

Straubing, December 15, 1999

TEST-REPORT

No. 56305-90735-1

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

FCC file number:	31040/SIT 1300F2
Industry Canada file number:	IC 3050

3. Summary of Test Results

The tested sample (including accessories) complies with the requirements set forth in the Code of Regulations Part 15 Subpart C, Section §15.247 (intentional radiators)¹ of the Federal Communication Commission (FCC).



Johann Roidt
Technical Manager



Rainer Heller
Test Engineer

¹ Full testing with external antenna AOU24-WA-12-A, radiated emission 1 GHz to 25 GHz with external antenna AOU24-WA-12-B

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 ²
	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.

² 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 either wide-angle antenna AOU24-WA-12-A or AOU24-WA-12-B 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-WA-12-A or AOU24-WA-12-B was mounted on a metal tripod in 1.5 m height (center).

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 antenna (wide-angle)	012742	Sample no. 1	AOU24-WA-12-A (original designation of manufacturer: SPWB4PDGE11N)	Superpass
External antenna (wide-angle)	012742	Sample no. 1	AOU24-WA-12-B (original designation of manufacturer: 2443 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-WA-12-A or AOU24-WA-12-B 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 ³		Antenna cable length	Cable type ⁴	Antenna gain AOU24-WA-12-A or AOU24-WA-12-B [dBi]	Total insertion loss [dB]	Effective antenna gain [dBi]
Std.-N	Rev.-N					
011463	---	20 ft	LMR400	12.0	2.9	9.1
010998	010999	20 ft	LMR200	12.0	4.5	7.5
011000	010317	50 ft	LMR400	12.0	4.5	7.5
011001	011002	75 ft	LMR400	12.0	5.3	6.7

Table 2: Effective gain for external antenna AOU24-WA-12-A or AOU24-WA-12-B and different antenna cables

³ If noted cables are available with standard N or reverse N connectors

⁴ 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-ID⁵: 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

⁵ 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 antennae.

External Antenna							Cable assembly				Total loss (dB)	Total Gain	Remarks
P/N	Designator	Model	Manuf	Manuf P/N	Type	Gain (dBi)	P/N Std-N	Rev-N	Cable Type	Length	1)	(dBi)	
LUCENT													
012742	AOU24-WA-12-A	Wide angle	Superpass	SPWB4PDGE11N	Directional patch	12	011463	na	LMR400	20ft	2.9	9.1	
							010998	010999	LMR200	20ft	4.5	7.5	
							011000	010317	LMR400	50ft	4.5	7.5	
							011001	011002	LMR400	75ft	5.3	6.7	
012742	AOU24-WA-12-B	Wide angle	Telex	2443LT	Directional	12	011463	na	LMR400	20ft	2.9	9.1	
							010998	010999	LMR200	20ft	4.5	7.5	
							011000	010317	LMR400	50ft	4.5	7.5	
							011001	011002	LMR400	75ft	5.3	6.7	
na							010777	010995	Filotex	50cm	0.9		RF IEEE cable
na							010997	010996	na		0.4		Lightning Protector

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).

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

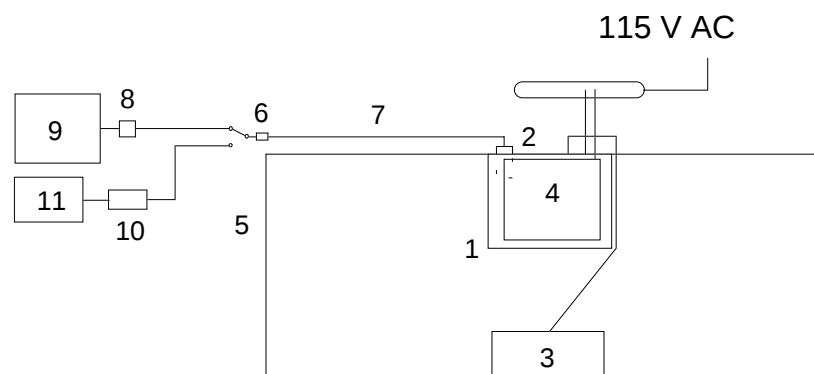


Figure 1: Measurement setup for testing on antenna connector

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

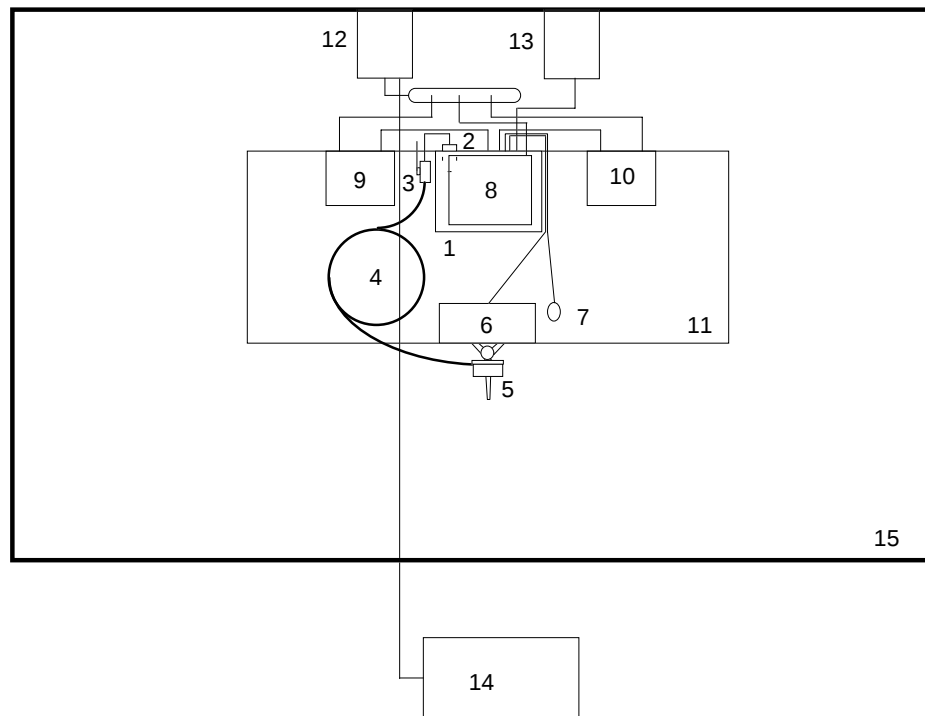


Figure 2: Measurement setup no. 2 for conducted emission test

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

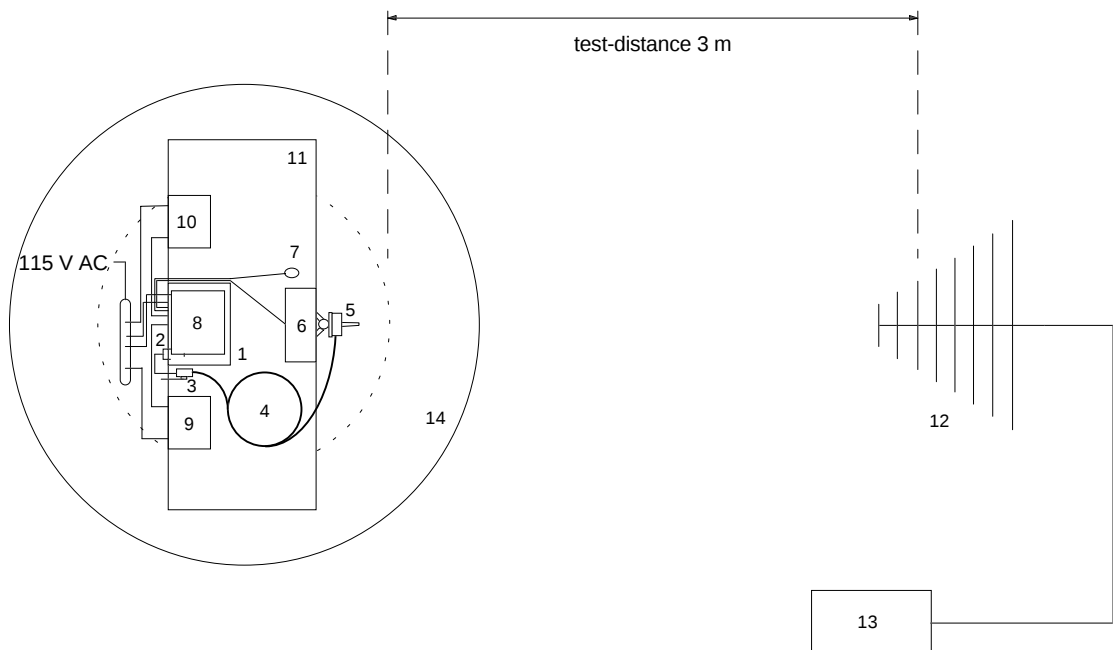


Figure 3: Measurement setup for radiated emission test below 1 GHz

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

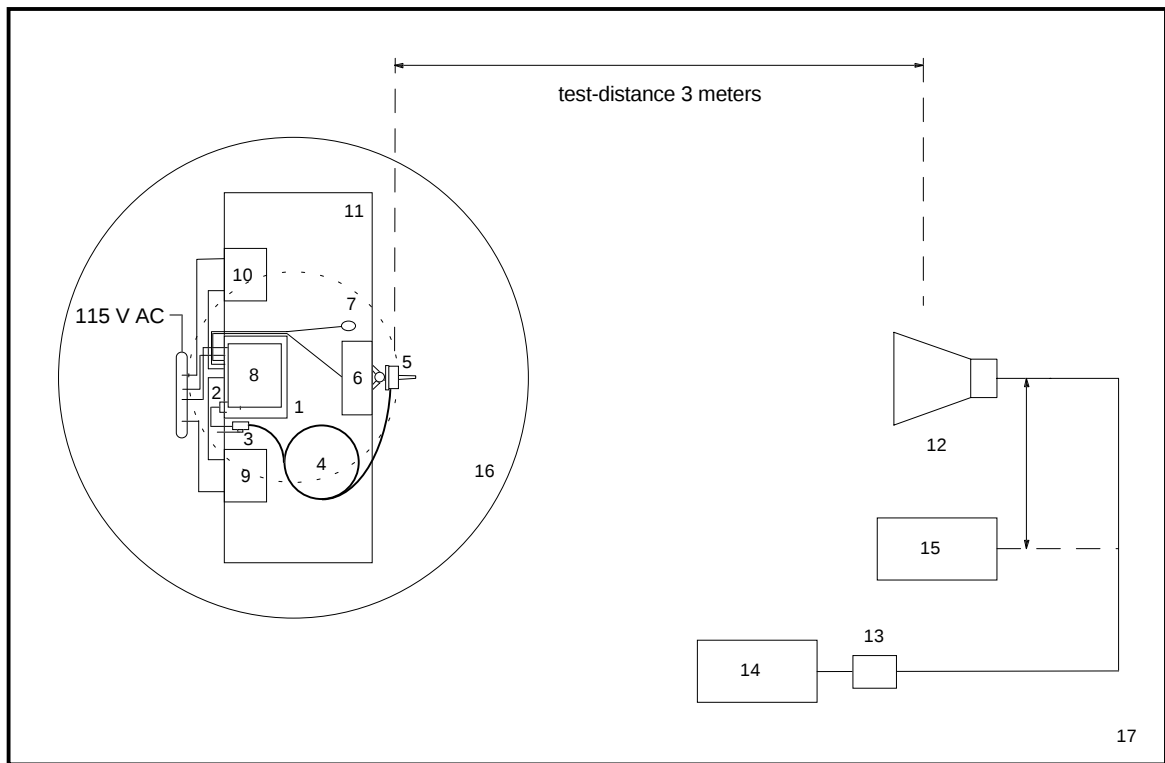


Figure 4: Measurement setup for radiated emission test above 1 GHz

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

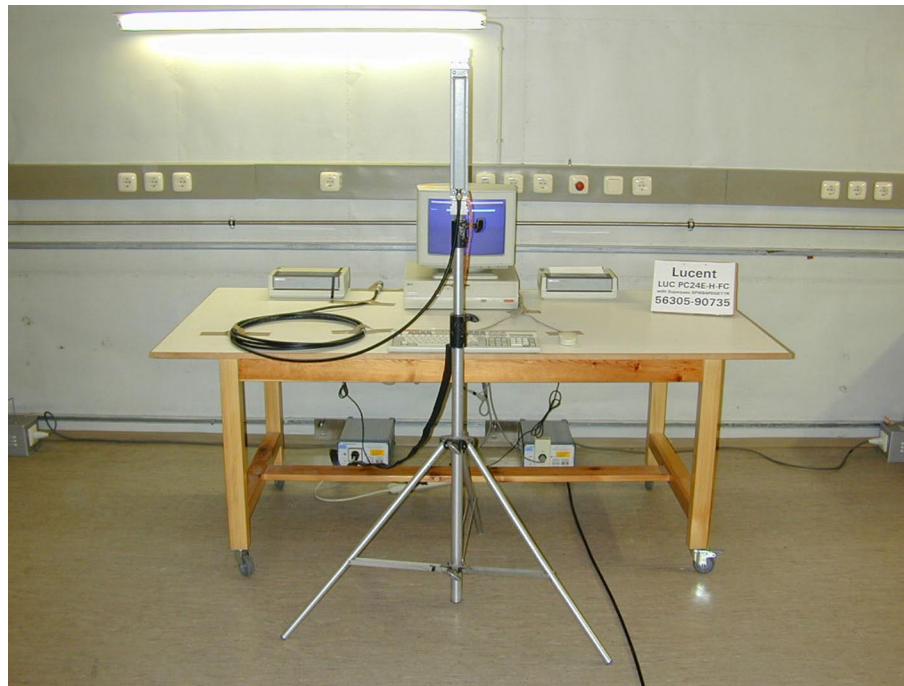
No.	Type	Model	Serial Number	Manufacturer
35	Absorbing Clamp	MDS 21	80911	Lüthi
36	Absorbing Clamp	MDS 21	79690	Lüthi
37	Loop Antenna	HFH2-Z2	882964/1	Rohde & Schwarz
38	Biconical Antenna	HK 116	842204/001	Rohde & Schwarz
39	Biconical Antenna	HK 116	836239/02	Rohde & Schwarz
40	Log. Periodic Antenna	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

10.1. Photographs with AOU24-WA-12-A

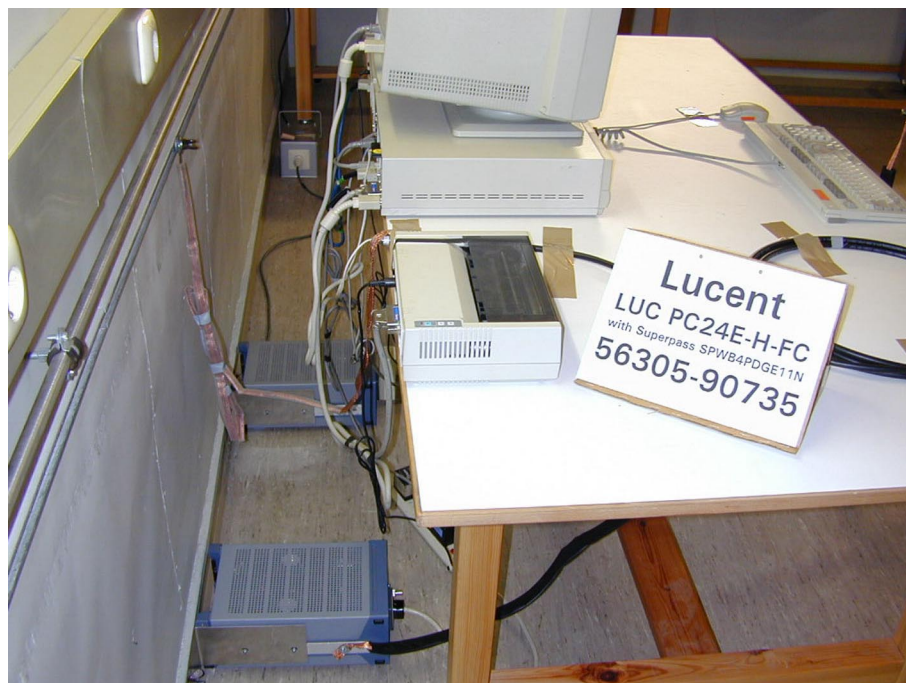
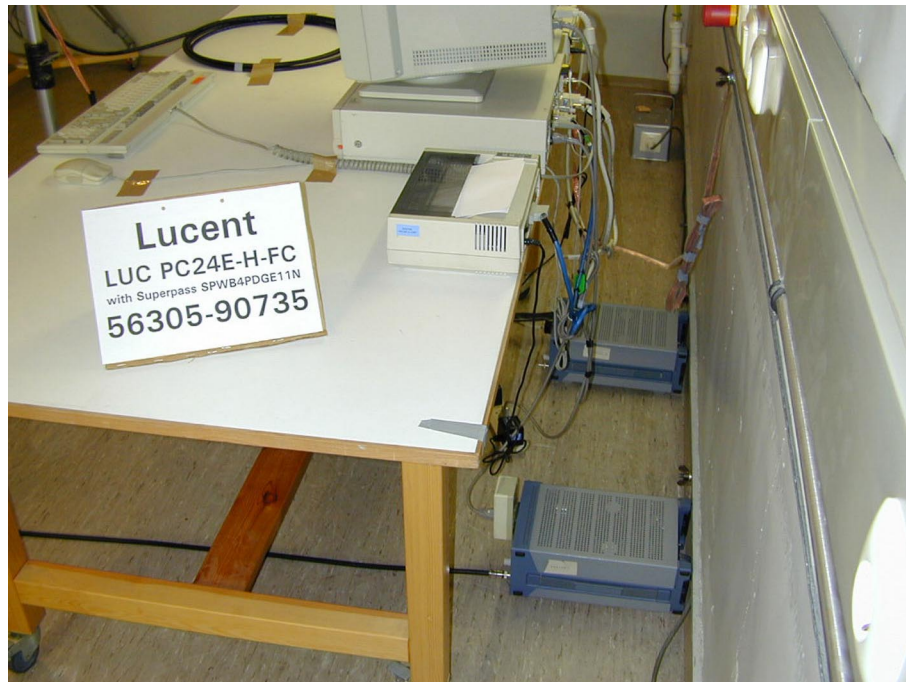
Photo No. 10.1.1

Test setup for conducted emission test 450 kHz - 30 MHz



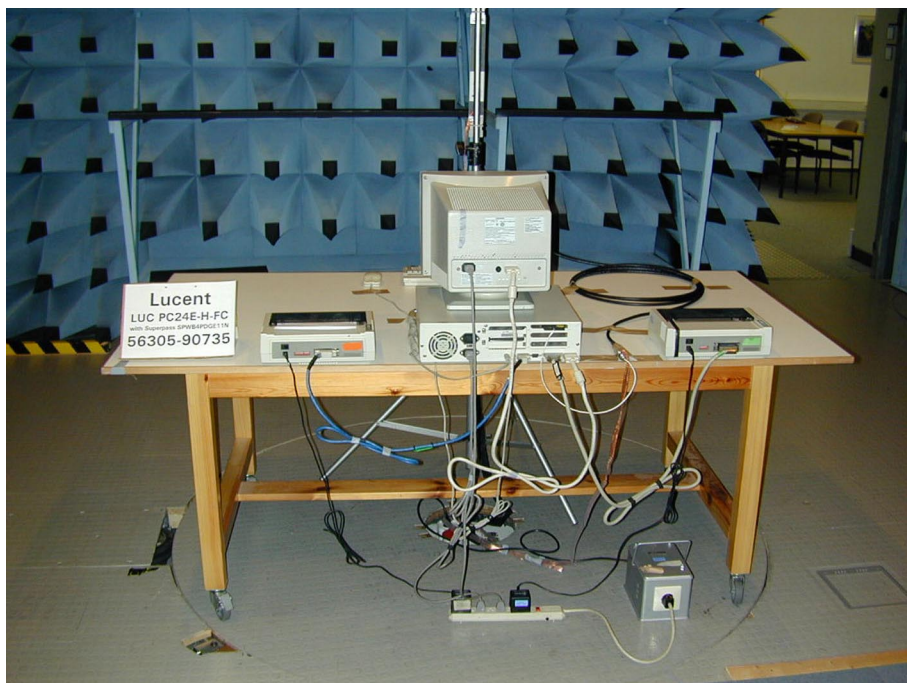
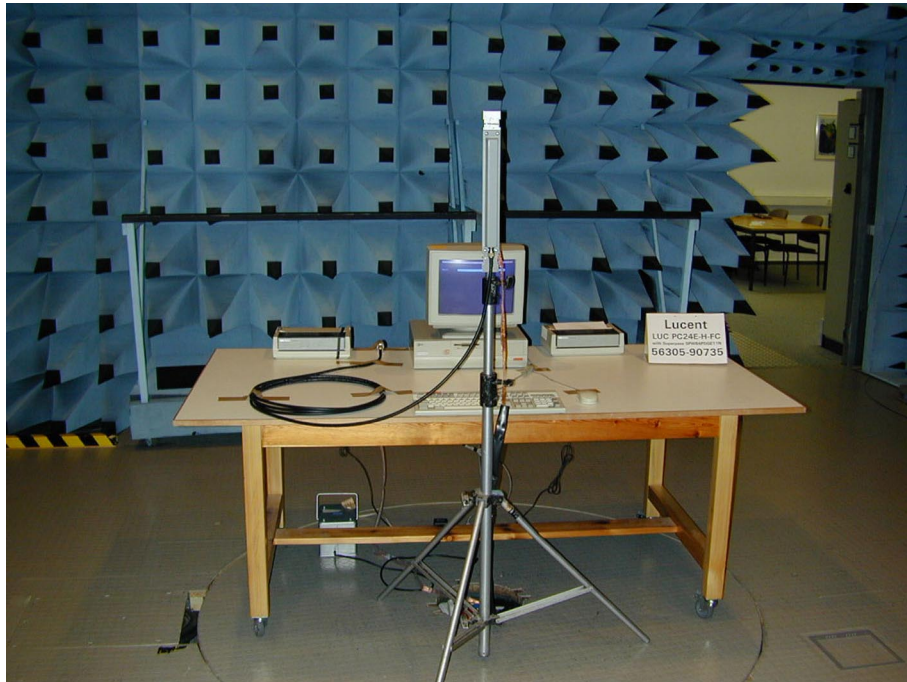
Photos No. 10.1.2 - 10.1.3

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



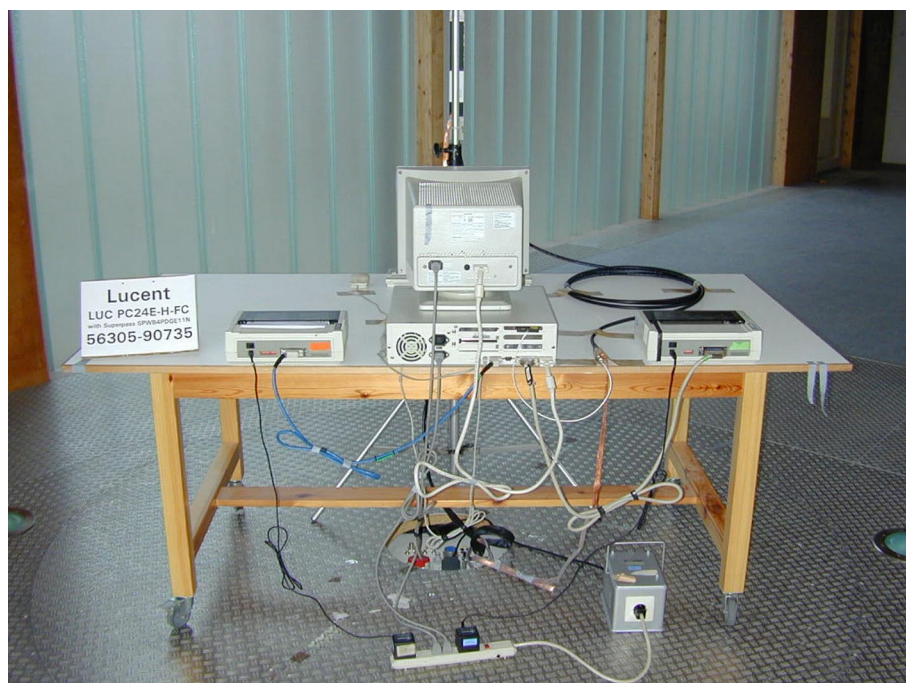
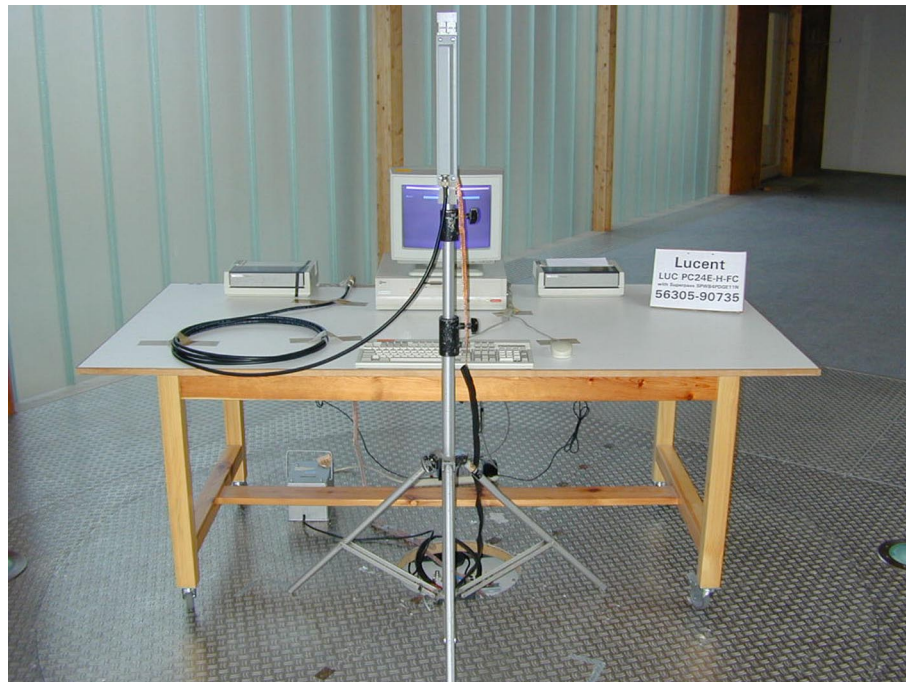
Photos No. 10.1.4 - 10.1.5

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



Photos No. 10.1.6 - 10.1.7

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



10.2. Photographs with AOU24-WA-12-B

Photos No. 10.2.1 - 10.2.2

Test setup for radiated emission test above 1 GHz
(semi anechoic room)



11. List of Measurements

11.1. List of Measurements for AOU24-WA-12-A

FCC Part 15 Subpart C			
Section(s):	Test	Page	Result
	Transmit mode (TX):	37	
§15.247.a2	Minimum 6 dB bandwidth	38	passed
§15.247.b	Maximum peak output power	44	passed
§15.247.d	Peak power density	51	passed
	Frequency range (conducted)	63	for information only
§15.247.e	Processing gain	---	test performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	69	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	93	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	117	passed
	Receive mode (RX):	153	
§15.207	Conducted emission test 450 kHz - 30 MHz	154	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	162	passed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	170	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.

11.2. List of Measurements for AOU24-WA-12-B

FCC Part 15 Subpart C			
Section(s):	Test	Page	Result
	Transmit mode (TX):	173	
§15.247.a2	Minimum 6 dB bandwidth	---	see AOU24-WA-12-A
§15.247.b	Maximum peak output power	---	
§15.247.d	Peak power density	---	
	Frequency range (conducted)	---	
§15.247.e	Processing gain	---	test performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	---	not performed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	174	passed
	Receive mode (RX):	210	
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	---	not performed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	211	passed

Note: 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

12.1. Test Results for AOU24-WA-12-A

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

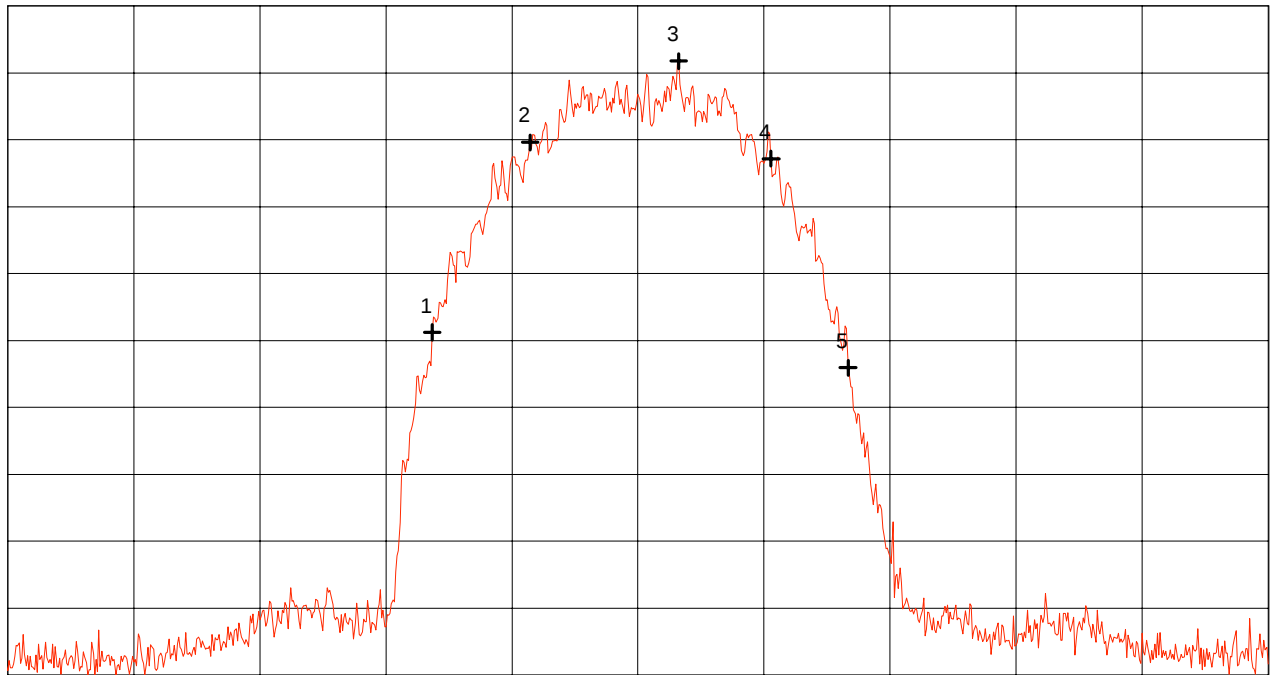
Result: Test passed

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.:
56305-90735-1

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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

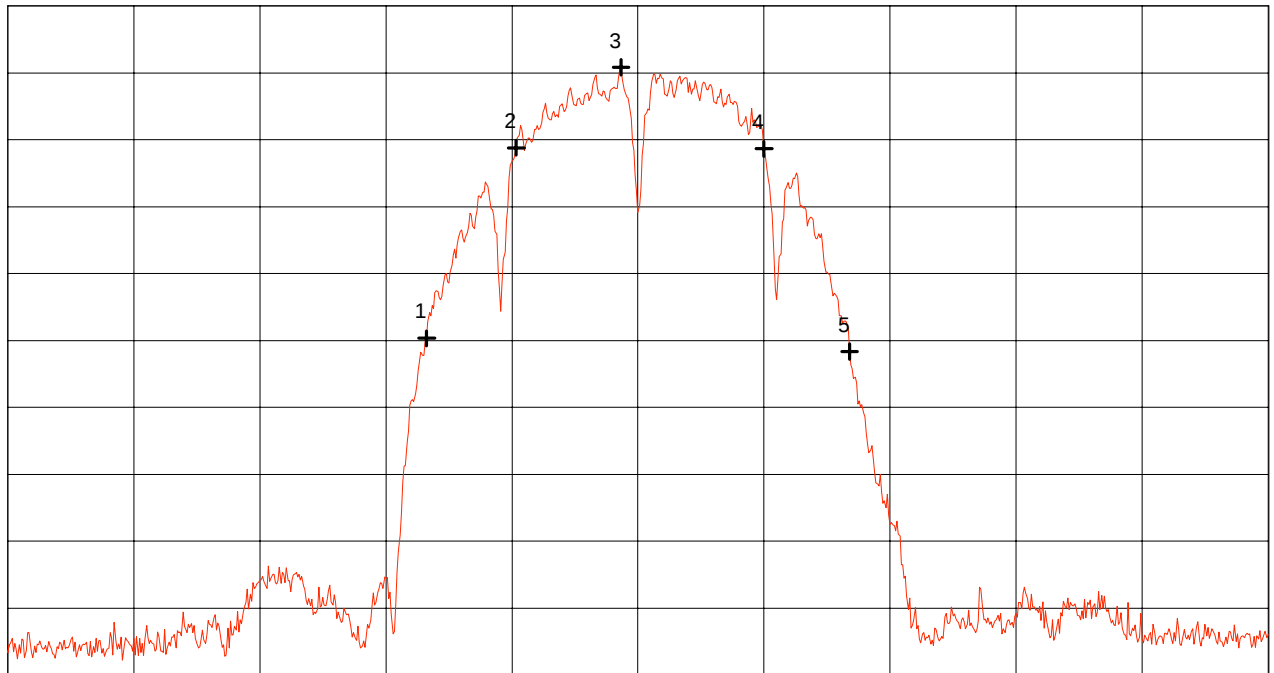
Result: Test passed

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.:
56305-90735-1

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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

