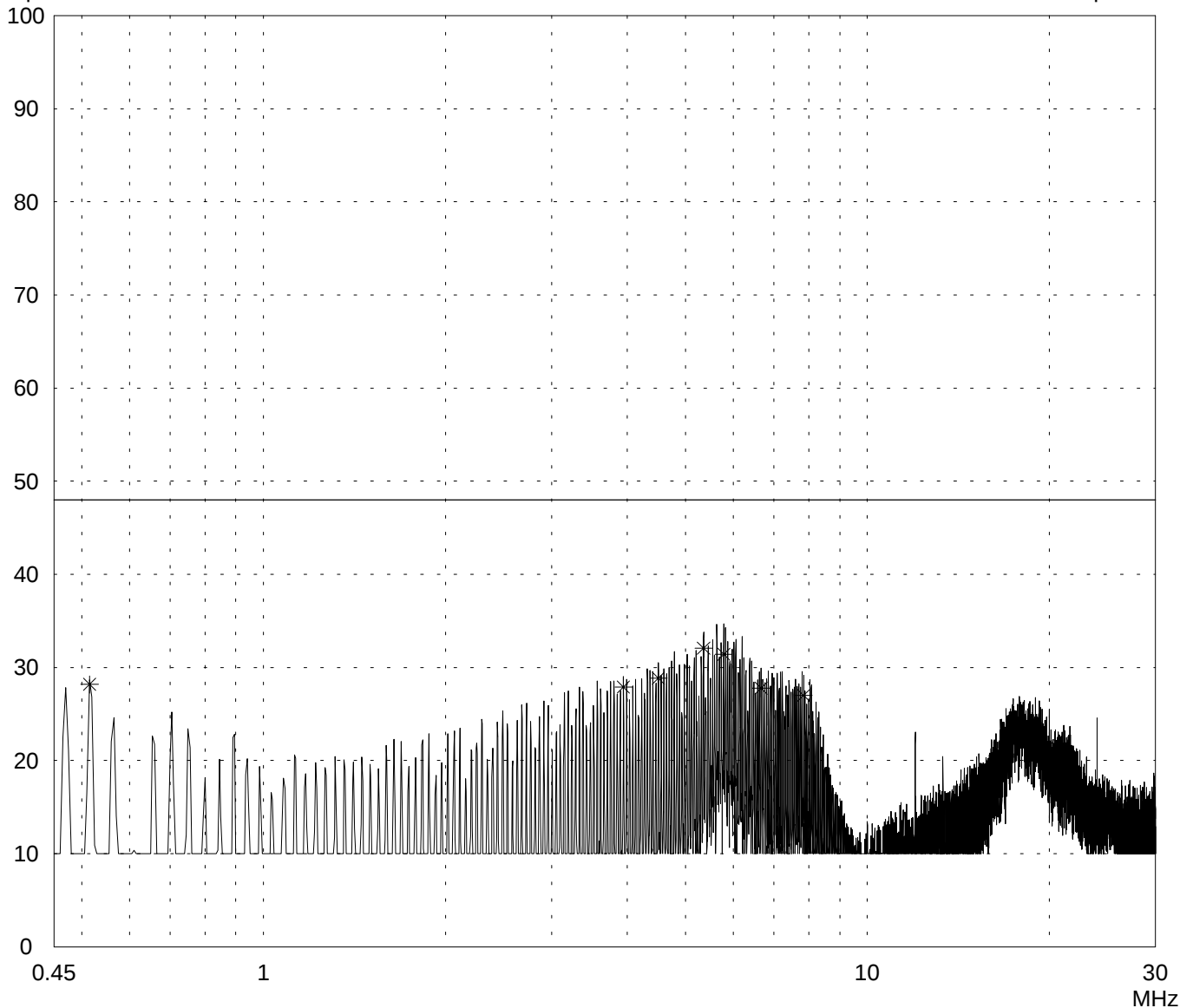
- TX mode with $f = 2.462$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.462$ GHz	
Serial no.: 99UT11411941		
Applicant: Lucent Technologies Nederland B.V.		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord personal computer (EUT) Phase L1		
Date of test: 11/16/1999		Operator: R. Heller
Test performed: automatically		File name:

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

[illegible]

Result: Limit kept	Project file: 56305-90733-1	Page 80 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 11/16/1999 Operator: R. Heller

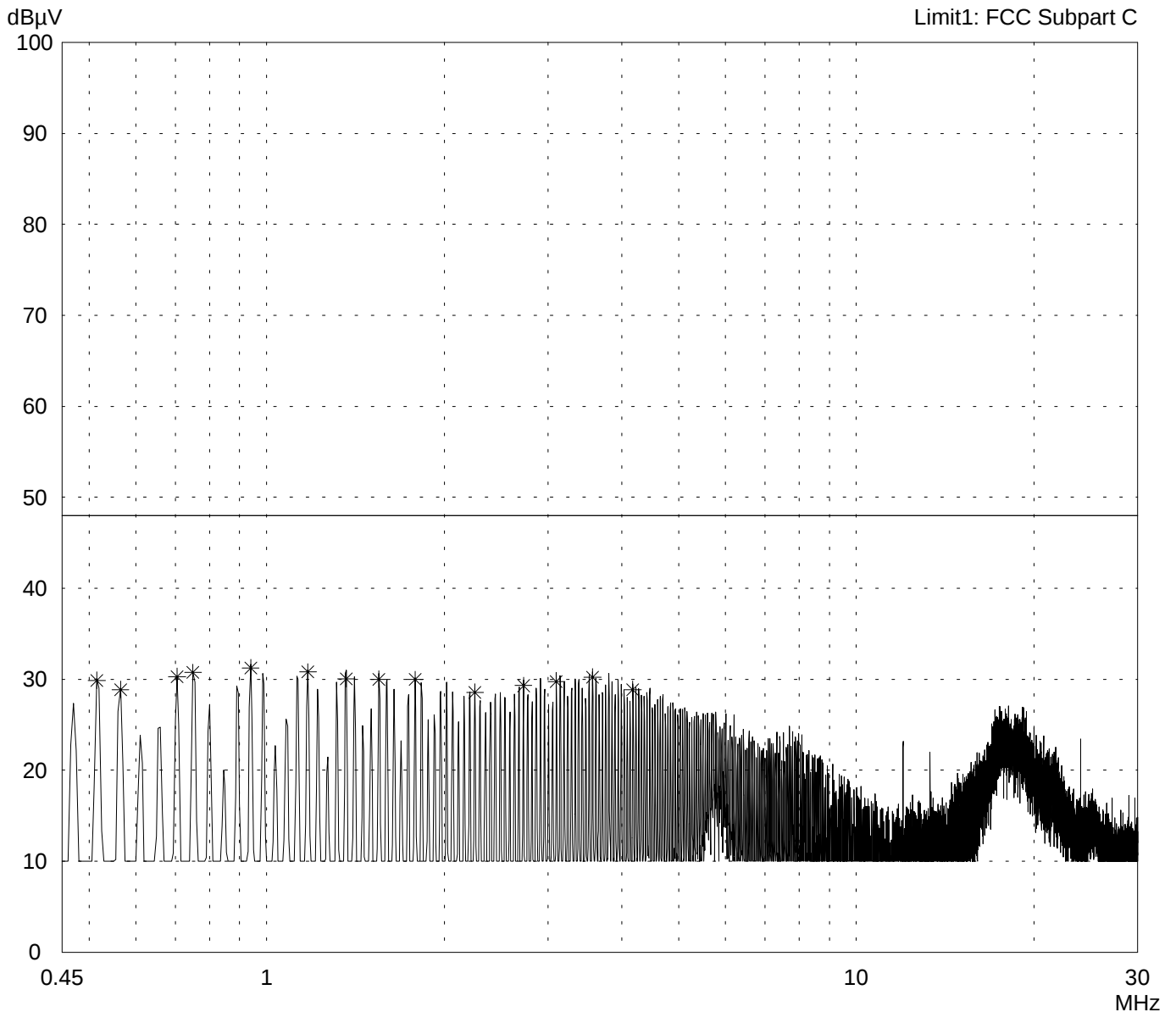
Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.462$ GHz	
Serial no.: 99UT11411941		
Applicant: Lucent Technologies Nederland B.V.		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord personal computer (EUT) Phase N		
Date of test: 11/16/1999		Operator: R. Heller
Test performed: automatically		File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.515	29.9		29.9	48.0	
0.565	28.9		28.9	48.0	
0.705	30.3		30.3	48.0	
0.750	30.7		30.7	48.0	
0.940	31.3		31.3	48.0	
1.175	30.8		30.8	48.0	
1.365	30.1		30.1	48.0	
1.550	30.0		30.0	48.0	
1.785	30.0		30.0	48.0	
2.255	28.6		28.6	48.0	
2.725	29.3		29.3	48.0	
3.100	29.7		29.7	48.0	
3.570	30.2		30.2	48.0	
4.180	28.9		28.9	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 82 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

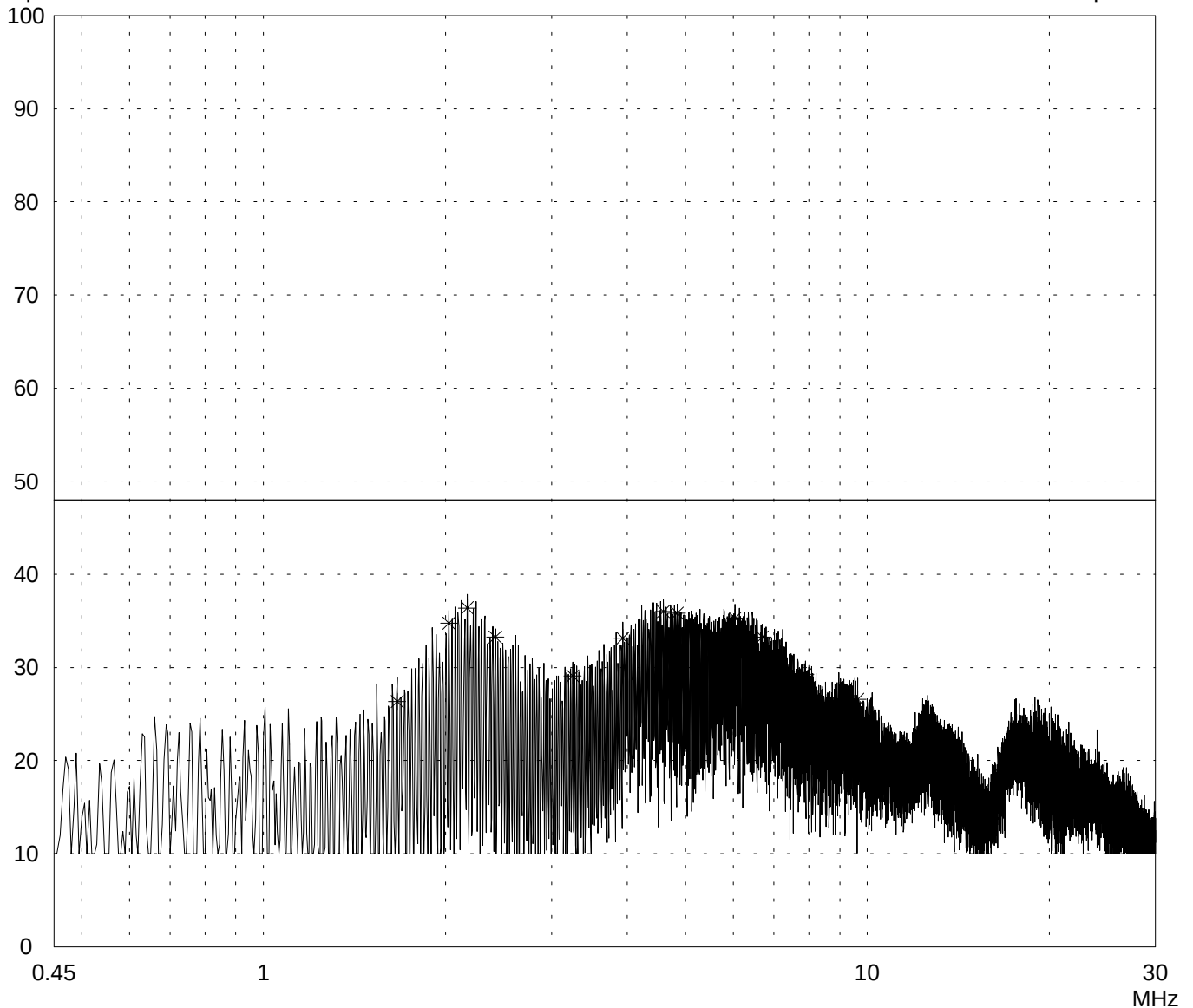
- TX mode with $f = 2.462$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C
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Model: LUC PC24E-H-FC		Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.462$ GHz
Serial no.: 99UT11411941		
Applicant: Lucent Technologies Nederland B.V.		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord peripheral devices Phase L1		
Date of test: 11/16/1999	Operator: R. Heller	
Test performed: automatically	File name:	

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
1.665	26.3		26.3	48.0	
2.030	34.7		34.7	48.0	
2.175	36.4		36.4	48.0	
2.420	33.3		33.3	48.0	
3.250	29.1		29.1	48.0	
3.935	33.2		33.2	48.0	
4.595	36.0		36.0	48.0	
4.840	35.8		35.8	48.0	
6.040	35.3		35.3	48.0	
6.700	33.3		33.3	48.0	
7.895	29.3		29.3	48.0	
9.630	26.6		26.6	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 84 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase N

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

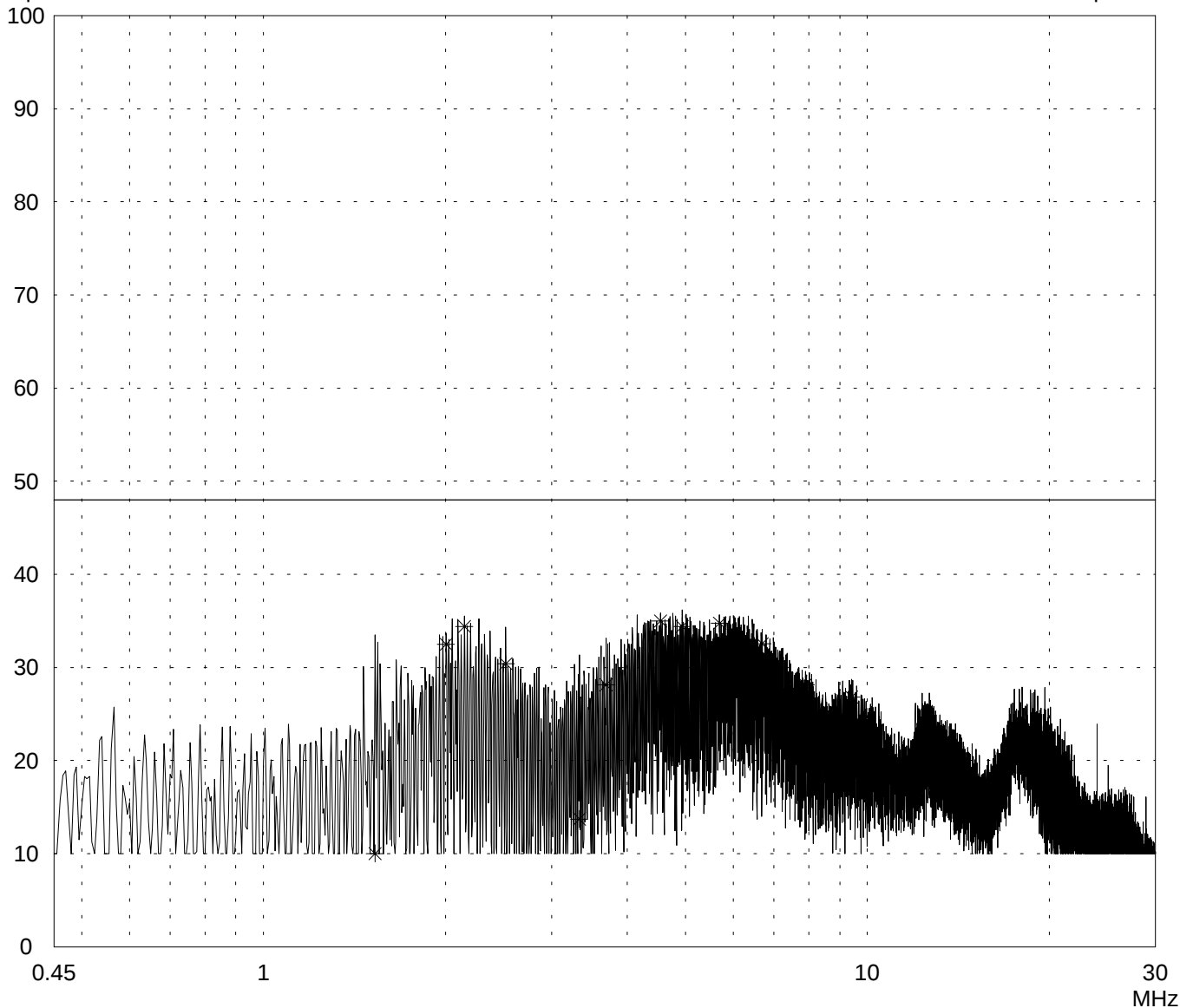
- TX mode with $f = 2.462$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - operating with bit rate 11 Mbps - TX mode with $f = 2.462$ GHz
Serial no.: 99UT11411941	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord peripheral devices Phase N	
Date of test: 11/16/1999	
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>
1.530	10.0		10.0	48.0	
2.005	32.5		32.5	48.0	
2.150	34.4		34.4	48.0	
2.520	30.4		30.4	48.0	
3.335	13.7		13.7	48.0	
3.695	28.1		28.1	48.0	
4.545	35.0		35.0	48.0	
4.940	34.4		34.4	48.0	
5.695	34.7		34.7	48.0	
6.700	32.5		32.5	48.0	
7.900	28.2		28.2	48.0	
9.410	26.8		26.8	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 86 of 165 Pages
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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

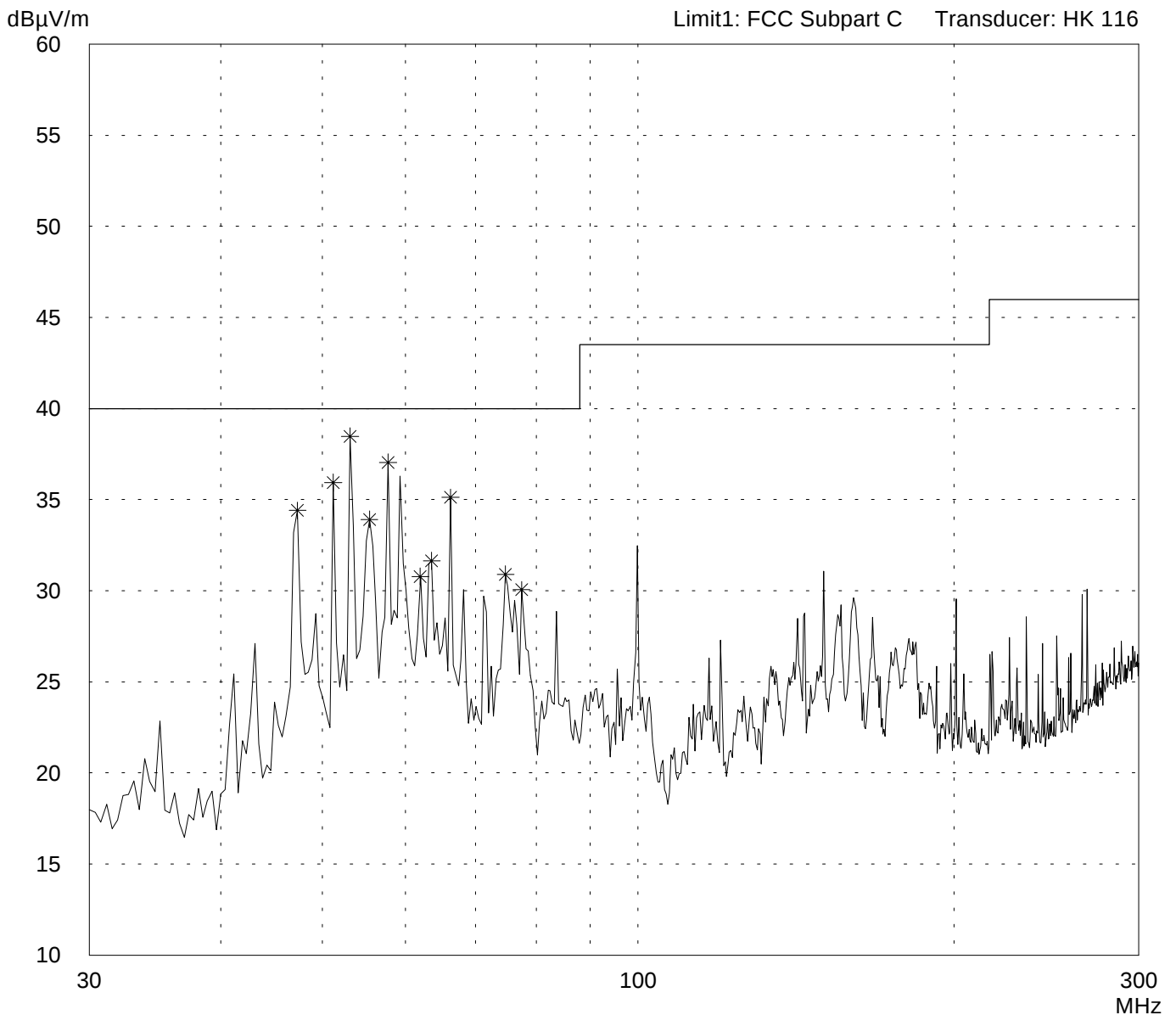
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

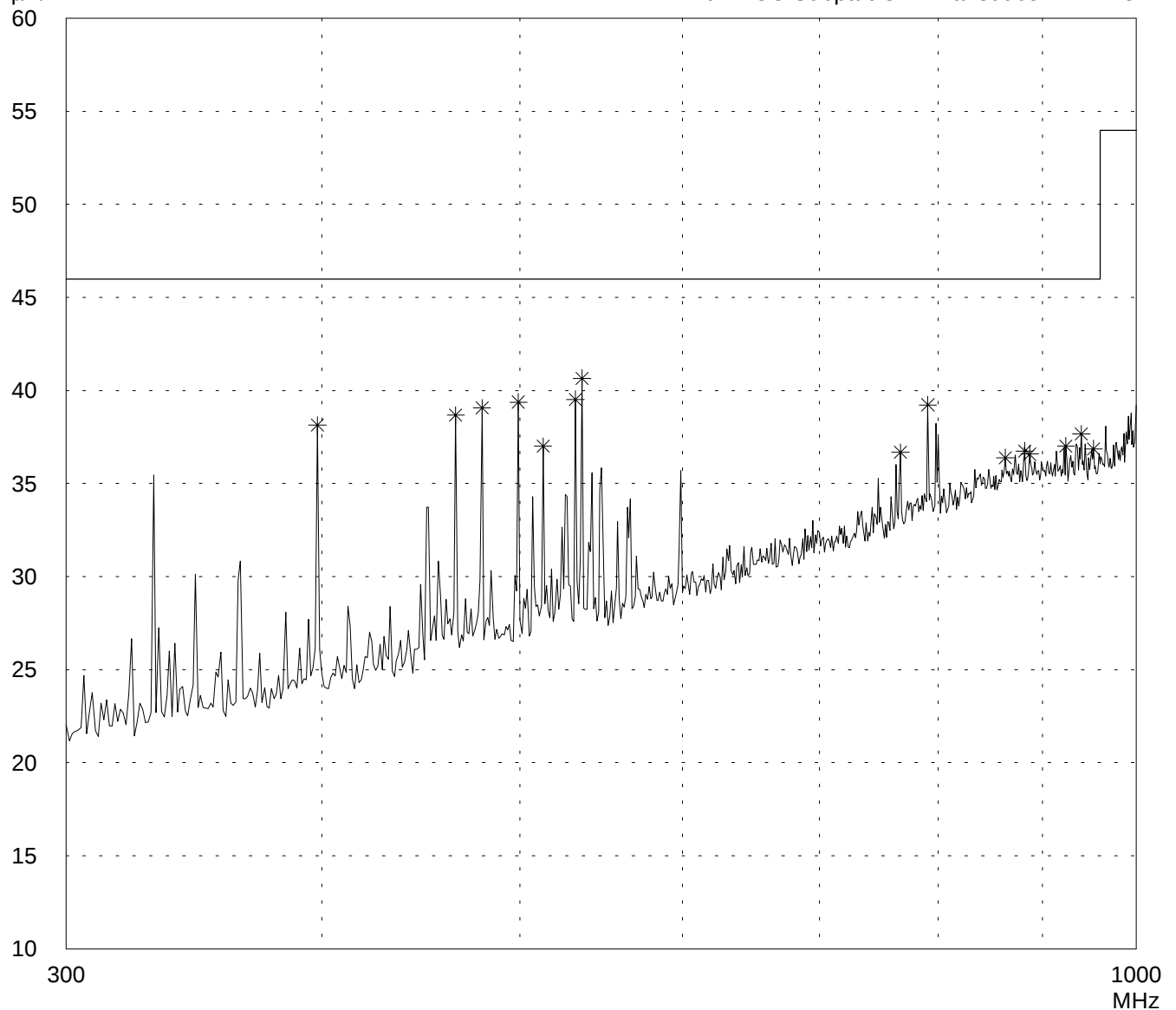
- TX mode with $f = 2.412$ GHz

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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

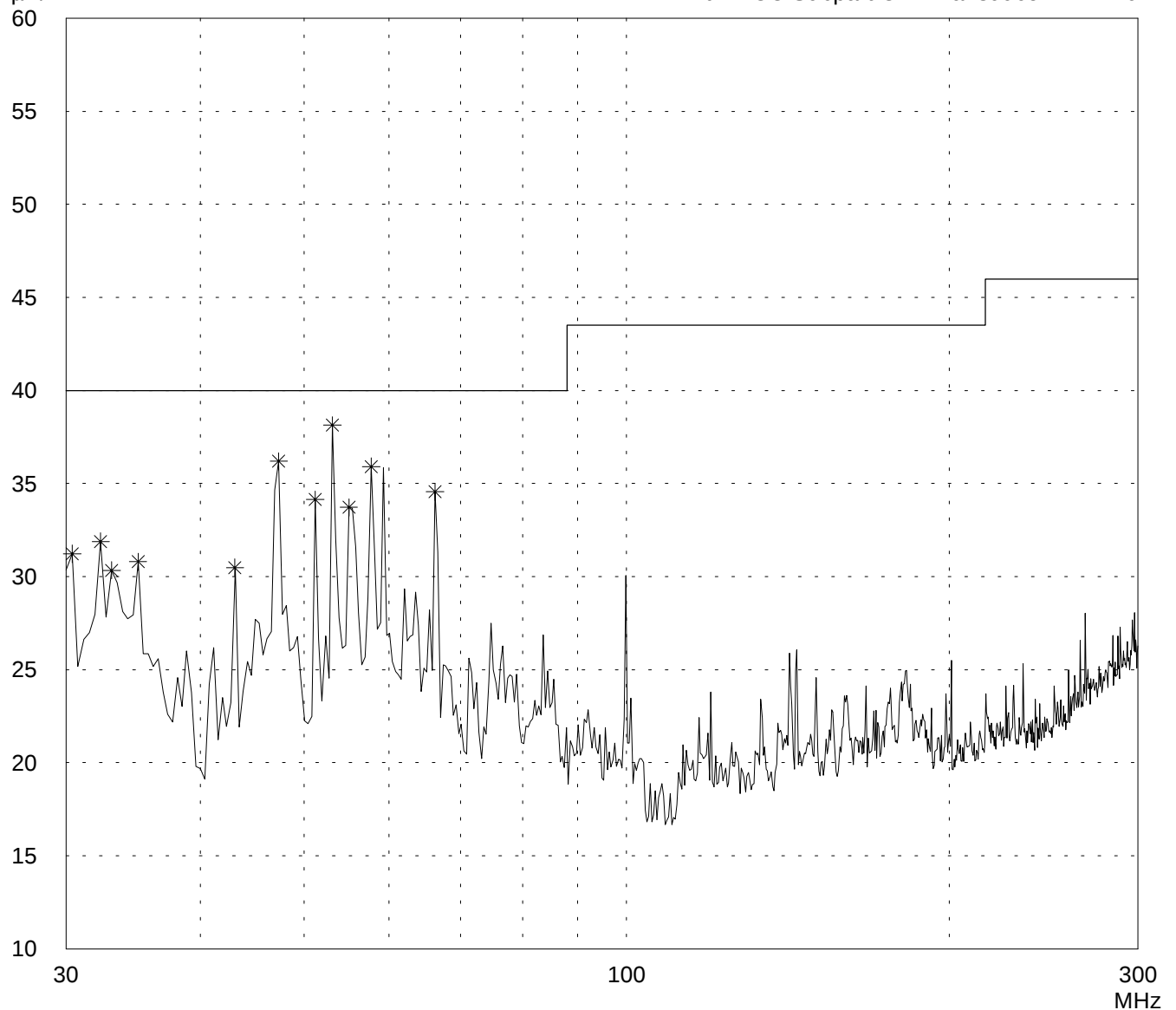
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