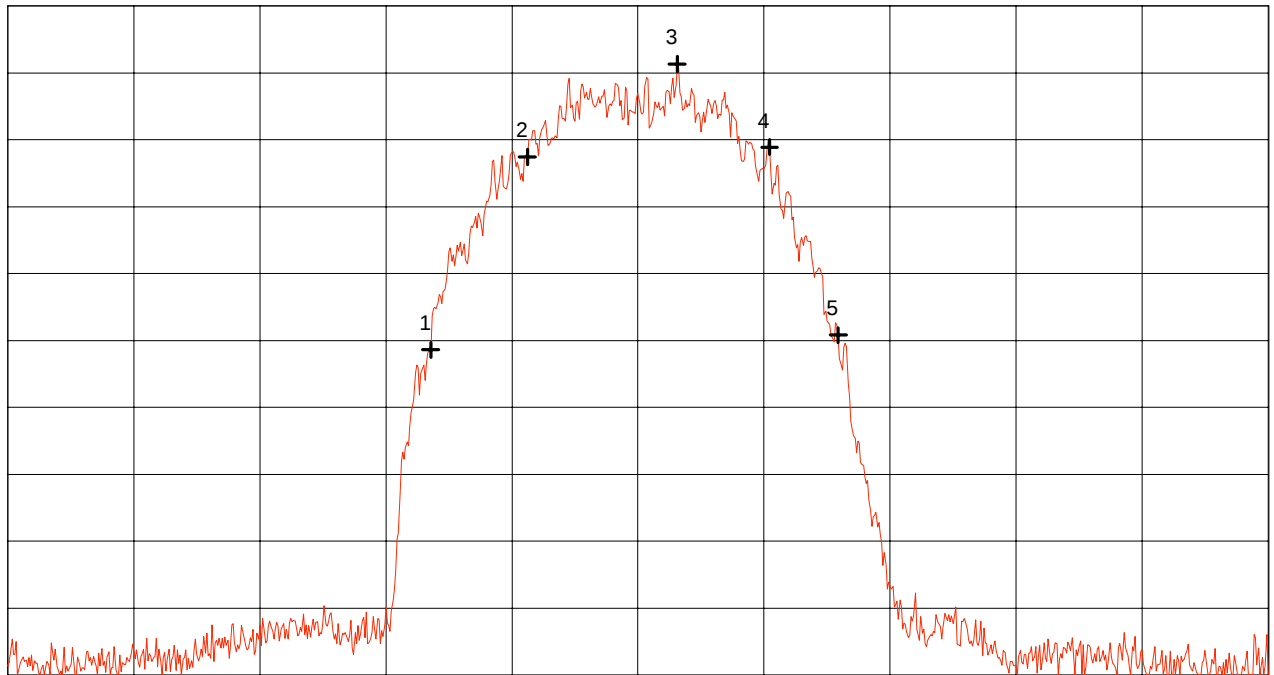
Result: Test passed

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.:
56305-90735-1

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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

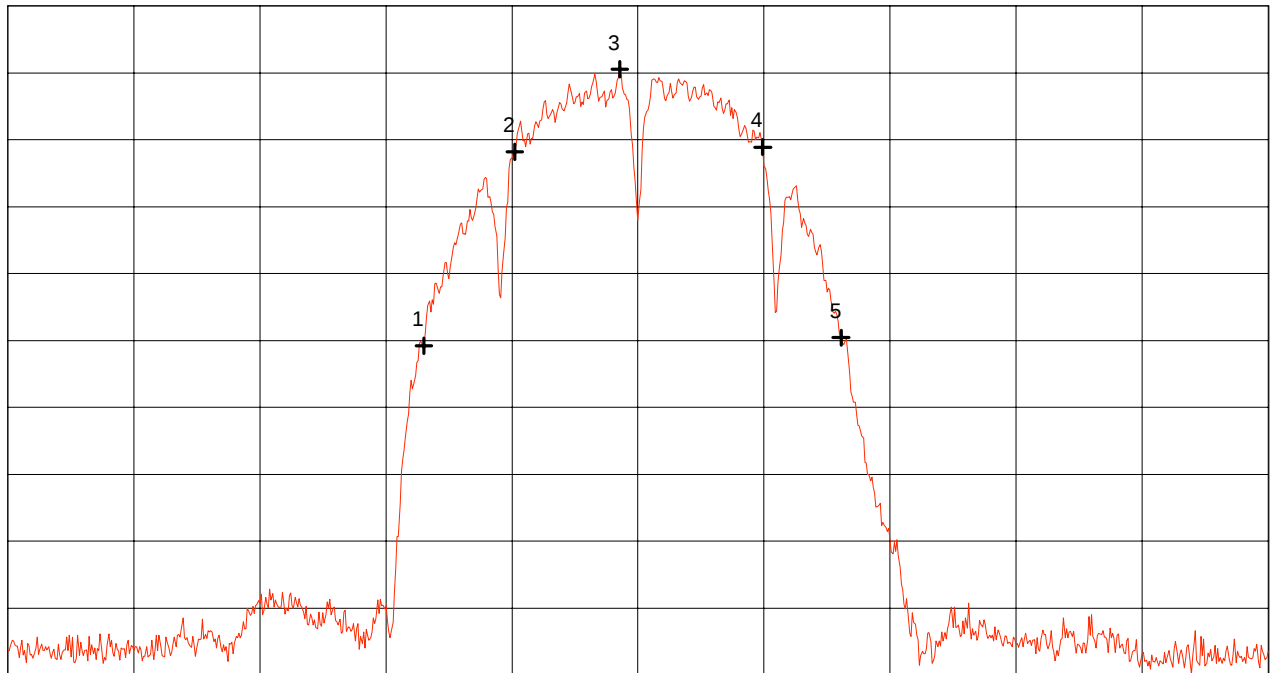
Result: Test passed

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.:
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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

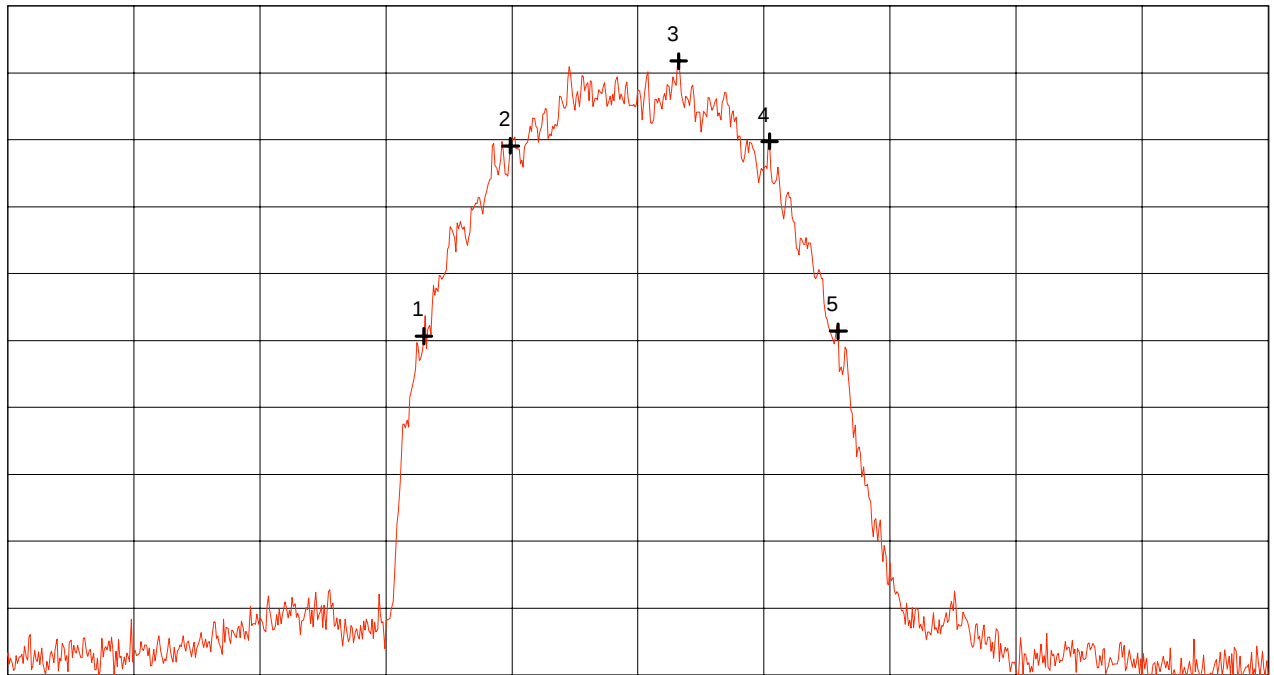
Result: Test passed

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.:
56305-90735-1

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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

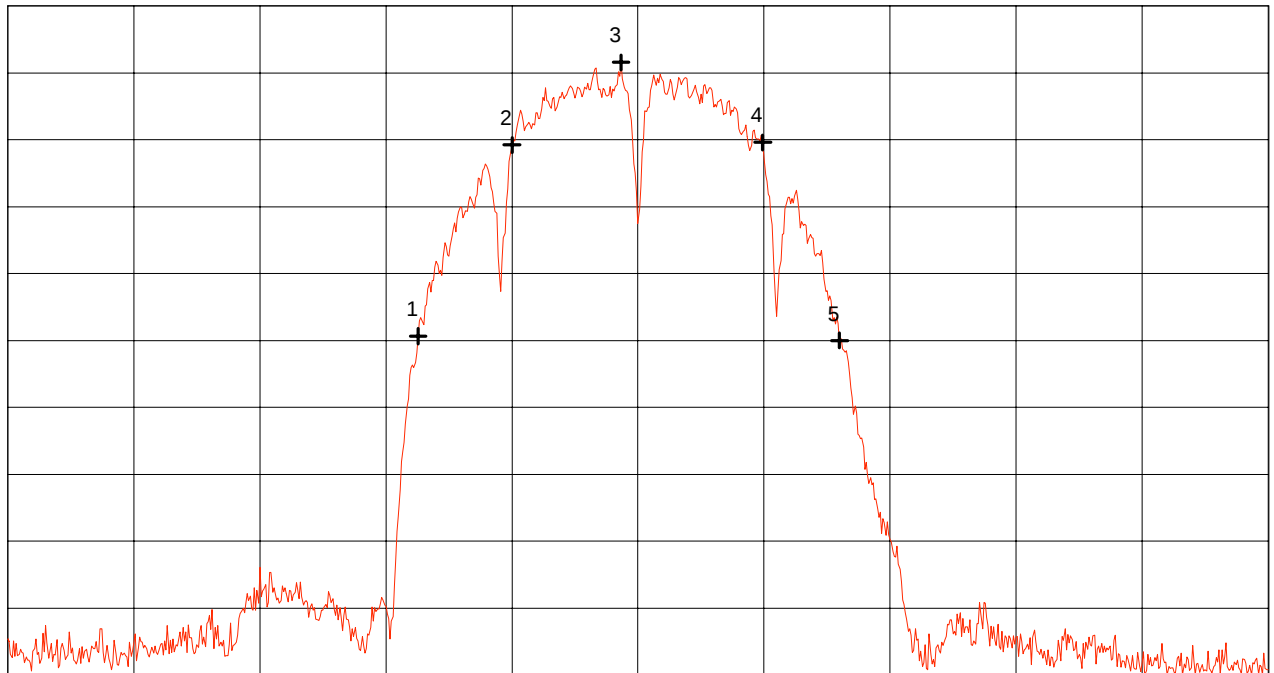
Result: Test passed

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.:
56305-90735-1

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

Model: LUC PC24E-H-FC with AOU24-WA-12-A /-B
 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 wide-angle-antenna AOU24-WA-12-A /-B is 12 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-WA-12-A /-B [dBi]	Total insertion loss [dB]	Effective antenna gain total value [dBi]	exceeding 6 dBi [dB]	Limit [dBm]
20 ft LMR400	12.0	2.9	9.1	3.1	26.9
20 ft LMR200	12.0	4.5	7.5	1.5	28.5
50 ft LMR400	12.0	4.5	7.5	1.5	28.5
75 ft LMR400	12.0	5.3	6.7	0.7	29.3

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:

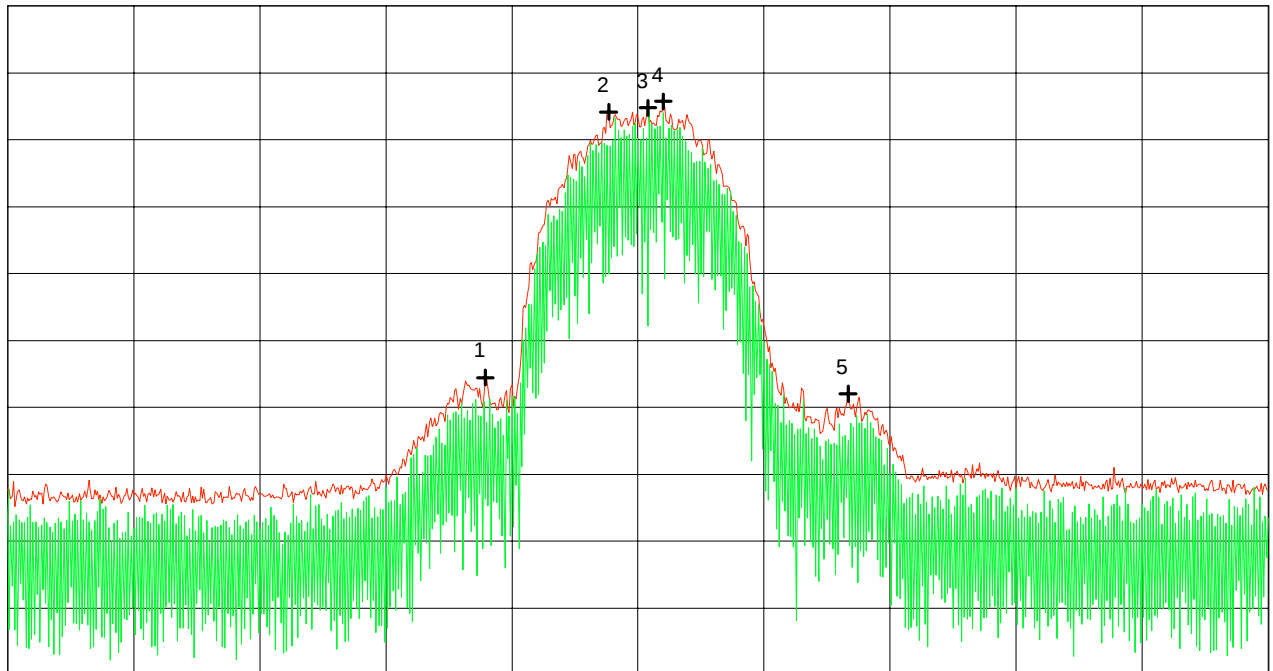
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.412$ GHz

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.:
56305-90735-1

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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:

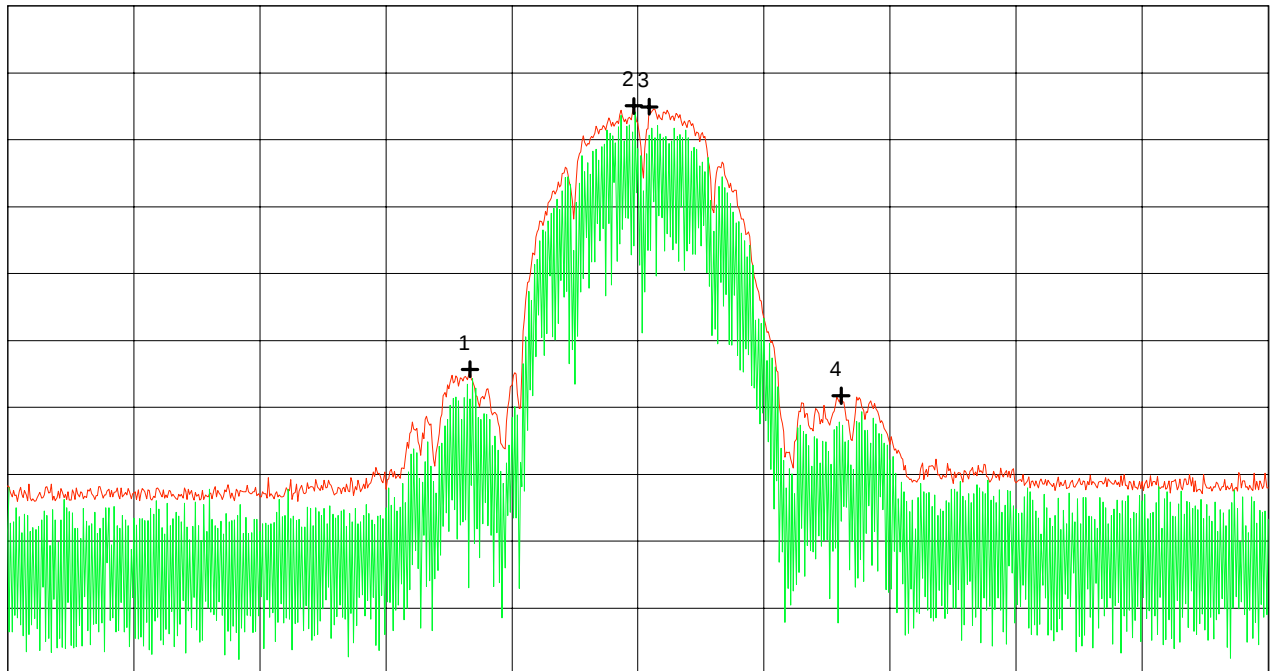
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.412$ GHz

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.:
56305-90735-1

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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:

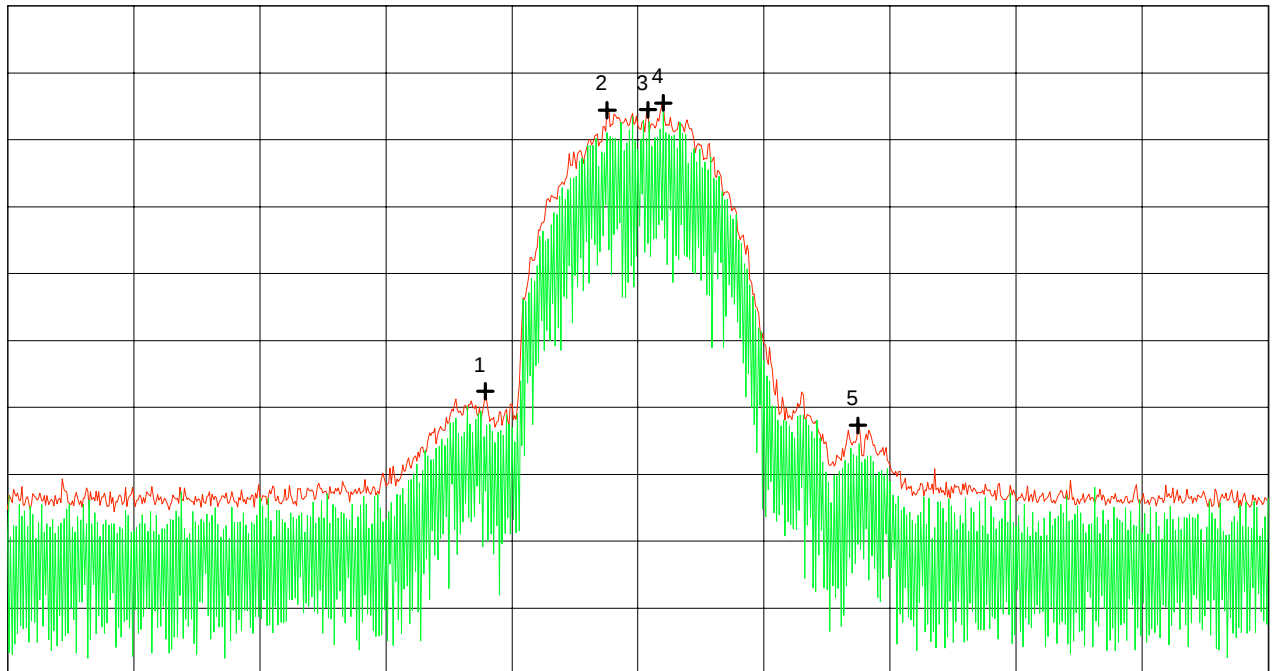
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.442$ GHz

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.:
56305-90735-1

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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:

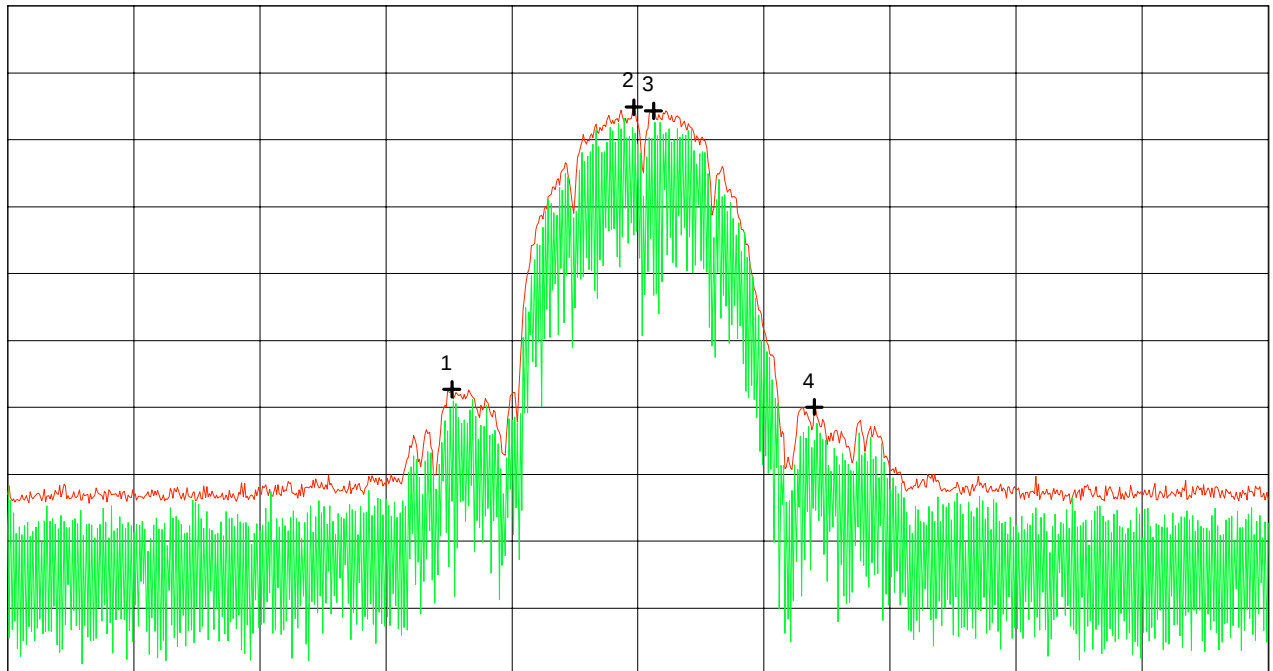
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.442$ GHz

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.:
56305-90735-1

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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:

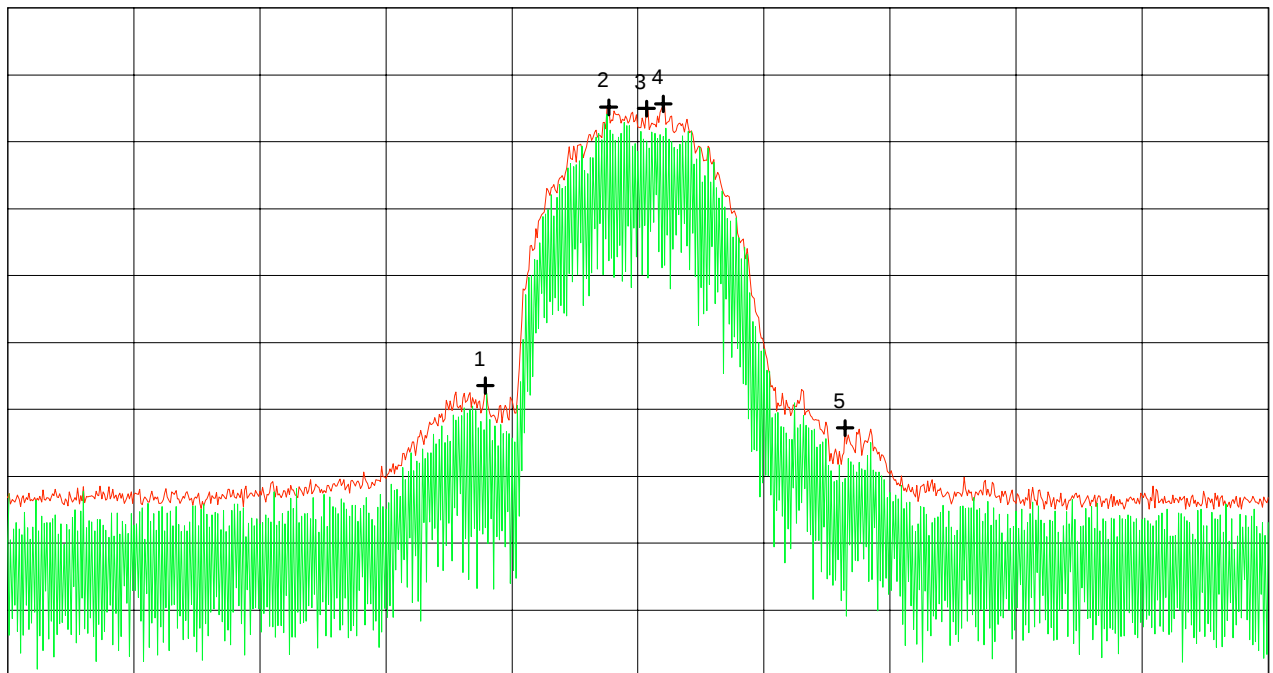
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 11 Mbps
- TX mode with $f = 2.462$ GHz

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.:
56305-90735-1

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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:

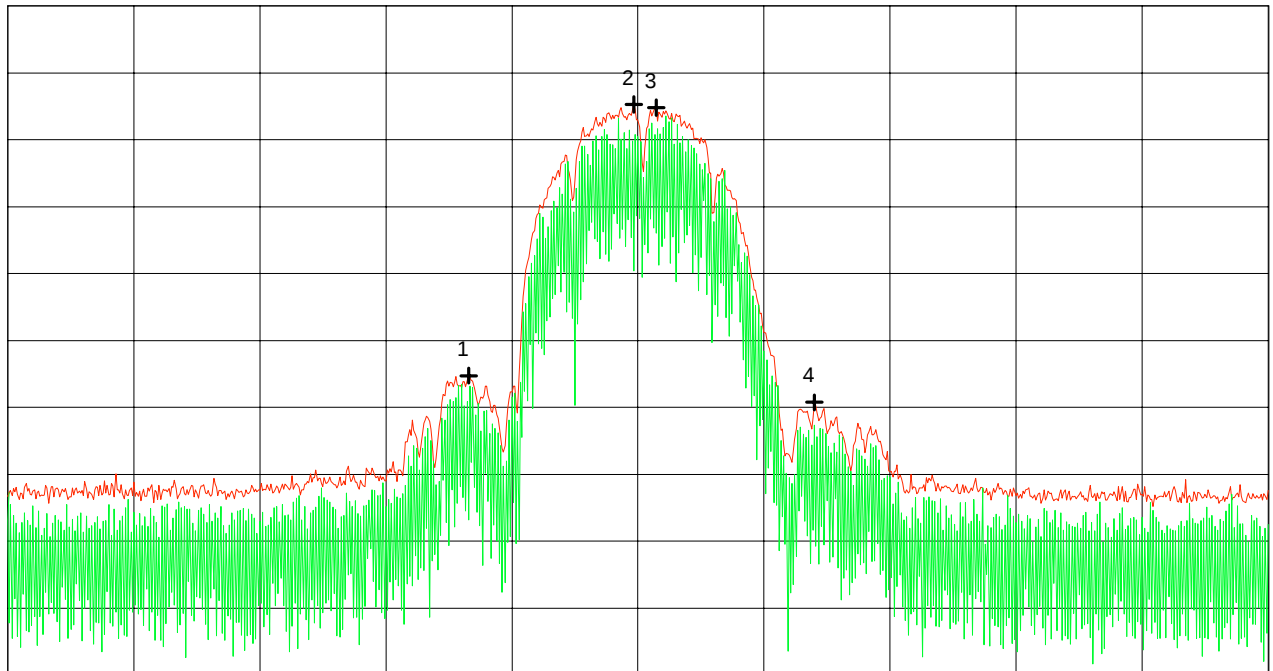
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- operating with bit rate 2 Mbps
- TX mode with $f = 2.462$ GHz

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.:
56305-90735-1

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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 $f = 2.412 \text{ GHz}$

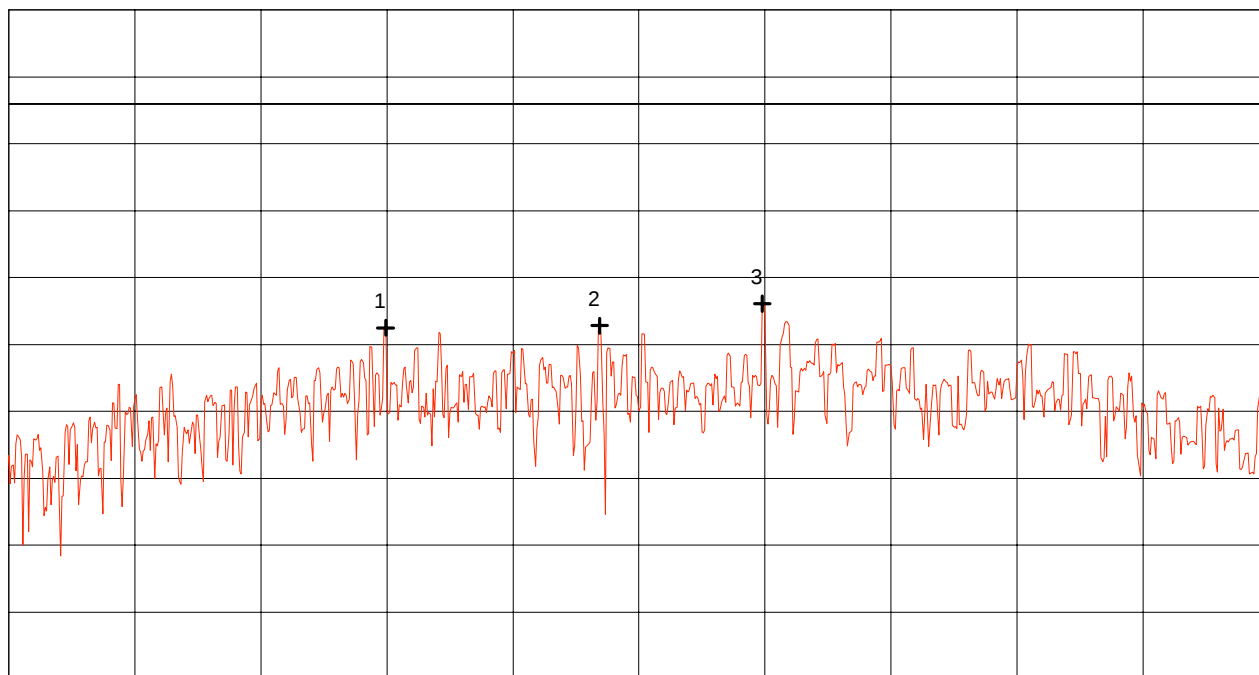
Tested on: antenna connector

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.:
56305-90735-1

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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