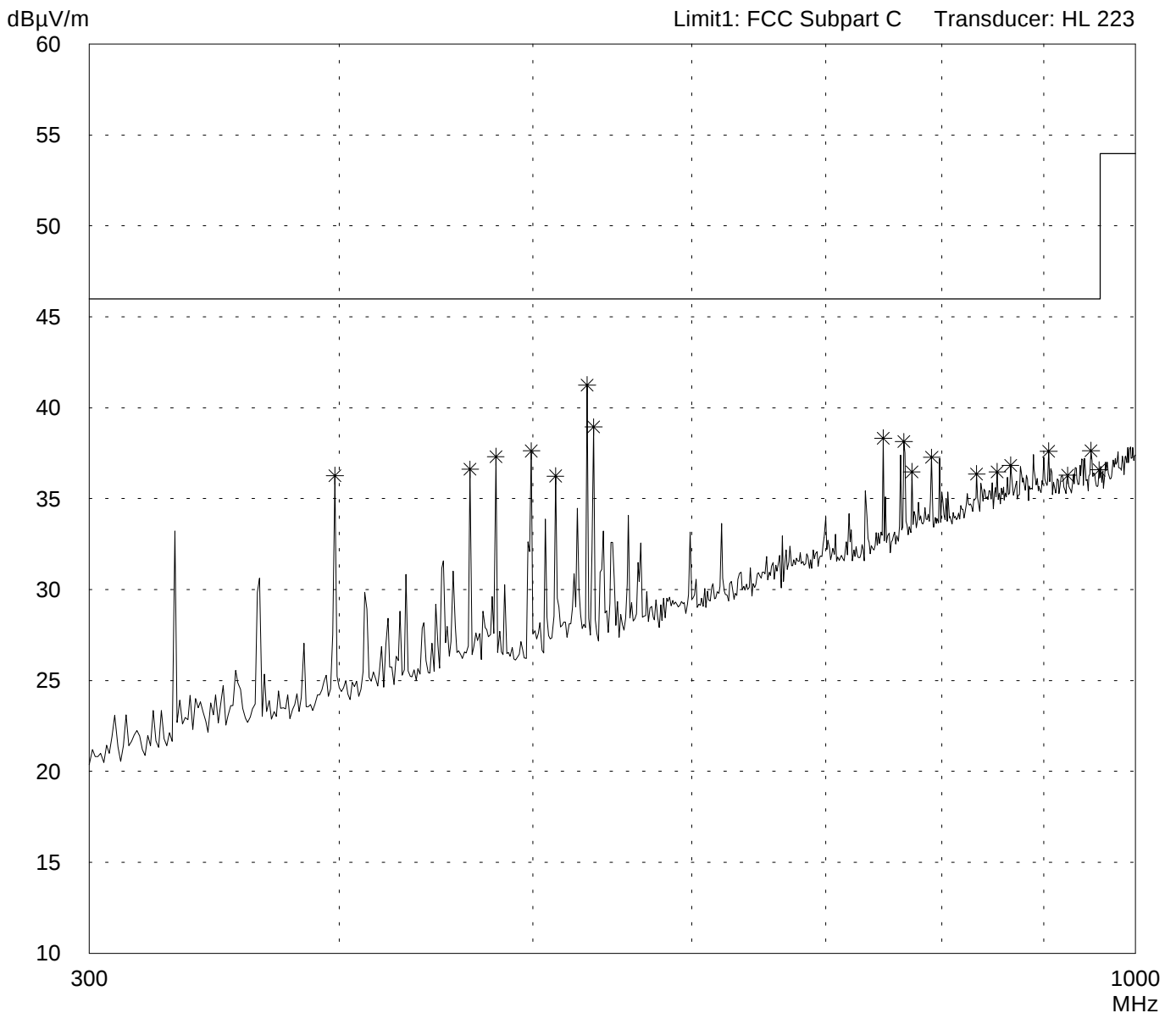
Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 11/30/1999 Operator:
R. Heller

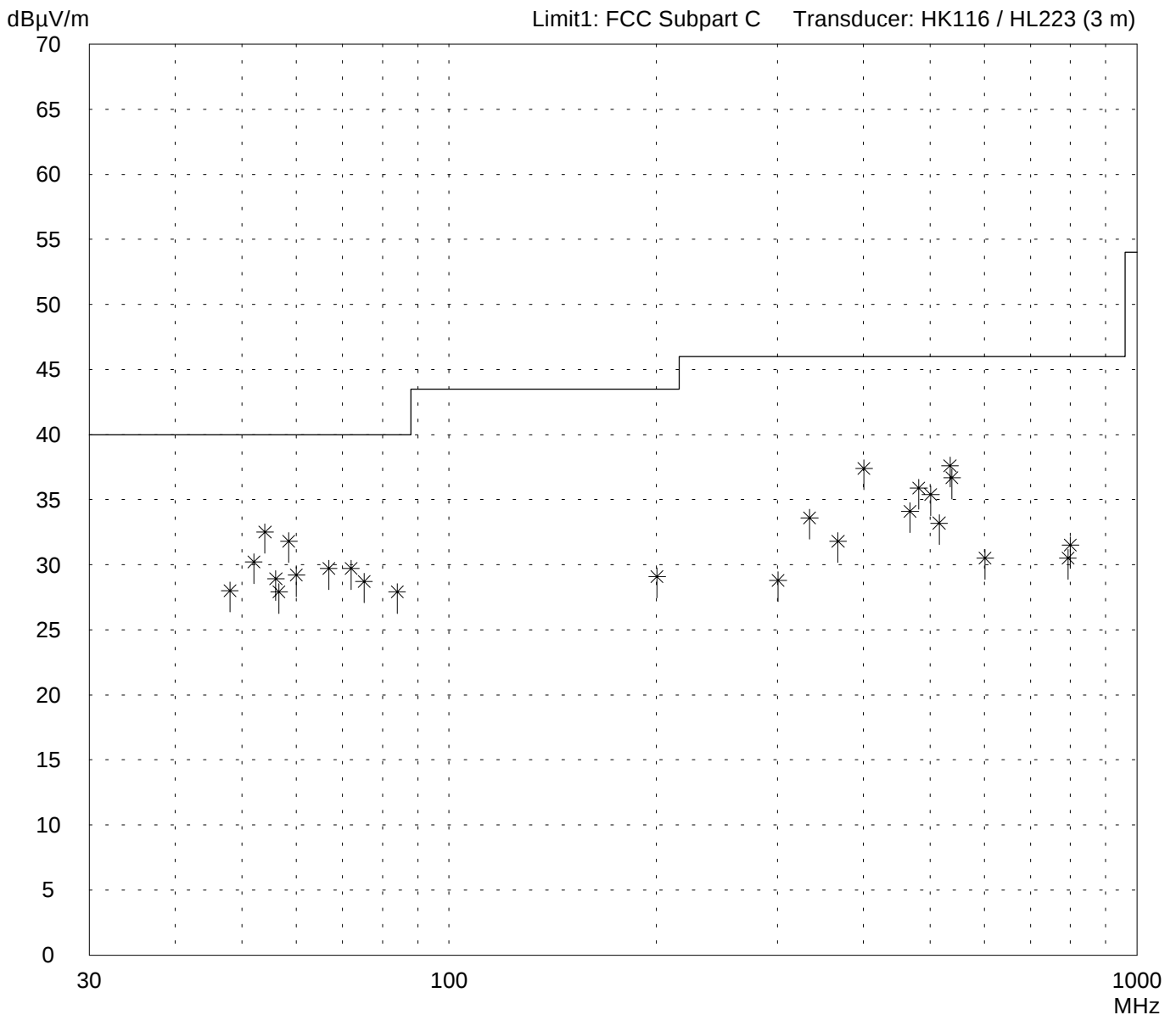
Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 11/30/1999 Operator: R. Heller

Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ 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>
48.0	17.0	11.0	28.0	40.0	
52.0	19.5	10.7	30.2	40.0	
54.0	22.0	10.5	32.5	40.0	
56.0	18.5	10.4	28.9	40.0	
56.6	17.5	10.4	27.9	40.0	
58.5	21.5	10.3	31.8	40.0	
60.0	19.0	10.2	29.2	40.0	
66.8	19.5	10.2	29.7	40.0	
72.0	19.5	10.2	29.7	40.0	
75.2	18.5	10.2	28.7	40.0	
84.0	17.5	10.4	27.9	40.0	
200.5	12.0	17.1	29.1	43.5	
300.7	12.0	16.8	28.8	46.0	
334.1	15.5	18.1	33.6	46.0	
367.5	12.5	19.3	31.8	46.0	
400.9	17.0	20.4	37.4	46.0	
467.7	12.0	22.1	34.1	46.0	
481.5	13.5	22.4	35.9	46.0	
501.2	12.5	22.9	35.4	46.0	
515.5	10.0	23.2	33.2	46.0	
534.6	14.0	23.6	37.6	46.0	
538.1	13.0	23.7	36.7	46.0	
601.4	5.5	25.0	30.5	46.0	
793.0	2.0	28.5	30.5	46.0	
800.0	3.0	28.5	31.5	46.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 11/30/1999 Operator:
R. Heller

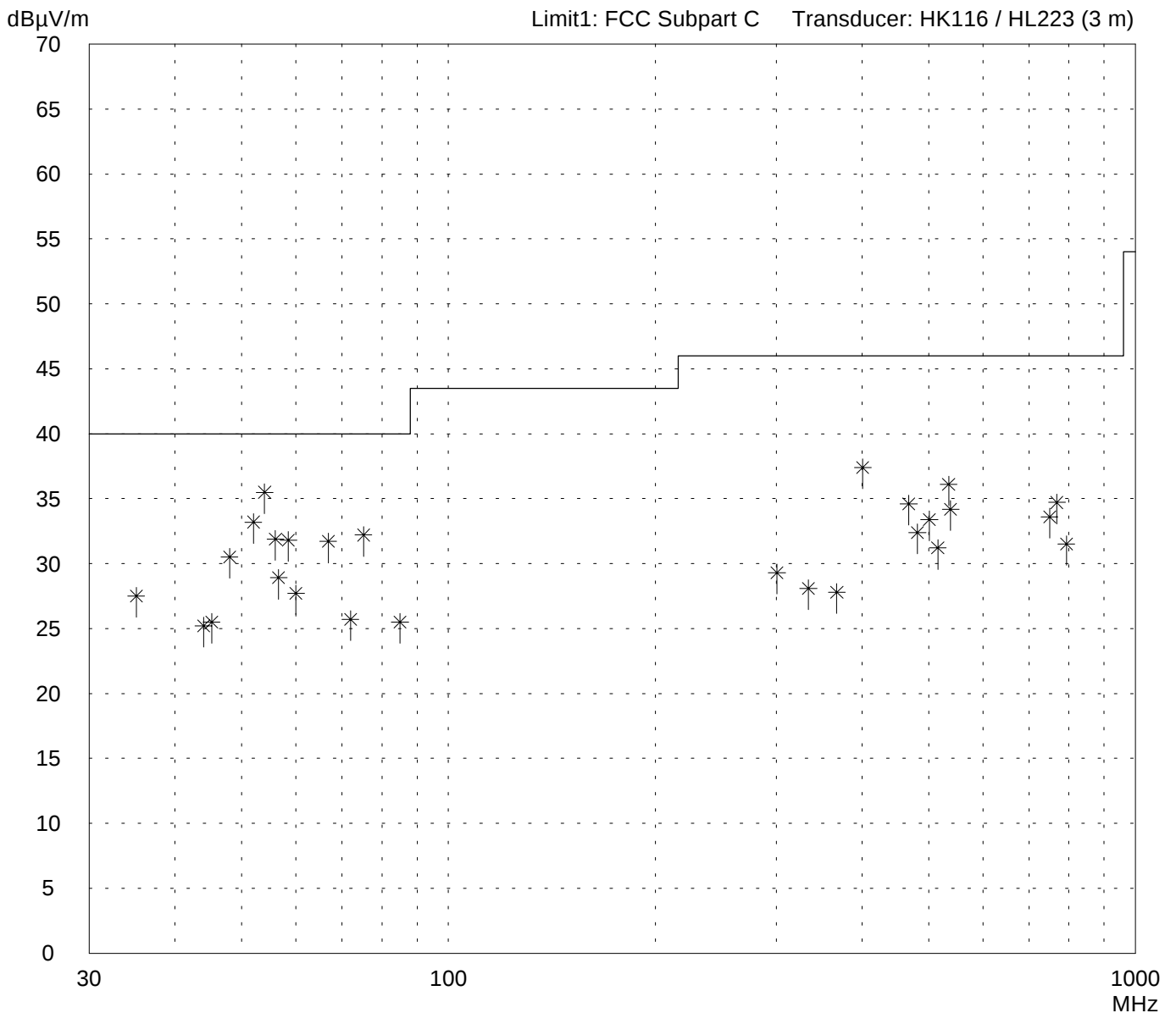
Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 11/30/1999
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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
35.1	14.0	13.5	27.5	40.0	
44.0	13.5	11.7	25.2	40.0	
45.2	14.0	11.5	25.5	40.0	
48.0	19.5	11.0	30.5	40.0	
52.0	22.5	10.7	33.2	40.0	
54.0	25.0	10.5	35.5	40.0	
56.0	21.5	10.4	31.9	40.0	
56.6	18.5	10.4	28.9	40.0	
58.5	21.5	10.3	31.8	40.0	
60.0	17.5	10.2	27.7	40.0	
66.8	21.5	10.2	31.7	40.0	
72.0	15.5	10.2	25.7	40.0	
75.2	22.0	10.2	32.2	40.0	
85.0	15.0	10.5	25.5	40.0	
300.7	12.5	16.8	29.3	46.0	
334.1	10.0	18.1	28.1	46.0	
367.5	8.5	19.3	27.8	46.0	
400.9	17.0	20.4	37.4	46.0	
467.7	12.5	22.1	34.6	46.0	
481.5	10.0	22.4	32.4	46.0	
501.2	10.5	22.9	33.4	46.0	
515.5	8.0	23.2	31.2	46.0	
534.6	12.5	23.6	36.1	46.0	
538.1	10.5	23.7	34.2	46.0	
750.0	5.5	28.1	33.6	46.0	
768.5	6.5	28.2	34.7	46.0	
793.0	3.0	28.5	31.5	46.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

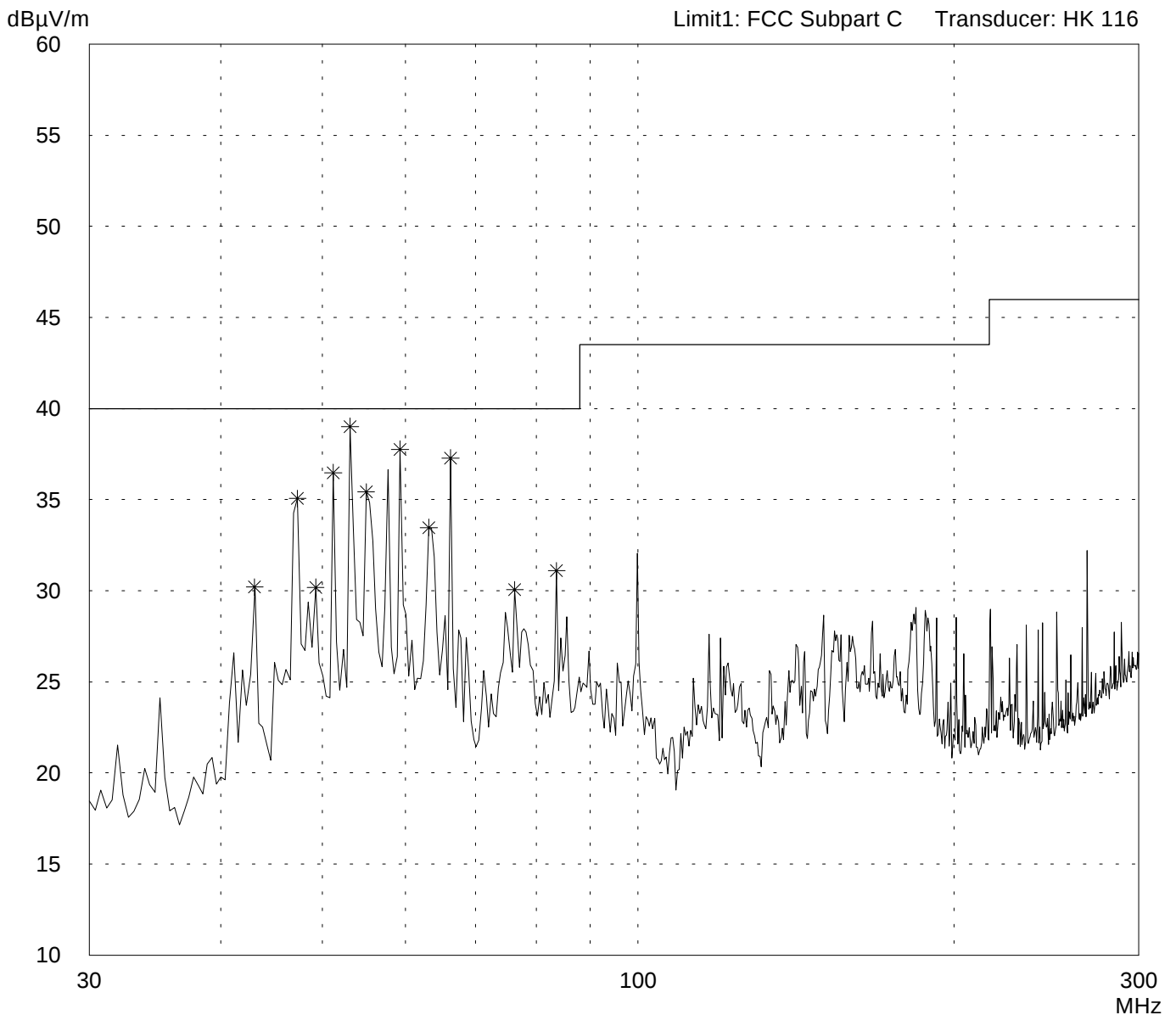
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

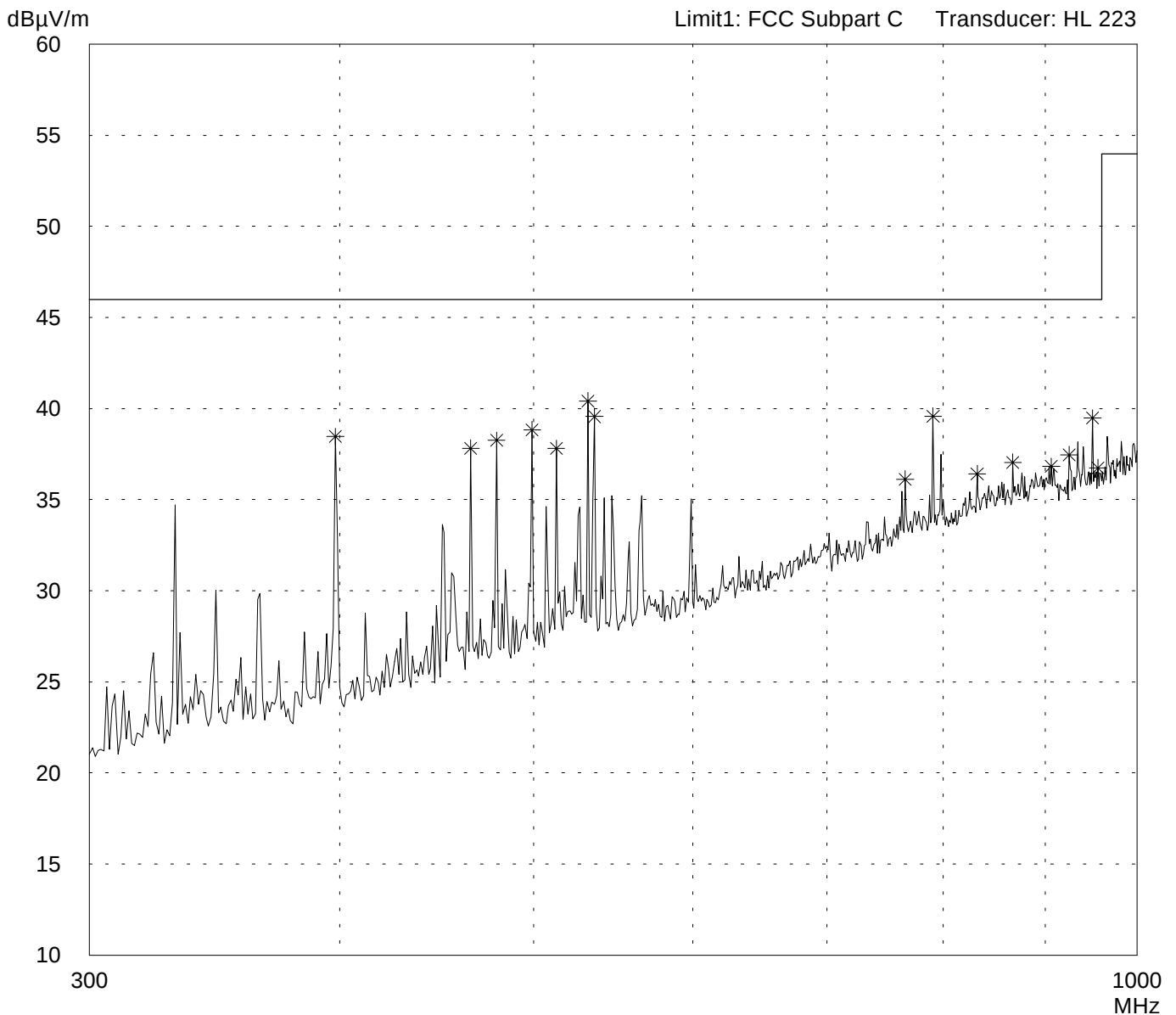
Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

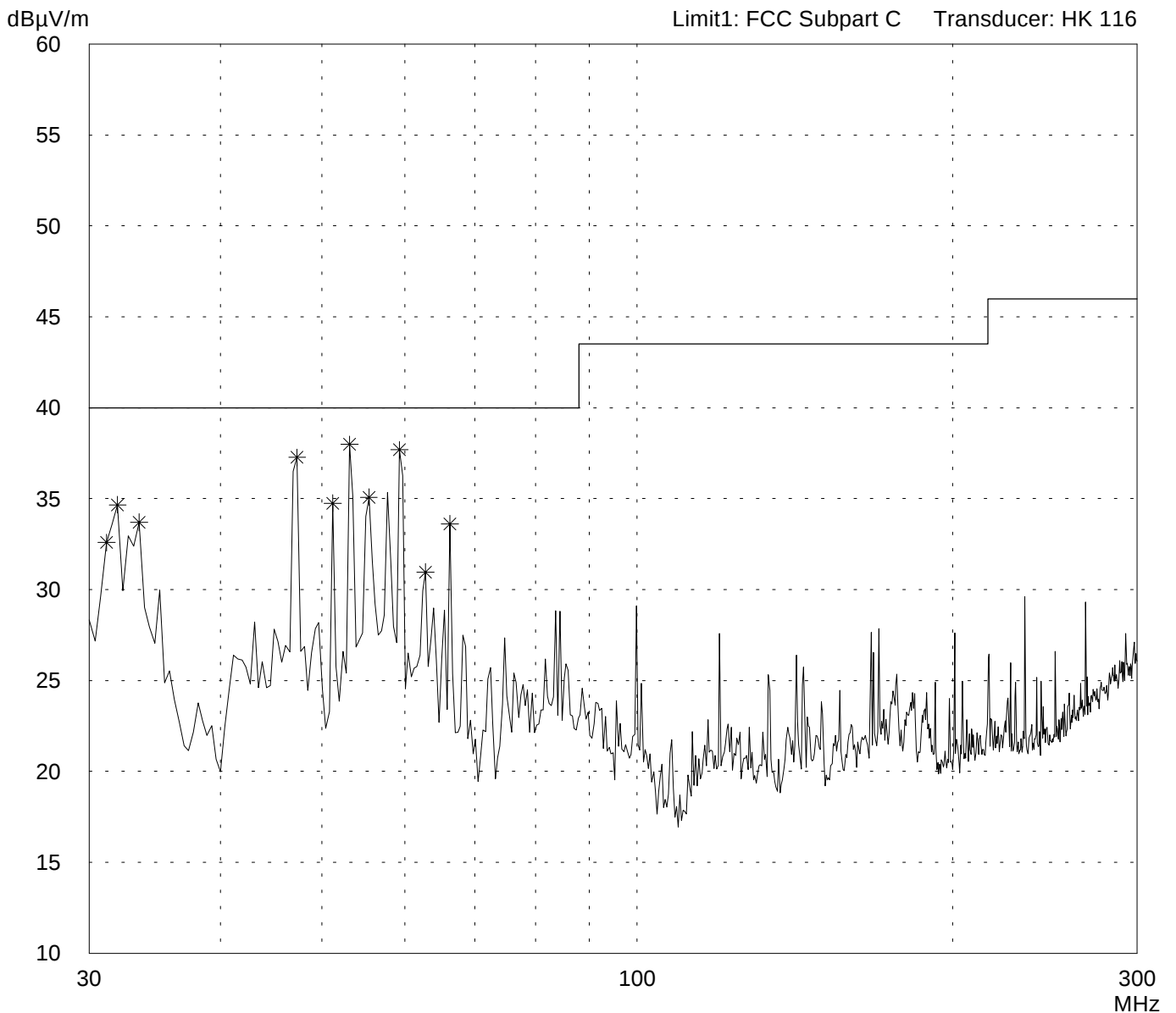
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