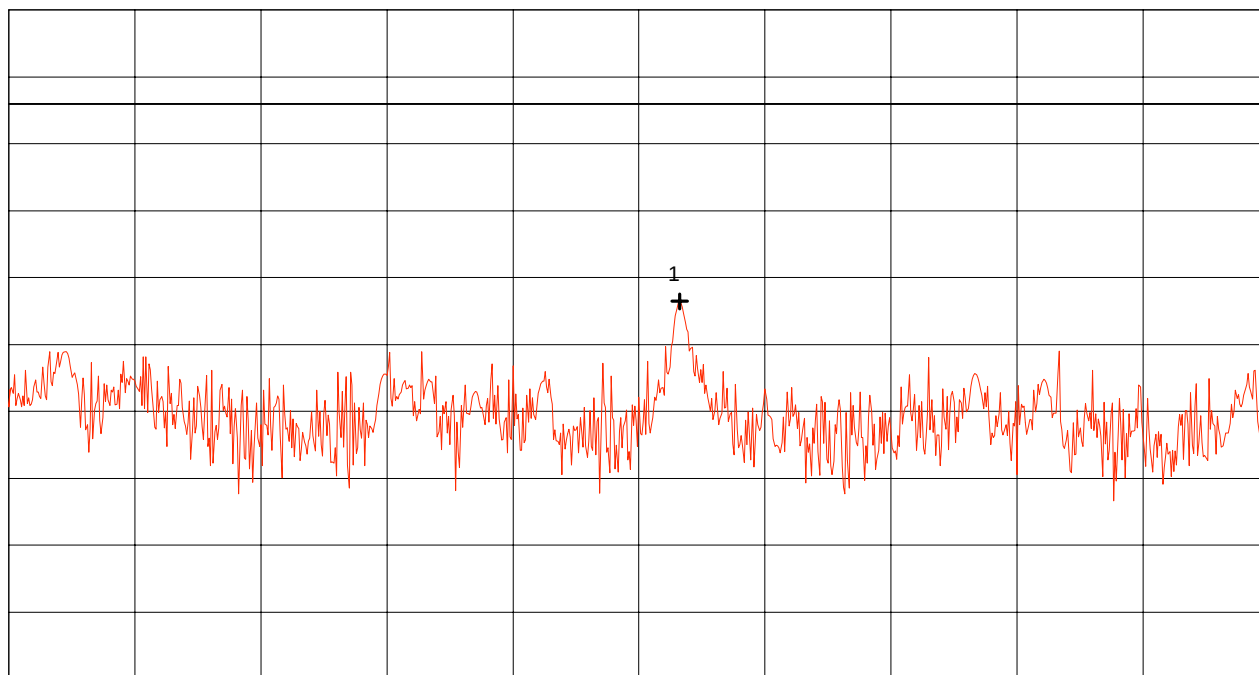
Tested on: antenna connector

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.:
56305-90735-1

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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

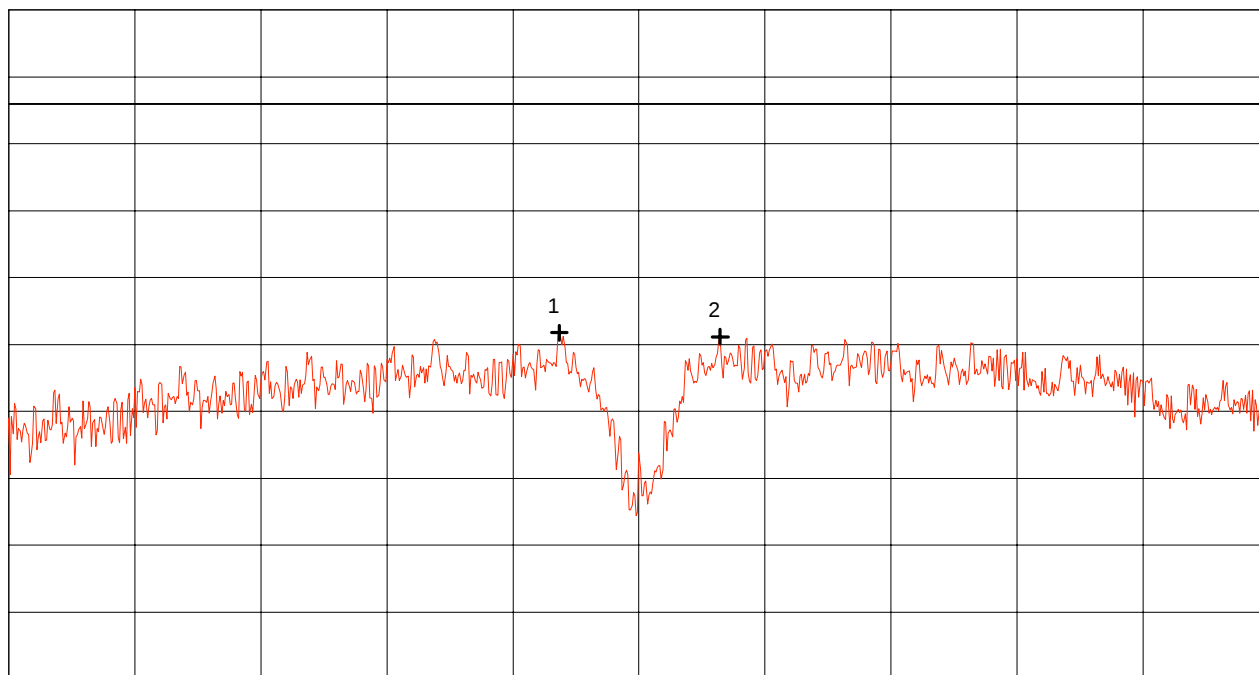
Tested on: antenna connector

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.:
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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

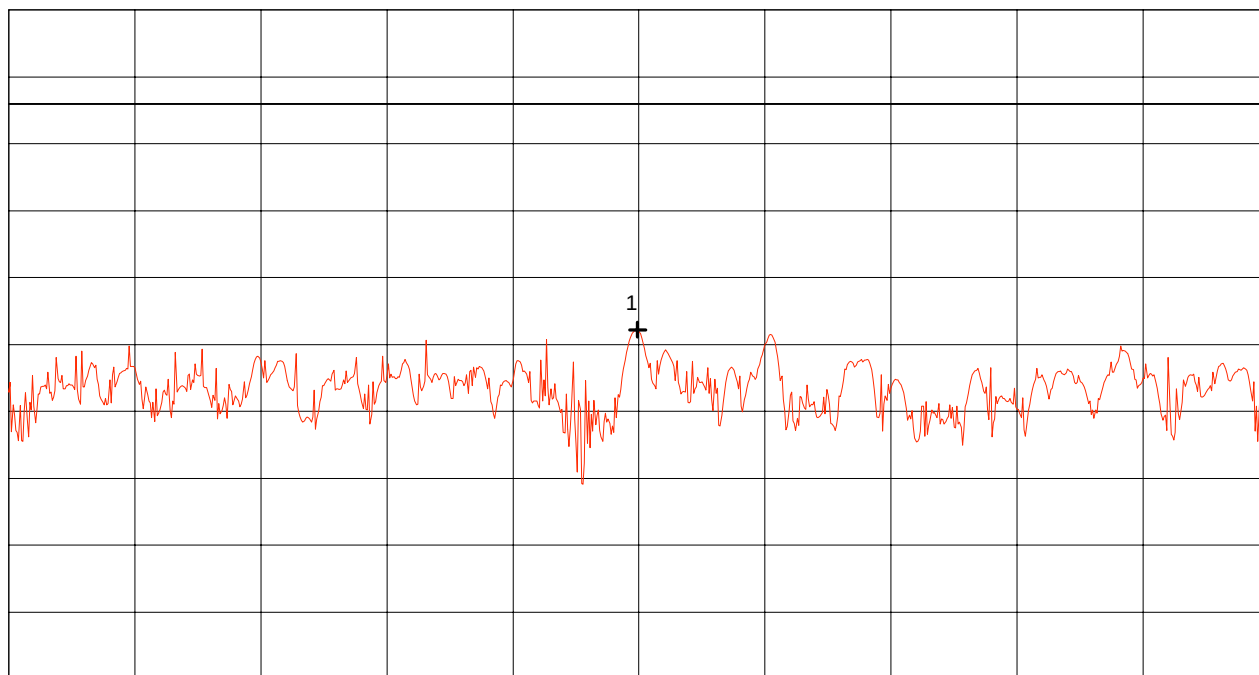
Tested on: antenna connector

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

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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

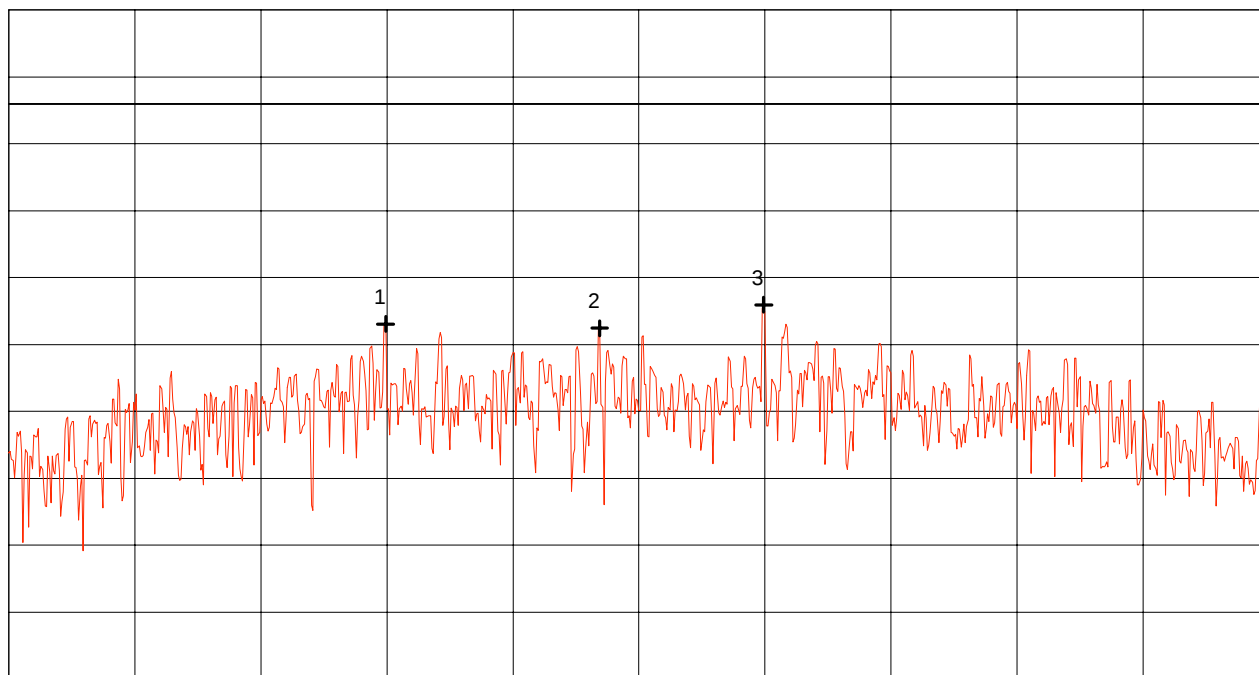
Tested on: antenna connector

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

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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 $f = 2.442 \text{ GHz}$

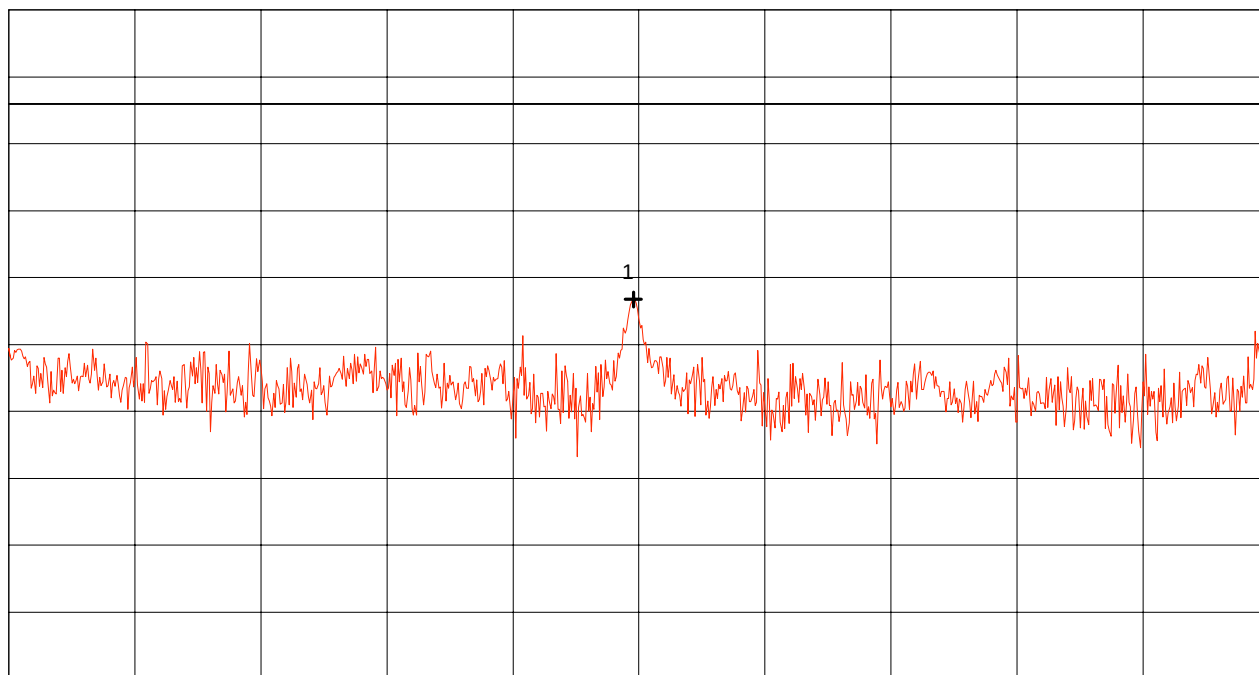
Tested on: antenna connector

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 ****

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

Tested by:
Rainer Heller

Date:
11/29/1999

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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

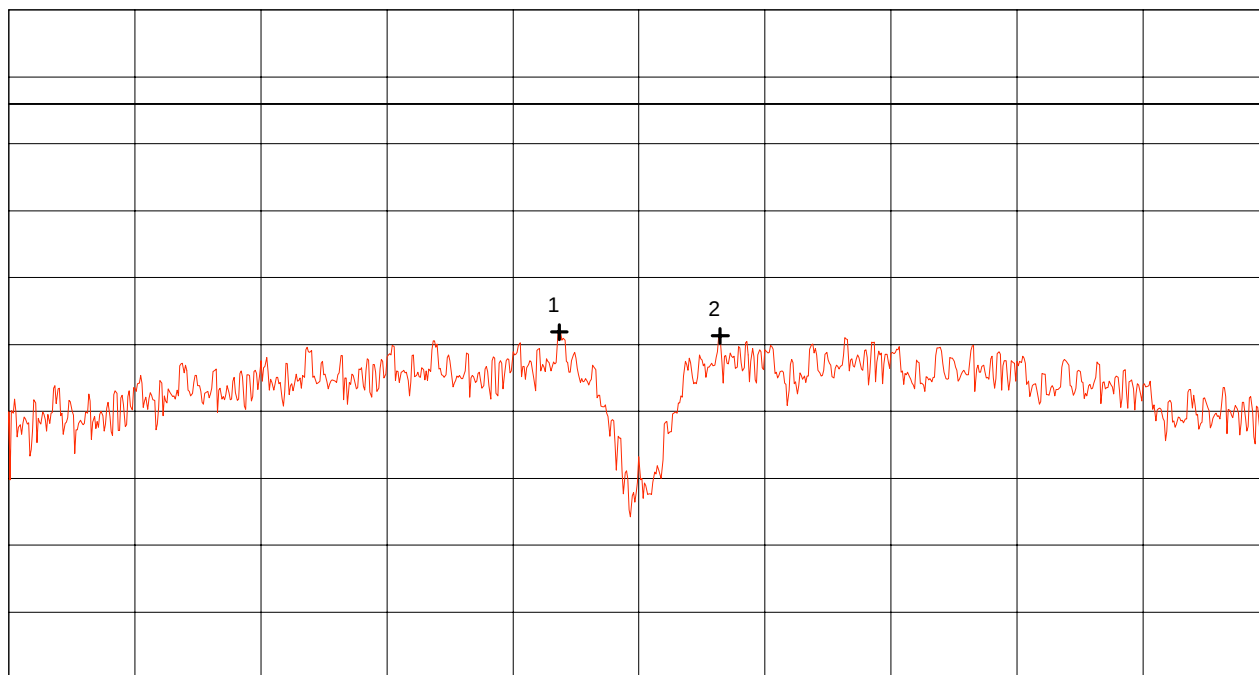
Tested on: antenna connector

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

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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

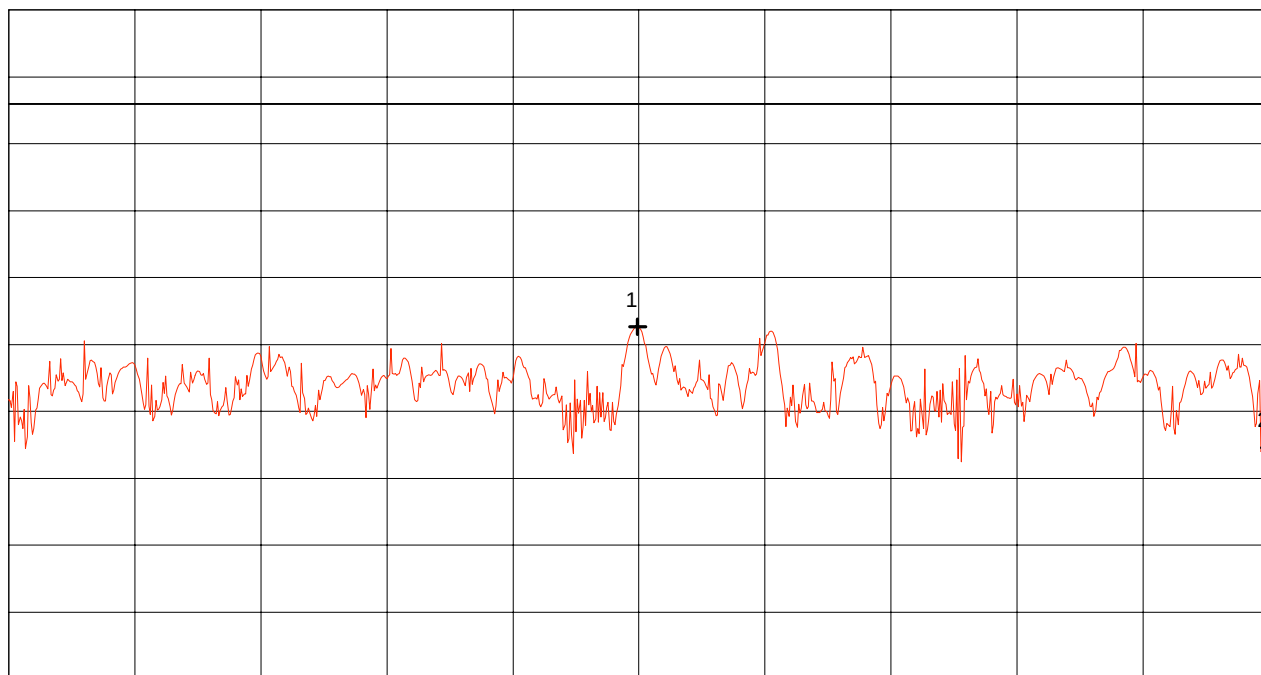
Tested on: antenna connector

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:
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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

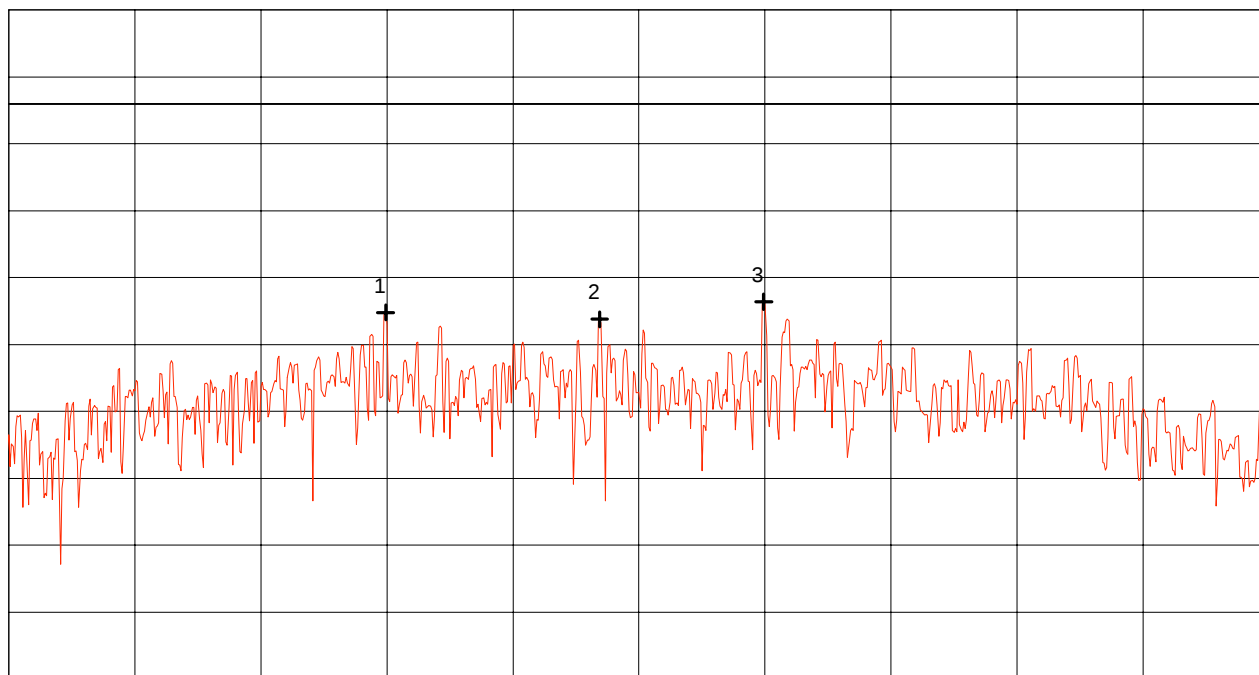
Tested on: antenna connector

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

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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

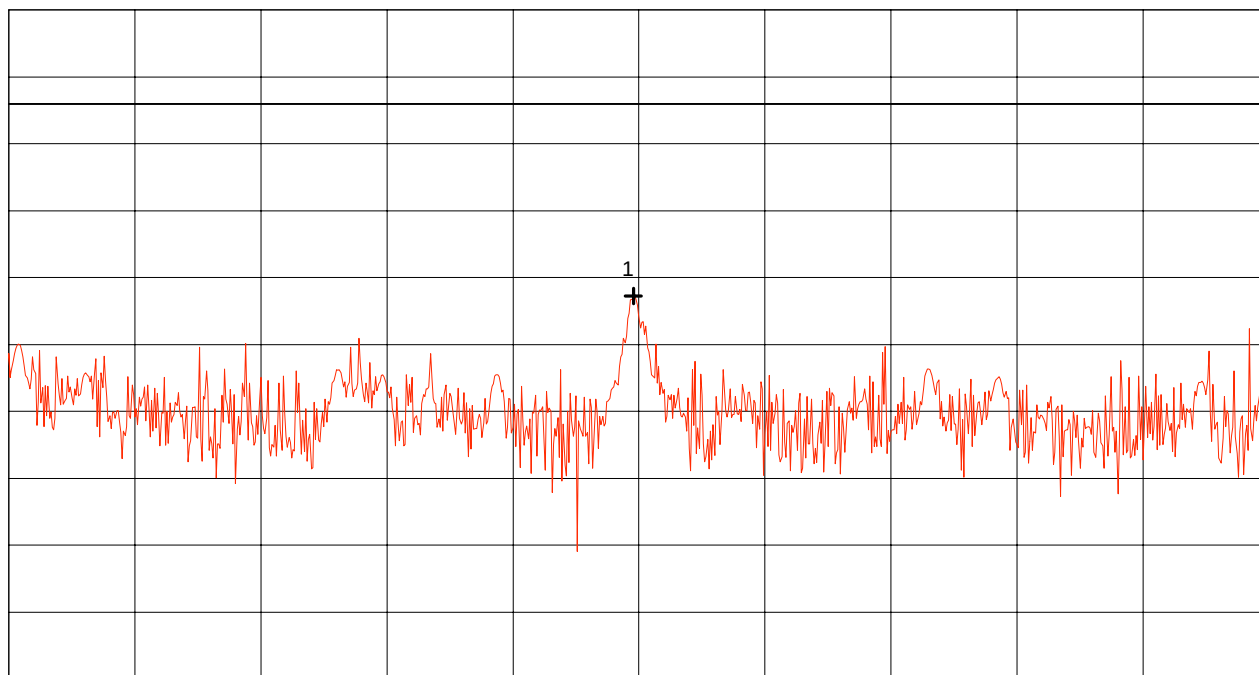
Tested on: antenna connector

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.:
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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

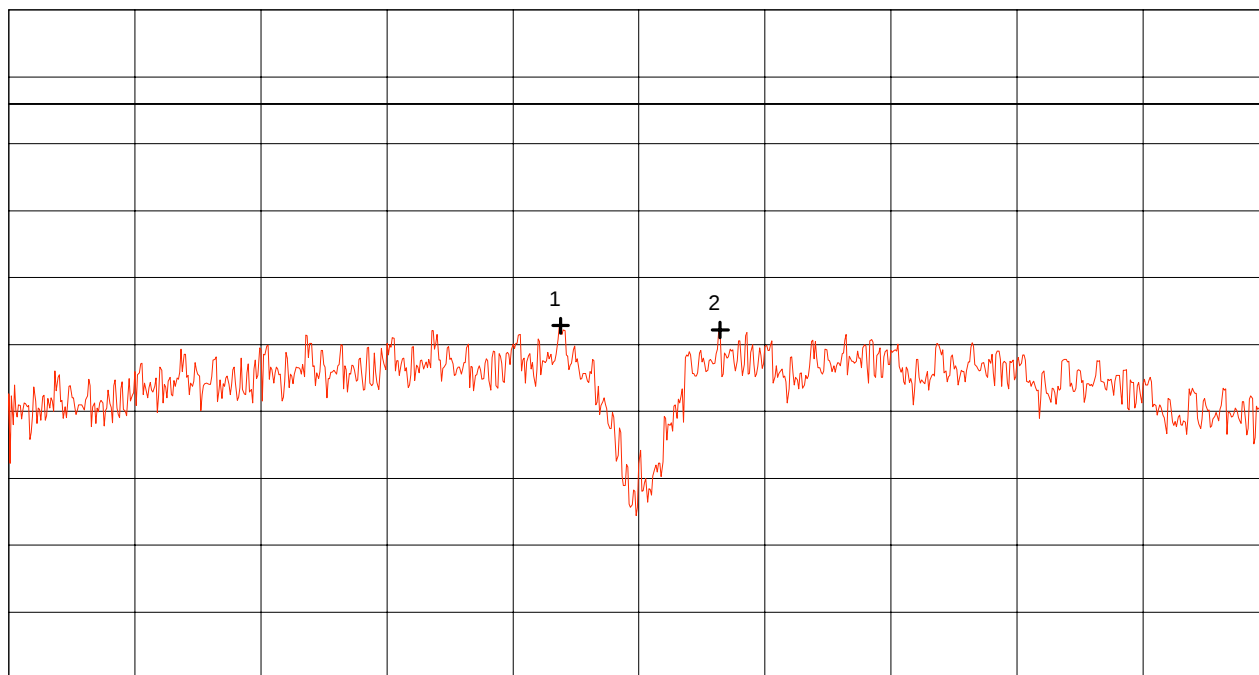
Tested on: antenna connector

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

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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

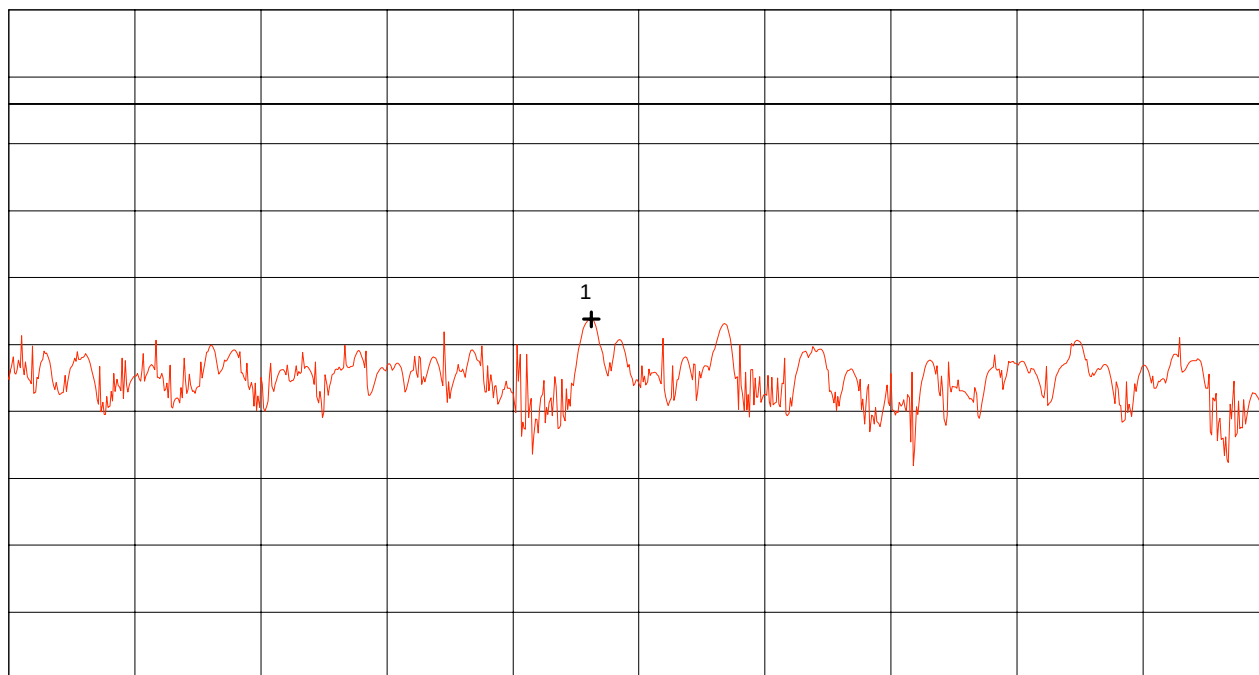
Tested on: antenna connector

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.:
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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

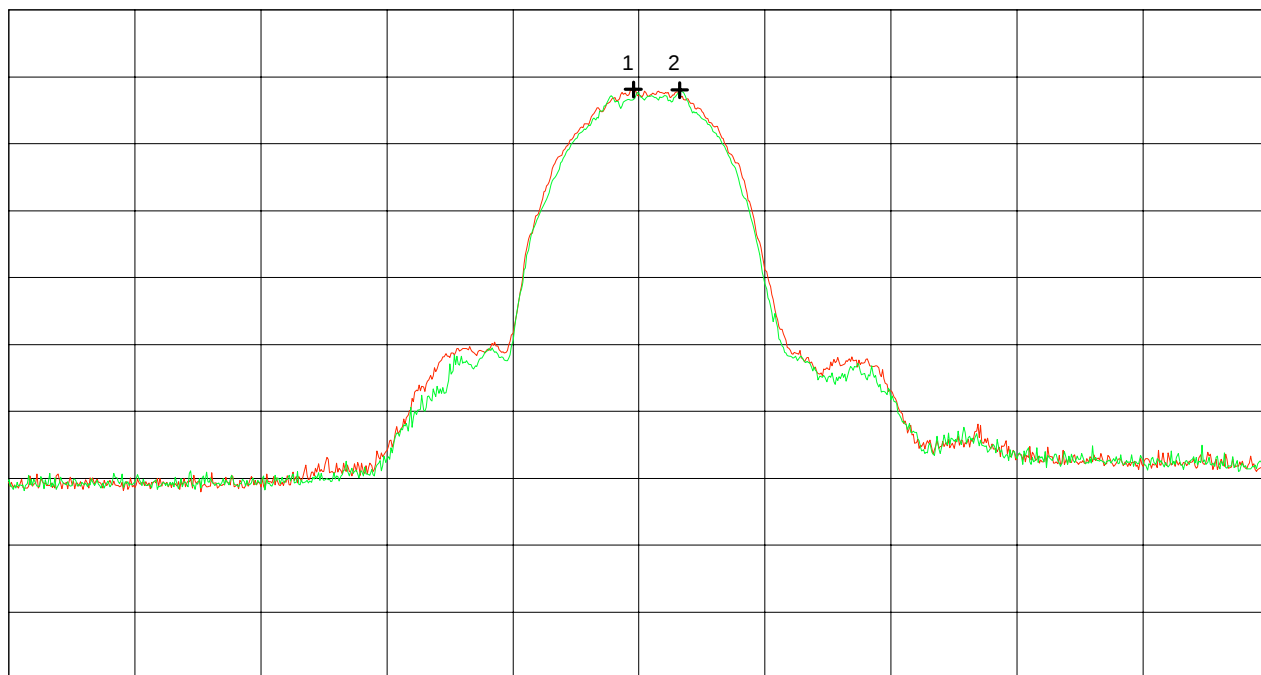
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