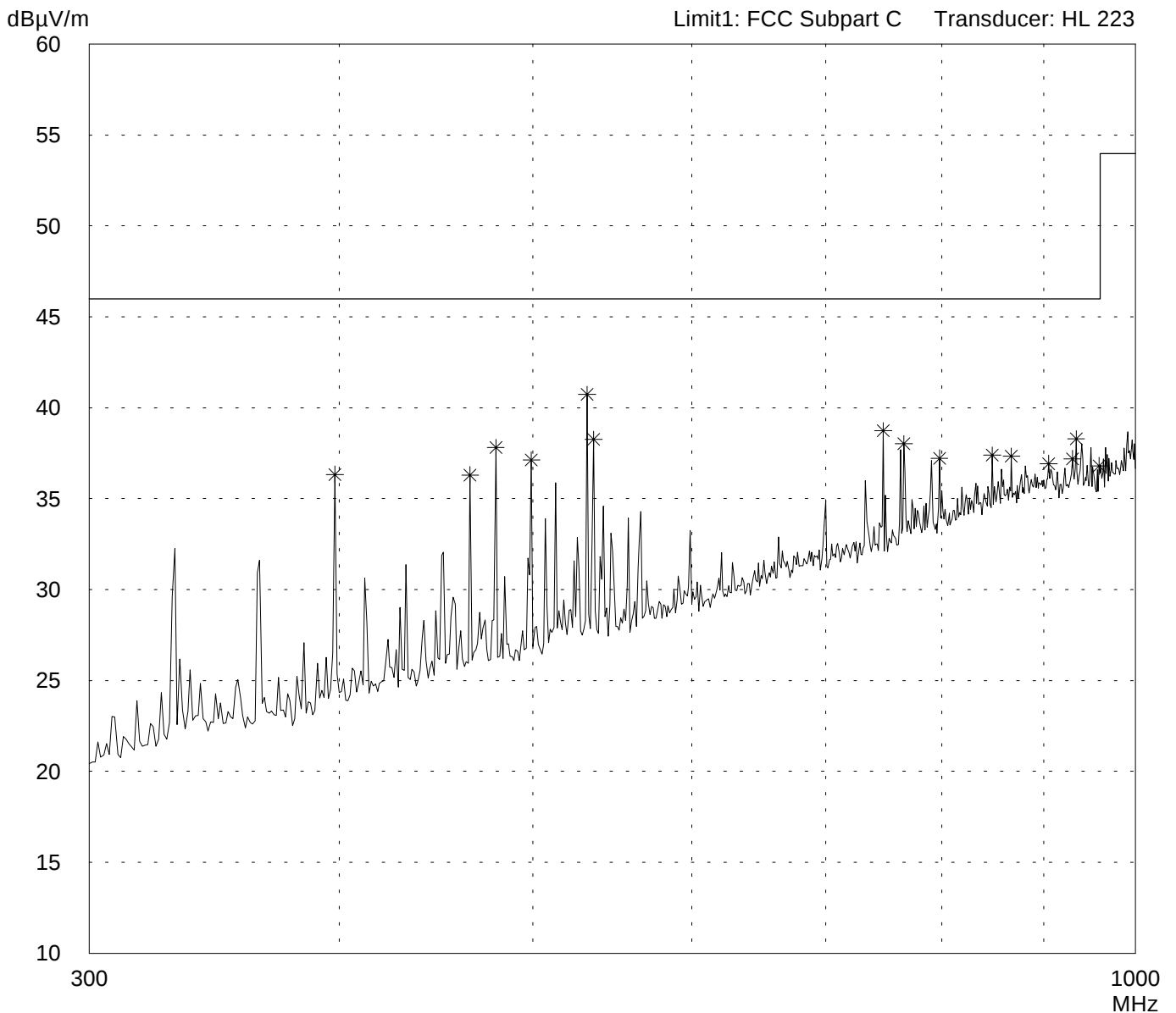
Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 11/30/1999
Operator: R. Heller

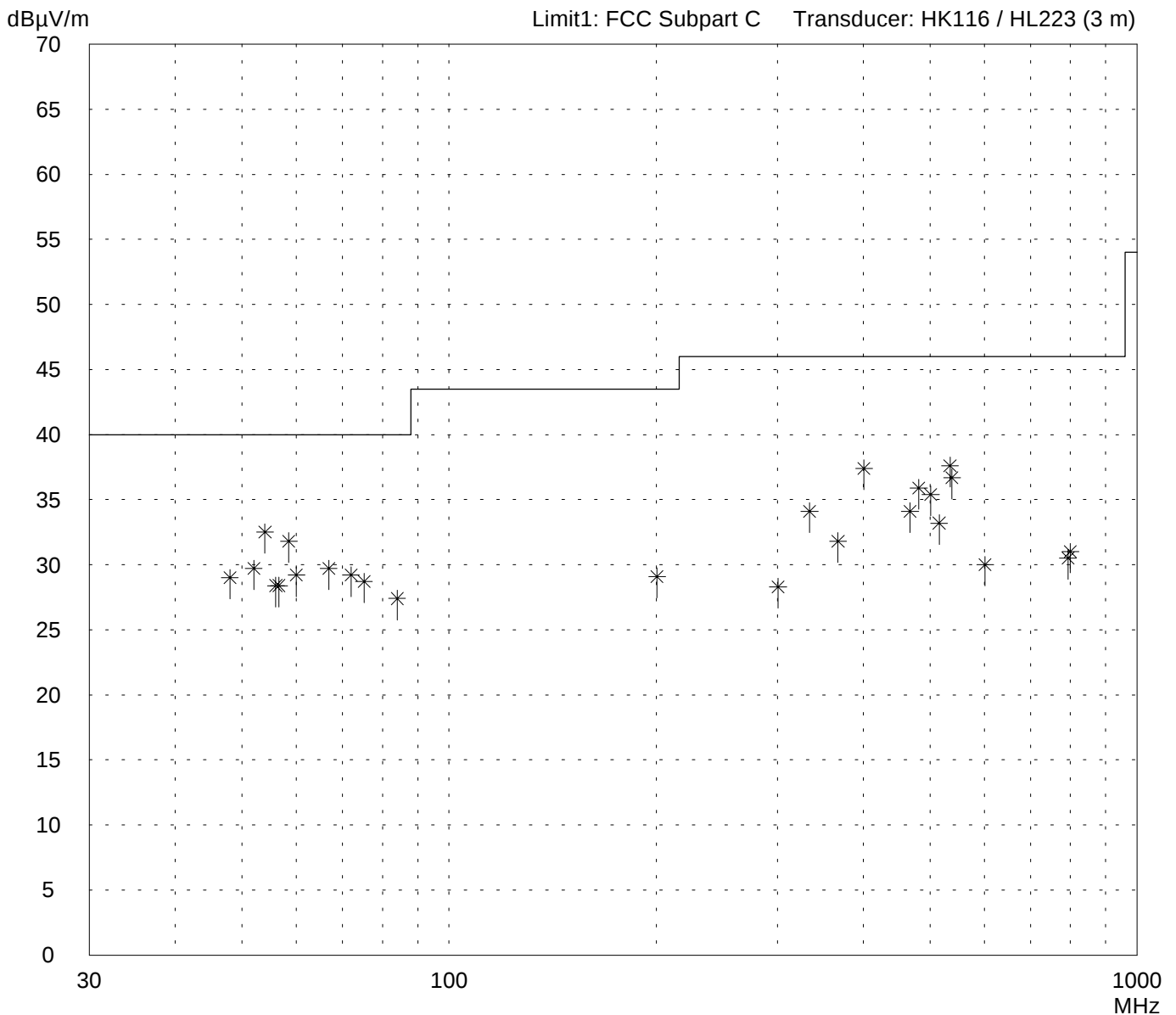
Test performed: by hand
File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 11/30/1999 Operator: R. Heller

Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
48.0	18.0	11.0	29.0	40.0	
52.0	19.0	10.7	29.7	40.0	
54.0	22.0	10.5	32.5	40.0	
56.0	18.0	10.4	28.4	40.0	
56.6	18.0	10.4	28.4	40.0	
58.5	21.5	10.3	31.8	40.0	
60.0	19.0	10.2	29.2	40.0	
66.8	19.5	10.2	29.7	40.0	
72.0	19.0	10.2	29.2	40.0	
75.2	18.5	10.2	28.7	40.0	
84.0	17.0	10.4	27.4	40.0	
200.5	12.0	17.1	29.1	43.5	
300.7	11.5	16.8	28.3	46.0	
334.1	16.0	18.1	34.1	46.0	
367.5	12.5	19.3	31.8	46.0	
400.9	17.0	20.4	37.4	46.0	
467.7	12.0	22.1	34.1	46.0	
481.5	13.5	22.4	35.9	46.0	
501.2	12.5	22.9	35.4	46.0	
515.5	10.0	23.2	33.2	46.0	
534.6	14.0	23.6	37.6	46.0	
538.1	13.0	23.7	36.7	46.0	
601.4	5.0	25.0	30.0	46.0	
793.0	2.0	28.5	30.5	46.0	
800.0	2.5	28.5	31.0	46.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 11/30/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:

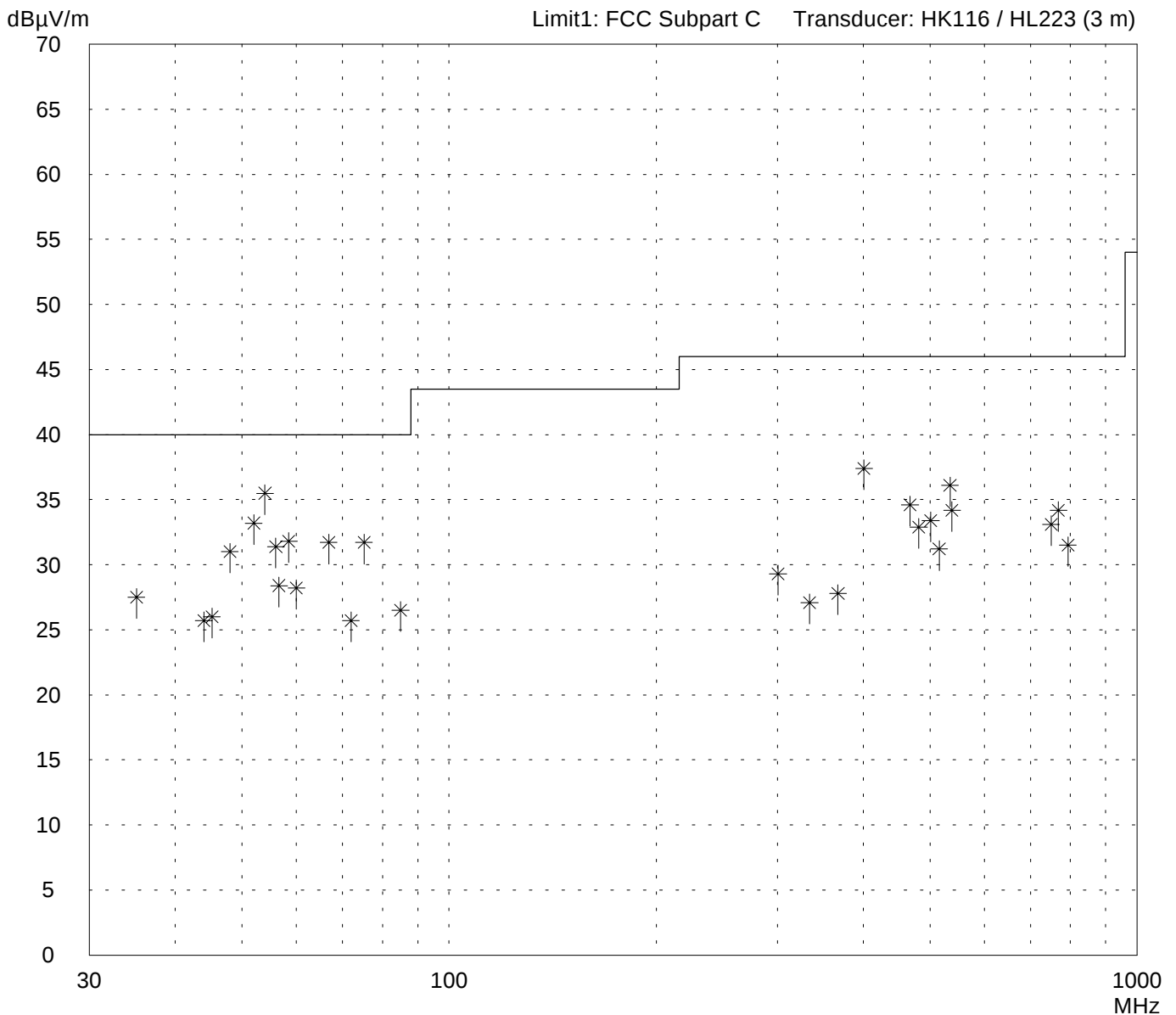
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 11/30/1999 Operator: R. Heller

Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV/m</i>	<i>Limit dBμV/m</i>	<i>Limit exceeded</i>
35.1	14.0	13.5	27.5	40.0	
44.0	14.0	11.7	25.7	40.0	
45.2	14.5	11.5	26.0	40.0	
48.0	20.0	11.0	31.0	40.0	
52.0	22.5	10.7	33.2	40.0	
54.0	25.0	10.5	35.5	40.0	
56.0	21.0	10.4	31.4	40.0	
56.6	18.0	10.4	28.4	40.0	
58.5	21.5	10.3	31.8	40.0	
60.0	18.0	10.2	28.2	40.0	
66.8	21.5	10.2	31.7	40.0	
72.0	15.5	10.2	25.7	40.0	
75.2	21.5	10.2	31.7	40.0	
85.0	16.0	10.5	26.5	40.0	
300.7	12.5	16.8	29.3	46.0	
334.1	9.0	18.1	27.1	46.0	
367.5	8.5	19.3	27.8	46.0	
400.9	17.0	20.4	37.4	46.0	
467.7	12.5	22.1	34.6	46.0	
481.5	10.5	22.4	32.9	46.0	
501.2	10.5	22.9	33.4	46.0	
515.5	8.0	23.2	31.2	46.0	
534.6	12.5	23.6	36.1	46.0	
538.1	10.5	23.7	34.2	46.0	
750.0	5.0	28.1	33.1	46.0	
768.5	6.0	28.2	34.2	46.0	
793.0	3.0	28.5	31.5	46.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

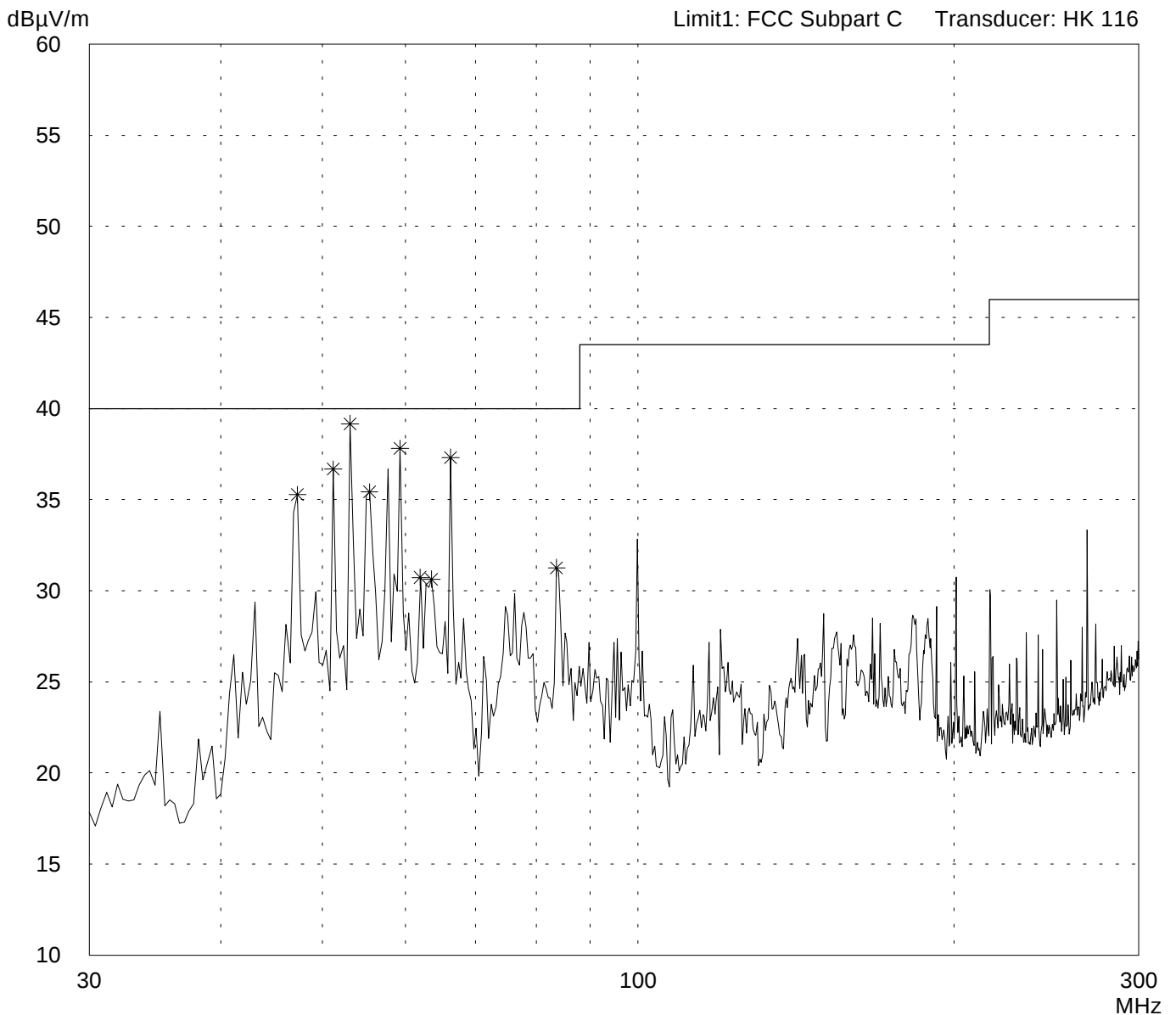
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

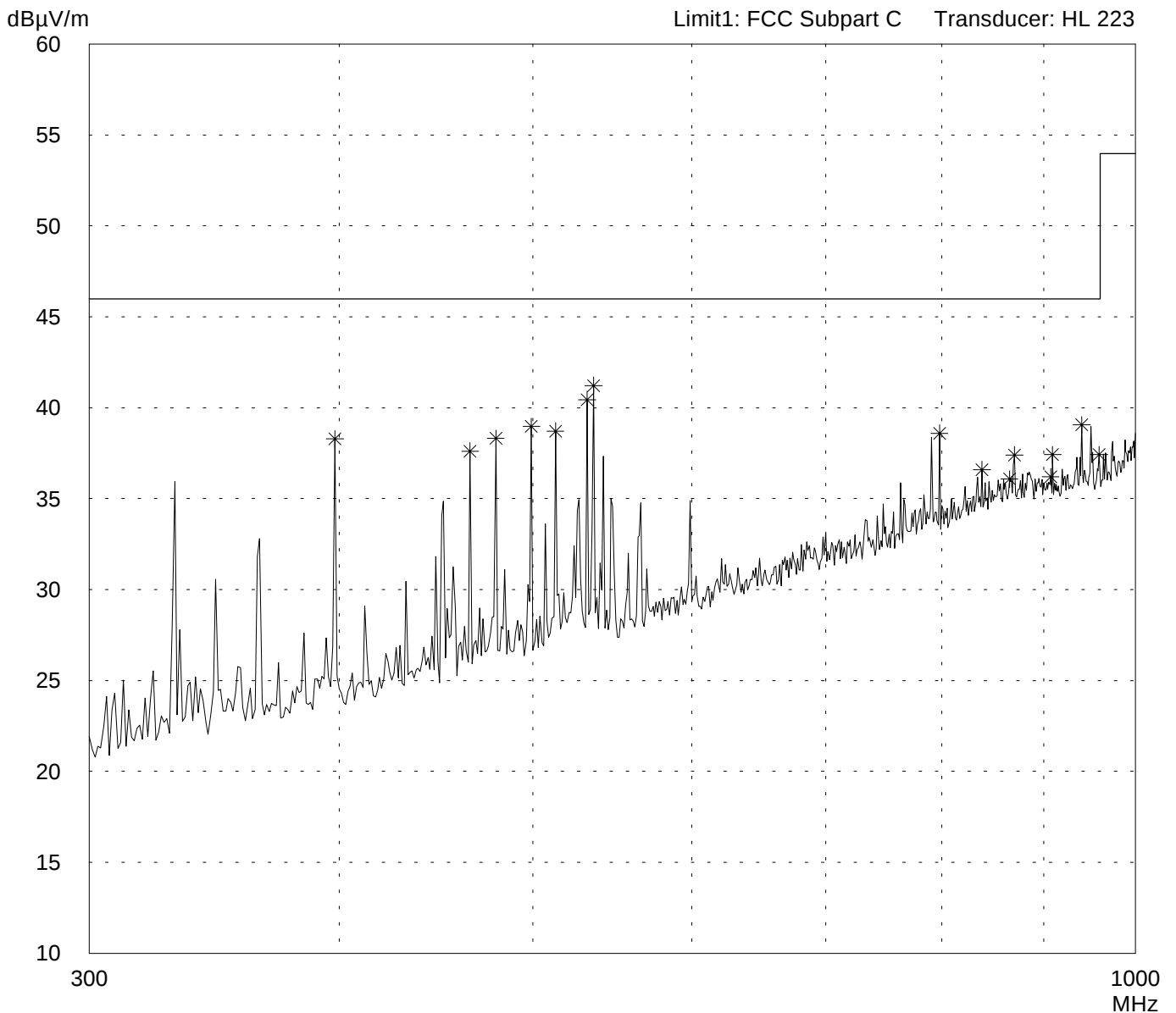
Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

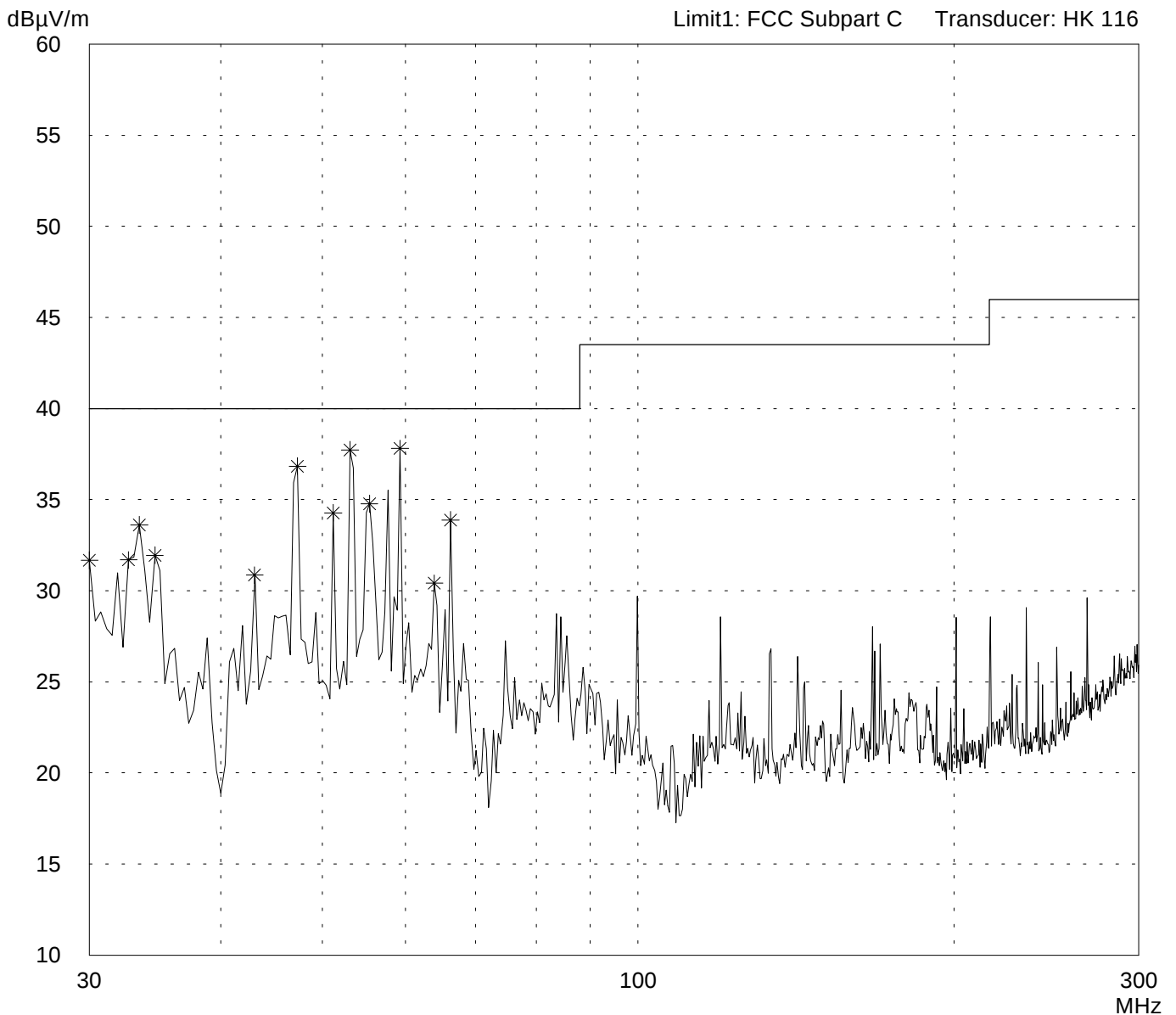
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

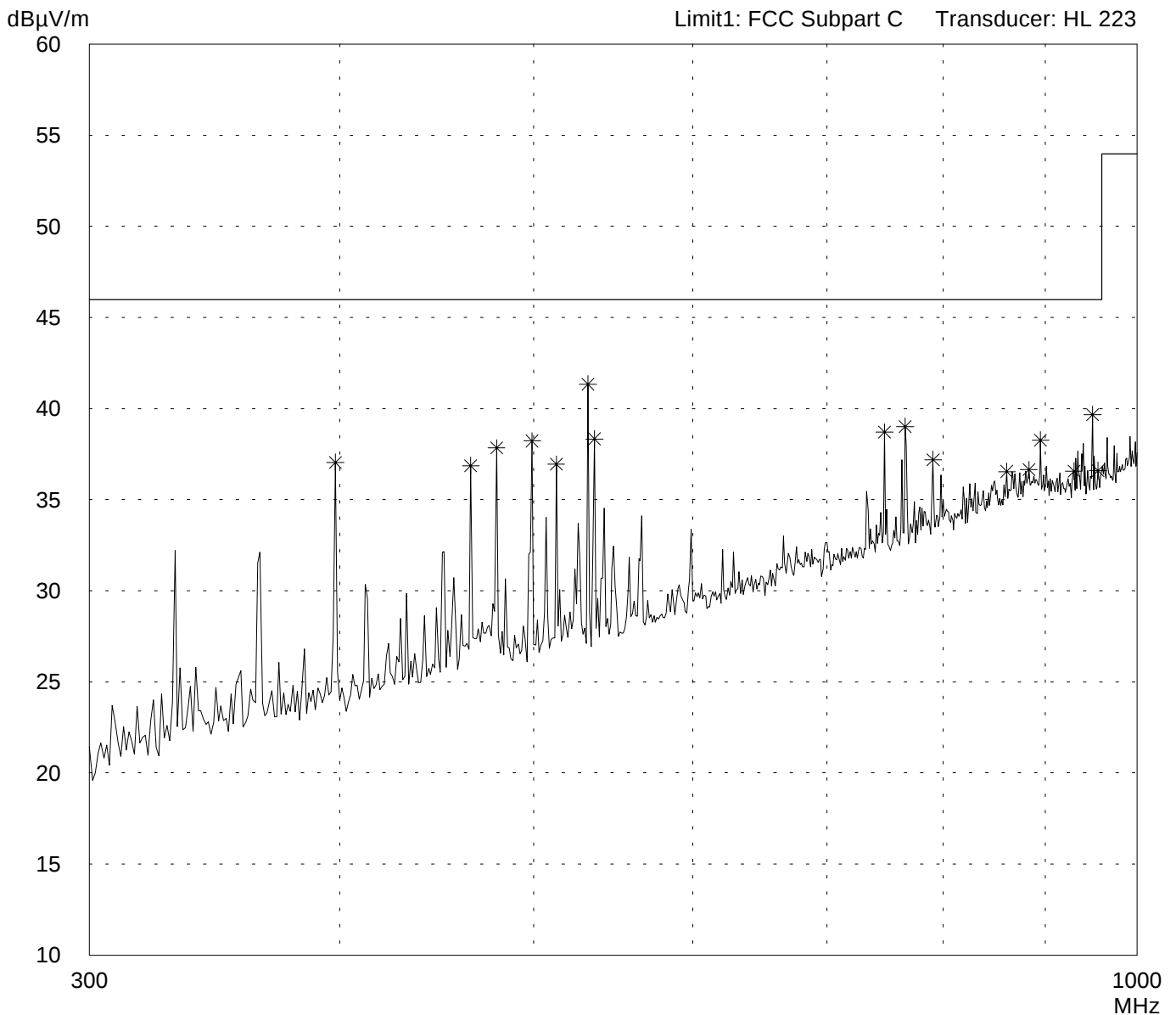
Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 11/30/1999 Operator:
R. Heller