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.:
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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

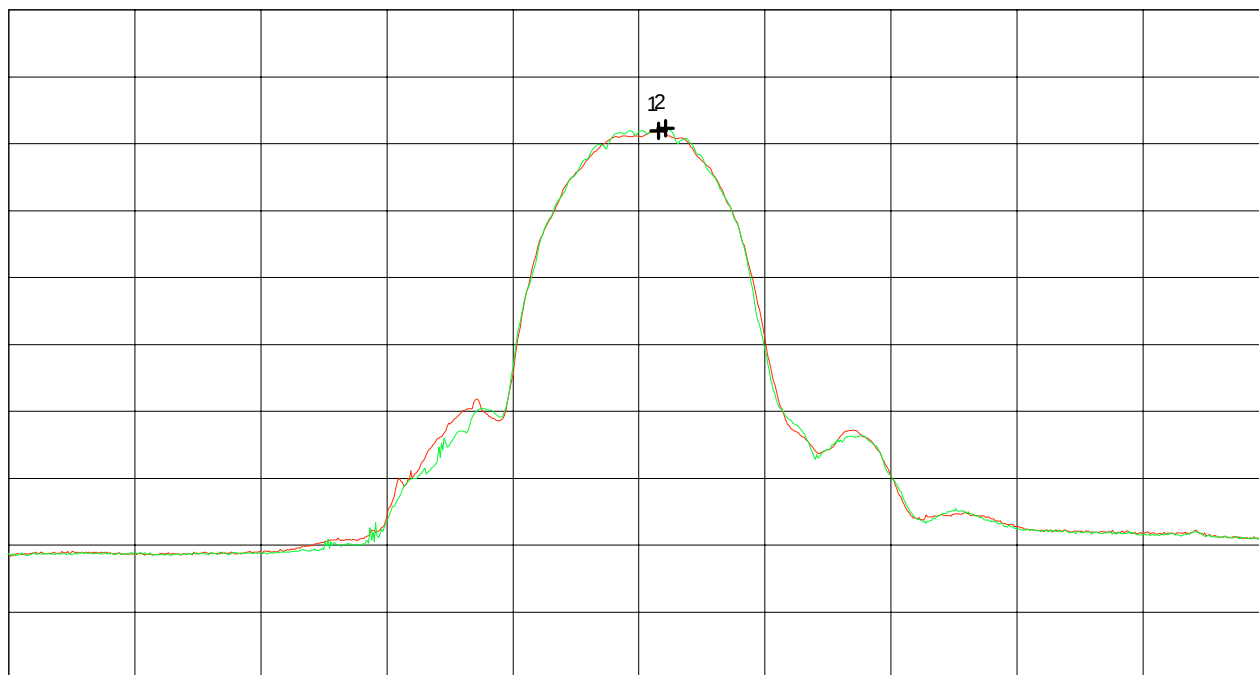
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

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:
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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

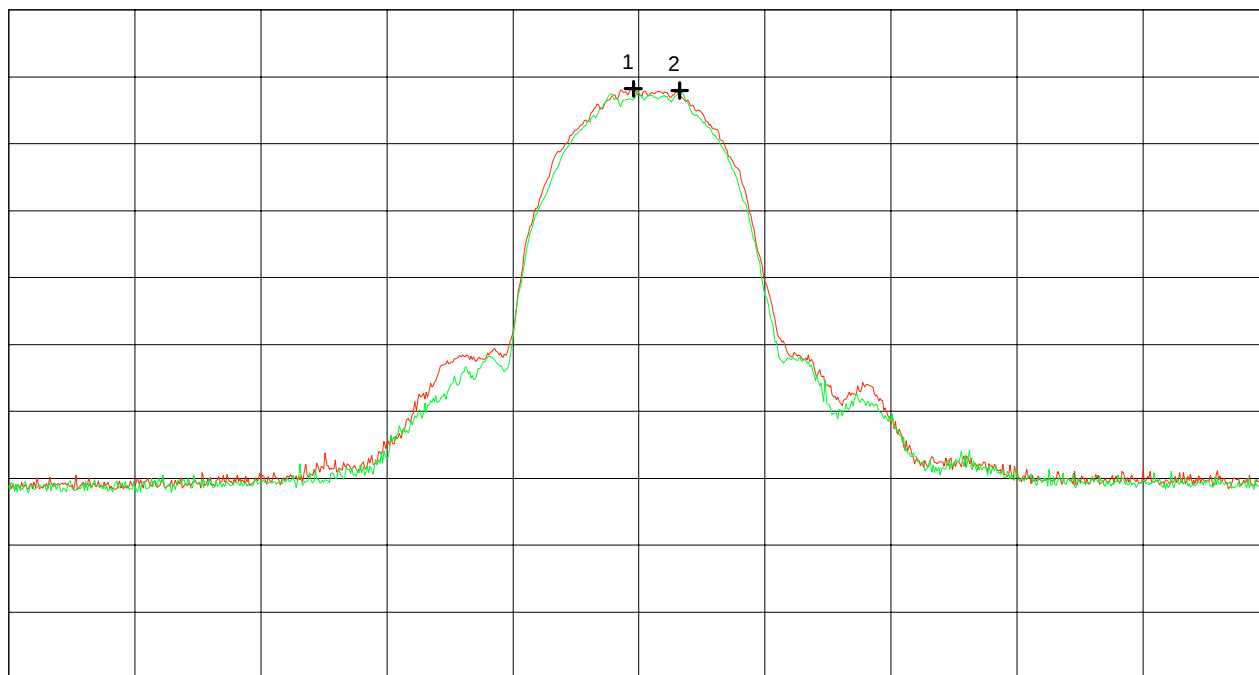
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

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

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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

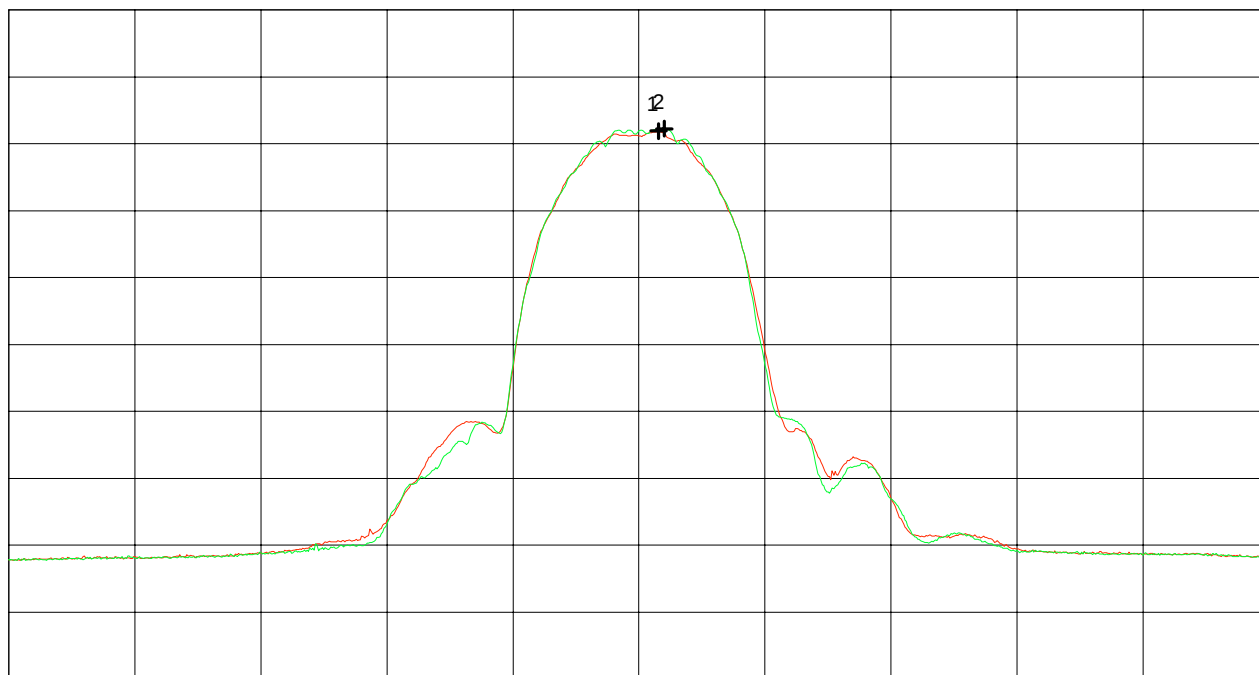
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

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.:
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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

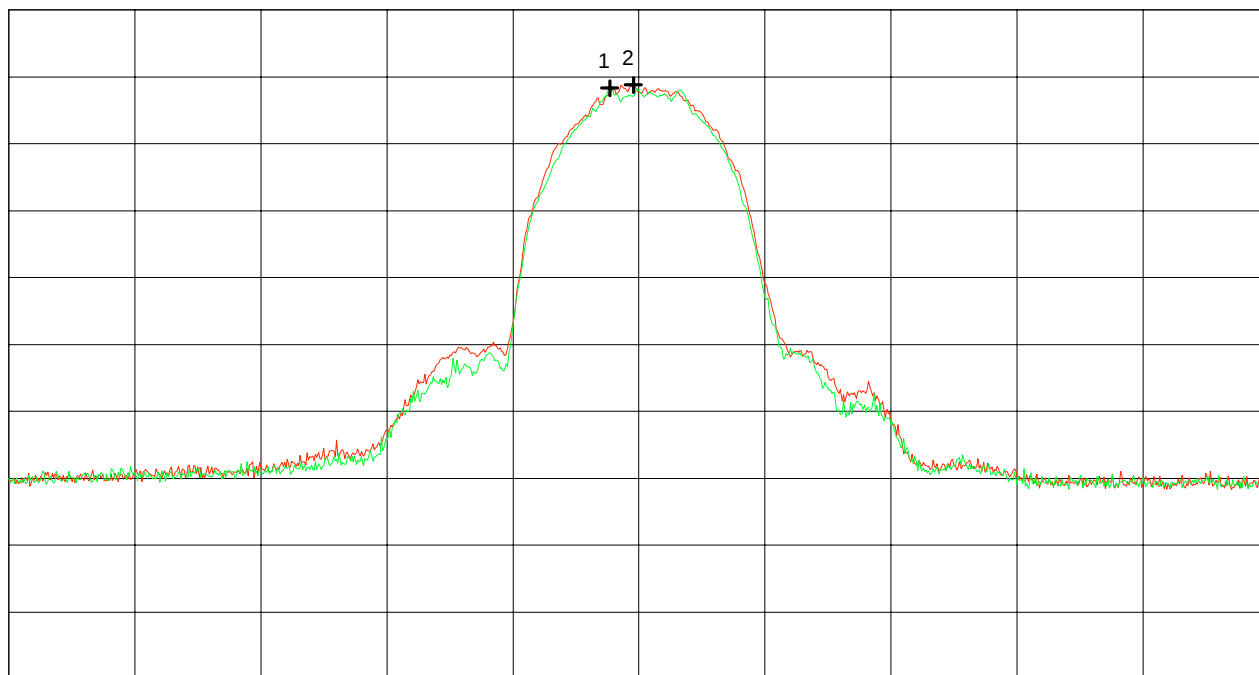
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

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

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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

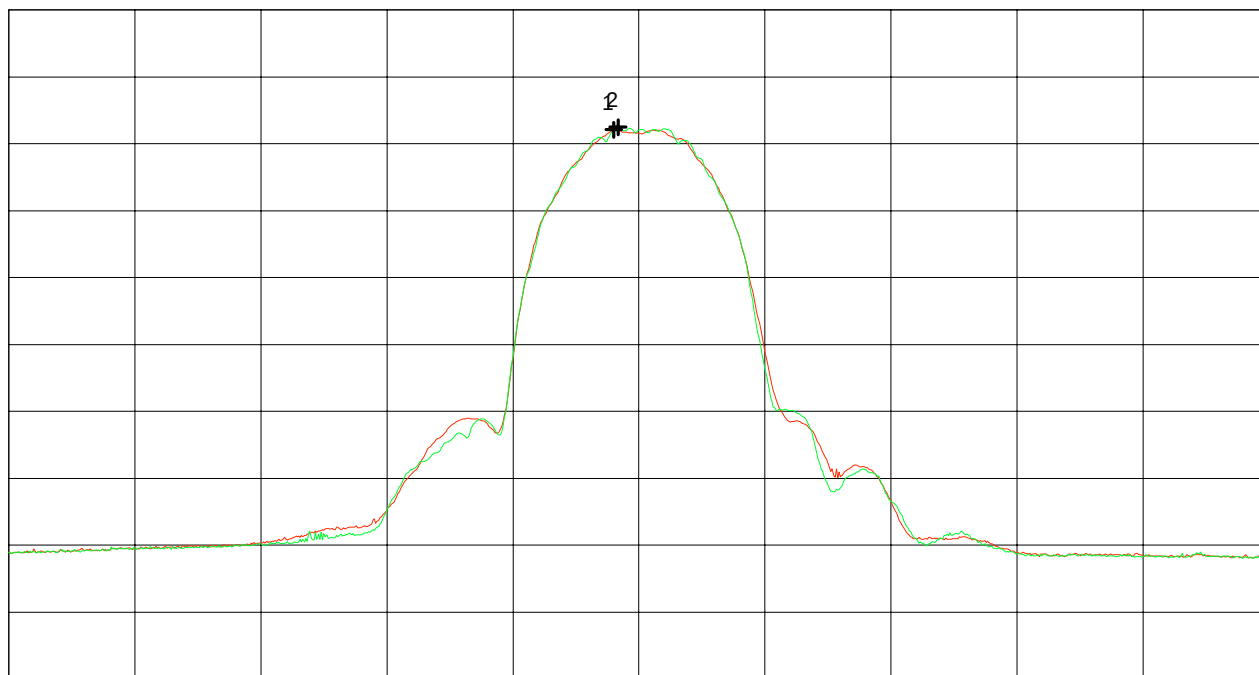
Channel A (red) = operating with bit rate 11 Mbps
Channel B (green) = operating with bit rate 5.5 Mbps

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.:
56305-90735-1

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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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

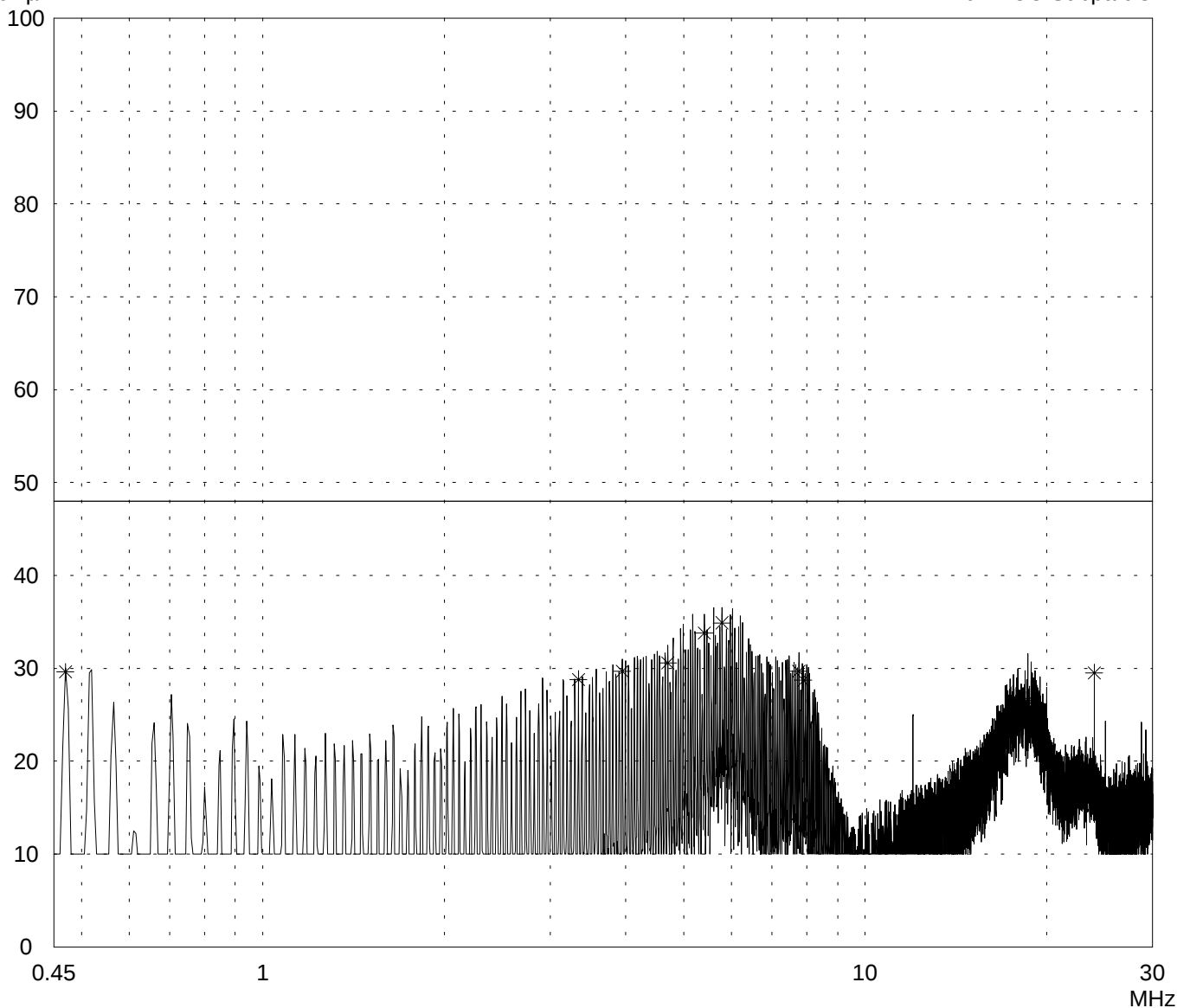
Detector:
Peak / Final Results: QP

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999		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>
0.470	29.6		29.6	48.0	
3.340	28.8		28.8	48.0	
3.950	29.7		29.7	48.0	
4.705	30.6		30.6	48.0	
5.410	33.8		33.8	48.0	
5.785	34.9		34.9	48.0	
7.760	29.7		29.7	48.0	
7.897	28.7		28.7	48.0	
17.925	25.0		25.0	48.0	
18.630	26.5		26.5	48.0	
24.005	29.5		29.5	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 70 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

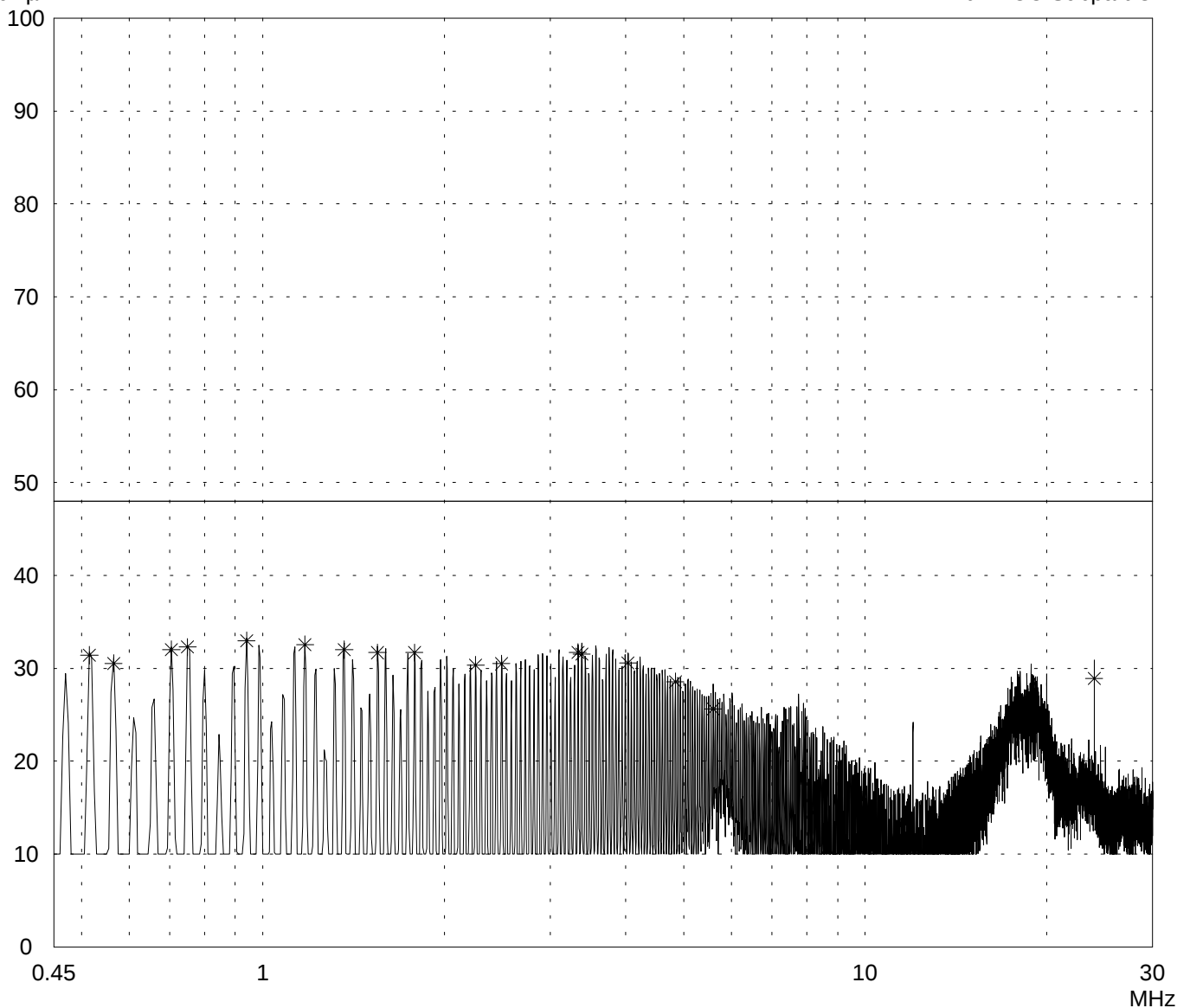
Detector:
Peak / Final Results: QP

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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: 11/17/1999
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-WA-12-A
- 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>
0.515	31.4		31.4	48.0	
0.565	30.5		30.5	48.0	
0.705	32.0		32.0	48.0	
0.750	32.3		32.3	48.0	
0.940	33.0		33.0	48.0	
1.175	32.5		32.5	48.0	
1.365	32.0		32.0	48.0	
1.550	31.7		31.7	48.0	
1.785	31.7		31.7	48.0	
2.255	30.4		30.4	48.0	
2.490	30.5		30.5	48.0	
3.335	31.7		31.7	48.0	
3.385	31.6		31.6	48.0	
4.040	30.6		30.6	48.0	
4.840	28.6		28.6	48.0	
5.595	25.6		25.6	48.0	
18.095	25.6		25.6	48.0	
18.850	25.6		25.6	48.0	
24.005	28.9		28.9	48.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

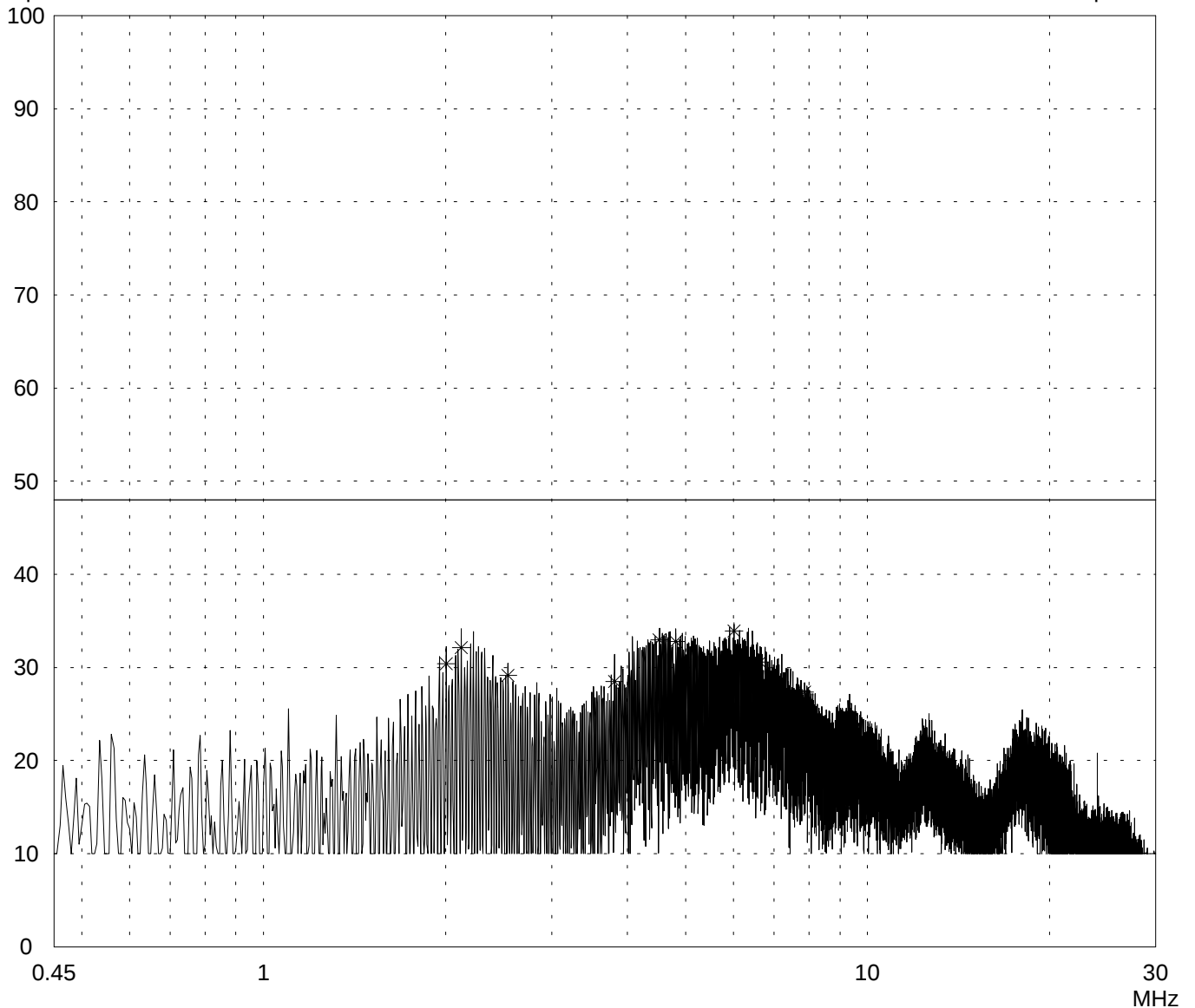
- TX mode with $f = 2.412$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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 peripheral devices Phase L1		
Date of test: 11/17/1999		Operator: R. Heller
Test performed: automatically		File name:

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

Frequency MHz	Reading dBμV	Correction factor dB	Value dBμV	Limit dBμV	Limit exceeded
2.005	30.4		30.4	48.0	
2.125	32.1		32.1	48.0	
2.540	29.2		29.2	48.0	
3.810	28.5		28.5	48.0	
4.520	33.0		33.0	48.0	
4.815	32.8		32.8	48.0	
6.010	33.9		33.9	48.0	
6.645	30.6		30.6	48.0	
7.870	27.4		27.4	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 74 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

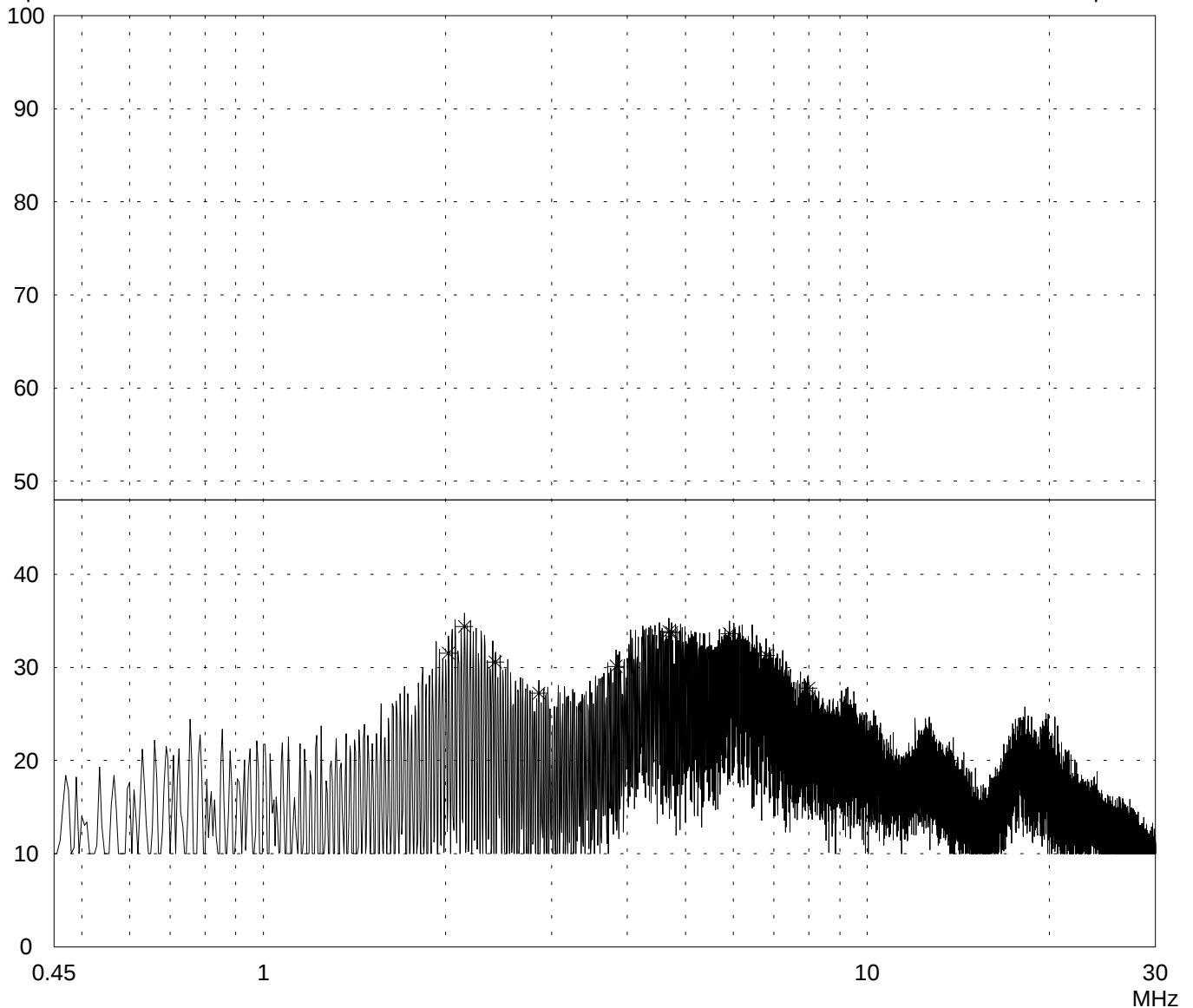
- TX mode with $f = 2.412$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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 peripheral devices Phase N	
Date of test: 11/17/1999	
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>
2.025	31.5		31.5	48.0	
2.150	34.4		34.4	48.0	
2.420	30.6		30.6	48.0	
2.860	27.3		27.3	48.0	
3.835	30.1		30.1	48.0	
4.690	33.9		33.9	48.0	
4.740	33.7		33.7	48.0	
5.915	33.6		33.6	48.0	
6.795	31.3		31.3	48.0	
7.990	27.8		27.8	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 76 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

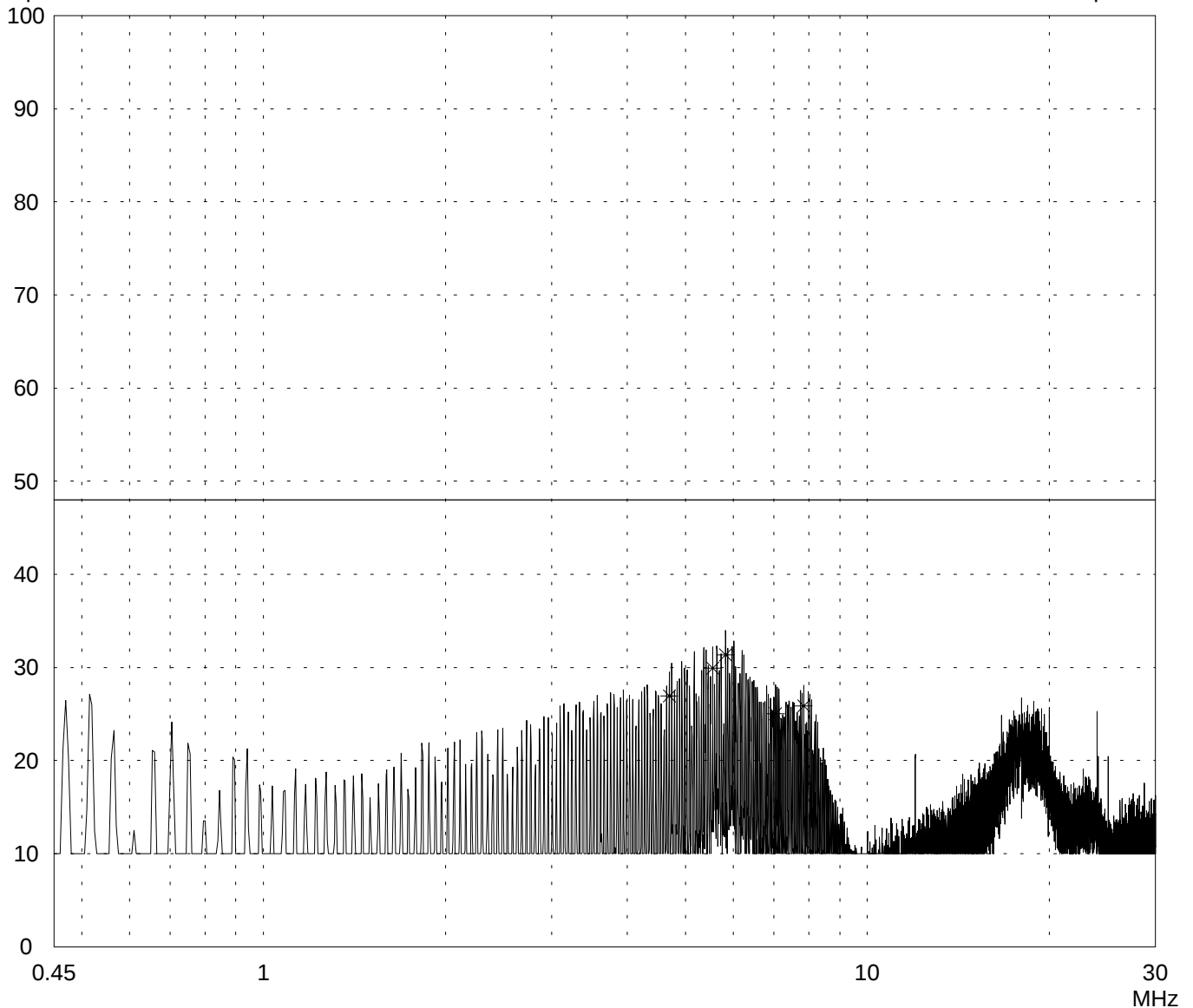
Detector:
Peak / Final Results: QP

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999	
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>
4.700	27.0		27.0	48.0	
5.545	29.9		29.9	48.0	
5.825	31.4		31.4	48.0	
7.050	25.0		25.0	48.0	
7.845	25.9		25.9	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 78 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

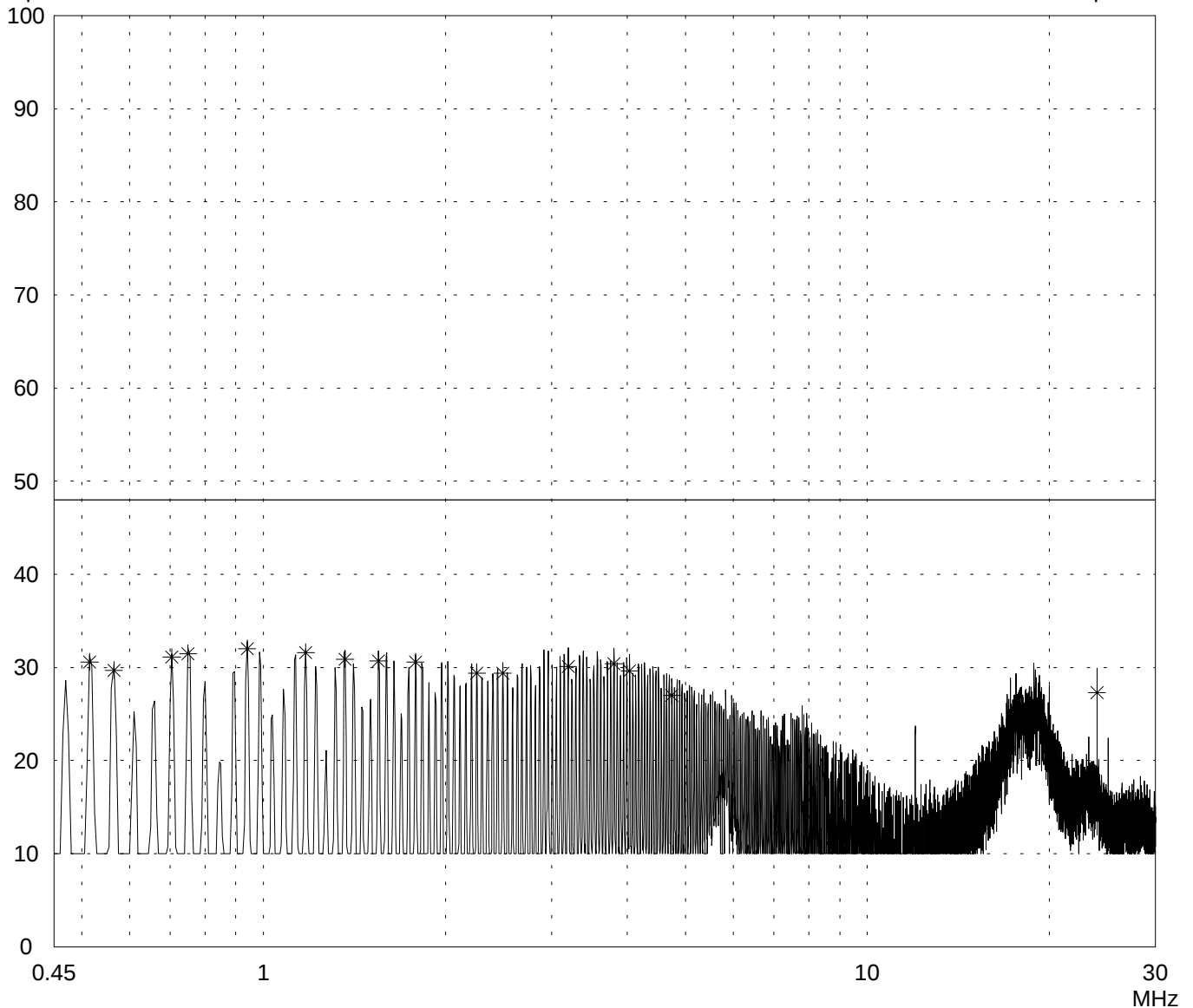
- TX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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: 11/17/1999 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-WA-12-A
- 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

<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	30.6		30.6	48.0	
0.565	29.7		29.7	48.0	
0.705	31.1		31.1	48.0	
0.750	31.5		31.5	48.0	
0.940	32.0		32.0	48.0	
1.175	31.6		31.6	48.0	
1.365	30.9		30.9	48.0	
1.550	30.7		30.7	48.0	
1.785	30.6		30.6	48.0	
2.255	29.4		29.4	48.0	
2.490	29.4		29.4	48.0	
3.195	30.1		30.1	48.0	
3.805	30.4		30.4	48.0	
4.040	29.6		29.6	48.0	
4.745	27.0		27.0	48.0	
17.620	23.8		23.8	48.0	
18.880	25.3		25.3	48.0	
24.005	27.3		27.3	48.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

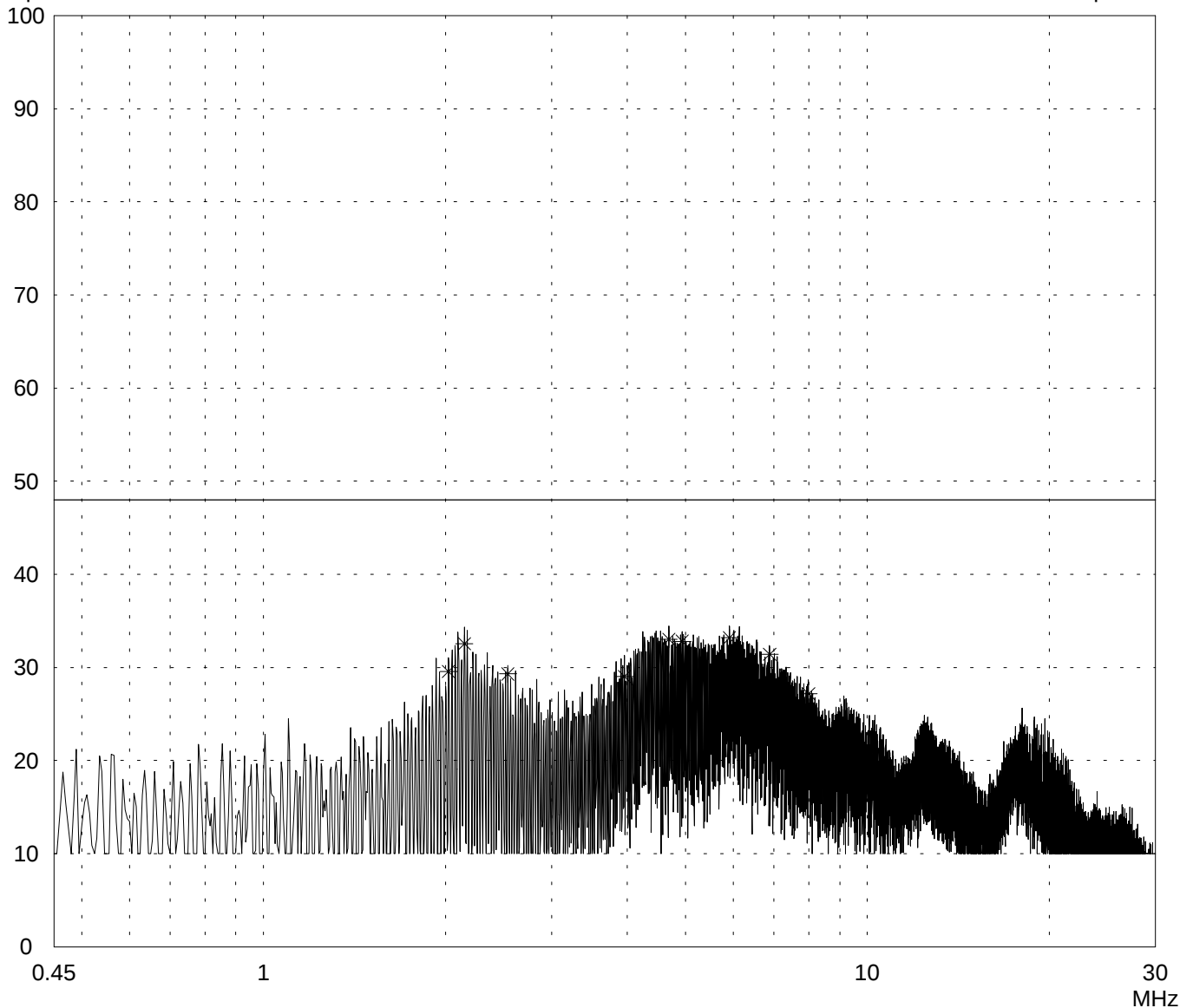
- TX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999		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>
2.025	29.6		29.6	48.0	
2.150	32.6		32.6	48.0	
2.540	29.3		29.3	48.0	
3.960	29.0		29.0	48.0	
4.690	33.0		33.0	48.0	
4.935	32.8		32.8	48.0	
5.915	33.2		33.2	48.0	
6.890	31.4		31.4	48.0	
7.990	27.2		27.2	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 82 of 212 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: 11/17/1999 Operator: R. Heller

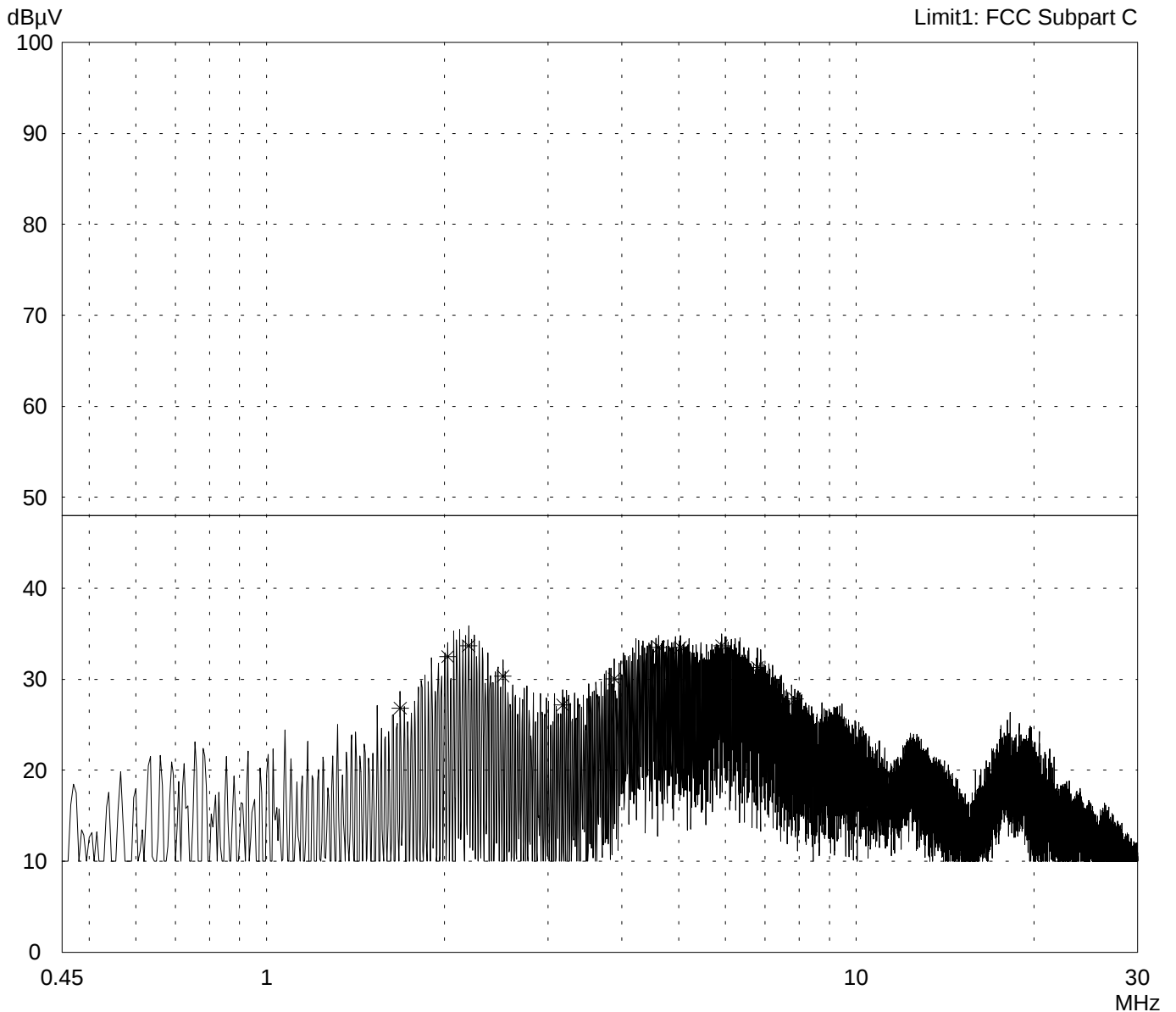
Test performed: automatically File name:

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-WA-12-A
- 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



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999		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>
1.685	26.8		26.8	48.0	
2.030	32.5		32.5	48.0	
2.200	33.7		33.7	48.0	
2.515	30.3		30.3	48.0	
3.175	27.2		27.2	48.0	
3.885	30.1		30.1	48.0	
4.620	33.5		33.5	48.0	
5.035	33.5		33.5	48.0	
5.915	33.7		33.7	48.0	
6.795	31.3		31.3	48.0	
7.870	27.8		27.8	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 84 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

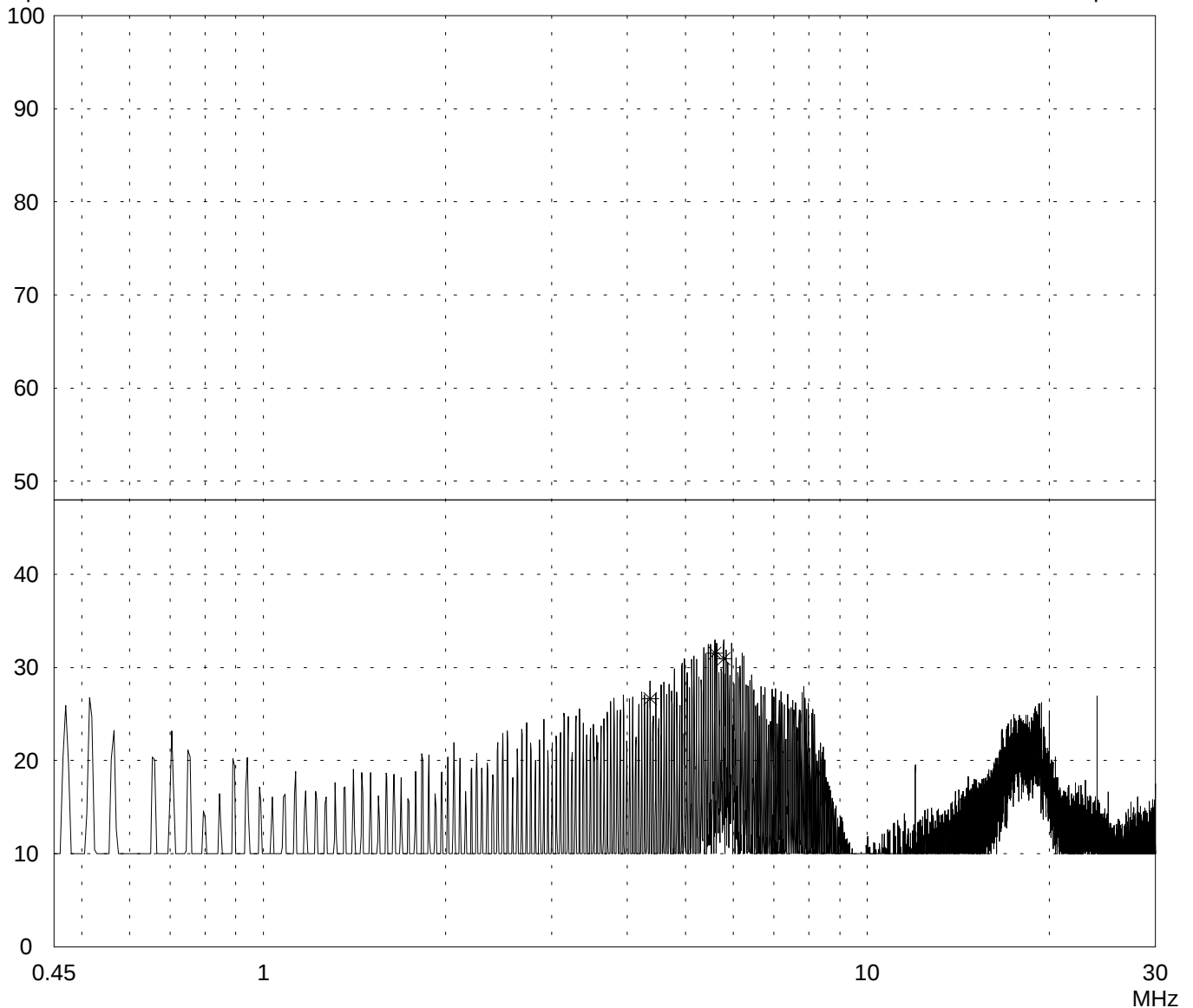
- TX mode with $f = 2.462$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999	
Test performed: automatically	File name:

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

[illegible]

Result: Limit kept	Project file: 56305-90735-1	Page 86 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

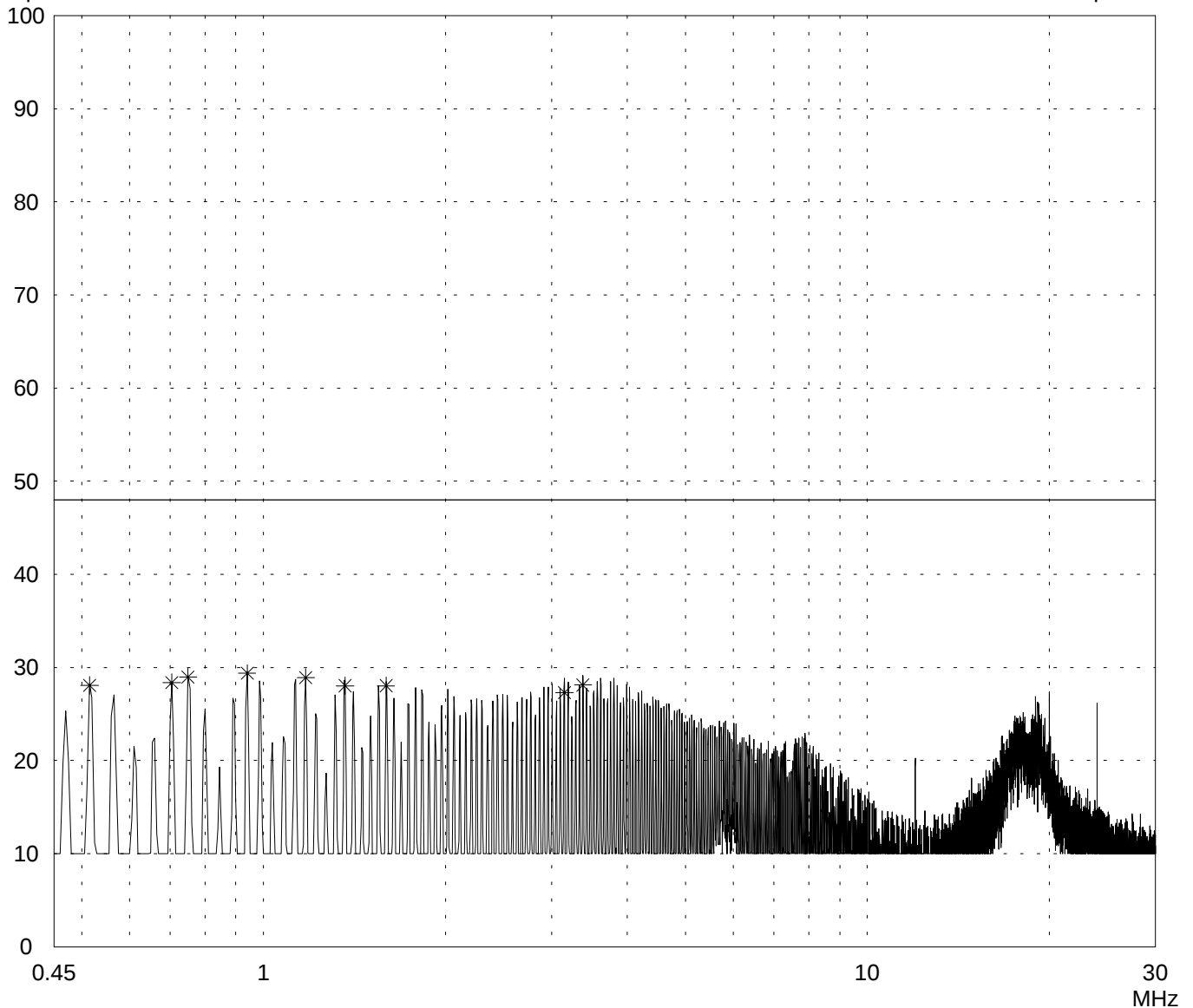
Detector:
Peak / Final Results: QP

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999		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	28.1		28.1	48.0	
0.705	28.4		28.4	48.0	
0.750	29.0		29.0	48.0	
0.940	29.4		29.4	48.0	
1.175	28.9		28.9	48.0	
1.365	28.0		28.0	48.0	
1.595	28.0		28.0	48.0	
3.150	27.3		27.3	48.0	
3.380	28.1		28.1	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 88 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

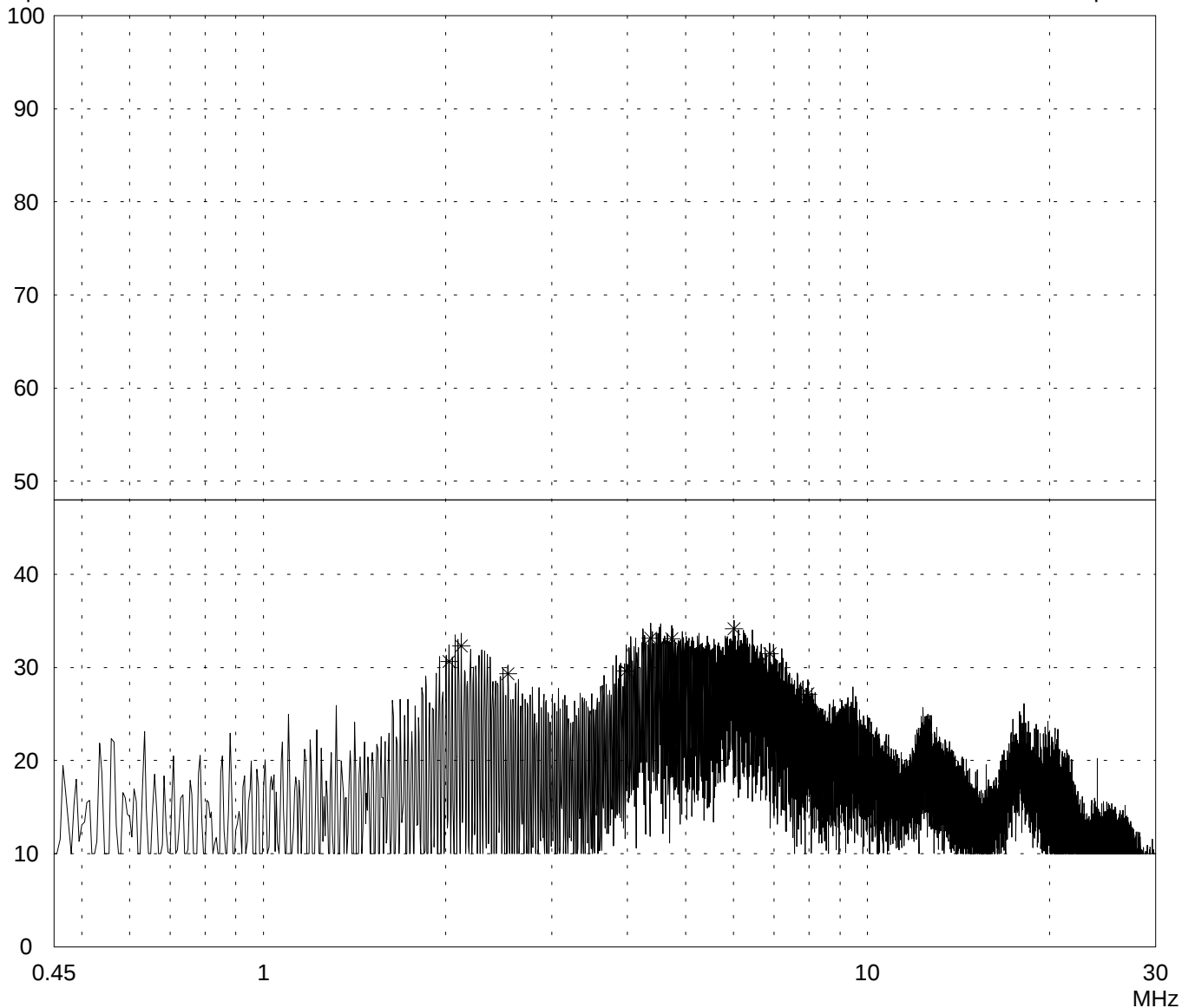
- TX mode with $f = 2.462$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999	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>
2.030	30.7		30.7	48.0	
2.125	32.3		32.3	48.0	
2.540	29.3		29.3	48.0	
3.985	29.6		29.6	48.0	
4.375	33.2		33.2	48.0	
4.740	33.1		33.1	48.0	
6.010	34.1		34.1	48.0	
6.890	31.5		31.5	48.0	
7.965	27.1		27.1	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 90 of 212 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: 11/17/1999 Operator: R. Heller

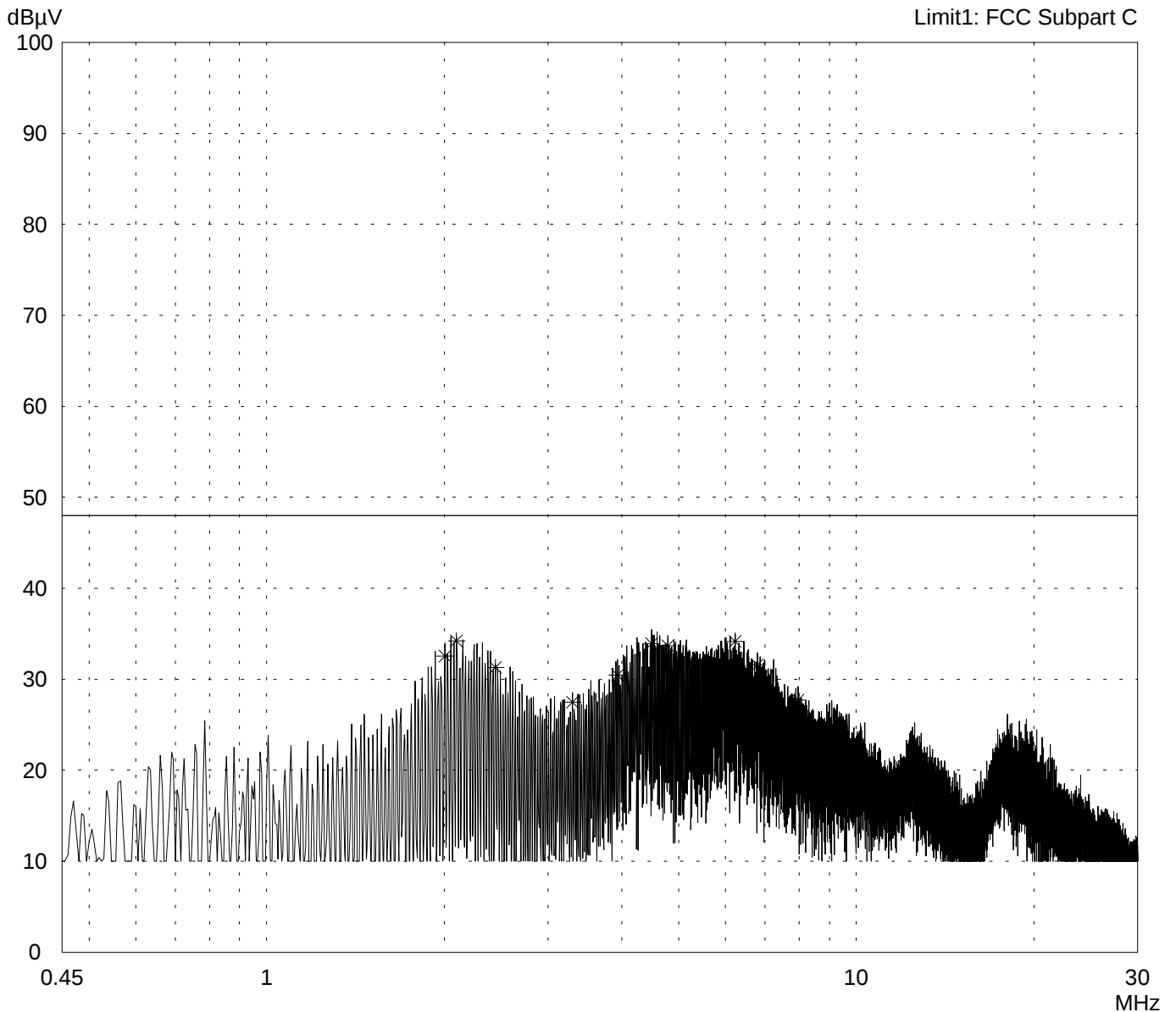
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999	
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>
2.005	32.6		32.6	48.0	
2.100	34.2		34.2	48.0	
2.445	31.3		31.3	48.0	
3.300	27.5		27.5	48.0	
3.935	30.5		30.5	48.0	
4.495	33.9		33.9	48.0	
4.790	33.7		33.7	48.0	
6.230	34.2		34.2	48.0	
6.795	31.6		31.6	48.0	
7.965	27.7		27.7	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 92 of 212 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: 11/17/1999 Operator: R. Heller