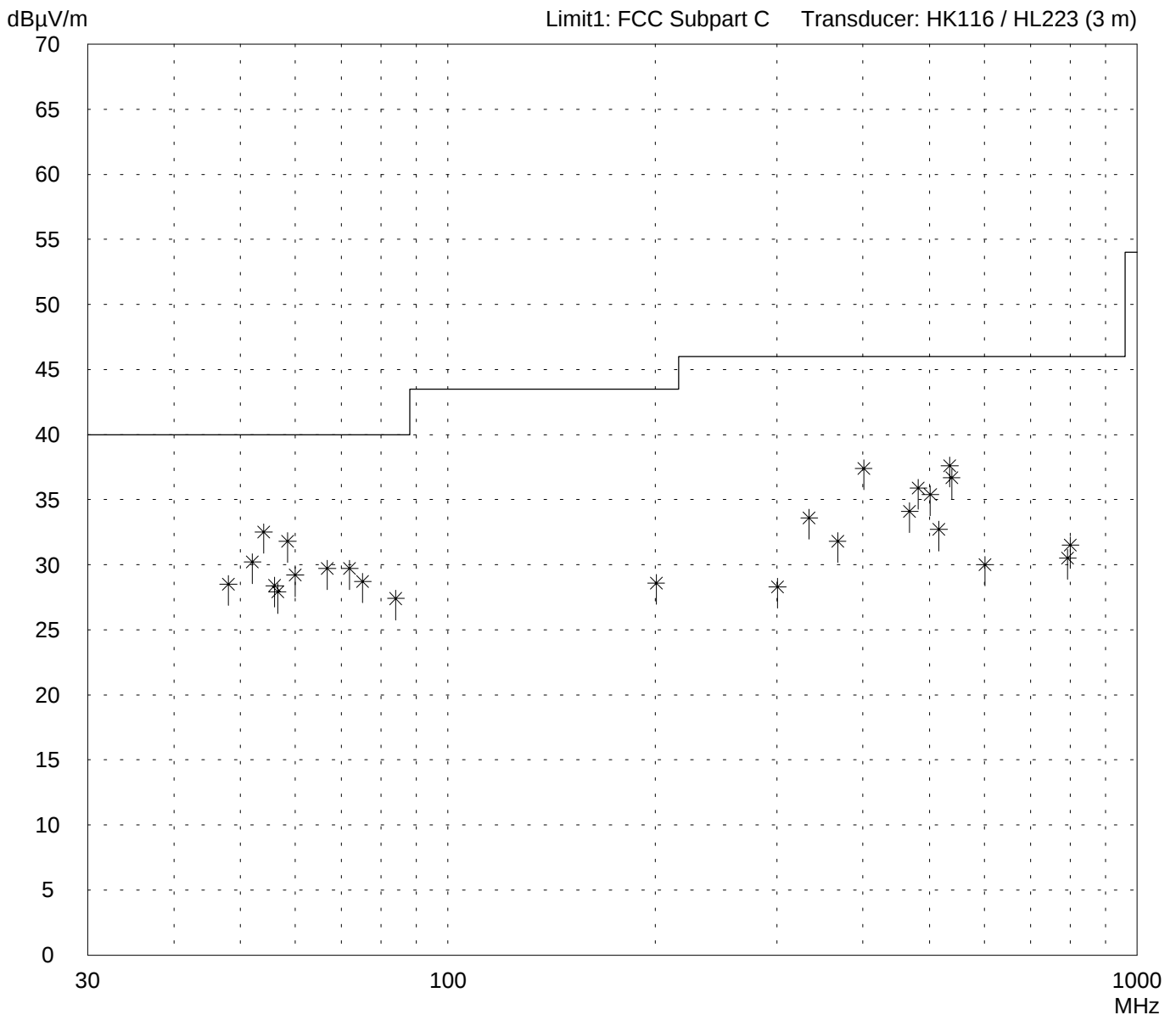
Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 11/30/1999 Operator: R. Heller

Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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
48.0	17.5	11.0	28.5	40.0	
52.0	19.5	10.7	30.2	40.0	
54.0	22.0	10.5	32.5	40.0	
56.0	18.0	10.4	28.4	40.0	
56.6	17.5	10.4	27.9	40.0	
58.5	21.5	10.3	31.8	40.0	
60.0	19.0	10.2	29.2	40.0	
66.8	19.5	10.2	29.7	40.0	
72.0	19.5	10.2	29.7	40.0	
75.2	18.5	10.2	28.7	40.0	
84.0	17.0	10.4	27.4	40.0	
200.5	11.5	17.1	28.6	43.5	
300.7	11.5	16.8	28.3	46.0	
334.1	15.5	18.1	33.6	46.0	
367.5	12.5	19.3	31.8	46.0	
400.9	17.0	20.4	37.4	46.0	
467.7	12.0	22.1	34.1	46.0	
481.5	13.5	22.4	35.9	46.0	
501.2	12.5	22.9	35.4	46.0	
515.5	9.5	23.2	32.7	46.0	
534.6	14.0	23.6	37.6	46.0	
538.1	13.0	23.7	36.7	46.0	
601.4	5.0	25.0	30.0	46.0	
793.0	2.0	28.5	30.5	46.0	
800.0	3.0	28.5	31.5	46.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 11/30/1999
Operator: R. Heller

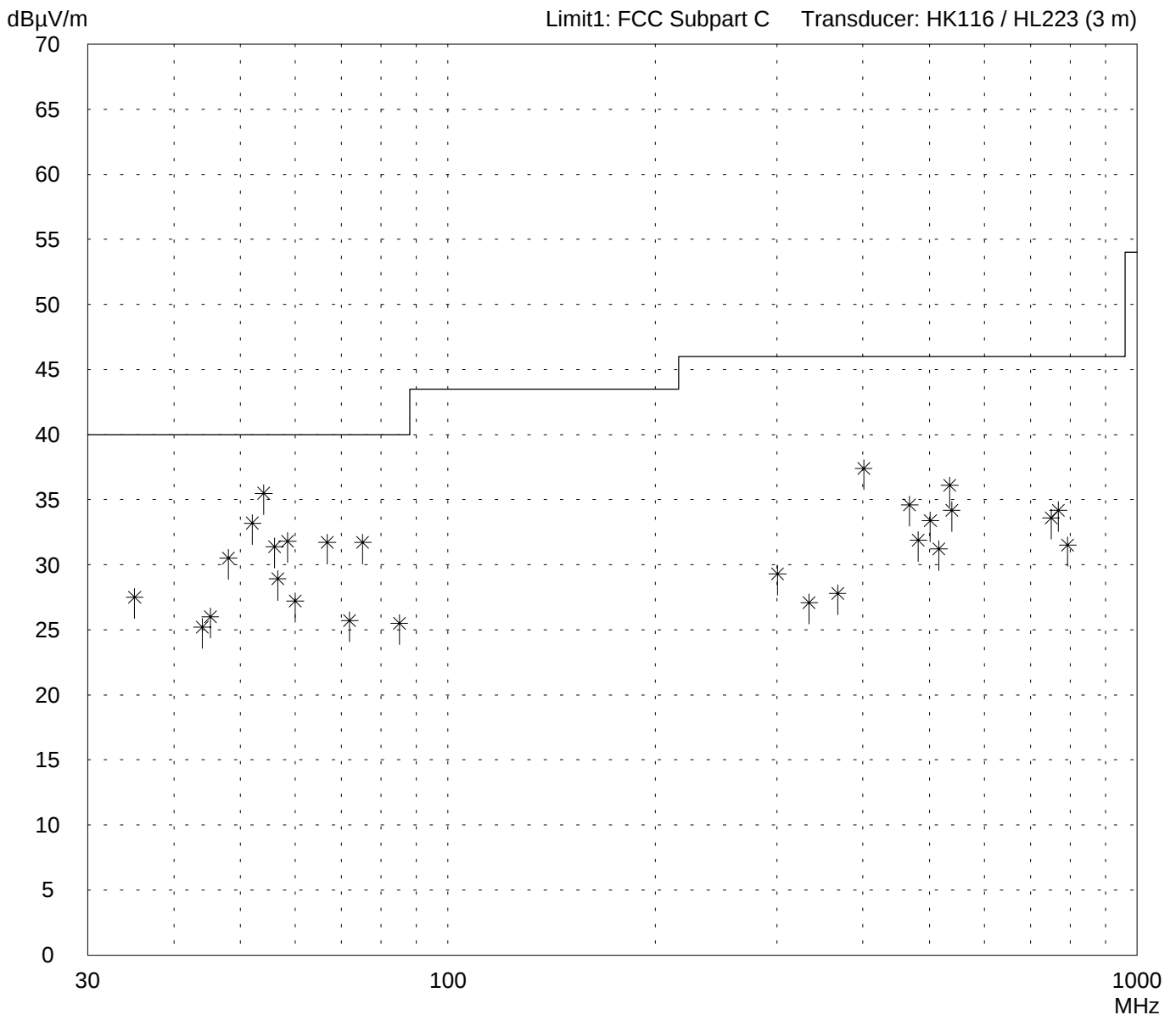
Test performed: by hand
File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 11/30/1999 Operator: R. Heller

Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- 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
35.1	14.0	13.5	27.5	40.0	
44.0	13.5	11.7	25.2	40.0	
45.2	14.5	11.5	26.0	40.0	
48.0	19.5	11.0	30.5	40.0	
52.0	22.5	10.7	33.2	40.0	
54.0	25.0	10.5	35.5	40.0	
56.0	21.0	10.4	31.4	40.0	
56.6	18.5	10.4	28.9	40.0	
58.5	21.5	10.3	31.8	40.0	
60.0	17.0	10.2	27.2	40.0	
66.8	21.5	10.2	31.7	40.0	
72.0	15.5	10.2	25.7	40.0	
75.2	21.5	10.2	31.7	40.0	
85.0	15.0	10.5	25.5	40.0	
300.7	12.5	16.8	29.3	46.0	
334.1	9.0	18.1	27.1	46.0	
367.5	8.5	19.3	27.8	46.0	
400.9	17.0	20.4	37.4	46.0	
467.7	12.5	22.1	34.6	46.0	
481.5	9.5	22.4	31.9	46.0	
501.2	10.5	22.9	33.4	46.0	
515.5	8.0	23.2	31.2	46.0	
534.6	12.5	23.6	36.1	46.0	
538.1	10.5	23.7	34.2	46.0	
750.0	5.5	28.1	33.6	46.0	
768.5	6.0	28.2	34.2	46.0	
793.0	3.0	28.5	31.5	46.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.3900	vertical	56.0		0.6	20.7	56.0	74
2.3986	vertical	72.2		0.6	20.7	72.2	NRB
2.4000	vertical	71.6		0.6	20.7	71.6	NRB
2.4018	vertical	73.9		0.6	20.7	73.9	OB
2.4116	vertical	110.9		0.6	20.7	110.9	OB
2.4231	vertical	73.9		0.6	20.7	73.9	OB
4.8303	vertical	40.1	-94.6		27.3	39.7	74
7.2417	vertical	45.0	-90.7		29.9	46.2	NRB
8.2513	vertical	41.1	-98.6		33.4	41.8	74
9.6467	vertical	48.4	-91.1		33.4	49.3	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 110.9 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

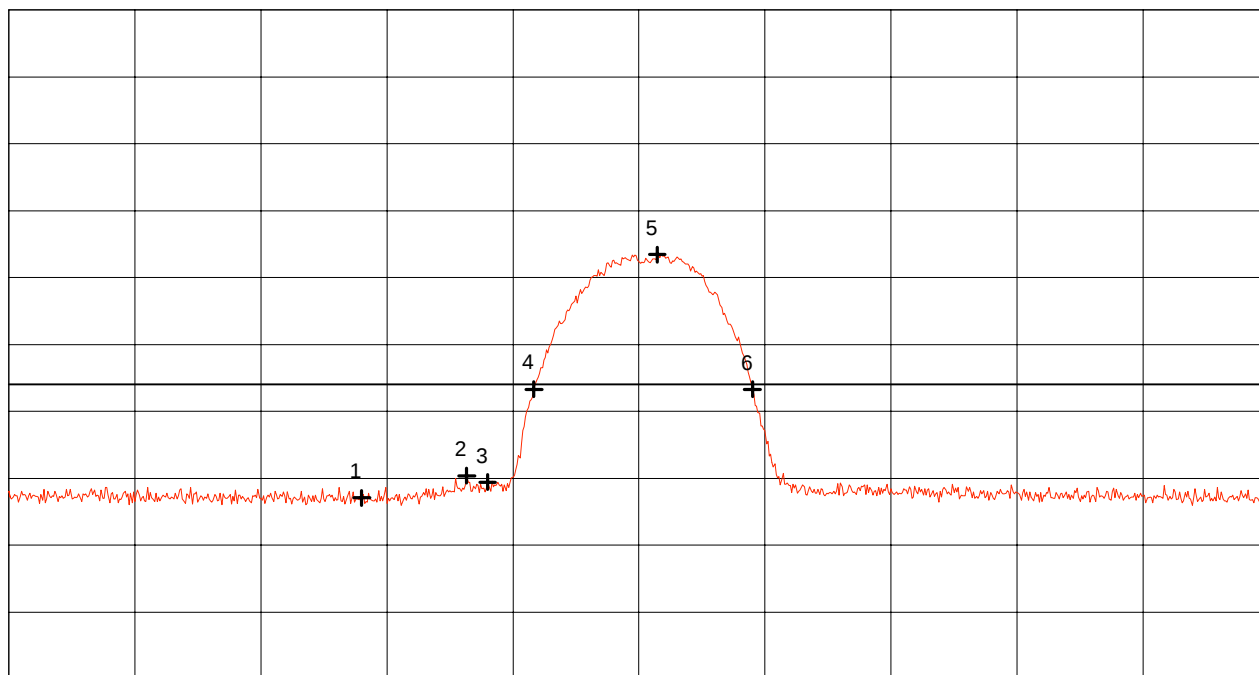
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.462 GHz
SWP 20 ms

**** Multi Marker ****

Nr.	Frequency (GHz)	Amplitude (dB μ V/m)
Nr.1	2.390000	57.06
Nr.2	2.398333	60.39
Nr.3	2.400000	59.42
Nr.4	2.403667	73.31
Nr.5	2.413444	93.43
Nr.6	2.421000	73.29
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

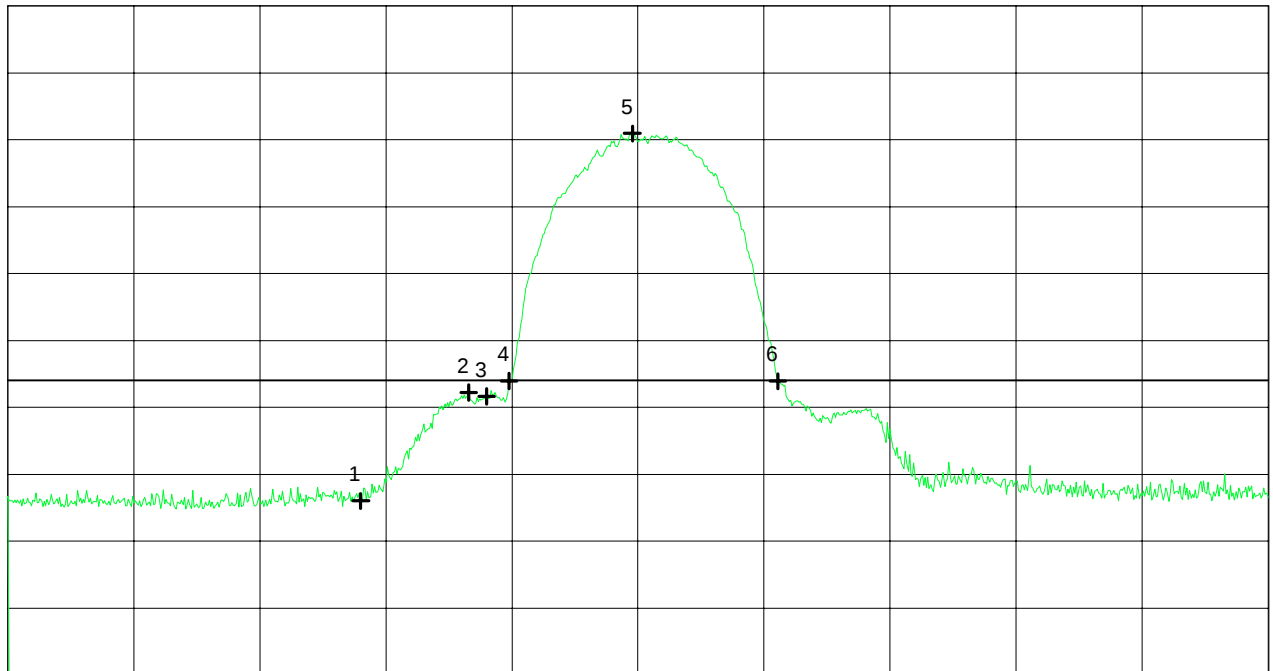
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.462 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	56.02 dB μ V/m
Nr.2	2.398556 GHz	72.22 dB μ V/m
Nr.3	2.400000 GHz	71.63 dB μ V/m
Nr.4	2.401778 GHz	73.94 dB μ V/m
Nr.5	2.411556 GHz	110.94 dB μ V/m
Nr.6	2.423111 GHz	73.92 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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	45.7		0.6	20.7	45.7	54
2.3946	vertical	53.9		0.6	20.7	53.9	NRB
2.3990	vertical	64.0		0.6	20.7	64.0	NRB
2.4000	vertical	61.9		0.6	20.7	61.9	NRB
2.4121	vertical	105.1		0.6	20.7	105.1	OB
2.4317	vertical	54.0		0.6	20.7	54.0	OB
7.2369	vertical	35.0	-100.6		29.9	36.3	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.1 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

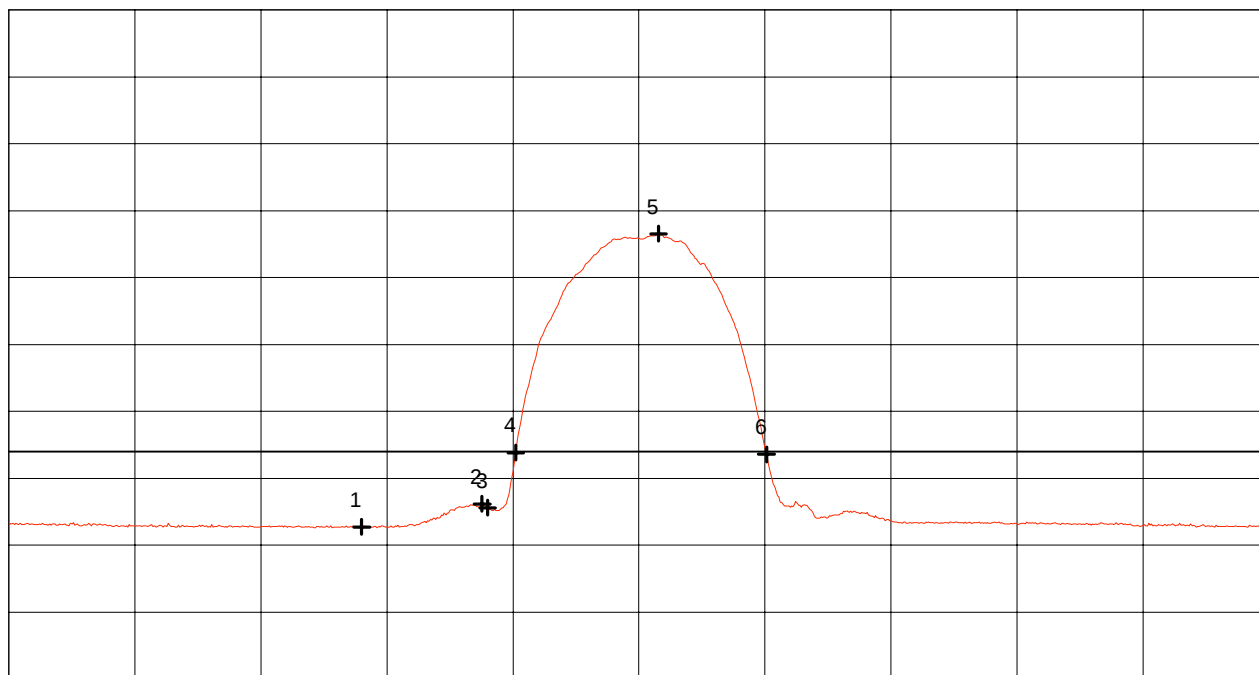
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.462 GHz
SWP 300 ms

**** Multi Marker ****

Nr.	Frequency (GHz)	Amplitude (dB μ V/m)
Nr.1	2.390000	42.71
Nr.2	2.399556	46.17
Nr.3	2.400000	45.58
Nr.4	2.402222	53.84
Nr.5	2.413556	86.54
Nr.6	2.422111	53.58
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

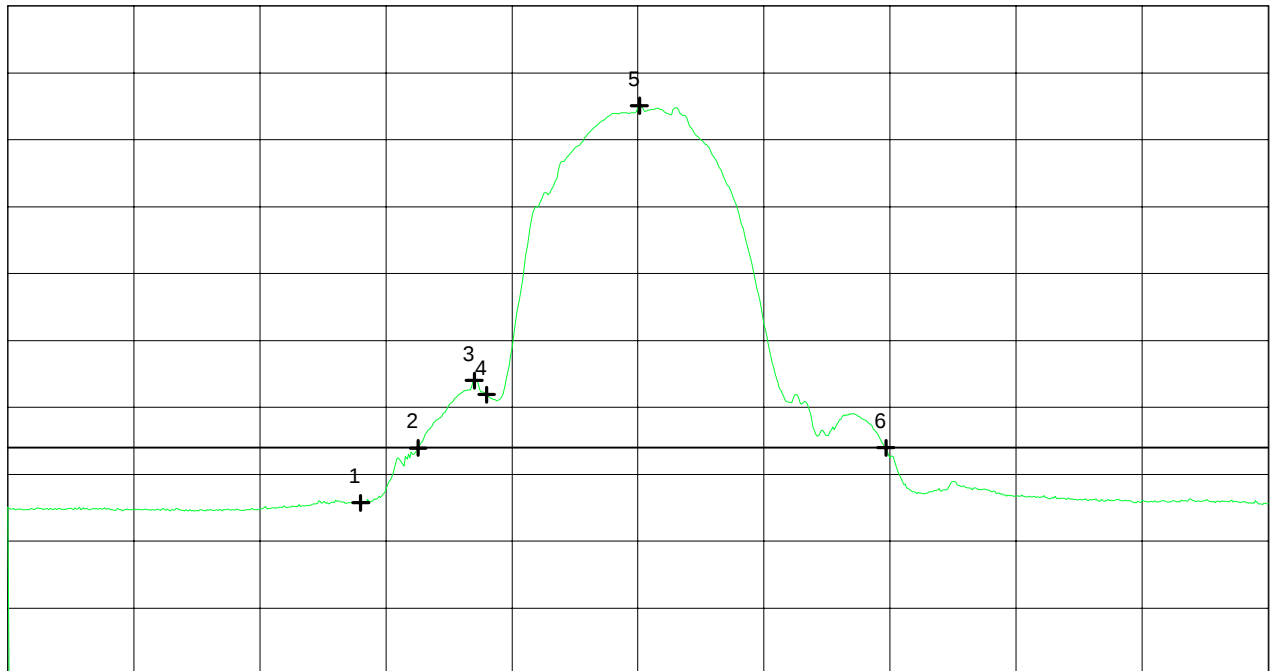
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.462 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	45.73 dB μ V/m
Nr.2	2.394556 GHz	53.93 dB μ V/m
Nr.3	2.399000 GHz	64.01 dB μ V/m
Nr.4	2.400000 GHz	61.91 dB μ V/m
Nr.5	2.412111 GHz	105.08 dB μ V/m
Nr.6	2.431667 GHz	53.96 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.3900	vertical	56.8		0.6	20.7	56.8	74
2.3974	vertical	70.6		0.6	20.7	70.6	NRB
2.4000	vertical	69.5		0.6	20.7	69.5	NRB
2.4020	vertical	73.3		0.6	20.7	73.3	OB
2.4146	vertical	108.5		0.6	20.7	108.5	OB
2.4232	vertical	74.0		0.6	20.7	74.0	OB
7.2375	vertical	44.5	-91.2		29.9	45.7	NRB

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 108.5 dBμV/m.

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

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

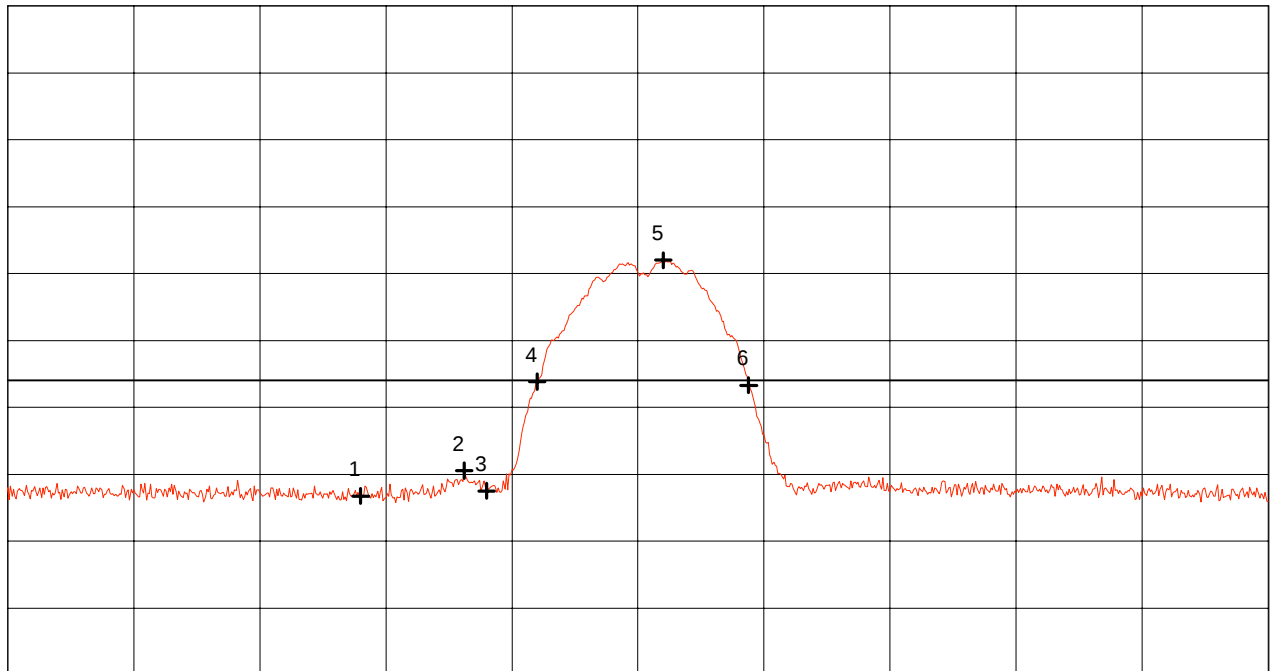
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.462 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	56.76 dB μ V/m
Nr.2	2.398222 GHz	60.54 dB μ V/m
Nr.3	2.400000 GHz	57.49 dB μ V/m
Nr.4	2.404000 GHz	73.85 dB μ V/m
Nr.5	2.414000 GHz	92.00 dB μ V/m
Nr.6	2.420778 GHz	73.31 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

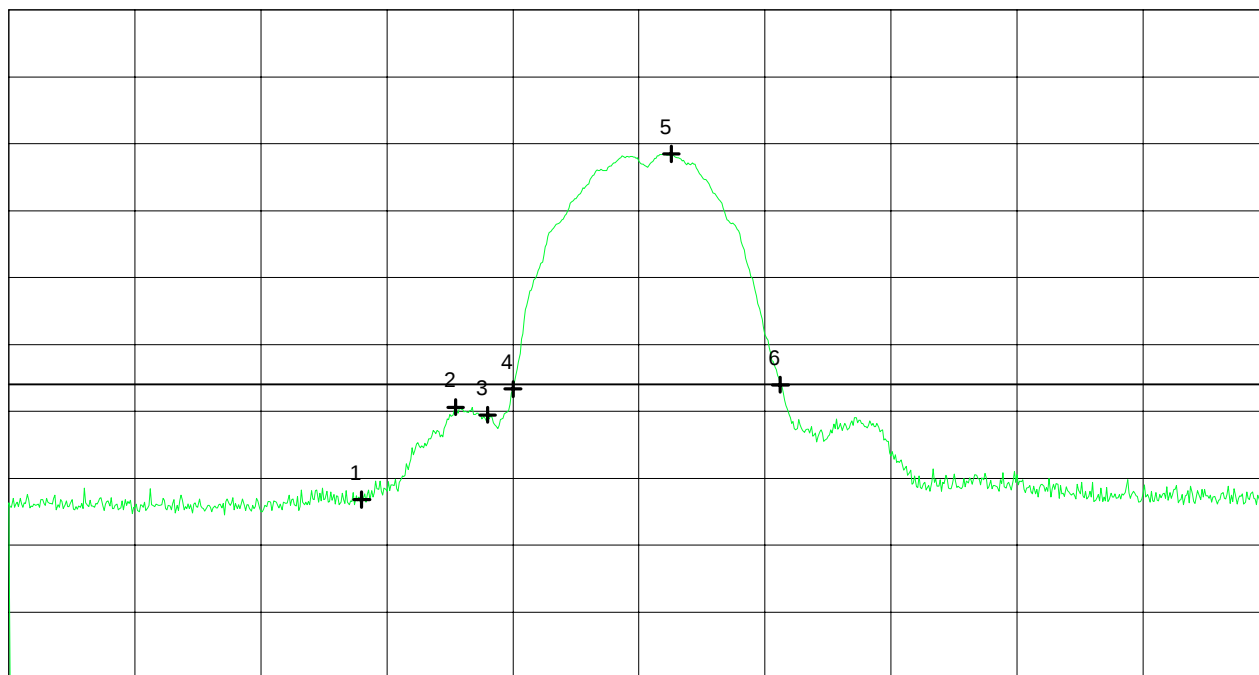
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.462 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	56.80 dB μ V/m
Nr.2	2.397444 GHz	70.64 dB μ V/m
Nr.3	2.400000 GHz	69.47 dB μ V/m
Nr.4	2.402000 GHz	73.33 dB μ V/m
Nr.5	2.414556 GHz	108.50 dB μ V/m
Nr.6	2.423222 GHz	73.97 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 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	46.4		0.6	20.7	46.4	54
2.3934	vertical	53.0		0.6	20.7	53.0	NRB
2.3983	vertical	65.7		0.6	20.7	65.7	NRB
2.4000	vertical	62.0		0.6	20.7	62.0	NRB
2.4128	vertical	105.0		0.6	20.7	105.0	OB
2.4320	vertical	54.0		0.6	20.7	54.0	OB
7.2387	vertical	37.3	-98.3		29.9	38.6	NRB

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.0 dBμV/m.

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

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

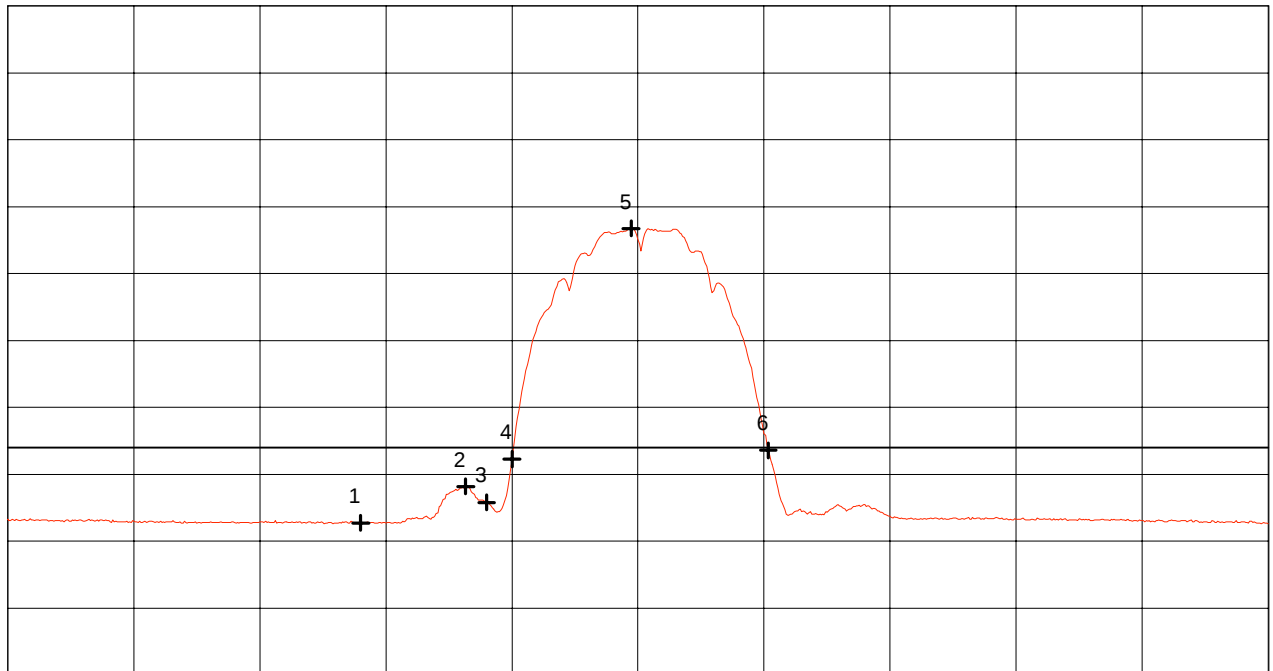
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.462 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	42.74 dB μ V/m
Nr.2	2.398333 GHz	48.17 dB μ V/m
Nr.3	2.400000 GHz	45.79 dB μ V/m
Nr.4	2.402000 GHz	52.26 dB μ V/m
Nr.5	2.411444 GHz	86.72 dB μ V/m
Nr.6	2.422333 GHz	53.58 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

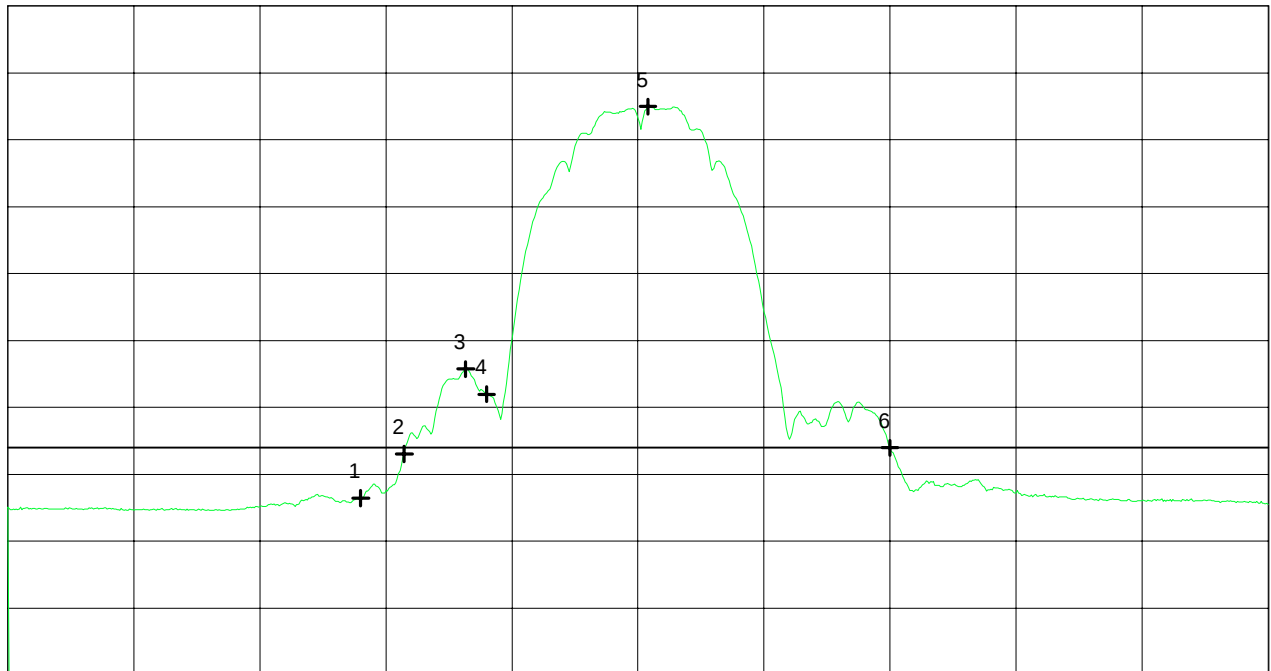
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.462 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	46.44 dB μ V/m
Nr.2	2.393444 GHz	53.04 dB μ V/m
Nr.3	2.398333 GHz	65.74 dB μ V/m
Nr.4	2.400000 GHz	61.98 dB μ V/m
Nr.5	2.412778 GHz	104.95 dB μ V/m
Nr.6	2.432000 GHz	53.96 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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	73.7		0.6	20.7	73.7	OB
2.4416	vertical	111.2		0.6	20.7	111.2	OB
2.4529	vertical	73.5		0.6	20.7	73.5	OB
3.4880	vertical	43.5		0.7	23.8	43.5	74
4.8894	vertical	41.3	-93.1		27.3	41.2	74
7.3305	vertical	41.7	-95.0		29.9	41.9	74
8.3680	vertical	41.2	-98.7		33.4	41.7	74
9.7680	vertical	50.2	-89.8		33.4	50.6	NRB
12.2273	horizontal	43.1	-97.0		33.6	43.6	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 111.2 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

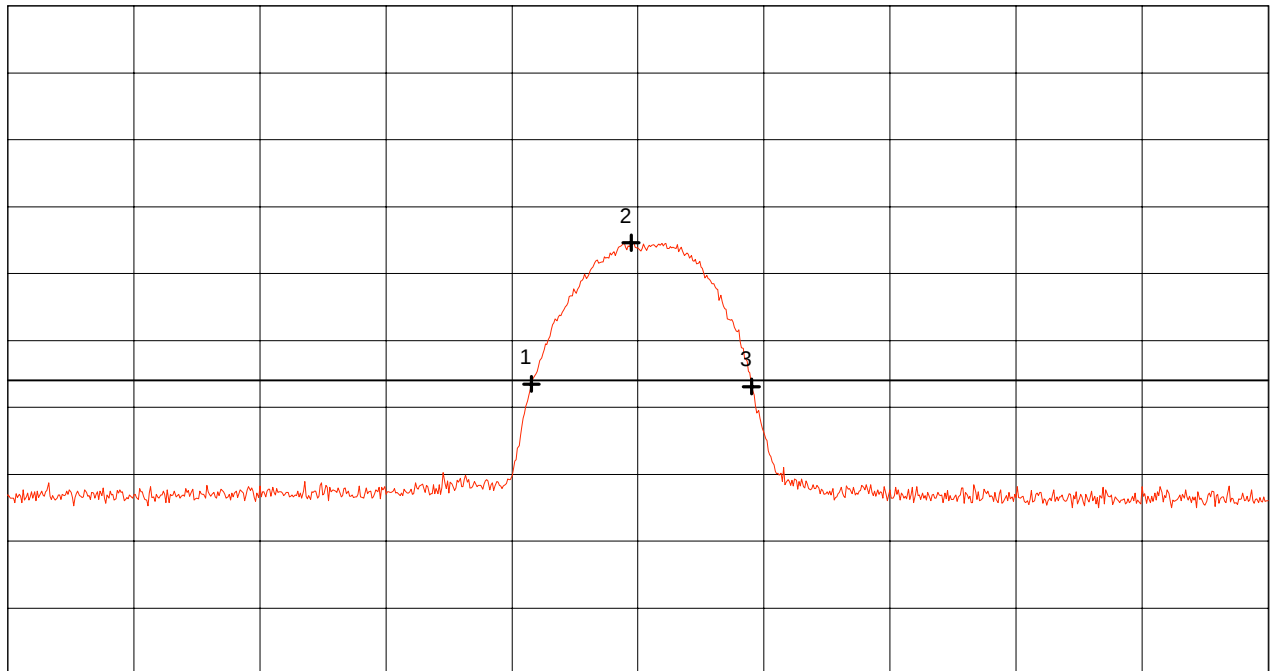
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.492 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.433556 GHz	73.49 dB μ V/m
Nr.2	2.441444 GHz	94.62 dB μ V/m
Nr.3	2.451000 GHz	73.11 dB μ V/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

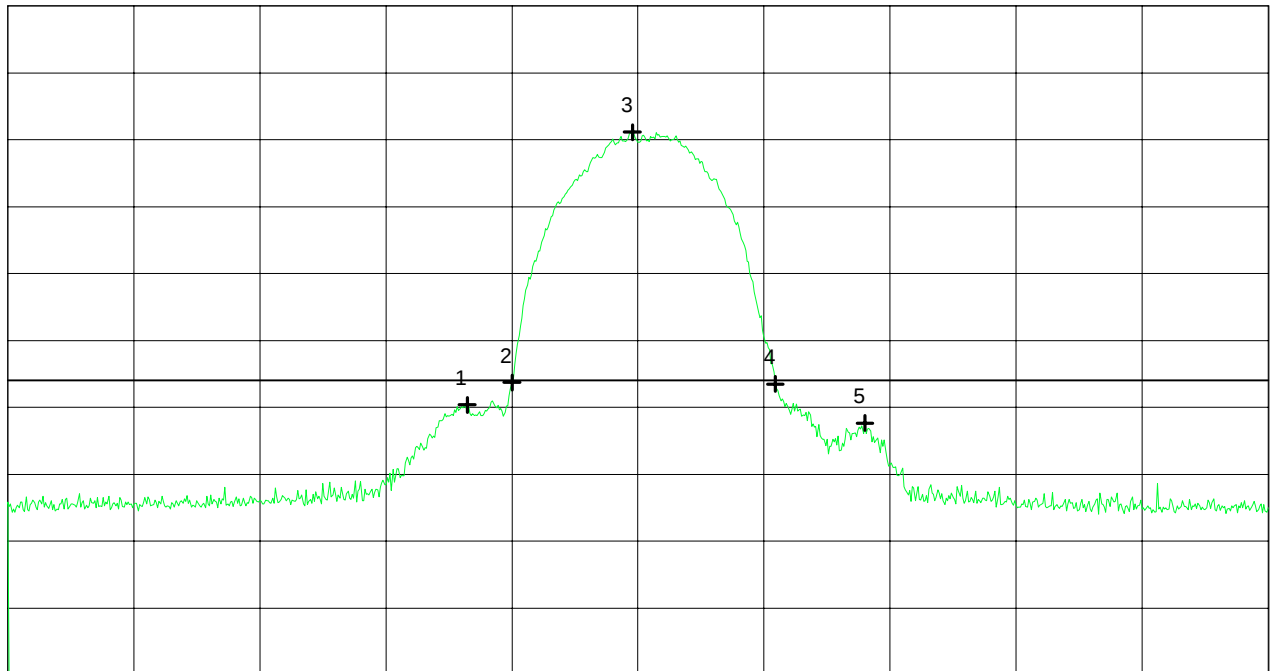
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.492 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.428444 GHz	70.39 dB μ V/m
Nr.2	2.432000 GHz	73.74 dB μ V/m
Nr.3	2.441556 GHz	111.15 dB μ V/m
Nr.4	2.452889 GHz	73.49 dB μ V/m
Nr.5	2.460000 GHz	67.67 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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]
2.4250	vertical	53.9		0.6	20.7	53.9	OB
2.4421	vertical	105.9		0.6	20.7	105.9	OB
2.4608	vertical	53.8		0.6	20.7	53.8	OB
9.7680	vertical	47.4	-92.4		33.4	48.0	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.9 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

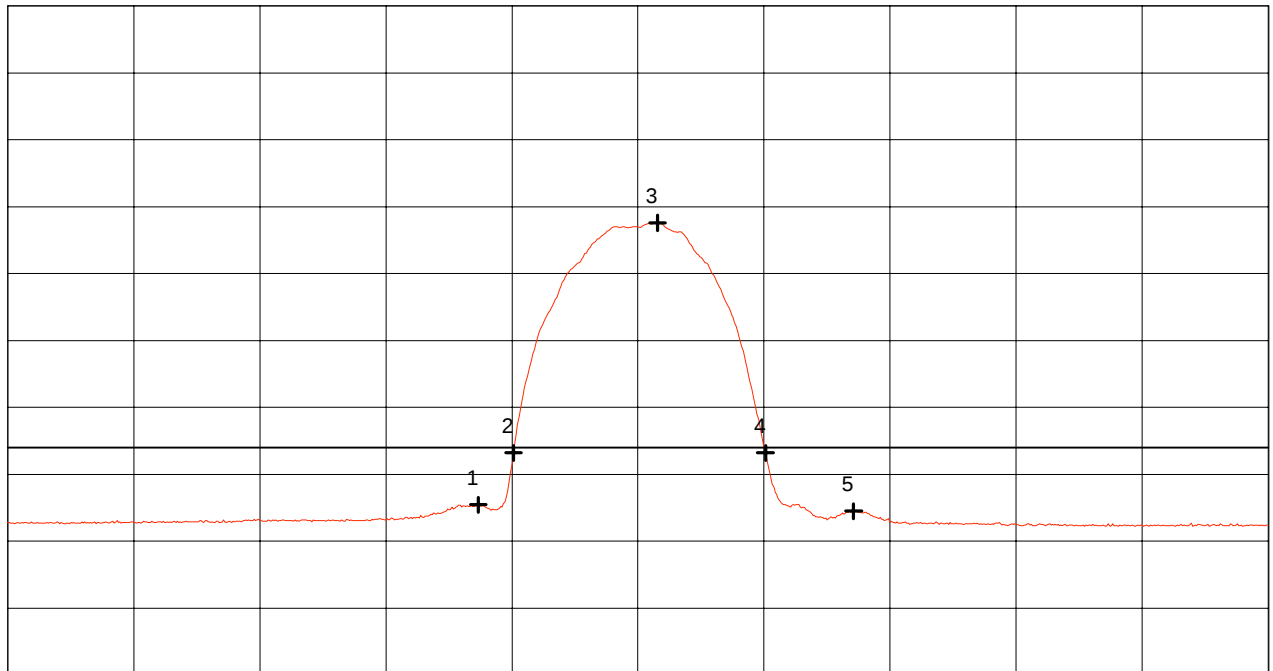
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.492 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.429333 GHz	45.43 dB μ V/m
Nr.2	2.432111 GHz	53.20 dB μ V/m
Nr.3	2.443556 GHz	87.58 dB μ V/m
Nr.4	2.452111 GHz	53.20 dB μ V/m
Nr.5	2.459111 GHz	44.49 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

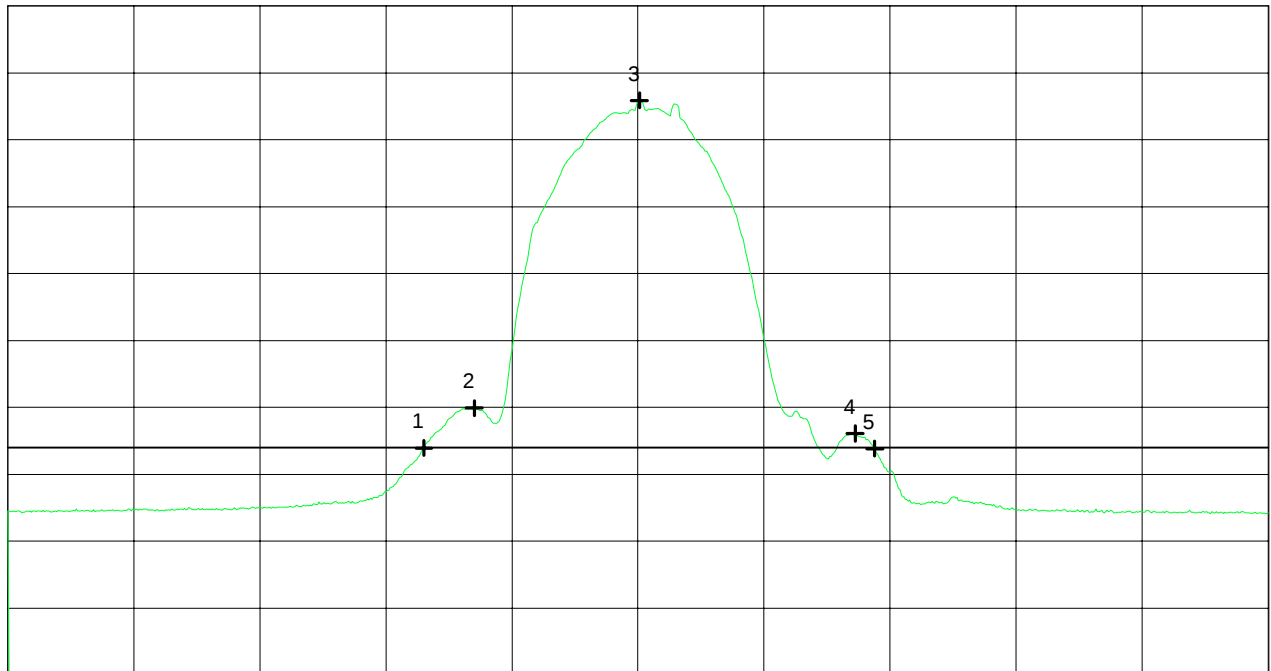
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.492 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.425000 GHz	53.91 dB μ V/m
Nr.2	2.429000 GHz	59.88 dB μ V/m
Nr.3	2.442111 GHz	105.89 dB μ V/m
Nr.4	2.459222 GHz	56.09 dB μ V/m
Nr.5	2.460778 GHz	53.83 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: LUC PC24E-H-FC
 Type: RF-modem for wireless LAN
 Serial No.: 99UT11411941
 Applicant: Lucent Technologies Nederland B.V.
 Test-site: Semi anechoic room
 Test distance: 3 meters
 Date of test: 12/01/1999
 Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
 via ISA card ISAPC-B0 (#B2-23)
 - FCC test setup
 - supply voltage 115 V AC
 - with external antenna AOU24-OD-10
 - with 20 ft antenna cable (LMR400)

 - operating with bit rate 2 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]
2.4321	vertical	73.9		0.6	20.7	73.9	OB
2.4442	vertical	108.7		0.6	20.7	108.7	OB
2.4529	vertical	73.7		0.6	20.7	73.7	OB
9.7681	vertical	50.6	-89.4		33.4	51.0	NRB

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 108.7 dBμV/m.