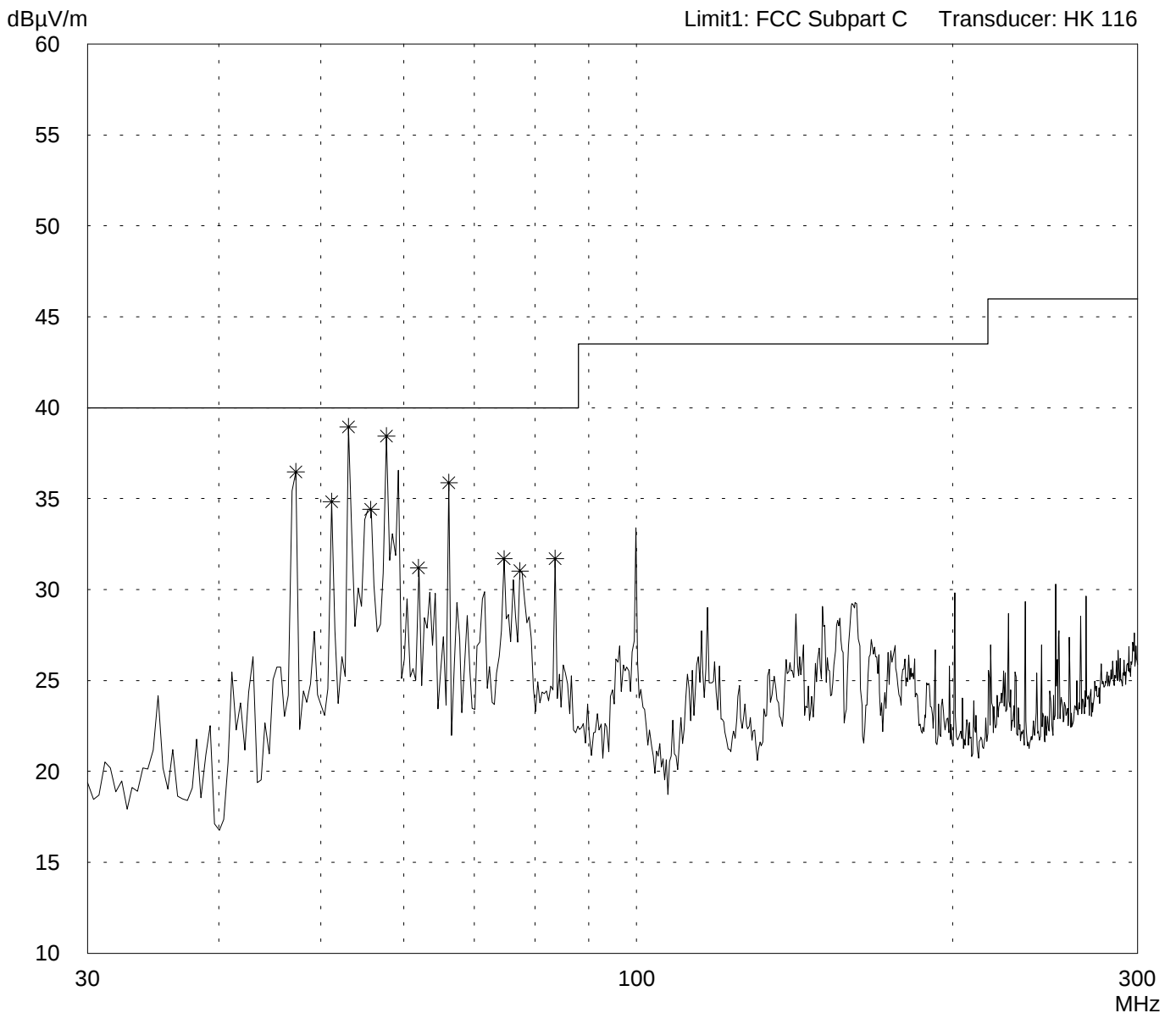
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

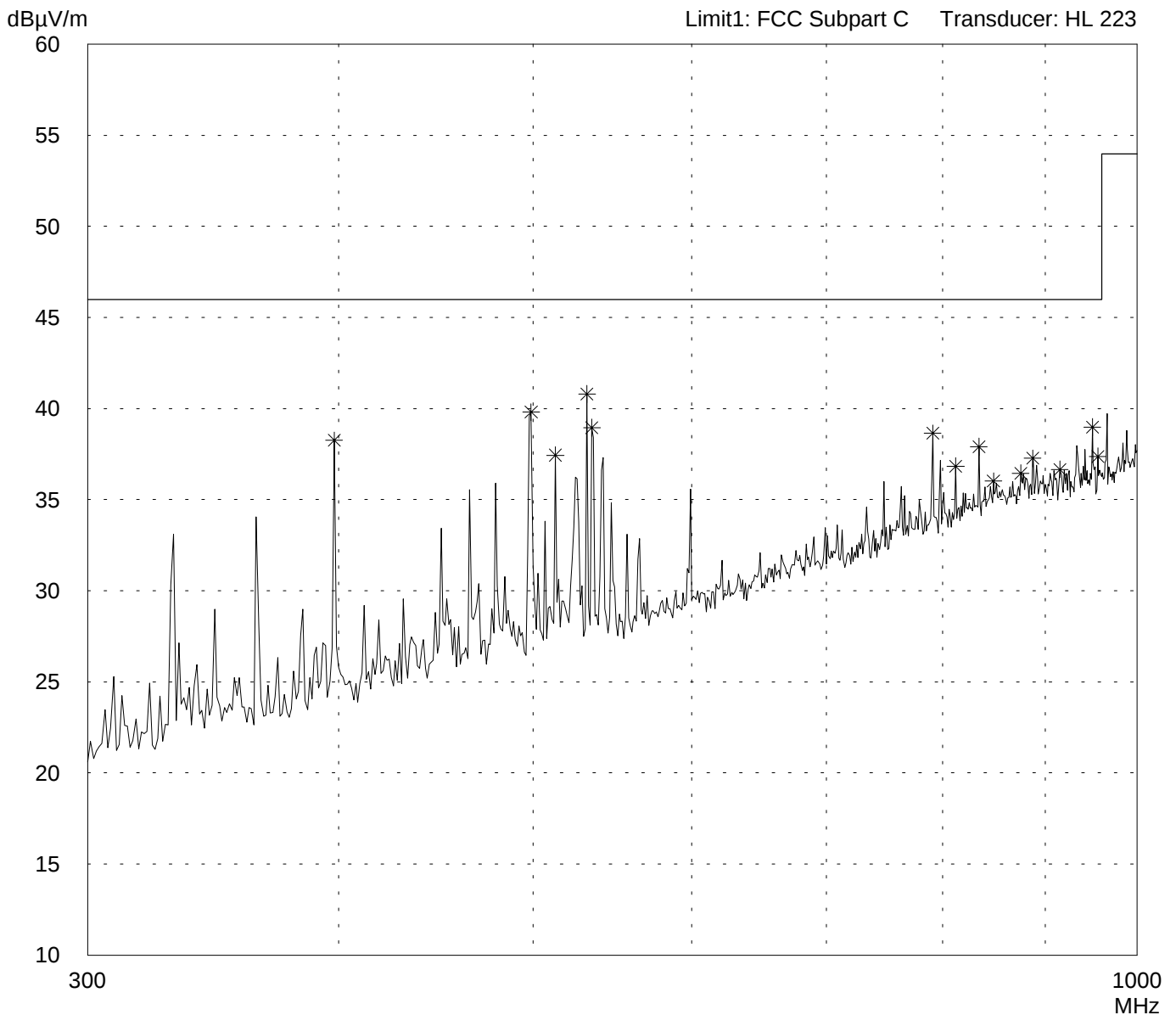
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/17/1999 Operator:
R. Heller

Test performed: automatically File name:

Mode:

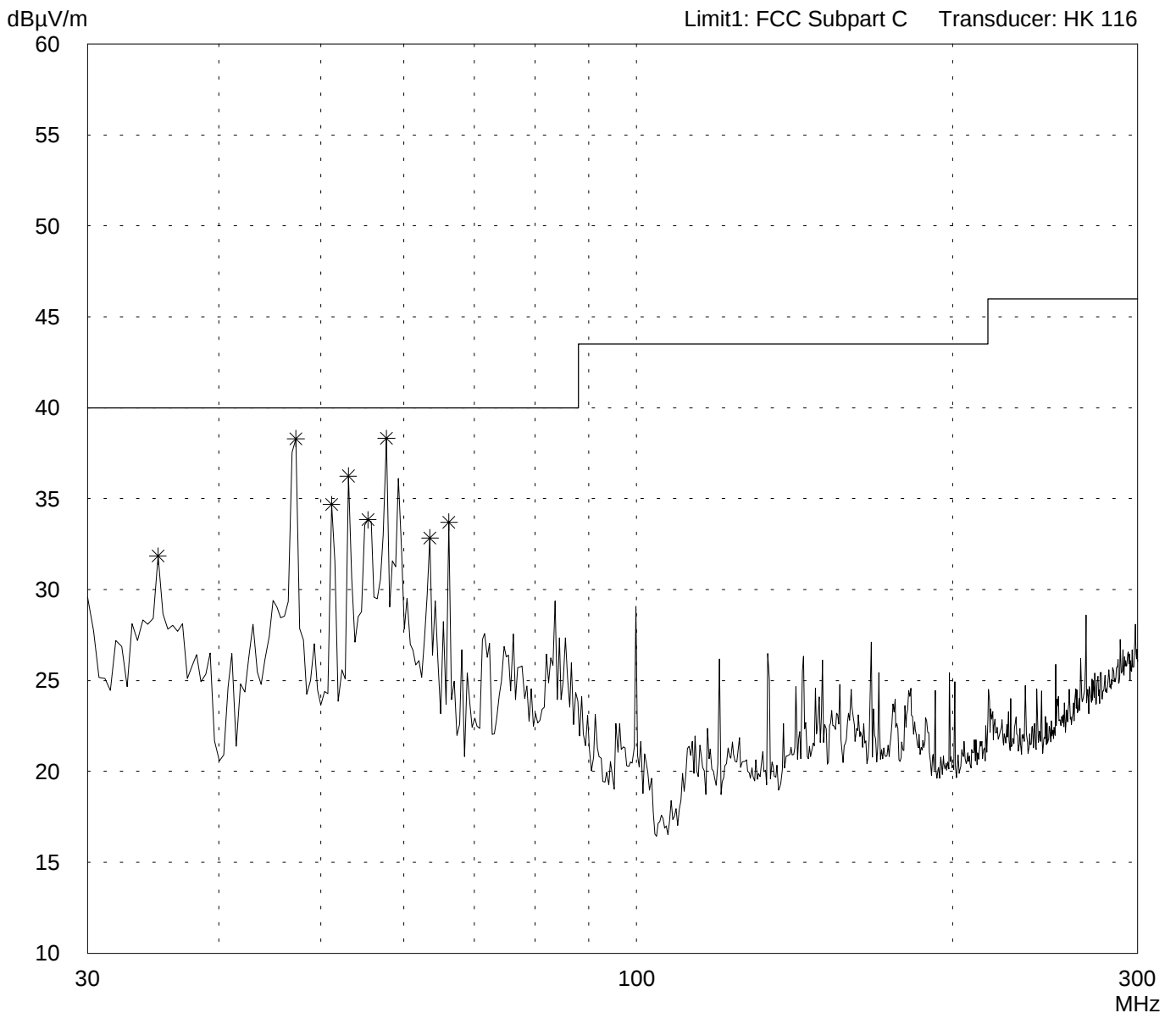
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- 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:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

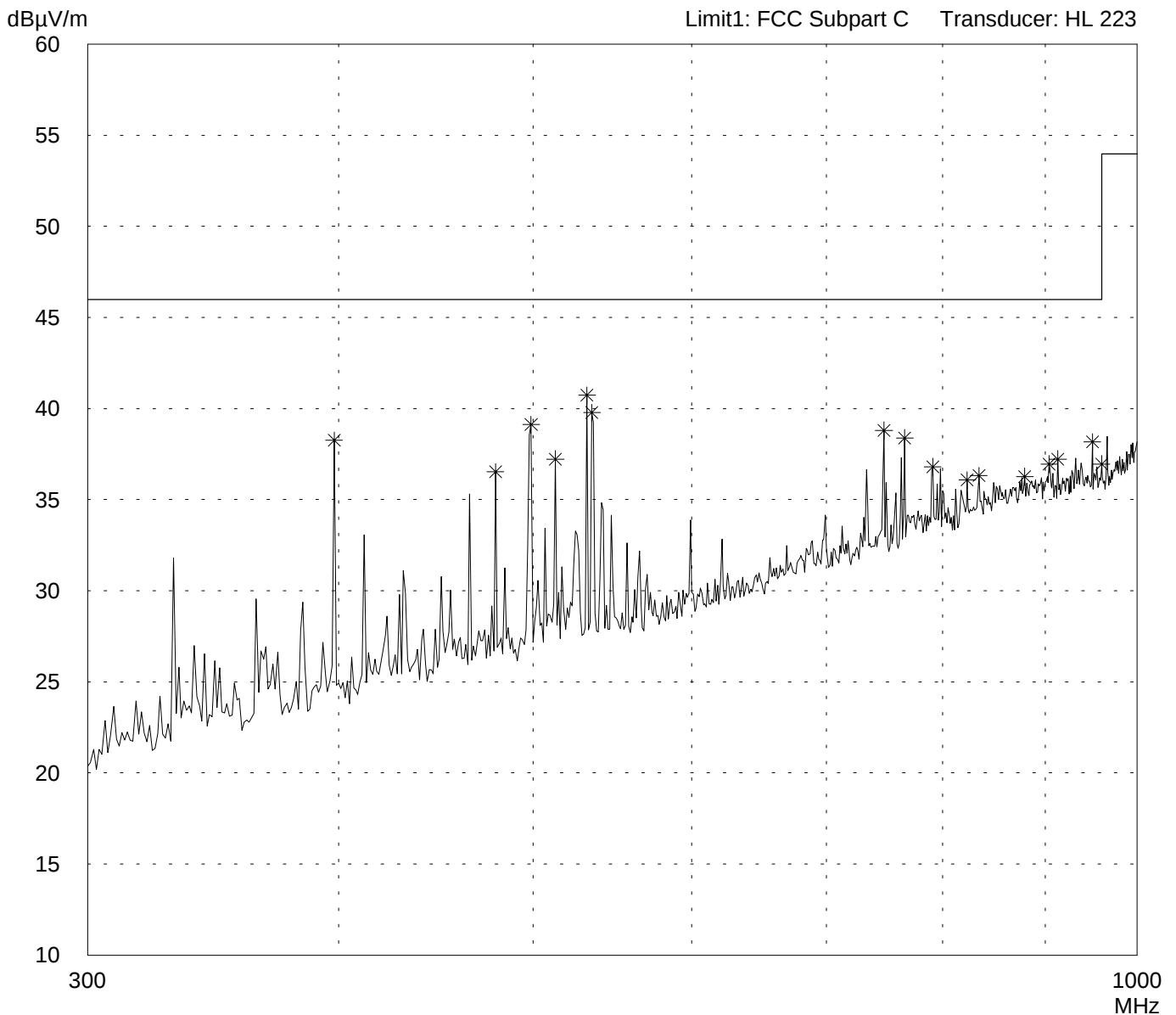
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999 Operator:
R. Heller

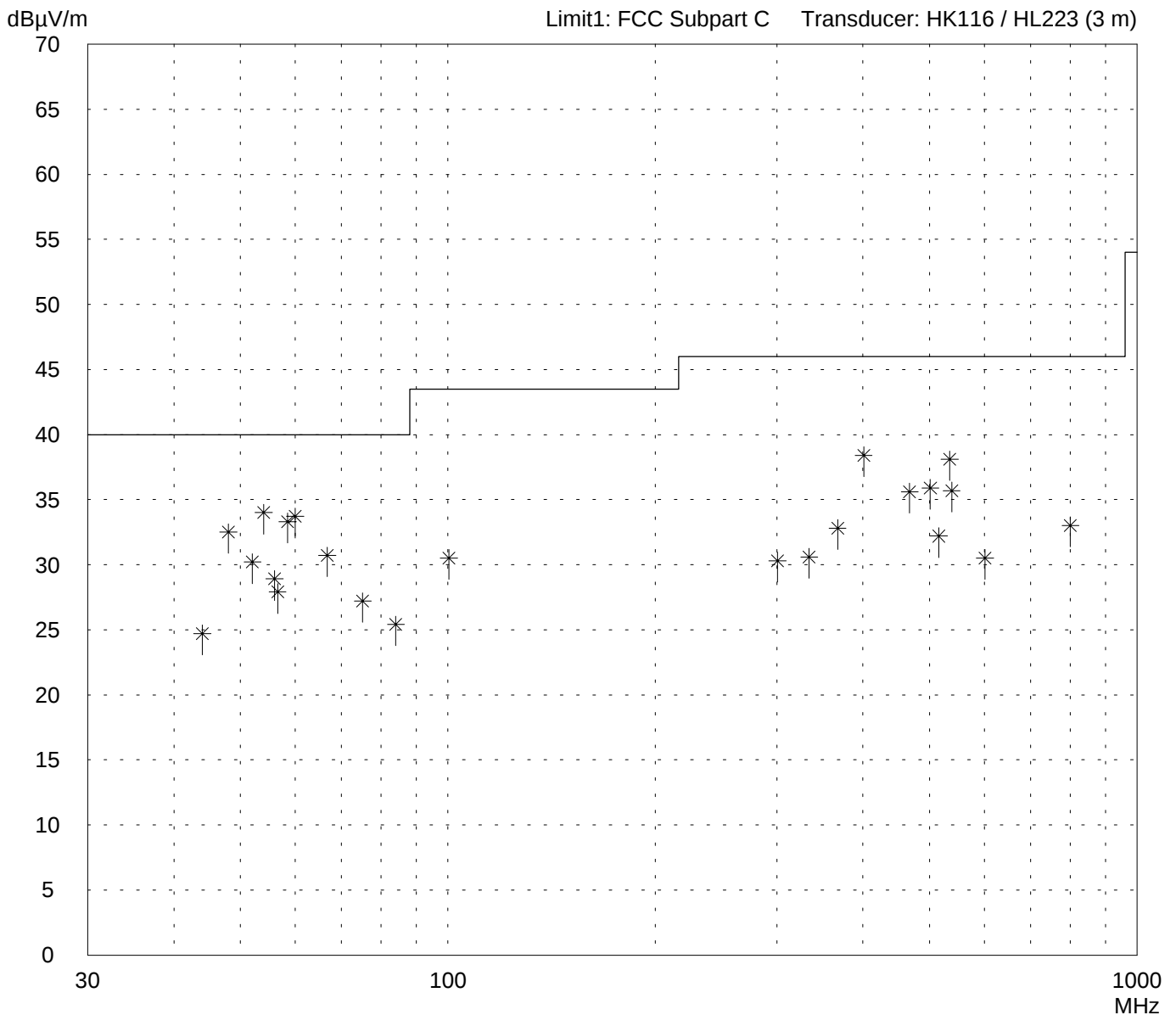
Test performed: by hand File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999 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-WA-12-A
- 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
44.0	13.0	11.7	24.7	40.0	
48.0	21.5	11.0	32.5	40.0	
52.0	19.5	10.7	30.2	40.0	
54.0	23.5	10.5	34.0	40.0	
56.0	18.5	10.4	28.9	40.0	
56.6	17.5	10.4	27.9	40.0	
58.5	23.0	10.3	33.3	40.0	
60.0	23.5	10.2	33.7	40.0	
66.8	20.5	10.2	30.7	40.0	
75.2	17.0	10.2	27.2	40.0	
84.0	15.0	10.4	25.4	40.0	
100.3	19.0	11.5	30.5	43.5	
300.7	13.5	16.8	30.3	46.0	
334.1	12.5	18.1	30.6	46.0	
367.5	13.5	19.3	32.8	46.0	
400.9	18.0	20.4	38.4	46.0	
467.7	13.5	22.1	35.6	46.0	
501.2	13.0	22.9	35.9	46.0	
515.5	9.0	23.2	32.2	46.0	
534.6	14.5	23.6	38.1	46.0	
538.1	12.0	23.7	35.7	46.0	
601.4	5.5	25.0	30.5	46.0	
800.0	4.5	28.5	33.0	46.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/18/1999
Operator: R. Heller

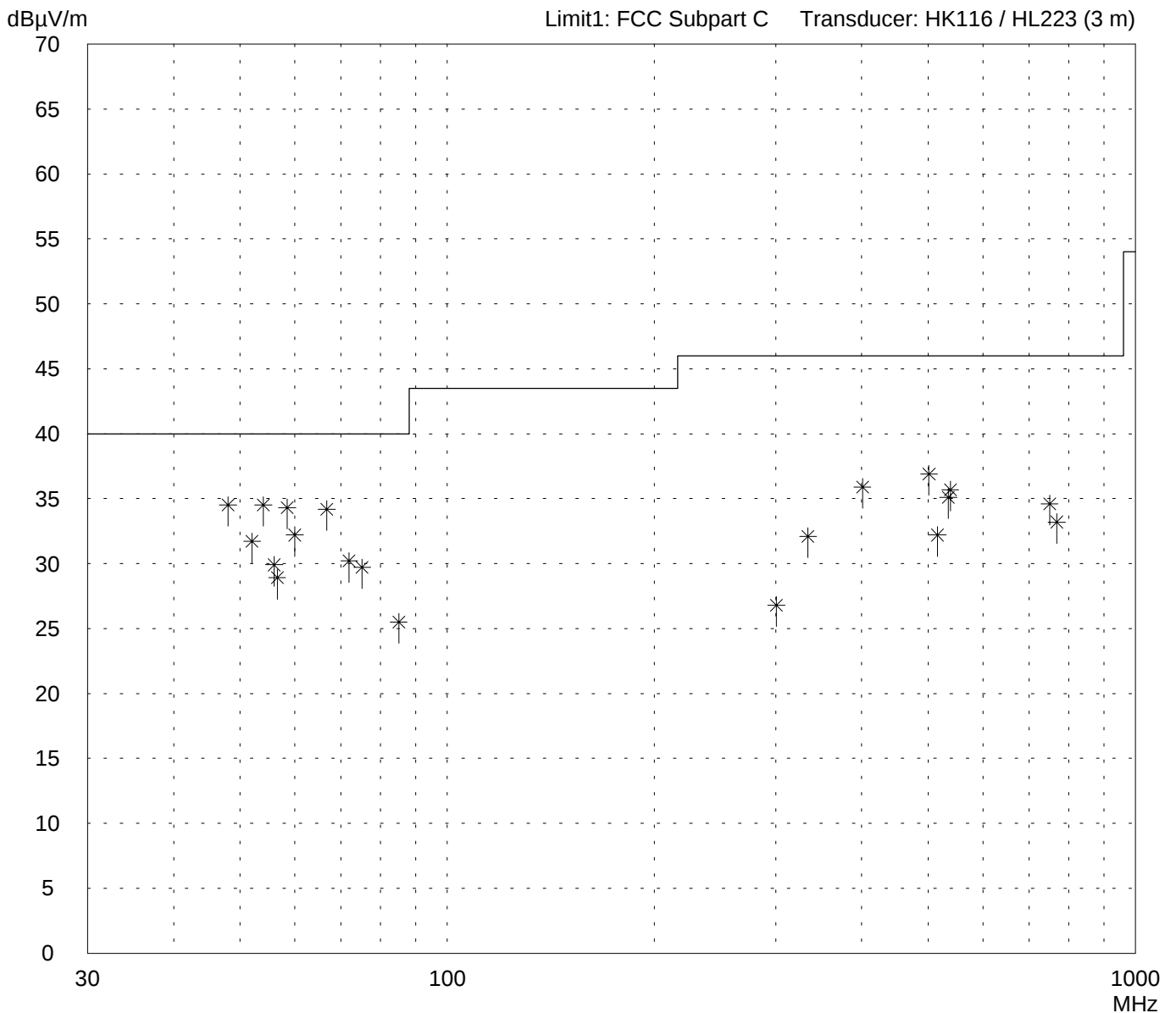
Test performed: by hand
File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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	23.5	11.0	34.5	40.0	
52.0	21.0	10.7	31.7	40.0	
54.0	24.0	10.5	34.5	40.0	
56.0	19.5	10.4	29.9	40.0	
56.6	18.5	10.4	28.9	40.0	
58.5	24.0	10.3	34.3	40.0	
60.0	22.0	10.2	32.2	40.0	
66.8	24.0	10.2	34.2	40.0	
72.0	20.0	10.2	30.2	40.0	
75.2	19.5	10.2	29.7	40.0	
85.0	15.0	10.5	25.5	40.0	
300.7	10.0	16.8	26.8	46.0	
334.1	14.0	18.1	32.1	46.0	
400.9	15.5	20.4	35.9	46.0	
501.2	14.0	22.9	36.9	46.0	
515.5	9.0	23.2	32.2	46.0	
534.6	11.5	23.6	35.1	46.0	
538.1	12.0	23.7	35.7	46.0	
750.0	6.5	28.1	34.6	46.0	
768.5	5.0	28.2	33.2	46.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

Detector:
Peak

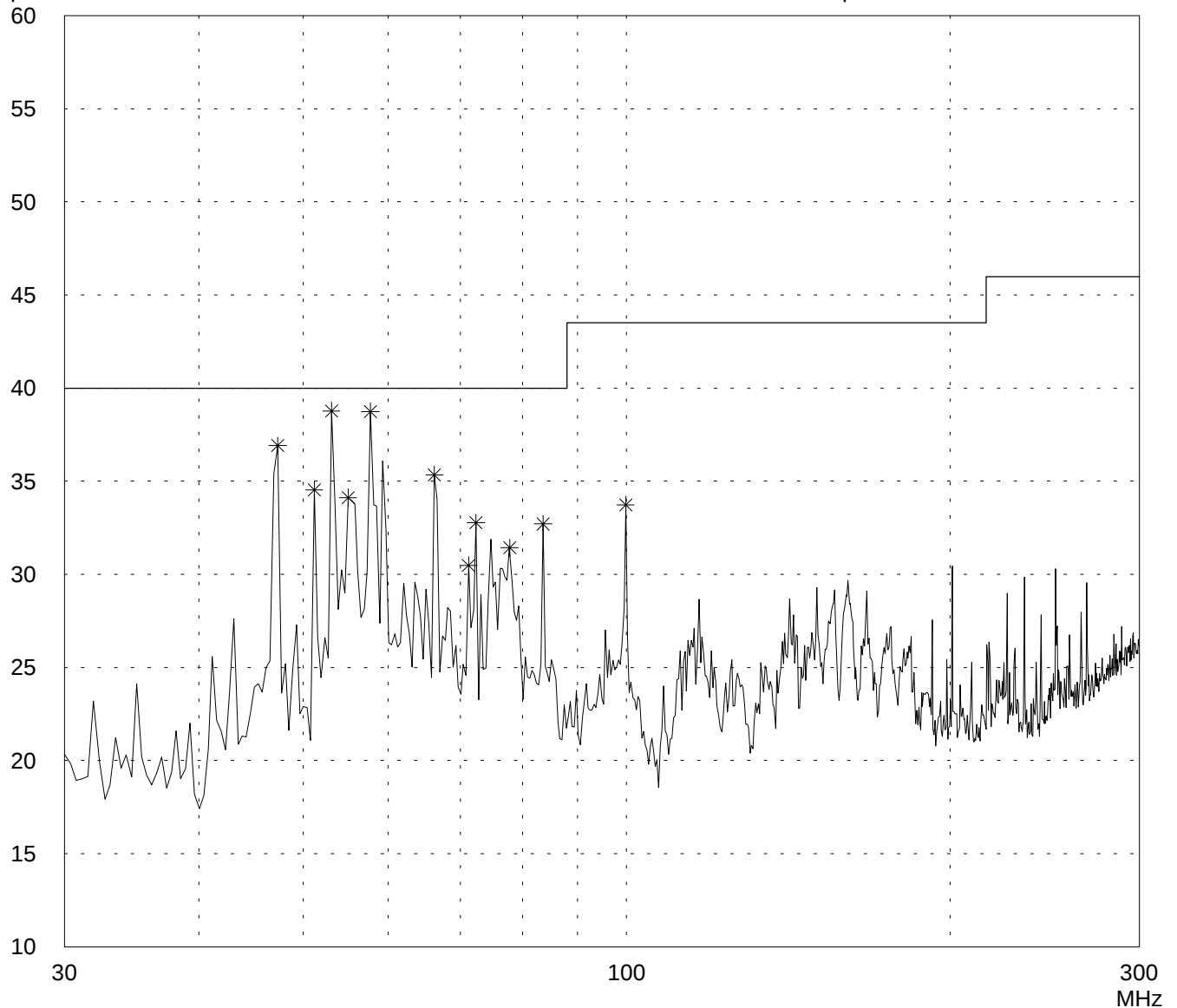
List of values:

10 dB Margin

50 Subranges

$\text{dB}\mu\text{V/m}$

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

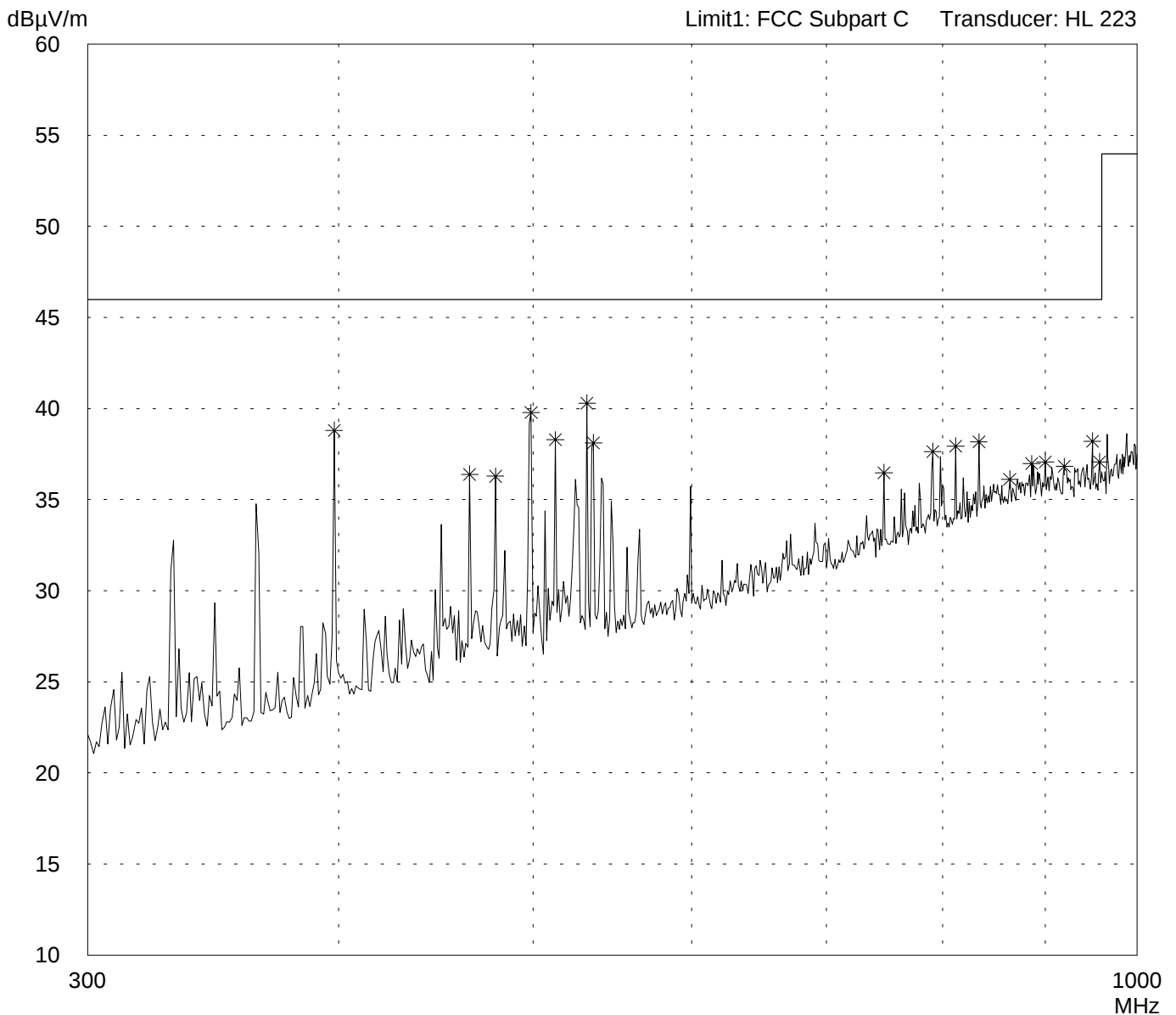
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