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

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

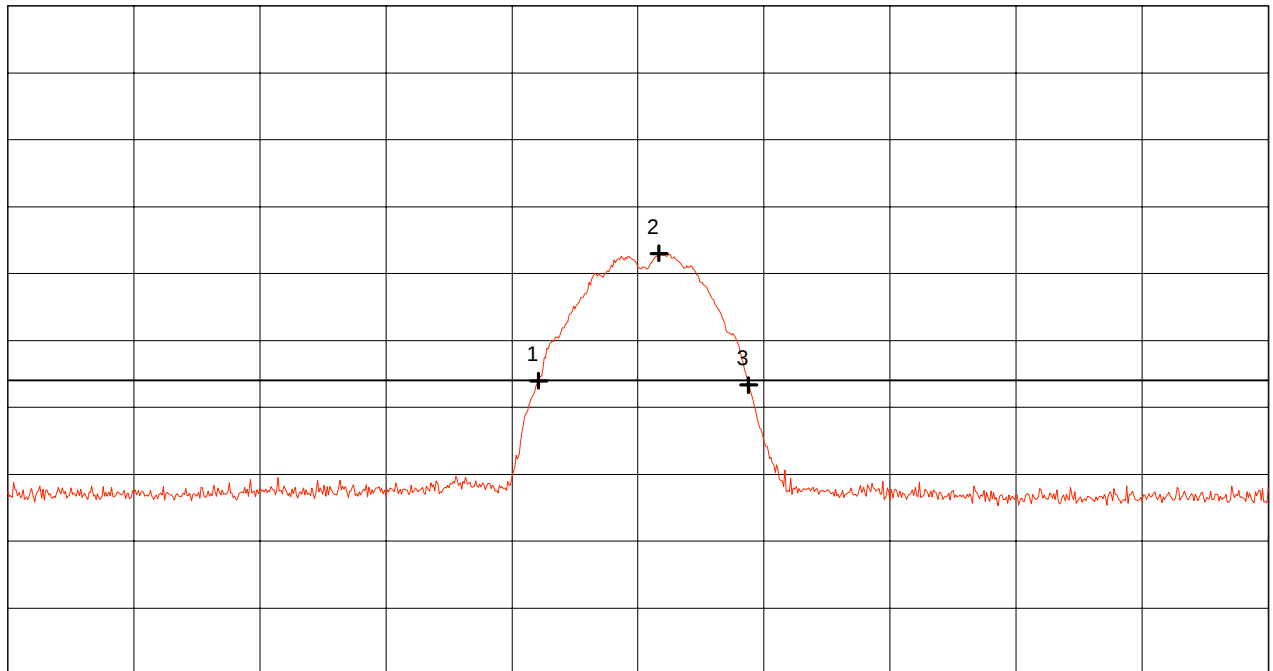
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.492 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.434111 GHz	73.97 dB μ V/m
Nr.2	2.443667 GHz	93.02 dB μ V/m
Nr.3	2.450778 GHz	73.34 dB μ V/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

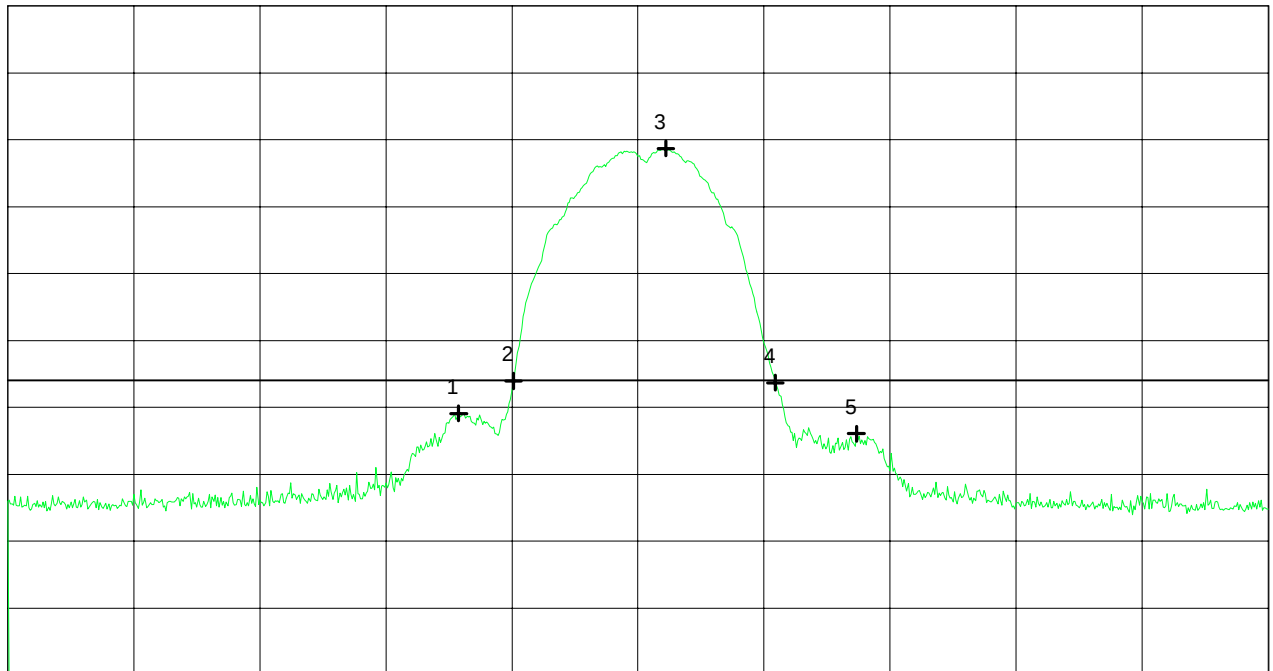
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.492 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.427778 GHz	69.07 dB μ V/m
Nr.2	2.432111 GHz	73.94 dB μ V/m
Nr.3	2.444222 GHz	108.71 dB μ V/m
Nr.4	2.452889 GHz	73.69 dB μ V/m
Nr.5	2.459333 GHz	66.07 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: LUC PC24E-H-FC
 Type: RF-modem for wireless LAN
 Serial No.: 99UT11411941
 Applicant: Lucent Technologies Nederland B.V.
 Test-site: Semi anechoic room
 Test distance: 3 meters
 Date of test: 12/01/1999
 Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
 via ISA card ISAPC-B0 (#B2-23)
 - FCC test setup
 - supply voltage 115 V AC
 - with external antenna AOU24-OD-10
 - with 20 ft antenna cable (LMR400)

 - operating with bit rate 2 Mbps

 - TX mode with $f = 2.442$ GHz

Detector: Average

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]
2.4248	vertical	53.9		0.6	20.7	53.9	OB
2.4428	vertical	105.2		0.6	20.7	105.2	OB
2.4611	vertical	54.0		0.6	20.7	54.0	OB
9.7681	vertical	49.4	-90.4		33.4	50.0	NRB

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.2 dB μ V/m.

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

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

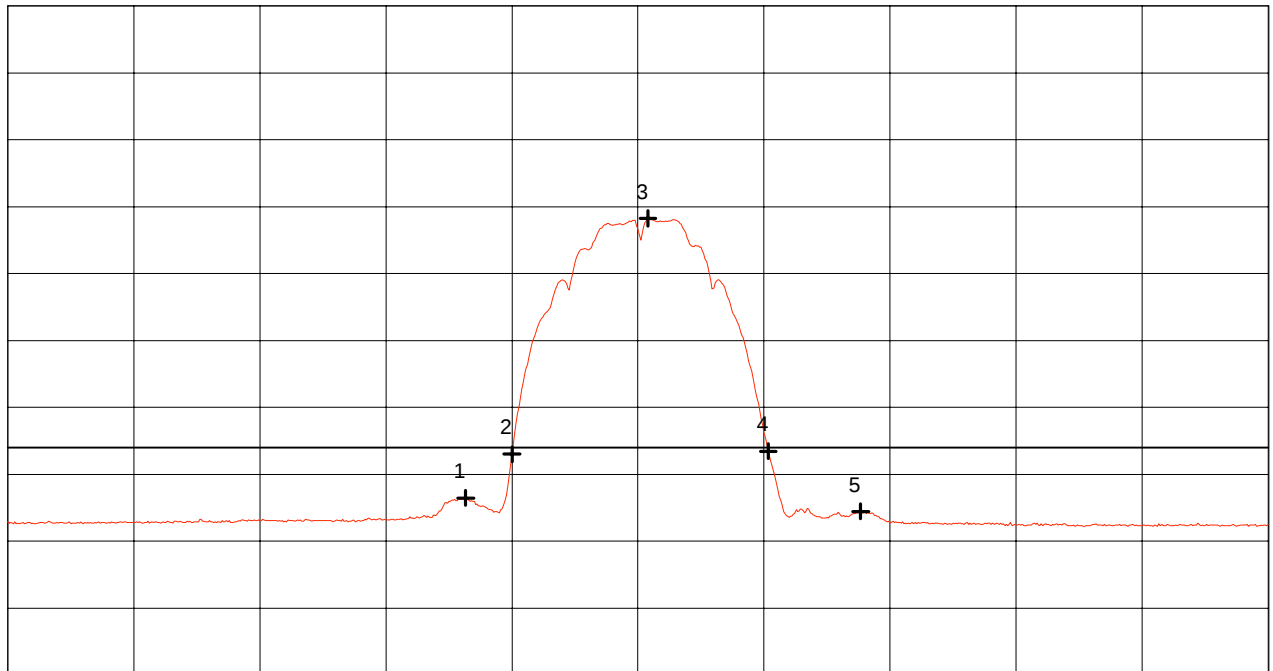
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.492 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.428333 GHz	46.45 dB μ V/m
Nr.2	2.432000 GHz	53.00 dB μ V/m
Nr.3	2.442778 GHz	88.25 dB μ V/m
Nr.4	2.452333 GHz	53.46 dB μ V/m
Nr.5	2.459667 GHz	44.44 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

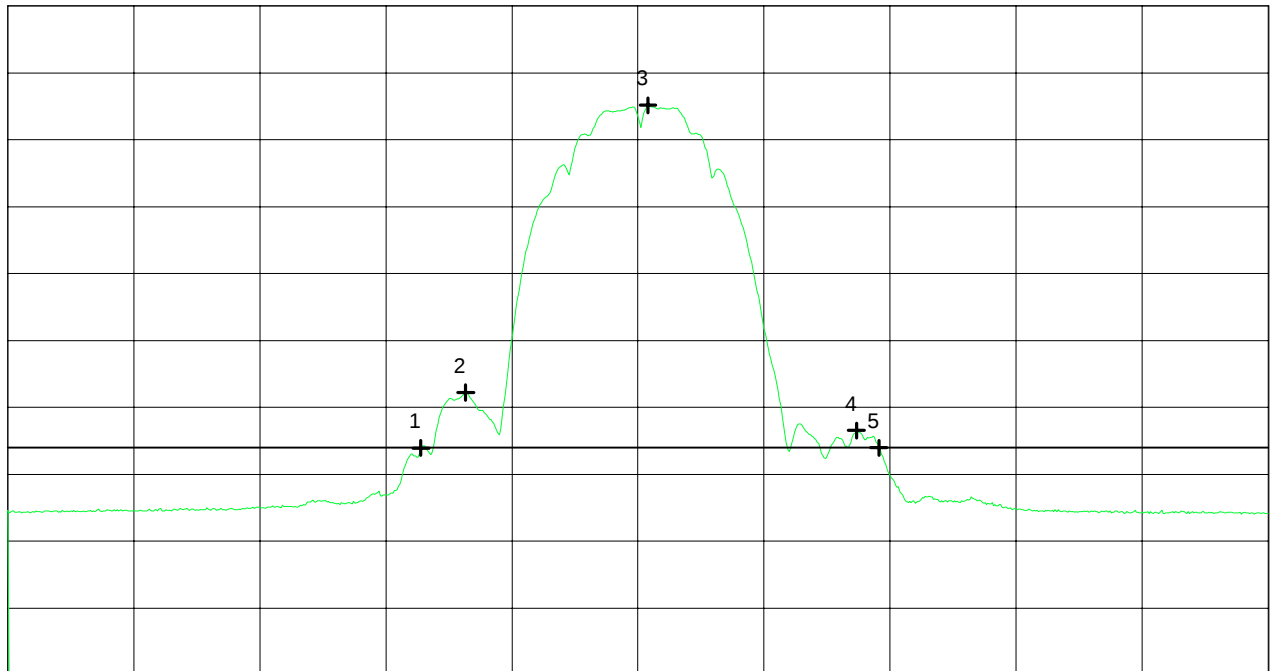
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.392 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.492 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.424778 GHz	53.91 dB μ V/m
Nr.2	2.428333 GHz	62.21 dB μ V/m
Nr.3	2.442778 GHz	105.15 dB μ V/m
Nr.4	2.459333 GHz	56.52 dB μ V/m
Nr.5	2.461111 GHz	53.96 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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	72.9		0.6	20.7	72.9	OB
2.4616	vertical	111.6		0.6	20.7	111.6	OB
2.4730	vertical	73.3		0.6	20.7	73.3	OB
2.4835	vertical	56.2		0.6	20.7	56.2	74
2.4869	vertical	59.7		0.6	20.7	59.7	74
2.5000	vertical	55.4		0.6	20.7	55.4	74
4.9296	horizontal	44.8	-89.7		27.3	44.6	74
7.3879	horizontal	42.6	-93.5		30.0	43.5	74
8.4473	vertical	41.6	-98.6		33.4	41.8	74
9.8473	vertical	49.9	-89.8		33.4	50.6	NRB
12.3580	vertical	42.5	-98.3		33.6	42.3	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 111.6 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

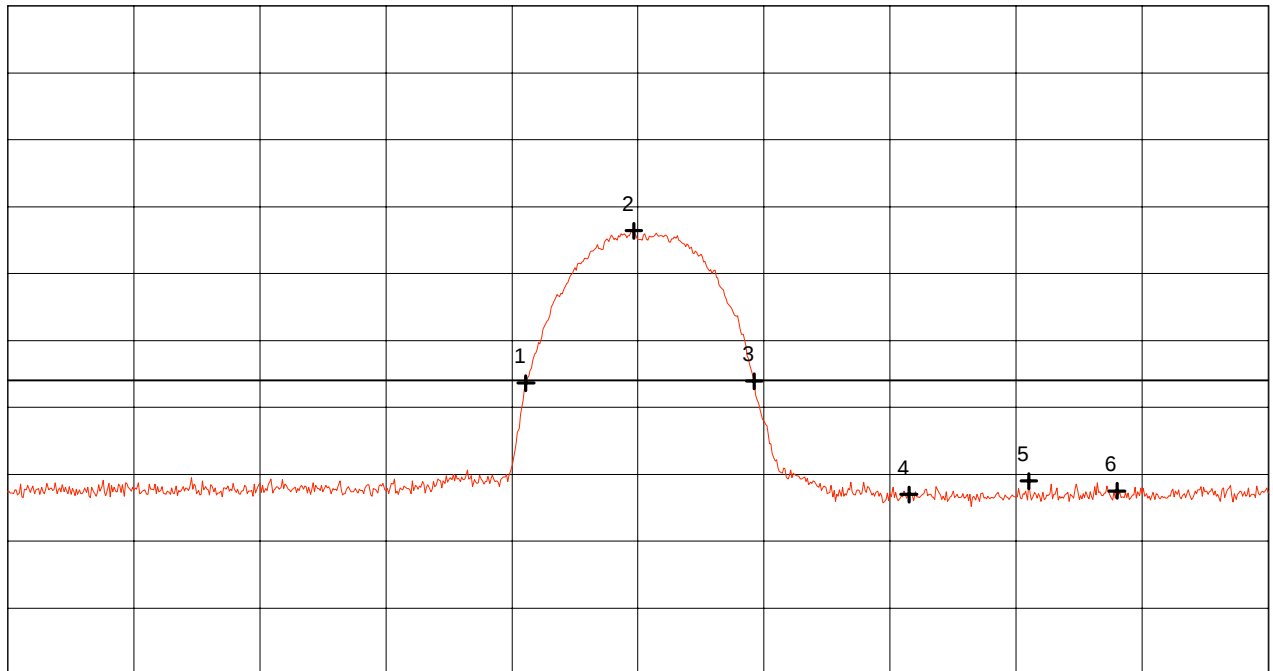
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.512 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.453111 GHz	73.64 dB μ V/m
Nr.2	2.461667 GHz	96.40 dB μ V/m
Nr.3	2.471222 GHz	73.92 dB μ V/m
Nr.4	2.483500 GHz	56.99 dB μ V/m
Nr.5	2.493000 GHz	58.99 dB μ V/m
Nr.6	2.500000 GHz	57.49 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

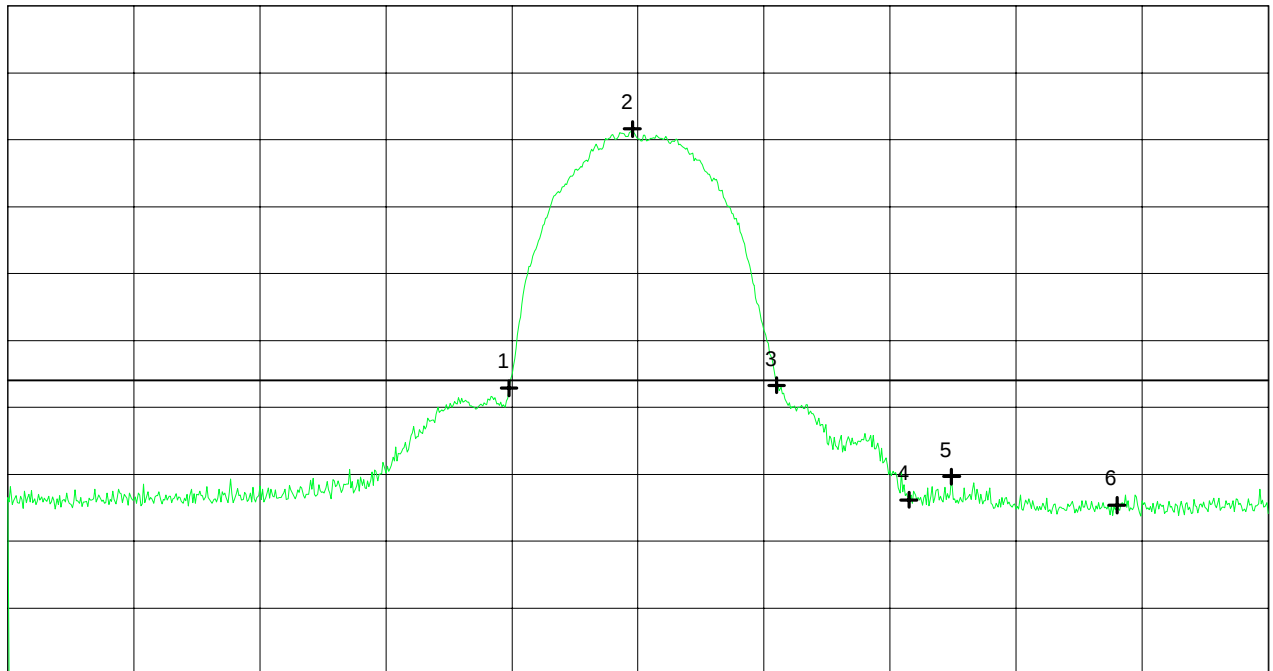
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.512 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.451778 GHz	72.88 dB μ V/m
Nr.2	2.461556 GHz	111.60 dB μ V/m
Nr.3	2.473000 GHz	73.28 dB μ V/m
Nr.4	2.483500 GHz	56.19 dB μ V/m
Nr.5	2.486889 GHz	59.65 dB μ V/m
Nr.6	2.500000 GHz	55.38 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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]
2.4439	vertical	53.9		0.6	20.7	53.9	OB
2.4601	vertical	105.1		0.6	20.7	105.1	OB
2.4803	vertical	53.7		0.6	20.7	53.7	OB
2.4835	vertical	45.8		0.6	20.7	45.8	54
2.4877	vertical	46.2		0.6	20.7	46.2	54
2.5000	vertical	44.5		0.6	20.7	44.5	54
4.9242	vertical	36.5	-97.7		27.3	36.6	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 105.1 dBμV/m.

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

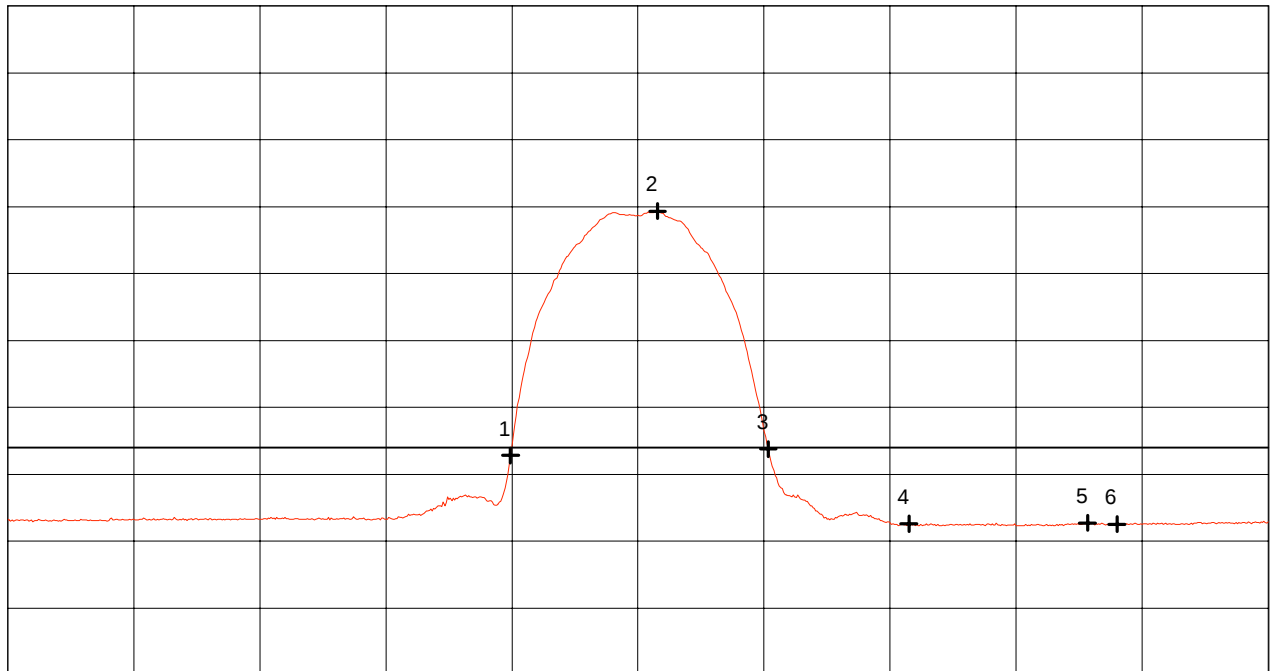
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.512 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.451889 GHz	52.82 dB μ V/m
Nr.2	2.463556 GHz	89.34 dB μ V/m
Nr.3	2.472333 GHz	53.76 dB μ V/m
Nr.4	2.483500 GHz	42.61 dB μ V/m
Nr.5	2.497667 GHz	42.71 dB μ V/m
Nr.6	2.500000 GHz	42.54 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

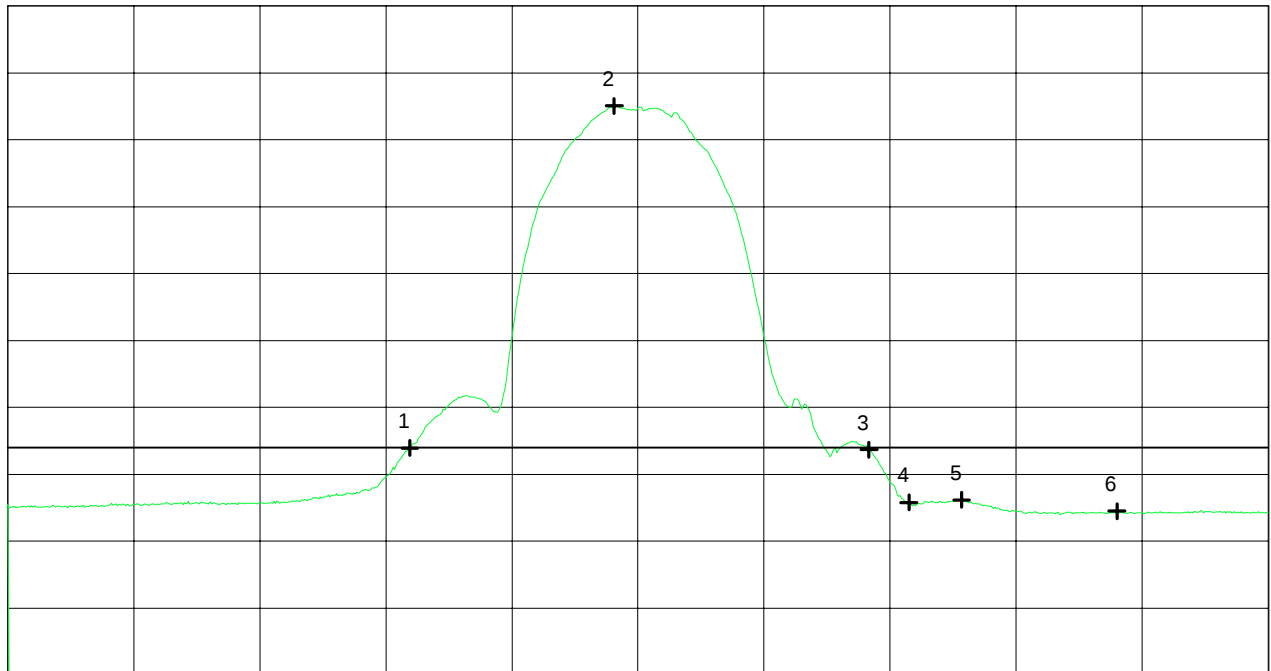
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.512 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.443889 GHz	53.93 dB μ V/m
Nr.2	2.460111 GHz	105.05 dB μ V/m
Nr.3	2.480333 GHz	53.65 dB μ V/m
Nr.4	2.483500 GHz	45.81 dB μ V/m
Nr.5	2.487667 GHz	46.16 dB μ V/m
Nr.6	2.500000 GHz	44.49 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
- operating with bit rate 2 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]
2.4519	vertical	73.0		0.6	20.7	73.0	OB
2.4609	vertical	108.9		0.6	20.7	108.9	OB
2.4731	vertical	73.7		0.6	20.7	73.7	OB
2.4835	vertical	56.4		0.6	20.7	56.4	74
2.4851	vertical	58.8		0.6	20.7	58.8	74
2.5000	vertical	56.2		0.6	20.7	56.2	74
4.9240	vertical	43.2	-91.2		27.3	43.1	74

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 108.9 dBμV/m.

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

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

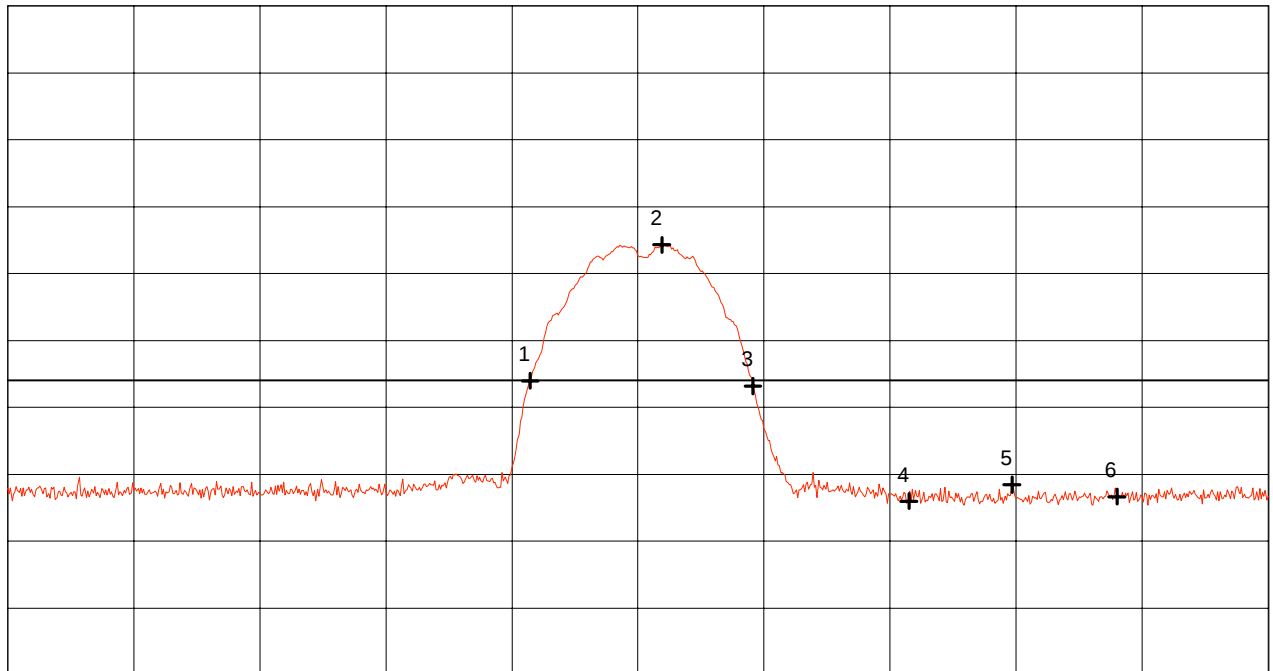
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.512 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.453444 GHz	73.95 dB μ V/m
Nr.2	2.463889 GHz	94.31 dB μ V/m
Nr.3	2.471111 GHz	73.19 dB μ V/m
Nr.4	2.483500 GHz	55.97 dB μ V/m
Nr.5	2.491667 GHz	58.43 dB μ V/m
Nr.6	2.500000 GHz	56.63 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

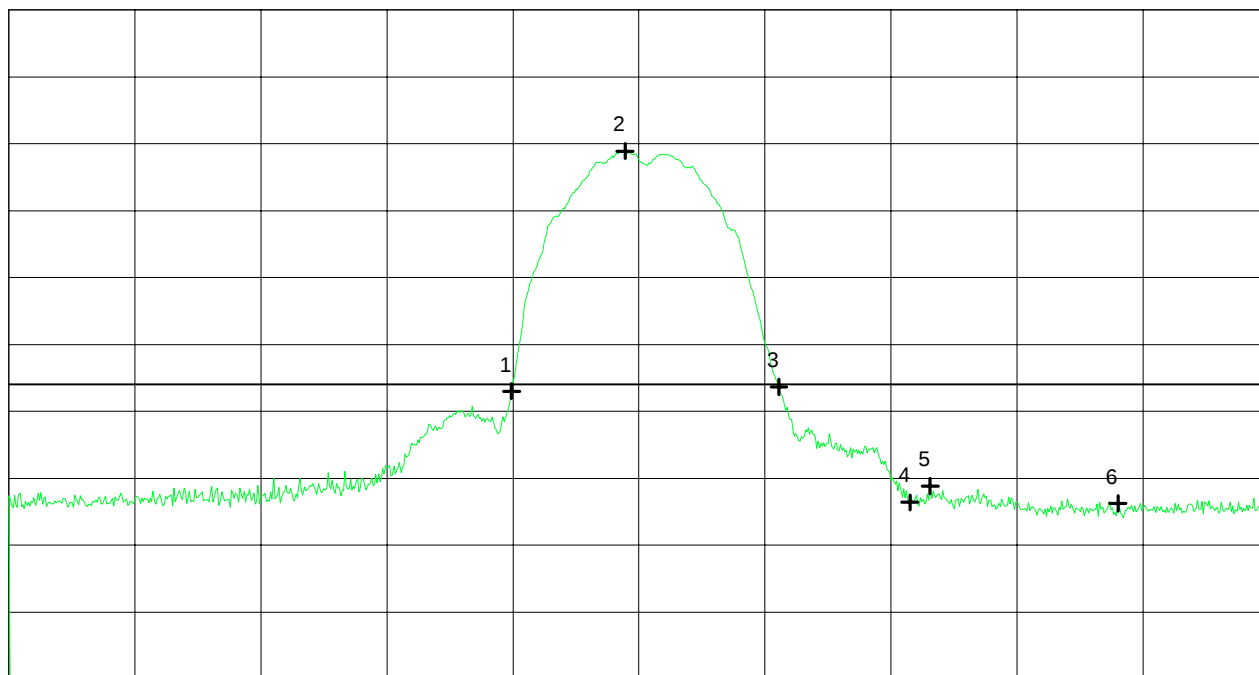
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 130 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.512 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.451889 GHz	73.00 dB μ V/m
Nr.2	2.460889 GHz	108.91 dB μ V/m
Nr.3	2.473111 GHz	73.66 dB μ V/m
Nr.4	2.483500 GHz	56.40 dB μ V/m
Nr.5	2.485111 GHz	58.83 dB μ V/m
Nr.6	2.500000 GHz	56.22 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: LUC PC24E-H-FC
Type: RF-modem for wireless LAN
Serial No.: 99UT11411941
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 12/01/1999
Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 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]
2.4433	vertical	53.6		0.6	20.7	53.6	OB
2.4593	vertical	105.3		0.6	20.7	105.3	OB
2.4810	vertical	53.9		0.6	20.7	53.9	OB
2.4835	vertical	45.6		0.6	20.7	45.6	54
2.4851	vertical	47.1		0.6	20.7	47.1	54
2.5000	vertical	44.3		0.6	20.7	44.3	54
4.9242	vertical	38.8	-95.4		27.3	38.9	54

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.3 dBμV/m.

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

Result: The limits are kept

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

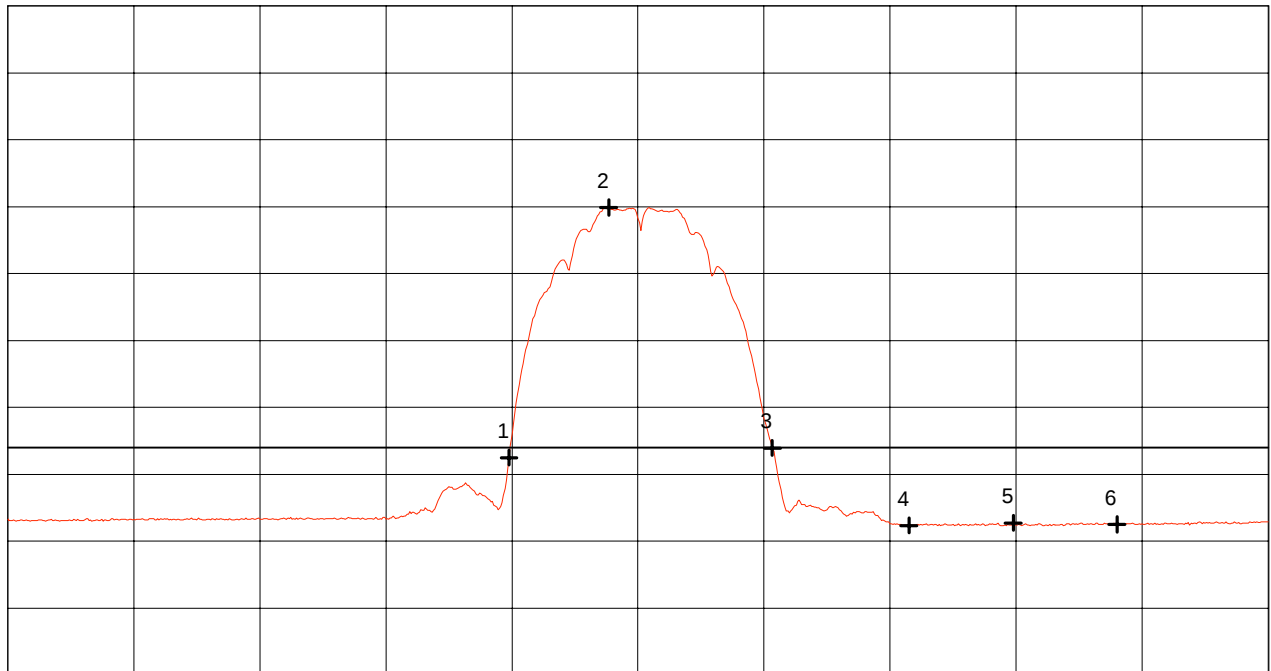
Test distance: 3 meters

Channel A (red) = horizontal polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.512 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.451778 GHz	52.47 dB μ V/m
Nr.2	2.459667 GHz	89.87 dB μ V/m
Nr.3	2.472667 GHz	53.94 dB μ V/m
Nr.4	2.483500 GHz	42.33 dB μ V/m
Nr.5	2.491778 GHz	42.71 dB μ V/m
Nr.6	2.500000 GHz	42.51 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial No.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

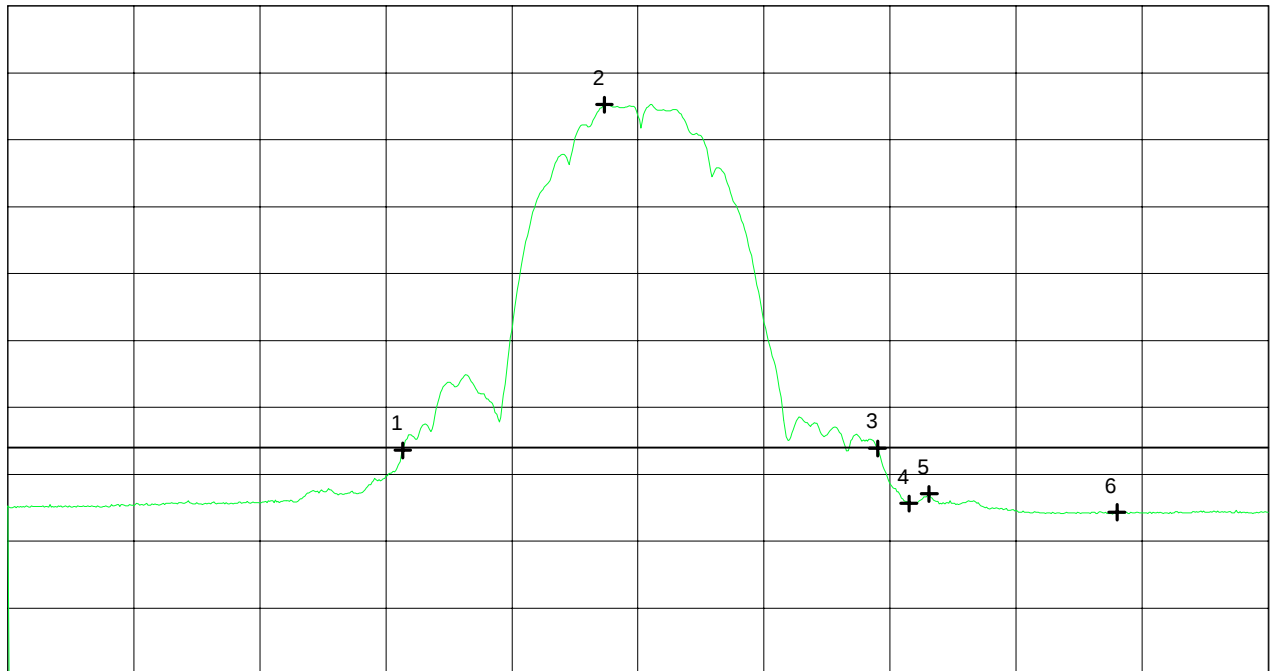
Test distance: 3 meters

Channel B (green) = vertical polarization

Ref.Level 120 dB μ V/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.512 GHz
SWP 300 ms

**** Multi Marker ****

Nr.1	2.443333 GHz	53.58 dB μ V/m
Nr.2	2.459333 GHz	105.25 dB μ V/m
Nr.3	2.481000 GHz	53.86 dB μ V/m
Nr.4	2.483500 GHz	45.63 dB μ V/m
Nr.5	2.485111 GHz	47.05 dB μ V/m
Nr.6	2.500000 GHz	44.31 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
12/01/1999

Project-No.:
56305-90733-1

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Test results for
Receive (RX) mode

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase L1

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

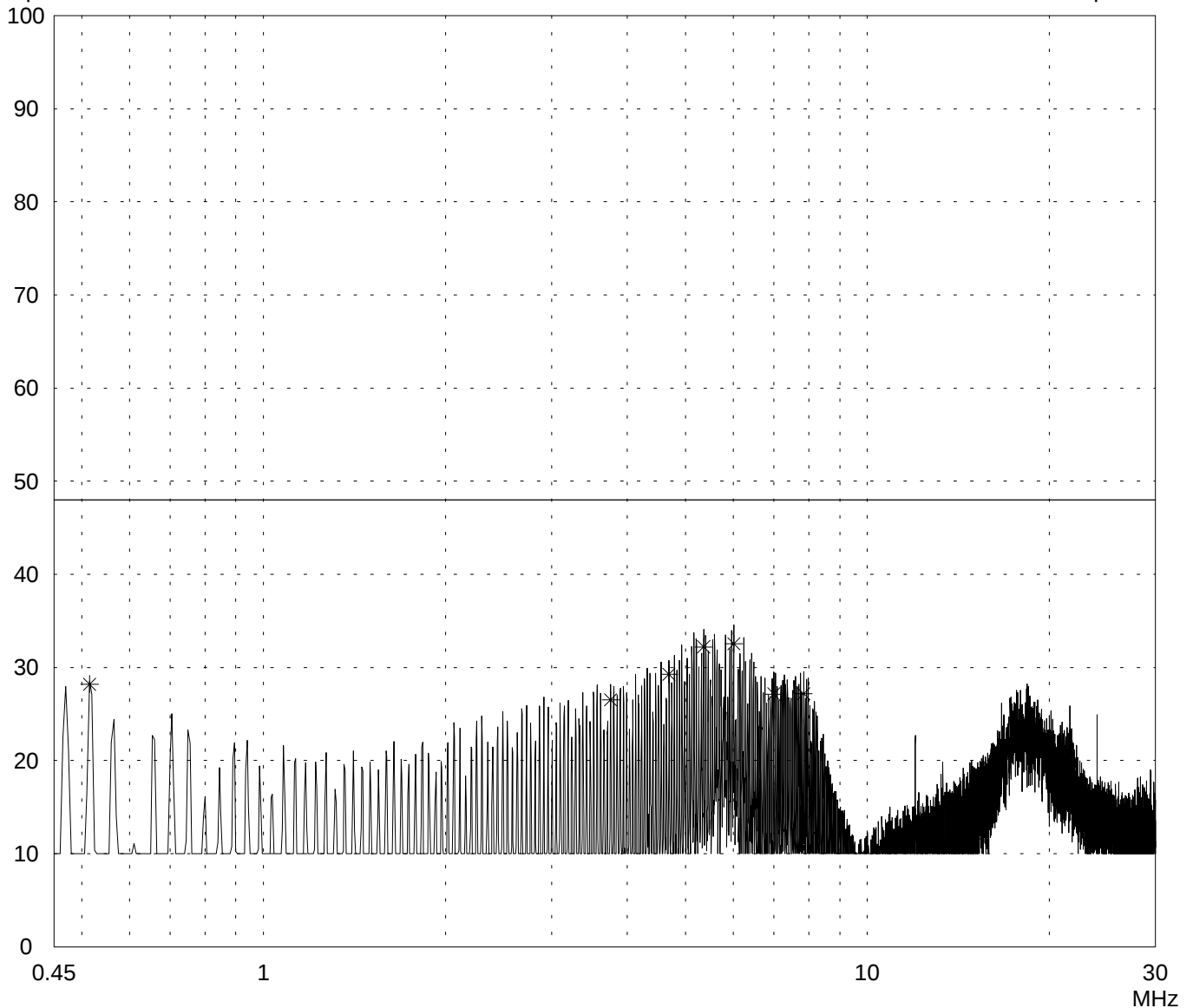
- RX mode with $f = 2.442 \text{ GHz}$

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - RX mode with $f = 2.442$ GHz	
Serial no.: 99UT11411941		
Applicant: Lucent Technologies Nederland B.V.		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord personal computer (EUT) Phase L1		
Date of test: 11/16/1999		Operator: R. Heller
Test performed: automatically		File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.515	28.2		28.2	48.0	
3.760	26.5		26.5	48.0	
4.695	29.3		29.3	48.0	
5.355	32.2		32.2	48.0	
6.010	32.5		32.5	48.0	
7.000	27.1		27.1	48.0	
7.840	27.2		27.2	48.0	
18.410	23.8		23.8	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 149 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

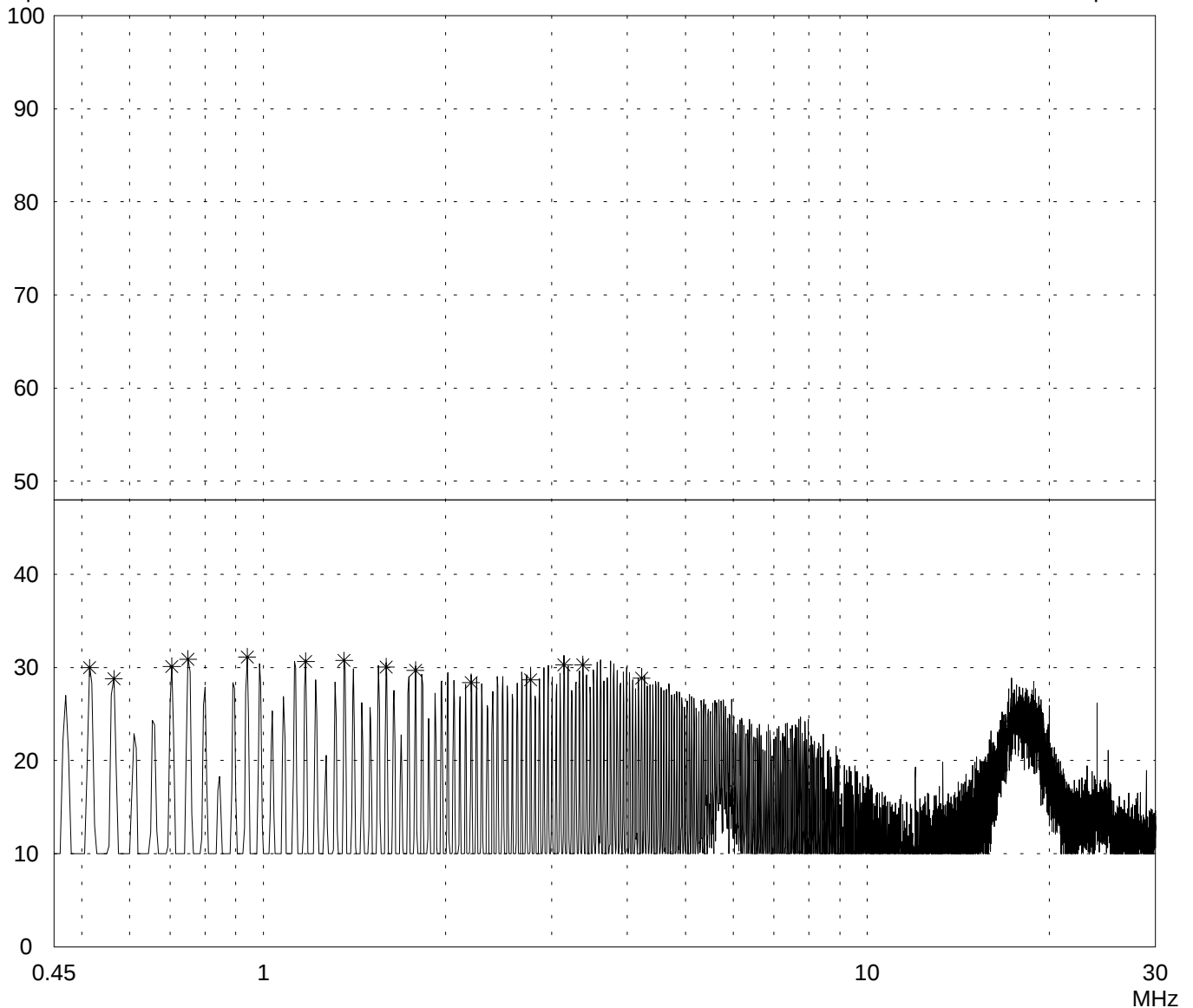
- RX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord personal computer (EUT)
Phase N

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- RX mode with $f = 2.442 \text{ GHz}$

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
0.515	30.0		30.0	48.0	
0.565	28.8		28.8	48.0	
0.705	30.1		30.1	48.0	
0.750	30.9		30.9	48.0	
0.940	31.1		31.1	48.0	
1.175	30.7		30.7	48.0	
1.360	30.7		30.7	48.0	
1.595	30.1		30.1	48.0	
1.785	29.7		29.7	48.0	
2.205	28.4		28.4	48.0	
2.770	28.7		28.7	48.0	
3.145	30.3		30.3	48.0	
3.380	30.3		30.3	48.0	
4.225	28.9		28.9	48.0	
17.330	23.7		23.7	48.0	
18.875	25.0		25.0	48.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase L1

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

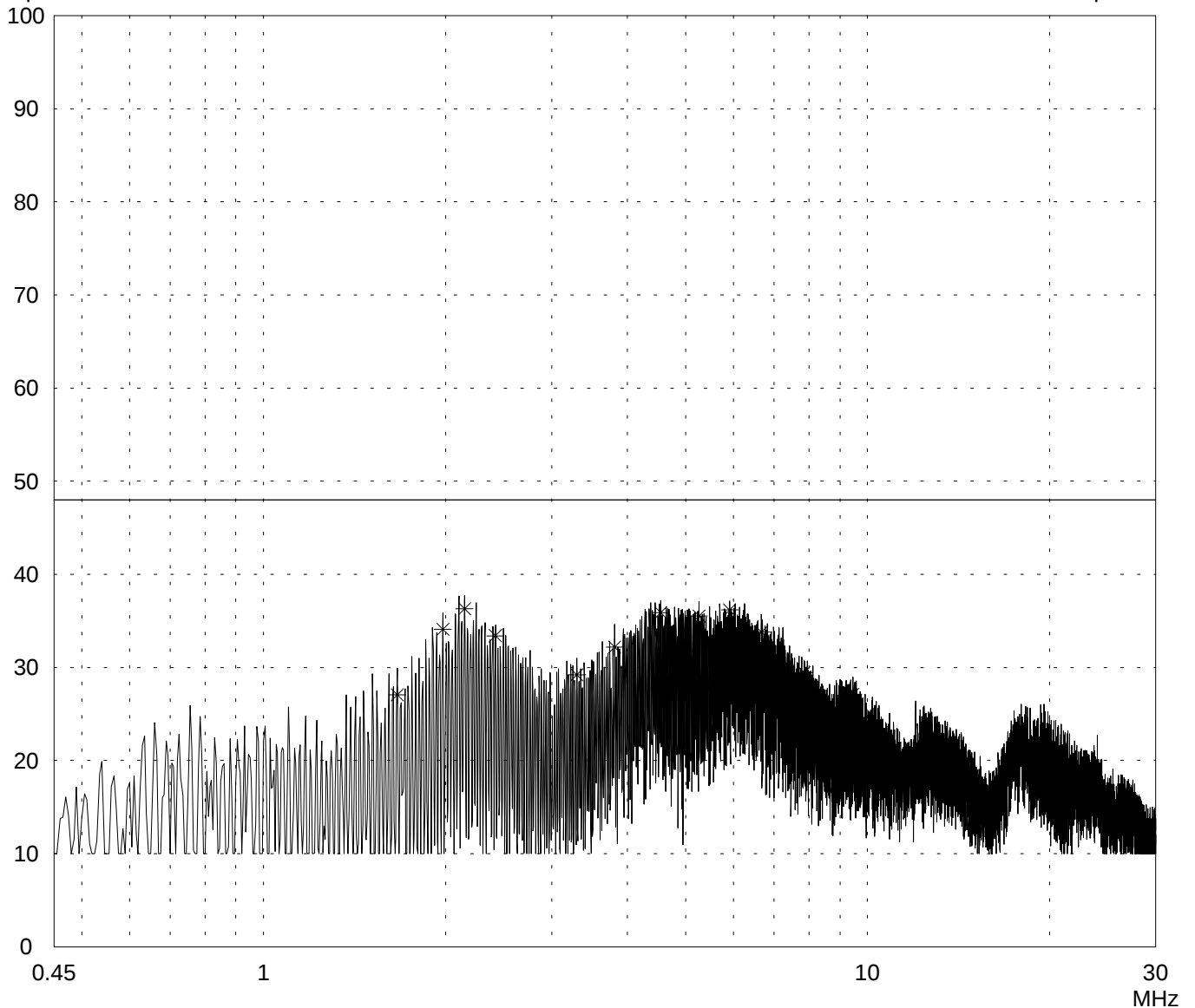
- RX mode with $f = 2.442 \text{ GHz}$

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - RX mode with f = 2.442 GHz
Serial no.: 99UT11411941	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord peripheral devices Phase L1	
Date of test: 11/16/1999	Operator: R. Heller
Test performed: automatically	File name:

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

<i>Frequency MHz</i>	<i>Reading dBμV</i>	<i>Correction factor dB</i>	<i>Value dBμV</i>	<i>Limit dBμV</i>	<i>Limit exceeded</i>
1.665	27.0		27.0	48.0	
1.980	34.1		34.1	48.0	
2.150	36.3		36.3	48.0	
2.420	33.4		33.4	48.0	
3.300	29.2		29.2	48.0	
3.815	32.2		32.2	48.0	
4.545	35.9		35.9	48.0	
5.255	35.5		35.5	48.0	
5.915	36.2		36.2	48.0	
6.675	33.8		33.8	48.0	
7.850	29.4		29.4	48.0	
9.460	27.1		27.1	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 153 of 165 Pages
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Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord peripheral devices
Phase N

Date of test: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

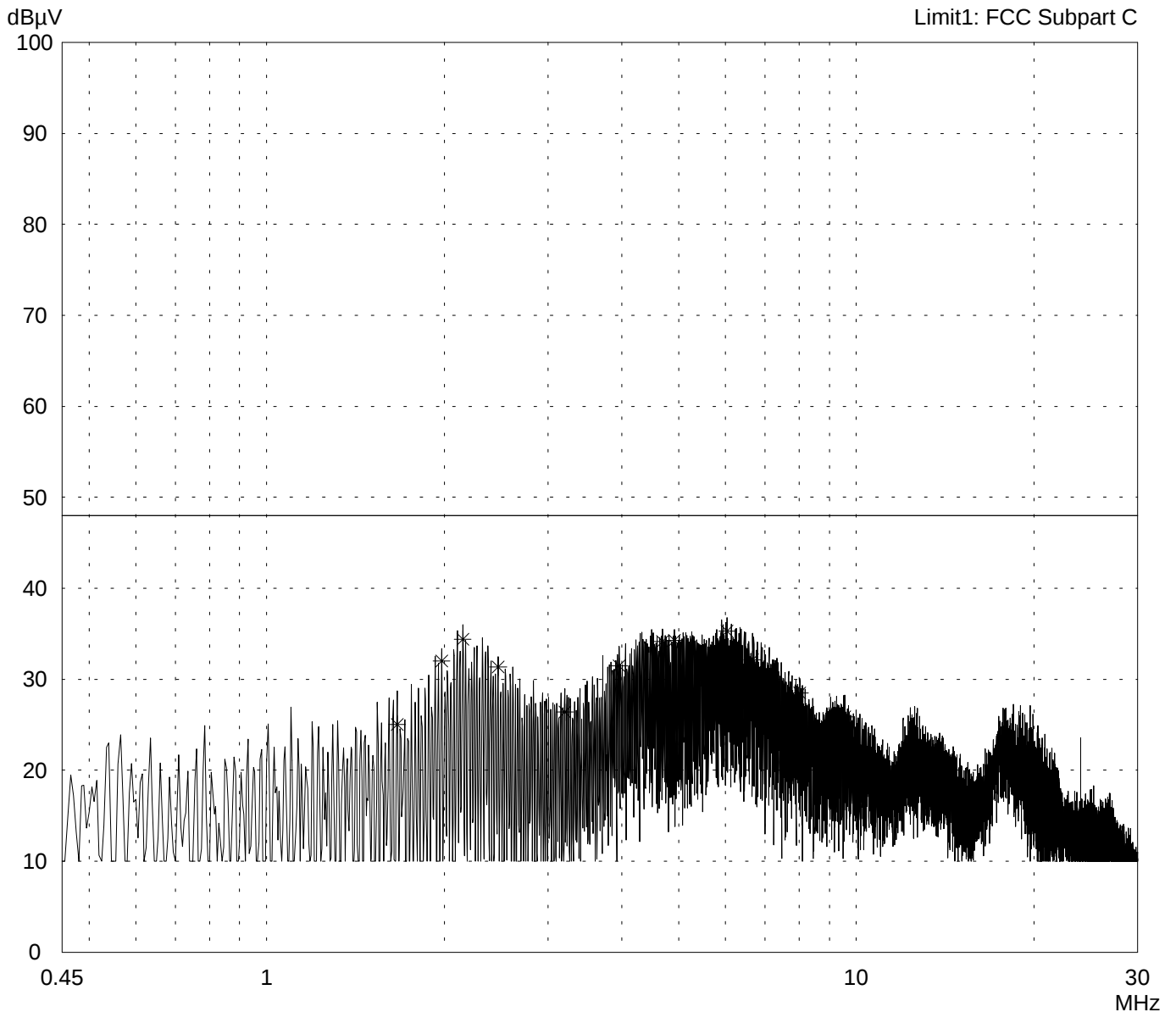
Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- RX mode with $f = 2.442 \text{ GHz}$