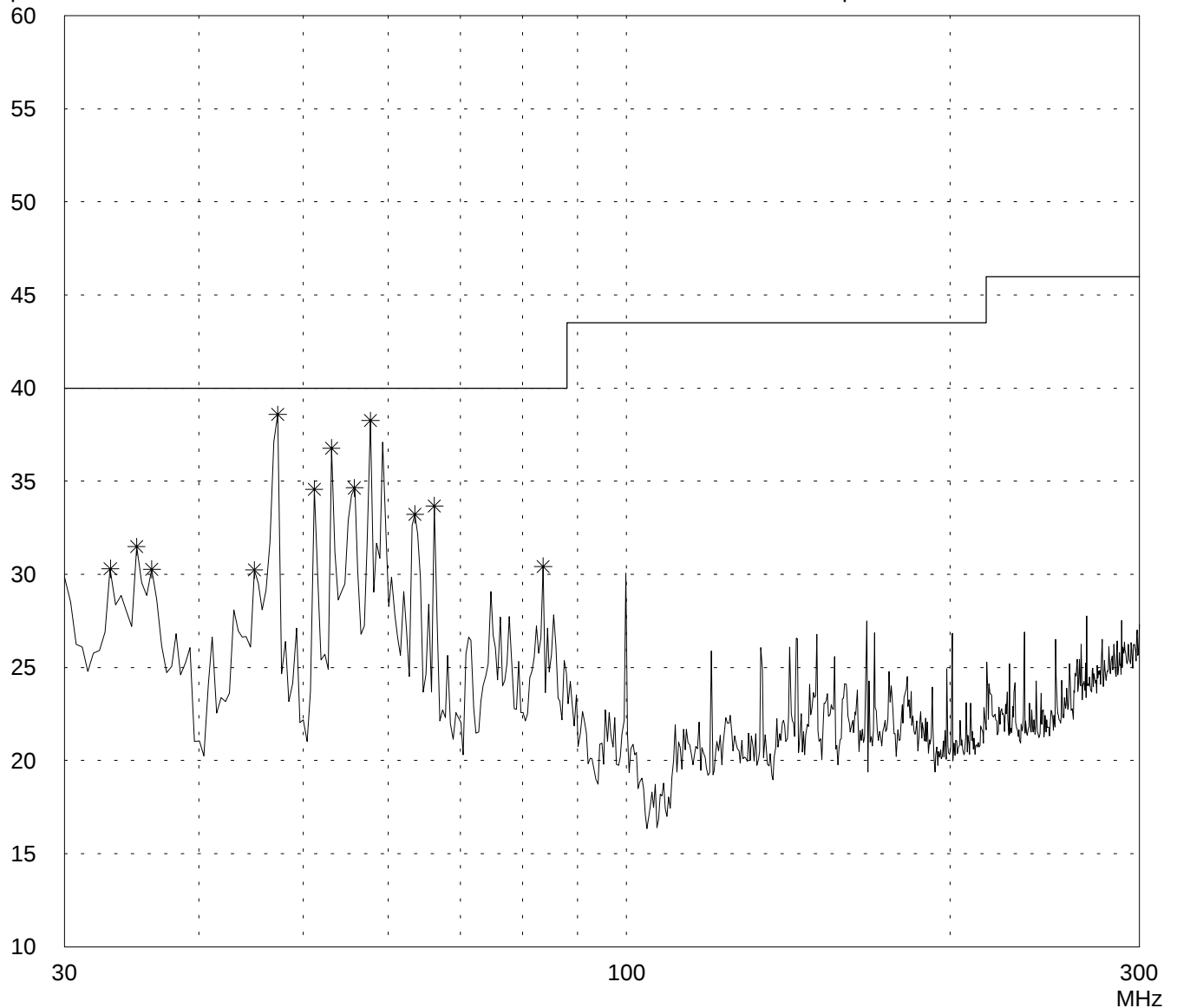
- TX mode with $f = 2.442$ GHz

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

dB μ V/m

Limit1: FCC Subpart C Transducer: HK 116



Result:
Prescan

Project file:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

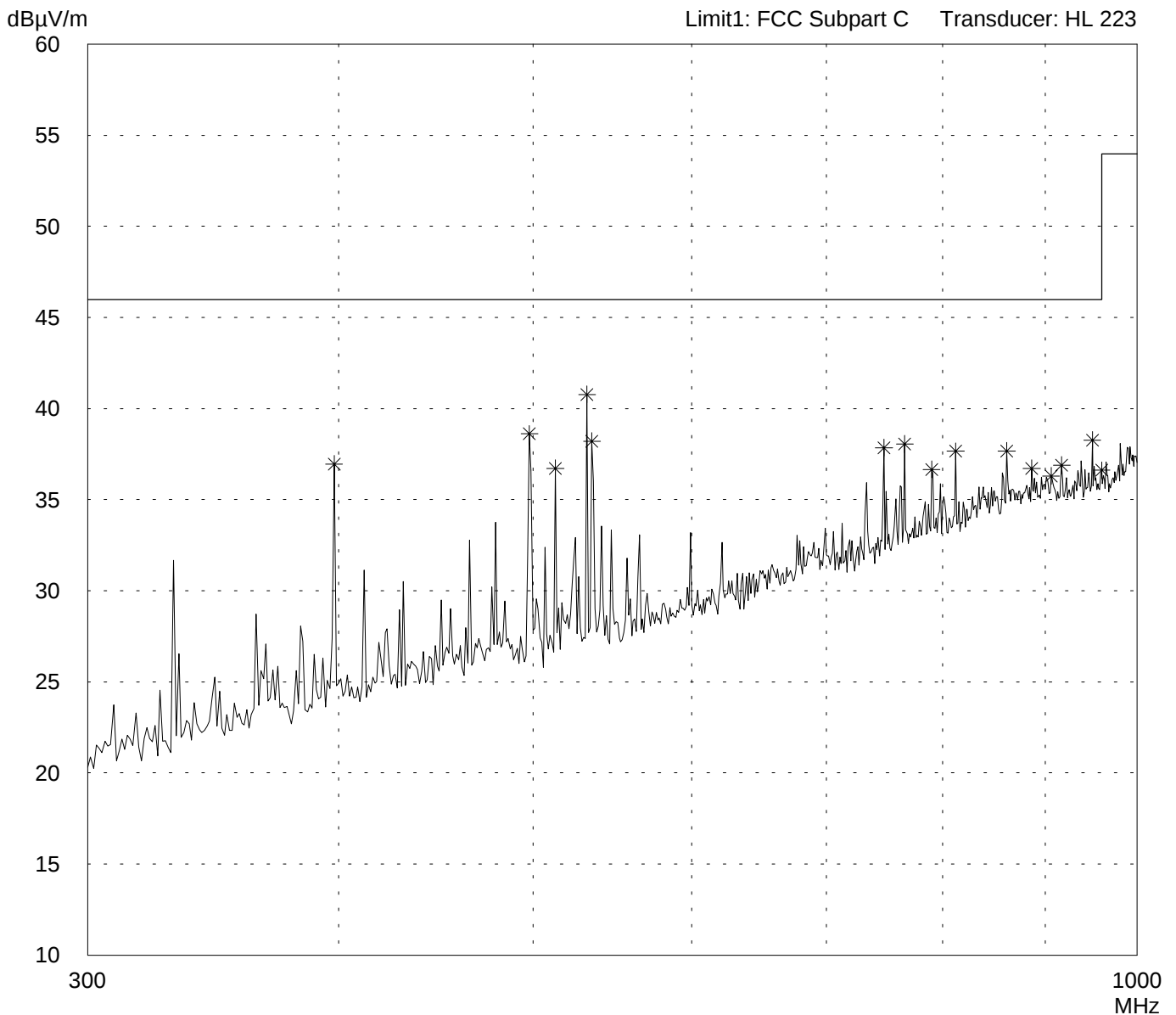
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999 Operator:
R. Heller

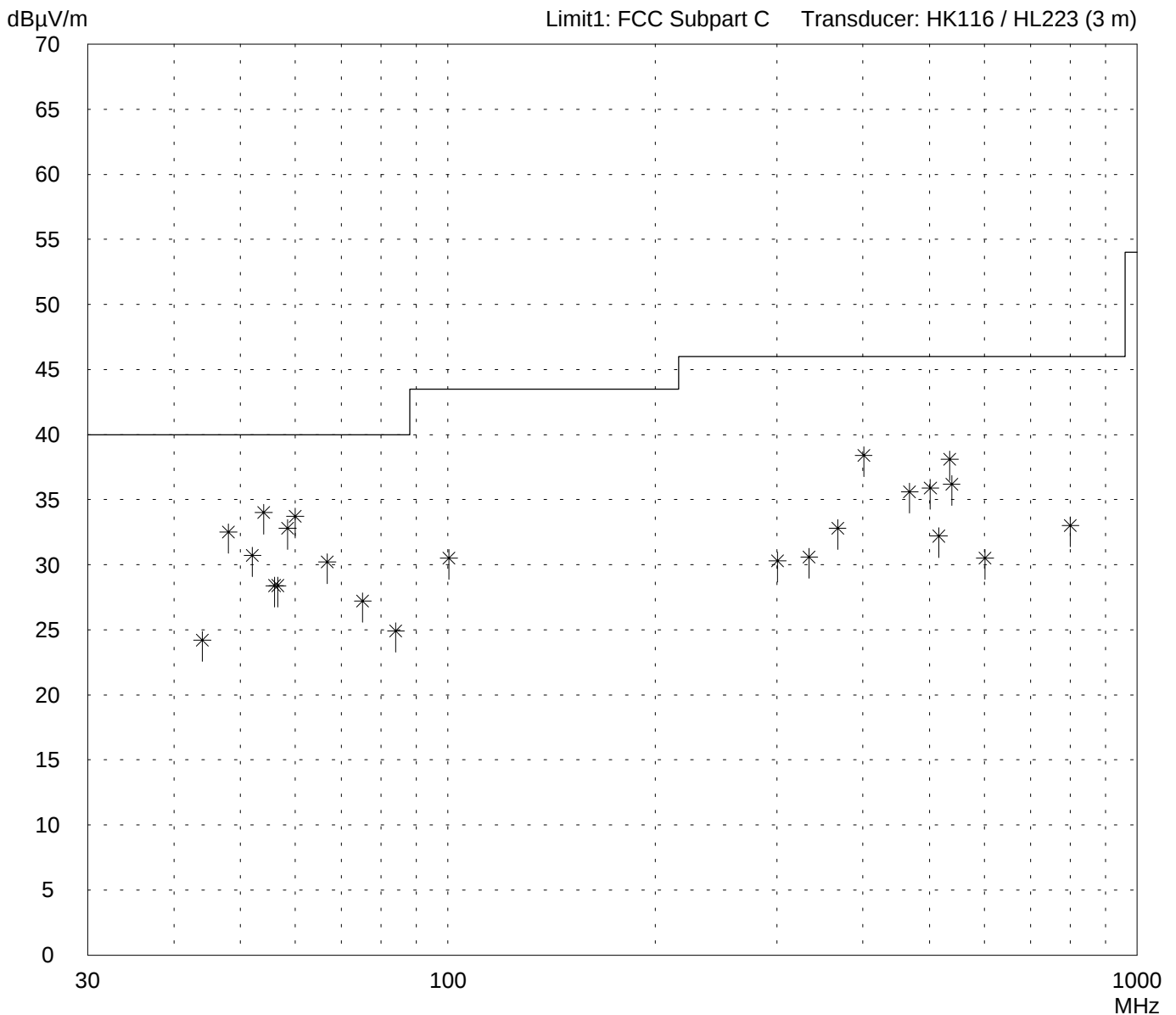
Test performed: by hand File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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

Frequency MHz	Reading dB μ V	Correction factor dB	Value dB μ V/m	Limit dB μ V/m	Limit exceeded
44.0	12.5	11.7	24.2	40.0	
48.0	21.5	11.0	32.5	40.0	
52.0	20.0	10.7	30.7	40.0	
54.0	23.5	10.5	34.0	40.0	
56.0	18.0	10.4	28.4	40.0	
56.6	18.0	10.4	28.4	40.0	
58.5	22.5	10.3	32.8	40.0	
60.0	23.5	10.2	33.7	40.0	
66.8	20.0	10.2	30.2	40.0	
75.2	17.0	10.2	27.2	40.0	
84.0	14.5	10.4	24.9	40.0	
100.3	19.0	11.5	30.5	43.5	
300.7	13.5	16.8	30.3	46.0	
334.1	12.5	18.1	30.6	46.0	
367.5	13.5	19.3	32.8	46.0	
400.9	18.0	20.4	38.4	46.0	
467.7	13.5	22.1	35.6	46.0	
501.2	13.0	22.9	35.9	46.0	
515.5	9.0	23.2	32.2	46.0	
534.6	14.5	23.6	38.1	46.0	
538.1	12.5	23.7	36.2	46.0	
601.4	5.5	25.0	30.5	46.0	
800.0	4.5	28.5	33.0	46.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/18/1999
Operator: R. Heller

Test performed: by hand
File name:

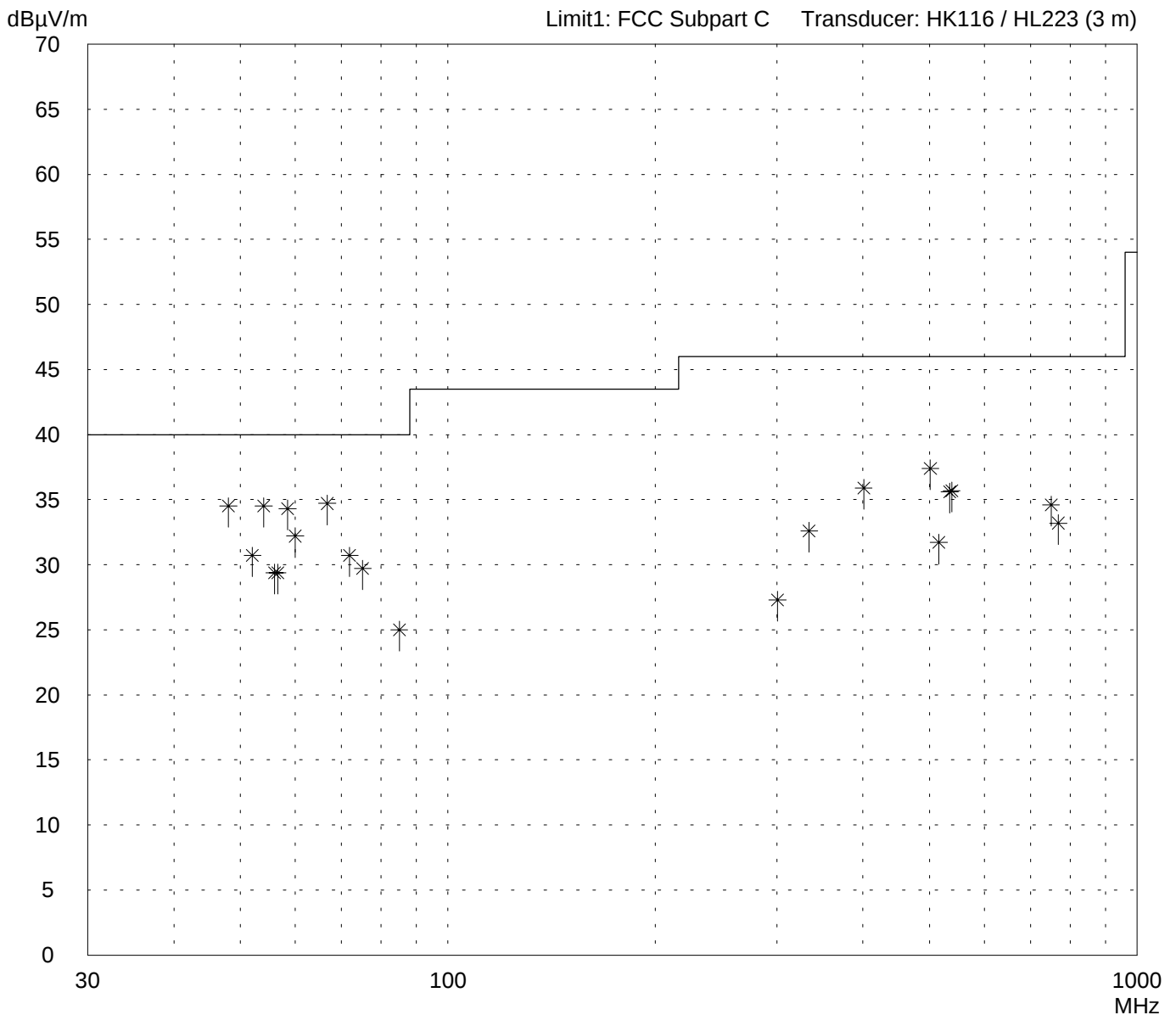
Mode:
- RF-modem PC24E-H-FC mounted in AT & T
Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- 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:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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	23.5	11.0	34.5	40.0	
52.0	20.0	10.7	30.7	40.0	
54.0	24.0	10.5	34.5	40.0	
56.0	19.0	10.4	29.4	40.0	
56.6	19.0	10.4	29.4	40.0	
58.5	24.0	10.3	34.3	40.0	
60.0	22.0	10.2	32.2	40.0	
66.8	24.5	10.2	34.7	40.0	
72.0	20.5	10.2	30.7	40.0	
75.2	19.5	10.2	29.7	40.0	
85.0	14.5	10.5	25.0	40.0	
300.7	10.5	16.8	27.3	46.0	
334.1	14.5	18.1	32.6	46.0	
400.9	15.5	20.4	35.9	46.0	
501.2	14.5	22.9	37.4	46.0	
515.5	8.5	23.2	31.7	46.0	
534.6	12.0	23.6	35.6	46.0	
538.1	12.0	23.7	35.7	46.0	
750.0	6.5	28.1	34.6	46.0	
768.5	5.0	28.2	33.2	46.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

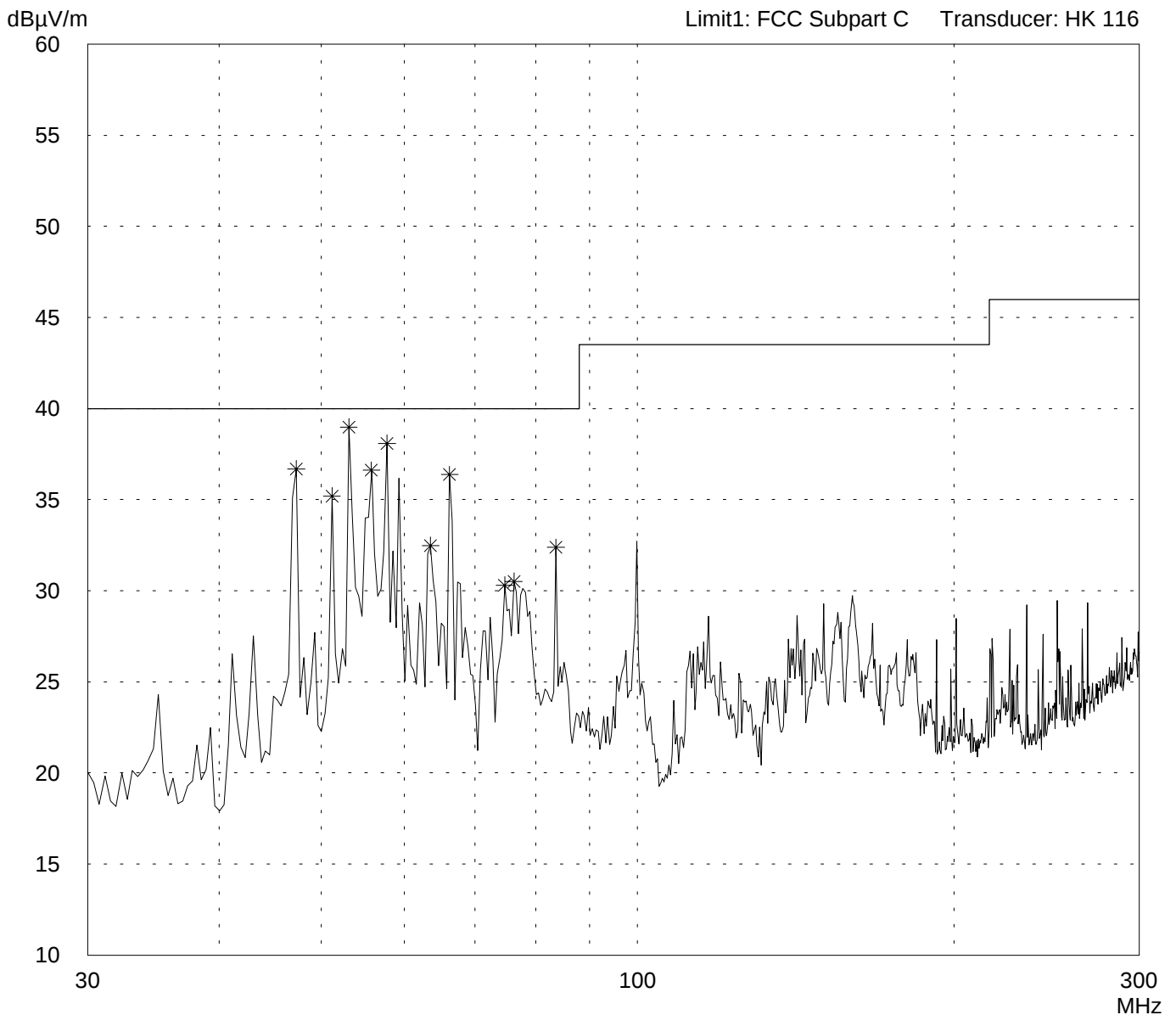
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

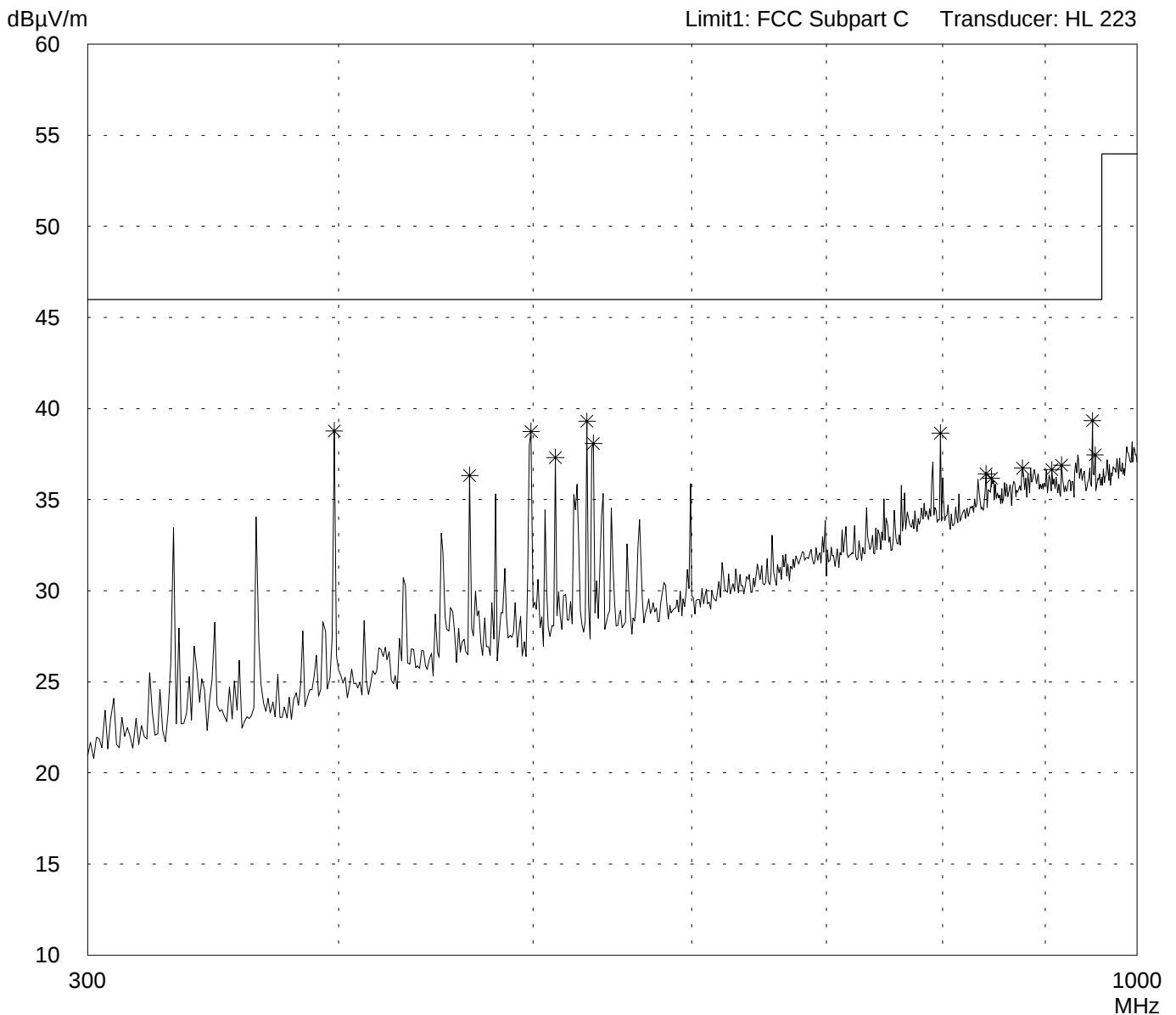
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

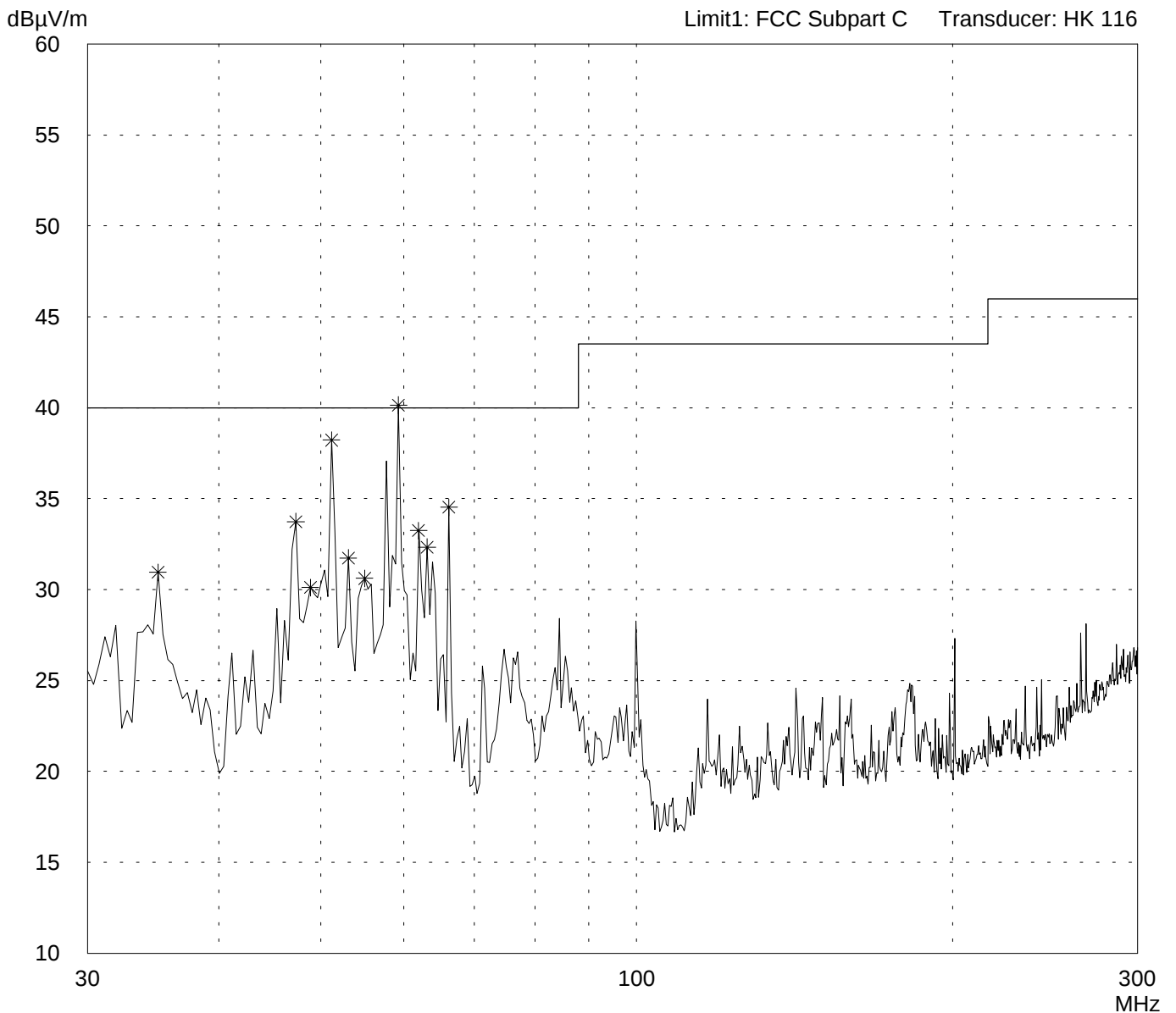
Test performed: automatically File name:

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-WA-12-A
- 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:
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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: 11/17/1999 Operator: R. Heller