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC	Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23) - FCC test setup - supply voltage 115 V AC - with external antenna AOU24-OD-10 - with 20 ft antenna cable (LMR400) - RX mode with f = 2.442 GHz
Serial no.: 99UT11411941	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord peripheral devices Phase N	
Date of test: 11/16/1999	
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>
1.665	25.0		25.0	48.0	
1.980	32.0		32.0	48.0	
2.150	34.4		34.4	48.0	
2.470	31.3		31.3	48.0	
3.205	26.4		26.4	48.0	
3.960	31.4		31.4	48.0	
4.695	34.2		34.2	48.0	
4.915	34.3		34.3	48.0	
6.040	35.3		35.3	48.0	
6.670	32.2		32.2	48.0	
8.020	28.5		28.5	48.0	
9.560	25.9		25.9	48.0	

Result: Limit kept	Project file: 56305-90733-1	Page 155 of 165 Pages
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Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart C

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

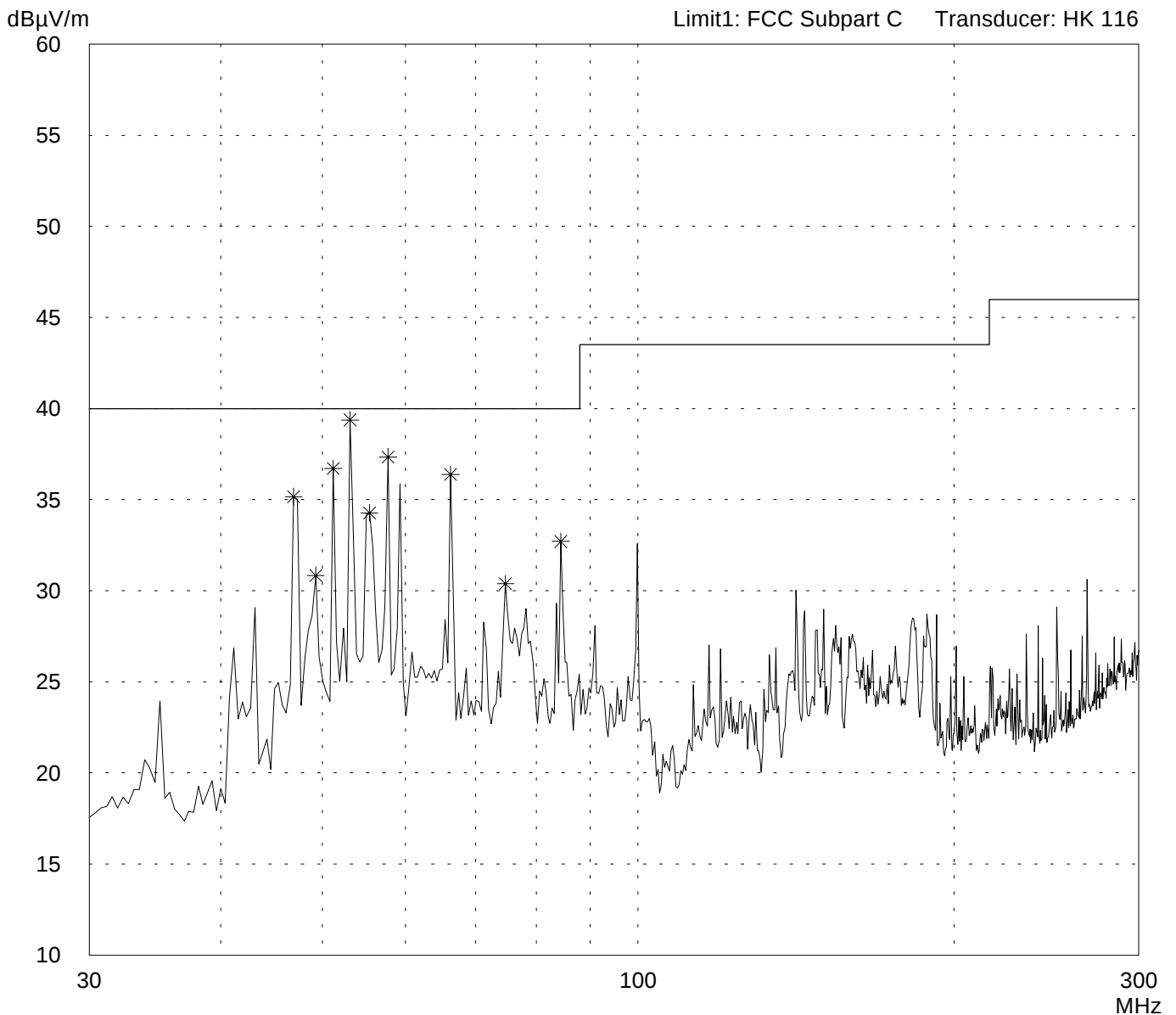
Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

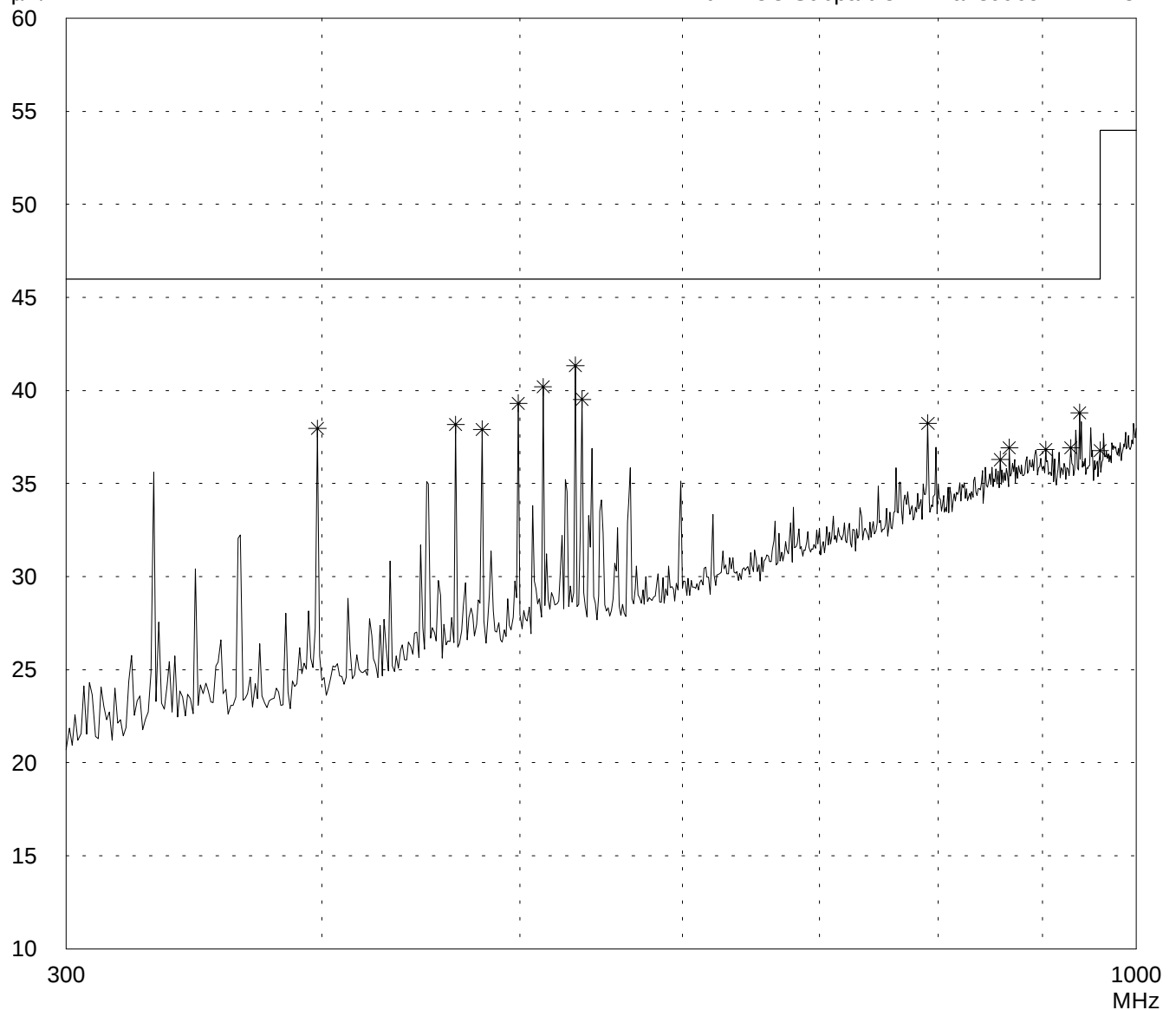
- RX mode with $f = 2.442$ GHz

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:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

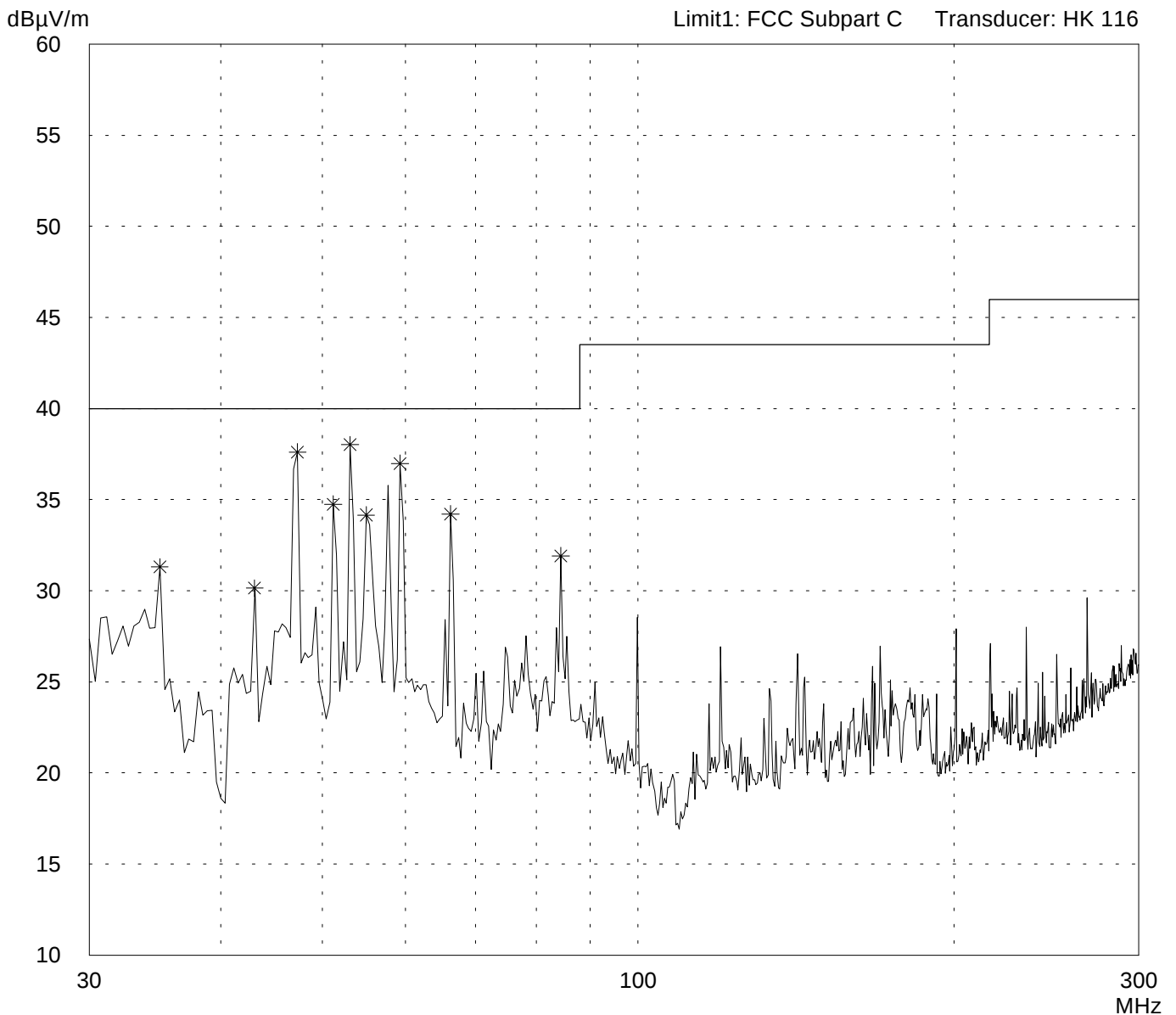
Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

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: 11/16/1999 Operator: R. Heller

Test performed: automatically File name:

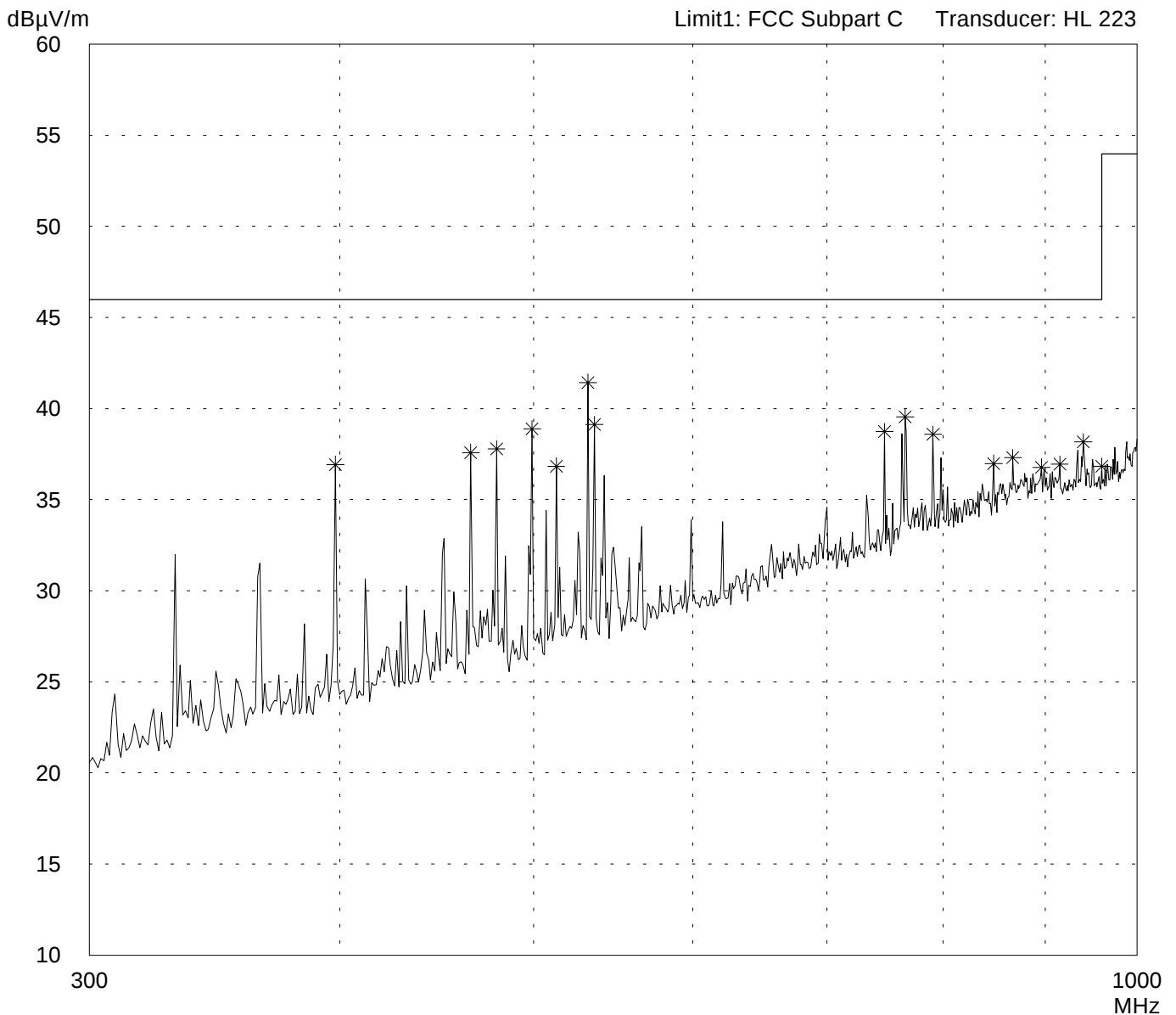
Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- RX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 11/30/1999 Operator: R. Heller

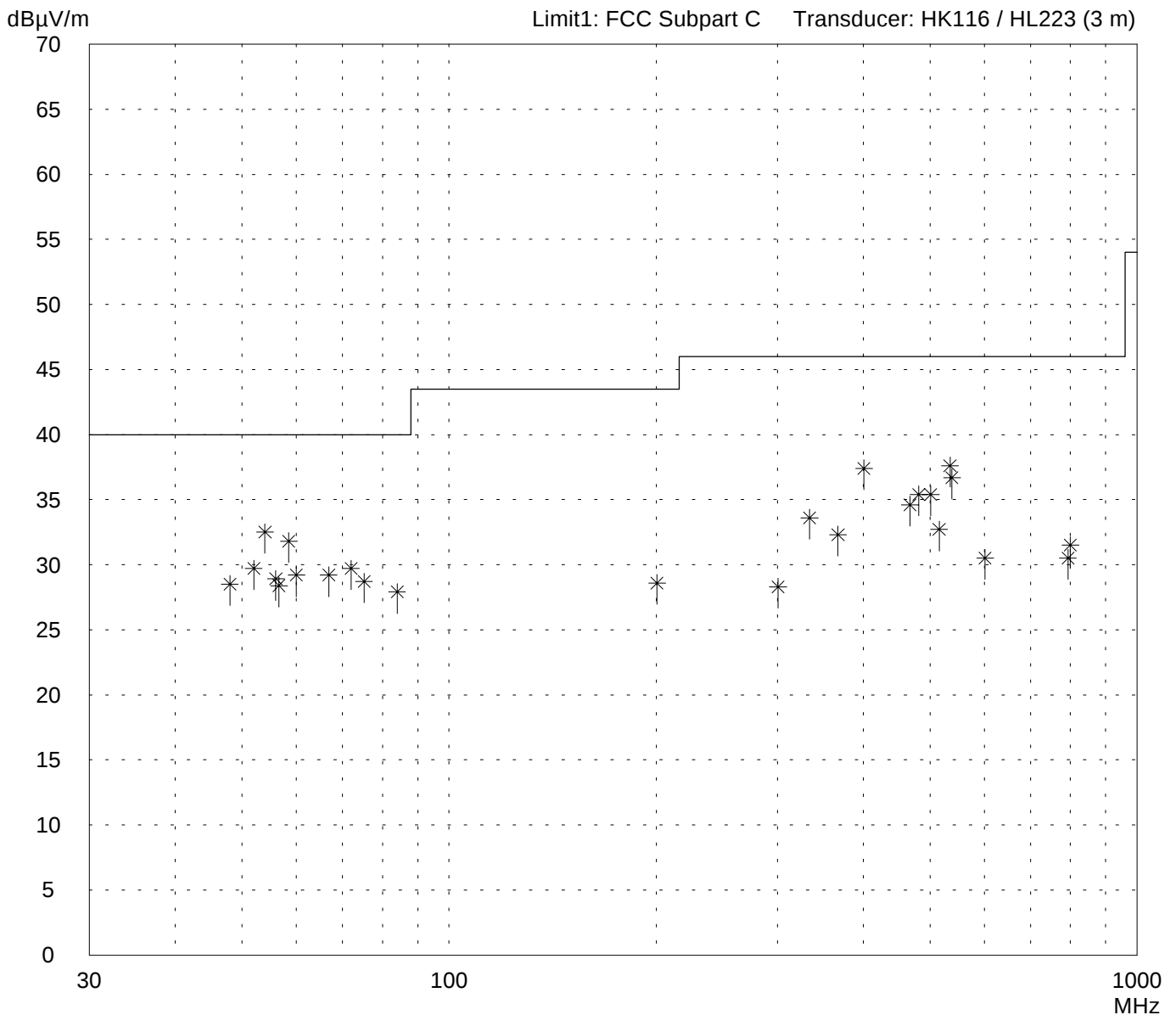
Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)
-
- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 11/30/1999 Operator: R. Heller

Test performed: by hand File name:

Mode:
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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
48.0	17.5	11.0	28.5	40.0	
52.0	19.0	10.7	29.7	40.0	
54.0	22.0	10.5	32.5	40.0	
56.0	18.5	10.4	28.9	40.0	
56.6	18.0	10.4	28.4	40.0	
58.5	21.5	10.3	31.8	40.0	
60.0	19.0	10.2	29.2	40.0	
66.8	19.0	10.2	29.2	40.0	
72.0	19.5	10.2	29.7	40.0	
75.2	18.5	10.2	28.7	40.0	
84.0	17.5	10.4	27.9	40.0	
200.5	11.5	17.1	28.6	43.5	
300.7	11.5	16.8	28.3	46.0	
334.1	15.5	18.1	33.6	46.0	
367.5	13.0	19.3	32.3	46.0	
400.9	17.0	20.4	37.4	46.0	
467.7	12.5	22.1	34.6	46.0	
481.5	13.0	22.4	35.4	46.0	
501.2	12.5	22.9	35.4	46.0	
515.5	9.5	23.2	32.7	46.0	
534.6	14.0	23.6	37.6	46.0	
538.1	13.0	23.7	36.7	46.0	
601.4	5.5	25.0	30.5	46.0	
793.0	2.0	28.5	30.5	46.0	
800.0	3.0	28.5	31.5	46.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 11/30/1999
Operator: R. Heller

Test performed: by hand
File name:

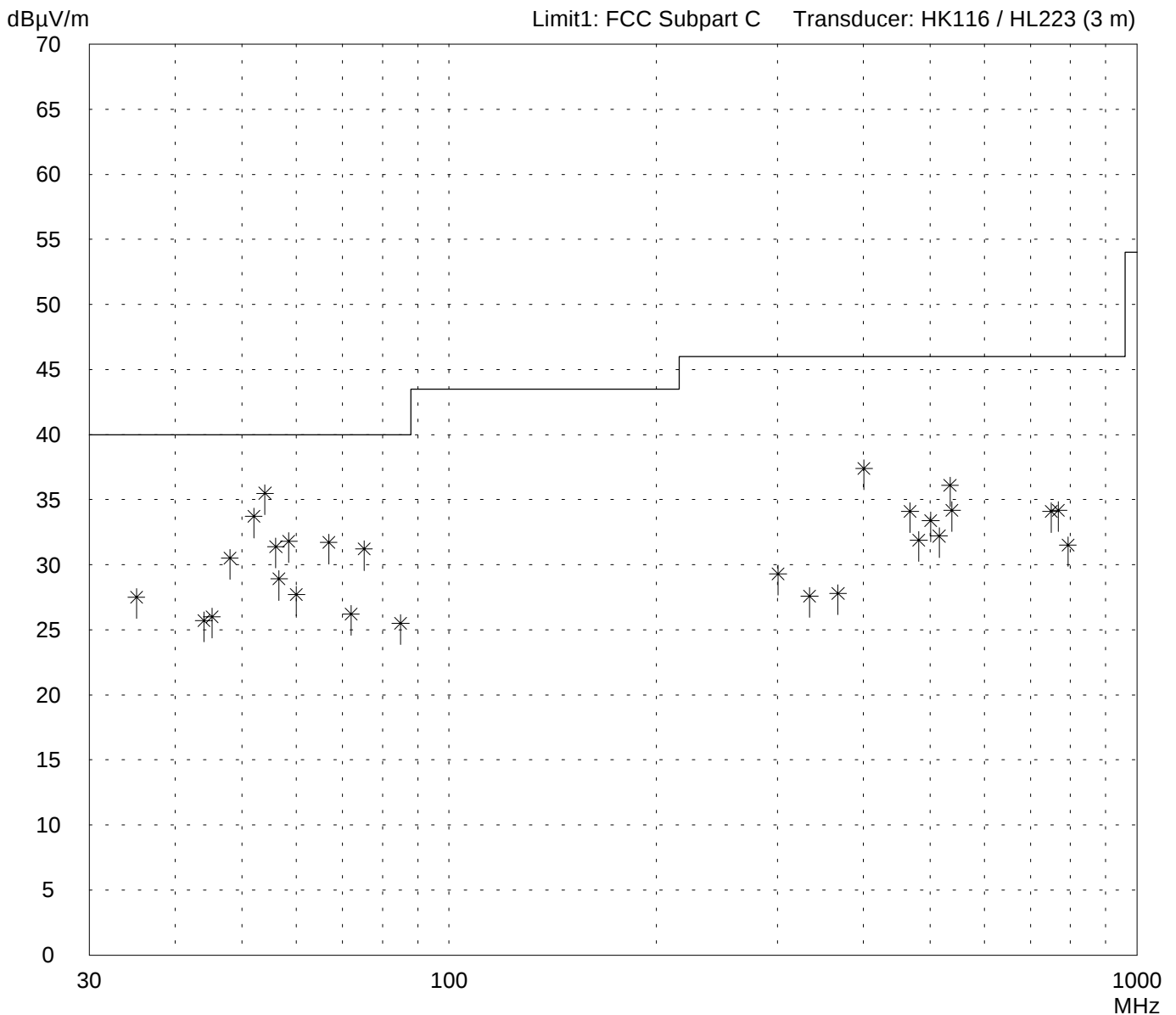
Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- RX mode with $f = 2.442$ GHz

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56305-90733-1

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

Model:
LUC PC24E-H-FC

Serial no.:
99UT11411941

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 11/30/1999 Operator:
R. Heller

Test performed: by hand File name:

Mode:

- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-OD-10
- with 20 ft antenna cable (LMR400)

- 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>
35.1	14.0	13.5	27.5	40.0	
44.0	14.0	11.7	25.7	40.0	
45.2	14.5	11.5	26.0	40.0	
48.0	19.5	11.0	30.5	40.0	
52.0	23.0	10.7	33.7	40.0	
54.0	25.0	10.5	35.5	40.0	
56.0	21.0	10.4	31.4	40.0	
56.6	18.5	10.4	28.9	40.0	
58.5	21.5	10.3	31.8	40.0	
60.0	17.5	10.2	27.7	40.0	
66.8	21.5	10.2	31.7	40.0	
72.0	16.0	10.2	26.2	40.0	
75.2	21.0	10.2	31.2	40.0	
85.0	15.0	10.5	25.5	40.0	
300.7	12.5	16.8	29.3	46.0	
334.1	9.5	18.1	27.6	46.0	
367.5	8.5	19.3	27.8	46.0	
400.9	17.0	20.4	37.4	46.0	
467.7	12.0	22.1	34.1	46.0	
481.5	9.5	22.4	31.9	46.0	
501.2	10.5	22.9	33.4	46.0	
515.5	9.0	23.2	32.2	46.0	
534.6	12.5	23.6	36.1	46.0	
538.1	10.5	23.7	34.2	46.0	
750.0	6.0	28.1	34.1	46.0	
768.5	6.0	28.2	34.2	46.0	
793.0	3.0	28.5	31.5	46.0	

Result:
Limit kept

Project file:
56305-90733-1

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

Model: LUC PC24E-H-FC
 Type: RF-modem for wireless LAN
 Serial No.: 99UT11411941
 Applicant: Lucent Technologies Nederland B.V.
 Test-site: Semi anechoic room
 Test distance: 3 meters
 Date of test: 12/01/1999
 Operator: R. Heller

Mode: - RF-modem PC24E-H-FC mounted in AT & T Globalyst 550
 via ISA card ISAPC-B0 (#B2-23)
 - FCC test setup
 - supply voltage 115 V AC
 - with external antenna AOU24-OD-10
 - with 20 ft antenna cable (LMR400)

 - 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]
8.3680	vertical	41.6	-98.3		33.4	42.1	74

Result: The limits are kept

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

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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	Margin of peak levels to average limit > 10 dB						54

Result: The limits are kept