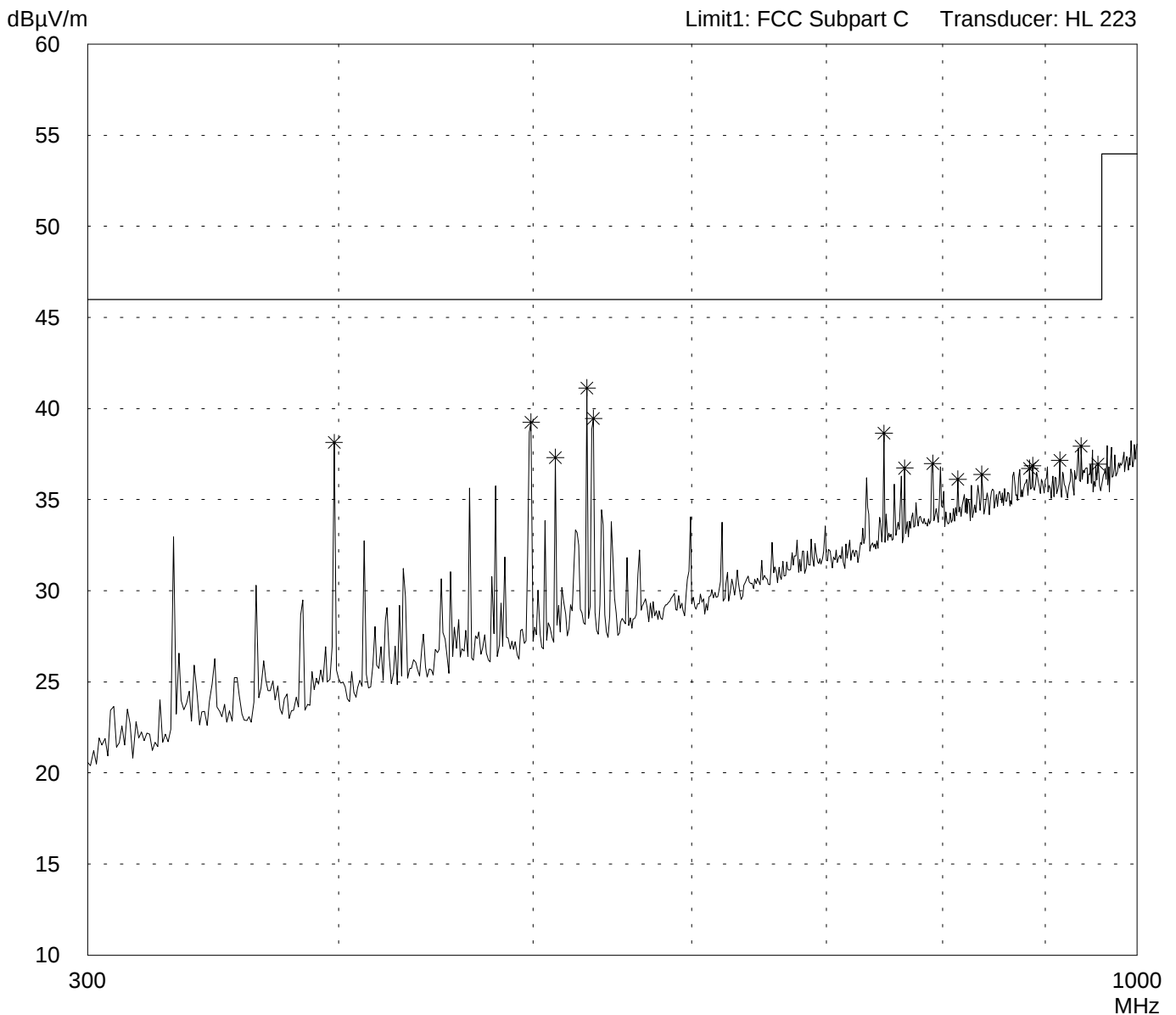
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999
Operator: R. Heller

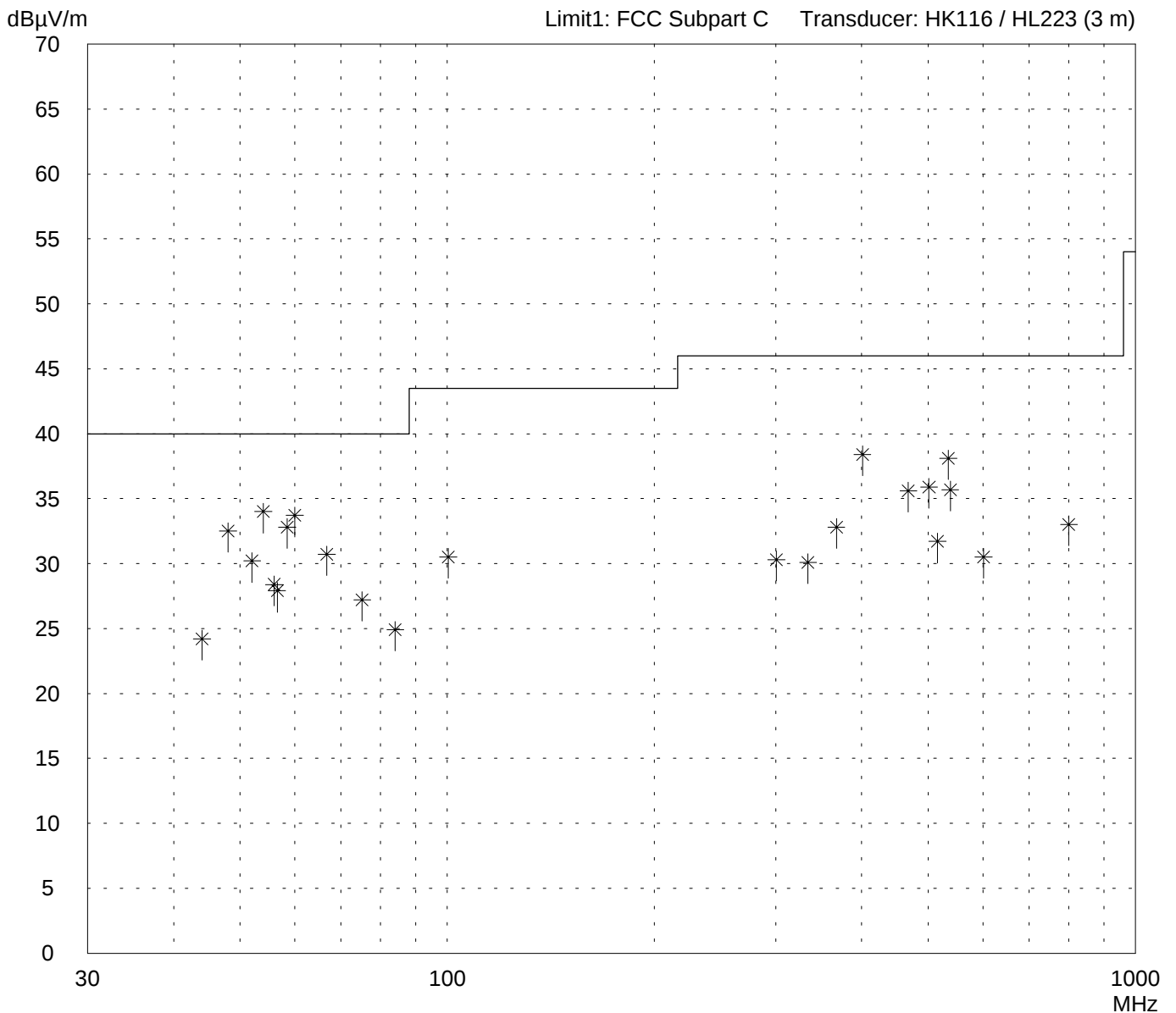
Test performed: by hand
File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999 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-WA-12-A
- 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
44.0	12.5	11.7	24.2	40.0	
48.0	21.5	11.0	32.5	40.0	
52.0	19.5	10.7	30.2	40.0	
54.0	23.5	10.5	34.0	40.0	
56.0	18.0	10.4	28.4	40.0	
56.6	17.5	10.4	27.9	40.0	
58.5	22.5	10.3	32.8	40.0	
60.0	23.5	10.2	33.7	40.0	
66.8	20.5	10.2	30.7	40.0	
75.2	17.0	10.2	27.2	40.0	
84.0	14.5	10.4	24.9	40.0	
100.3	19.0	11.5	30.5	43.5	
300.7	13.5	16.8	30.3	46.0	
334.1	12.0	18.1	30.1	46.0	
367.5	13.5	19.3	32.8	46.0	
400.9	18.0	20.4	38.4	46.0	
467.7	13.5	22.1	35.6	46.0	
501.2	13.0	22.9	35.9	46.0	
515.5	8.5	23.2	31.7	46.0	
534.6	14.5	23.6	38.1	46.0	
538.1	12.0	23.7	35.7	46.0	
601.4	5.5	25.0	30.5	46.0	
800.0	4.5	28.5	33.0	46.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/18/1999
Operator: R. Heller

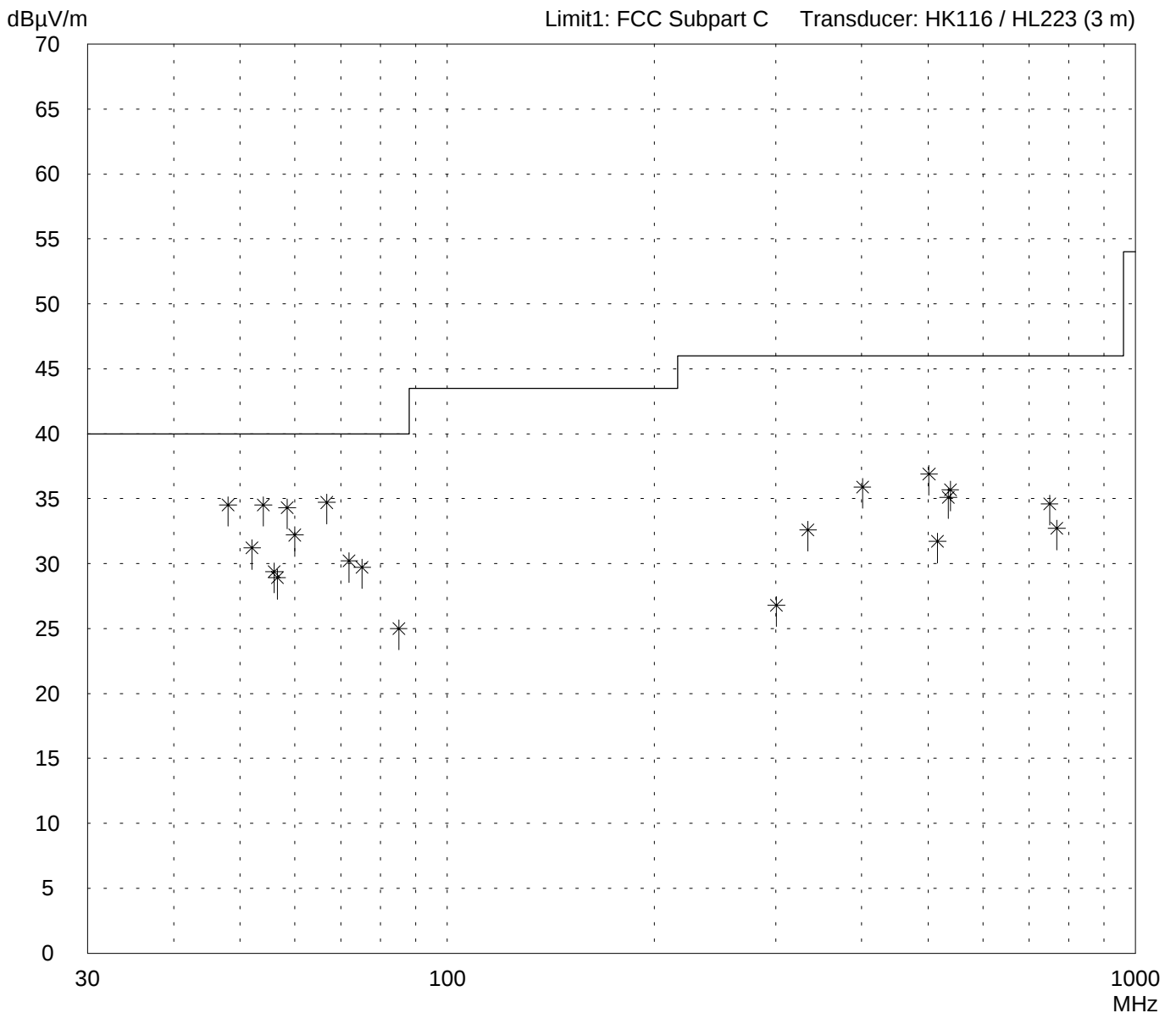
Test performed: by hand
File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999 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-WA-12-A
- 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

<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	23.5	11.0	34.5	40.0	
52.0	20.5	10.7	31.2	40.0	
54.0	24.0	10.5	34.5	40.0	
56.0	19.0	10.4	29.4	40.0	
56.6	18.5	10.4	28.9	40.0	
58.5	24.0	10.3	34.3	40.0	
60.0	22.0	10.2	32.2	40.0	
66.8	24.5	10.2	34.7	40.0	
72.0	20.0	10.2	30.2	40.0	
75.2	19.5	10.2	29.7	40.0	
85.0	14.5	10.5	25.0	40.0	
300.7	10.0	16.8	26.8	46.0	
334.1	14.5	18.1	32.6	46.0	
400.9	15.5	20.4	35.9	46.0	
501.2	14.0	22.9	36.9	46.0	
515.5	8.5	23.2	31.7	46.0	
534.6	11.5	23.6	35.1	46.0	
538.1	12.0	23.7	35.7	46.0	
750.0	6.5	28.1	34.6	46.0	
768.5	4.5	28.2	32.7	46.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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	57.9		0.6	20.7	57.9	74
2.3982	vertical	73.7		0.6	20.7	73.7	NRB
2.4000	vertical	72.5		0.6	20.7	72.5	NRB
2.4016	vertical	72.8		0.6	20.7	72.8	OB
2.4116	vertical	111.2		0.6	20.7	111.2	OB
2.4236	vertical	73.9		0.6	20.7	73.9	OB
2.7650	vertical	43.0		0.6	23.7	43.0	74
3.6080	horizontal	43.7		0.7	23.8	43.7	74
4.8303	vertical	38.8	-95.8		27.3	38.4	74
7.2391	horizontal	42.5	-93.2		29.9	43.7	NRB
9.6467	horizontal	46.5	-93.0		33.4	47.4	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

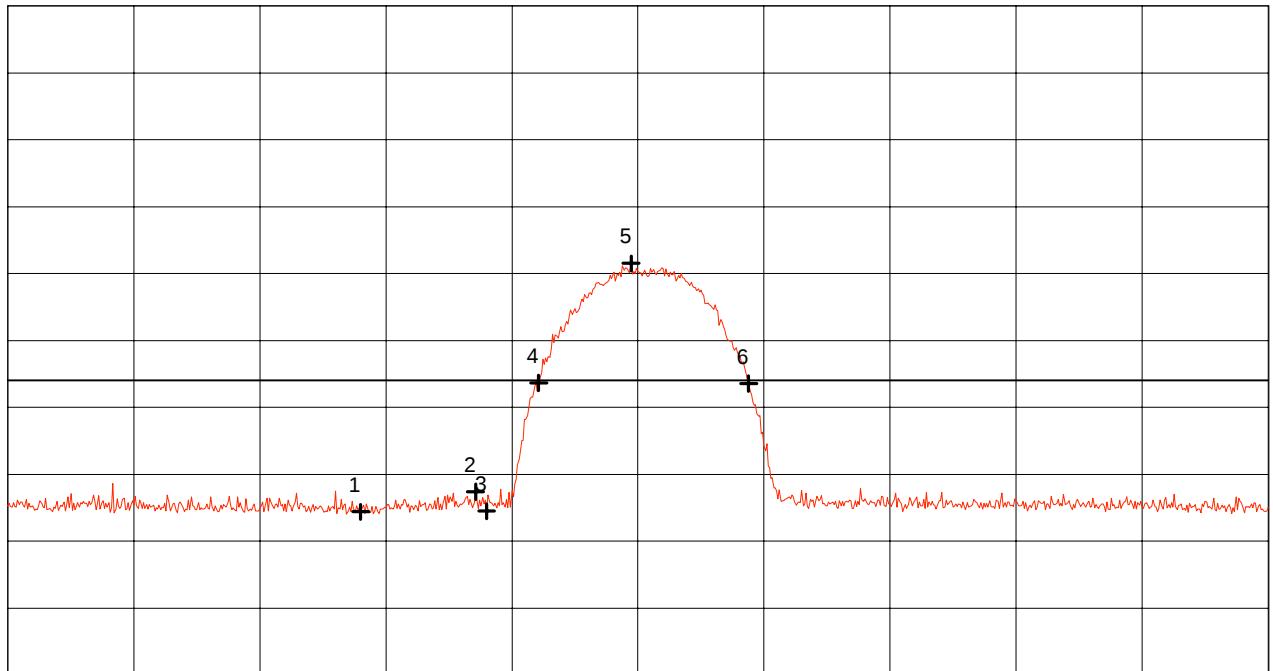
Test distance: 3 meters

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.1	2.390000 GHz	54.39 dB μ V/m
Nr.2	2.399111 GHz	57.39 dB μ V/m
Nr.3	2.400000 GHz	54.47 dB μ V/m
Nr.4	2.404111 GHz	73.66 dB μ V/m
Nr.5	2.411444 GHz	91.54 dB μ V/m
Nr.6	2.420778 GHz	73.56 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

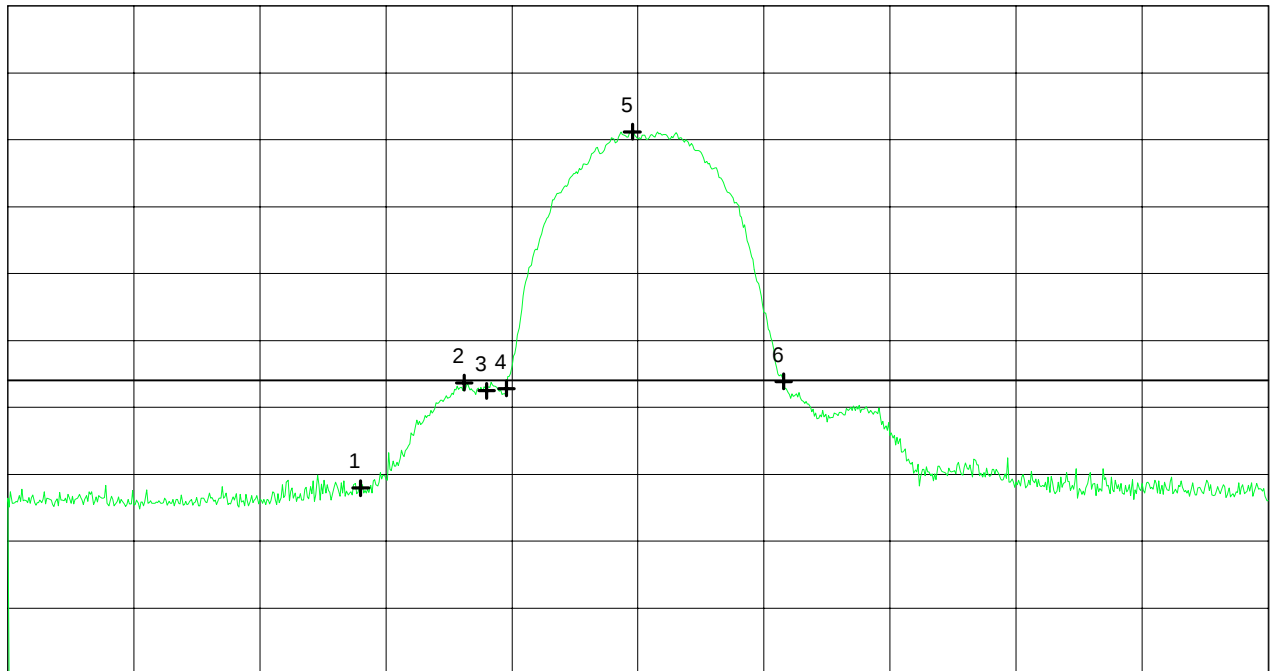
Test distance: 3 meters

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	57.92 dB μ V/m
Nr.2	2.398222 GHz	73.69 dB μ V/m
Nr.3	2.400000 GHz	72.47 dB μ V/m
Nr.4	2.401556 GHz	72.80 dB μ V/m
Nr.5	2.411556 GHz	111.20 dB μ V/m
Nr.6	2.423556 GHz	73.87 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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	46.2		0.6	20.7	46.2	54
2.3938	vertical	53.5		0.6	20.7	53.5	NRB
2.3992	vertical	64.0		0.6	20.7	64.0	NRB
2.4000	vertical	63.1		0.6	20.7	63.1	NRB
2.4136	vertical	105.0		0.6	20.7	105.0	OB
2.4319	vertical	53.9		0.6	20.7	53.9	OB
4.8240	vertical	35.5	-98.9		27.3	35.4	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 105.0 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

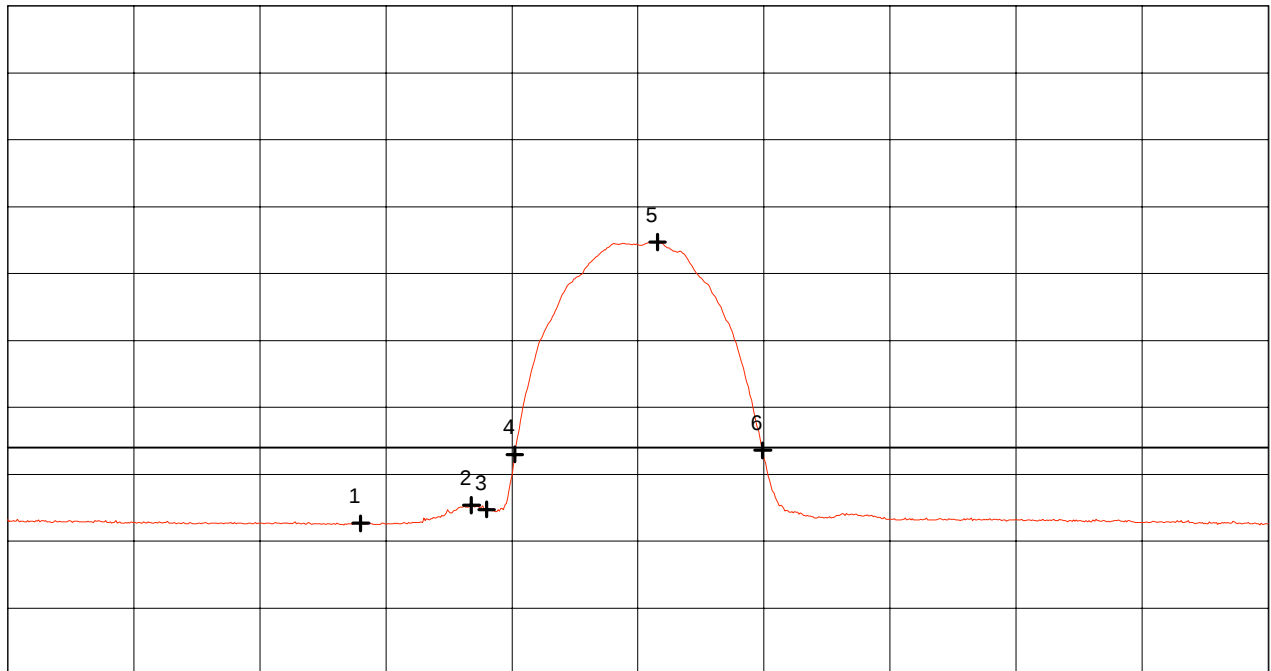
Test distance: 3 meters

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.1	2.390000 GHz	42.66 dB μ V/m
Nr.2	2.398778 GHz	45.38 dB μ V/m
Nr.3	2.400000 GHz	44.72 dB μ V/m
Nr.4	2.402222 GHz	52.97 dB μ V/m
Nr.5	2.413556 GHz	84.72 dB μ V/m
Nr.6	2.421889 GHz	53.58 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

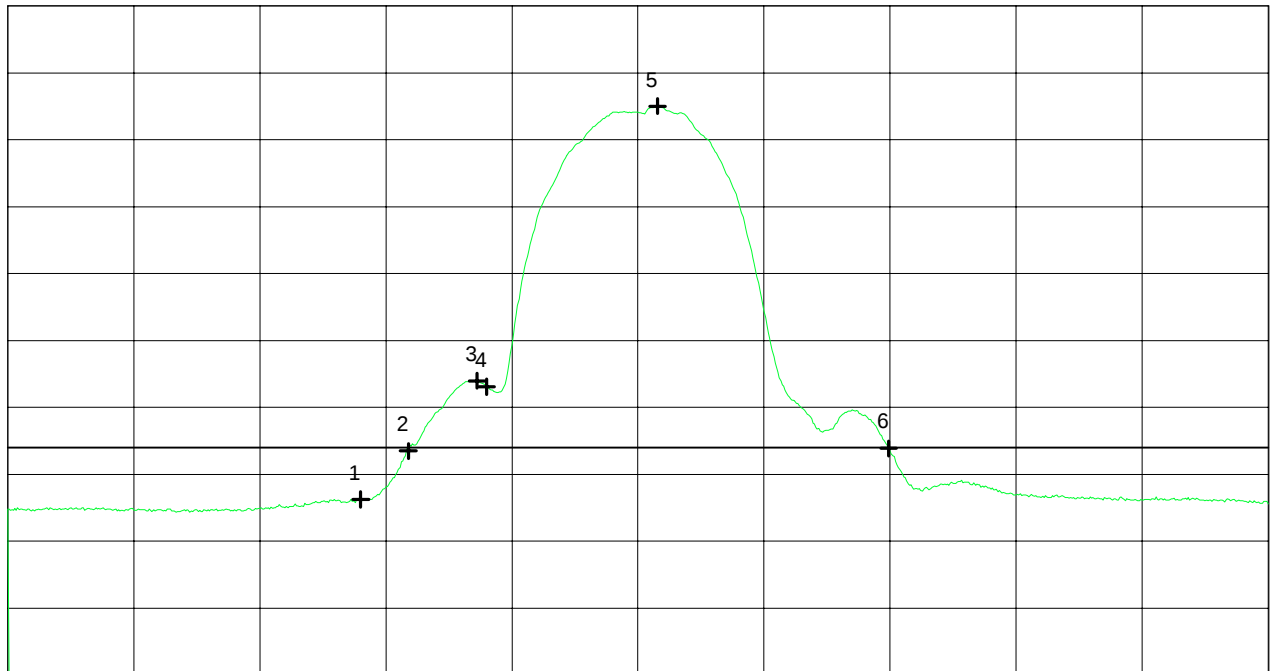
Test distance: 3 meters

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	46.24 dB μ V/m
Nr.2	2.393778 GHz	53.48 dB μ V/m
Nr.3	2.399222 GHz	63.99 dB μ V/m
Nr.4	2.400000 GHz	63.08 dB μ V/m
Nr.5	2.413556 GHz	105.03 dB μ V/m
Nr.6	2.431889 GHz	53.86 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
 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-WA-12-A
 - 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 [dB μ V]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.3900	vertical	58.9		0.6	20.7	58.9	74
2.3979	vertical	72.1		0.6	20.7	72.1	NRB
2.4000	vertical	70.4		0.6	20.7	70.4	NRB
2.4019	vertical	73.8		0.6	20.7	73.8	OB
2.4142	vertical	109.0		0.6	20.7	109.0	OB
2.4234	vertical	73.9		0.6	20.7	73.9	OB

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 109.0 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

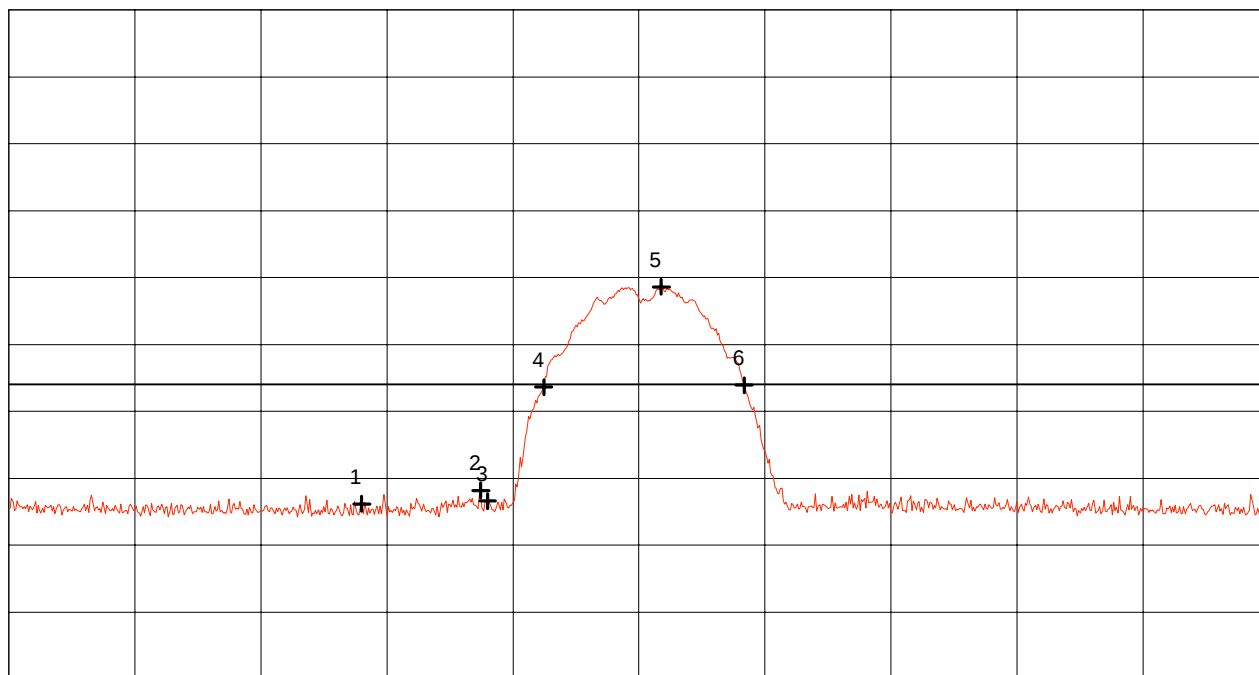
Test distance: 3 meters

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	56.19 dB μ V/m
Nr.2	2.399444 GHz	58.20 dB μ V/m
Nr.3	2.400000 GHz	56.60 dB μ V/m
Nr.4	2.404444 GHz	73.64 dB μ V/m
Nr.5	2.413778 GHz	88.60 dB μ V/m
Nr.6	2.420333 GHz	73.92 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

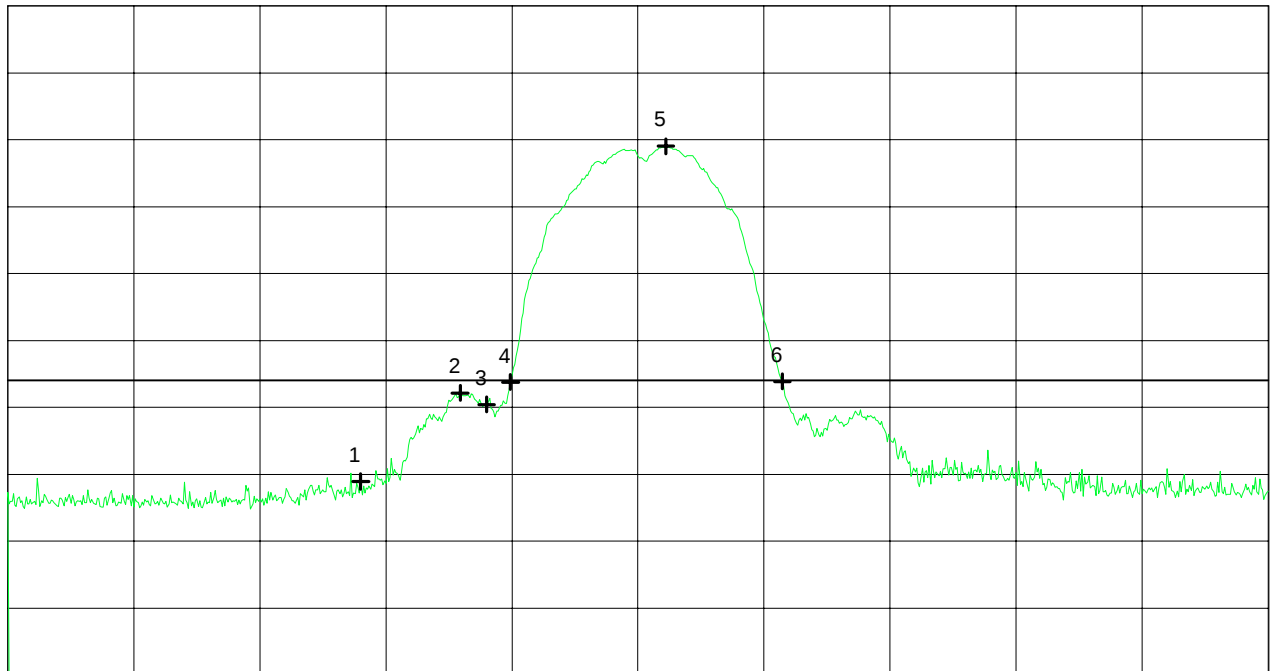
Test distance: 3 meters

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	58.91 dB μ V/m
Nr.2	2.397889 GHz	72.14 dB μ V/m
Nr.3	2.400000 GHz	70.41 dB μ V/m
Nr.4	2.401889 GHz	73.77 dB μ V/m
Nr.5	2.414222 GHz	109.01 dB μ V/m
Nr.6	2.423444 GHz	73.87 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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	47.0		0.6	20.7	47.0	54
2.3932	vertical	53.4		0.6	20.7	53.4	NRB
2.3983	vertical	67.3		0.6	20.7	67.3	NRB
2.4000	vertical	63.6		0.6	20.7	63.6	NRB
2.4148	vertical	105.6		0.6	20.7	105.6	OB
2.4323	vertical	53.9		0.6	20.7	53.9	OB

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 105.6 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

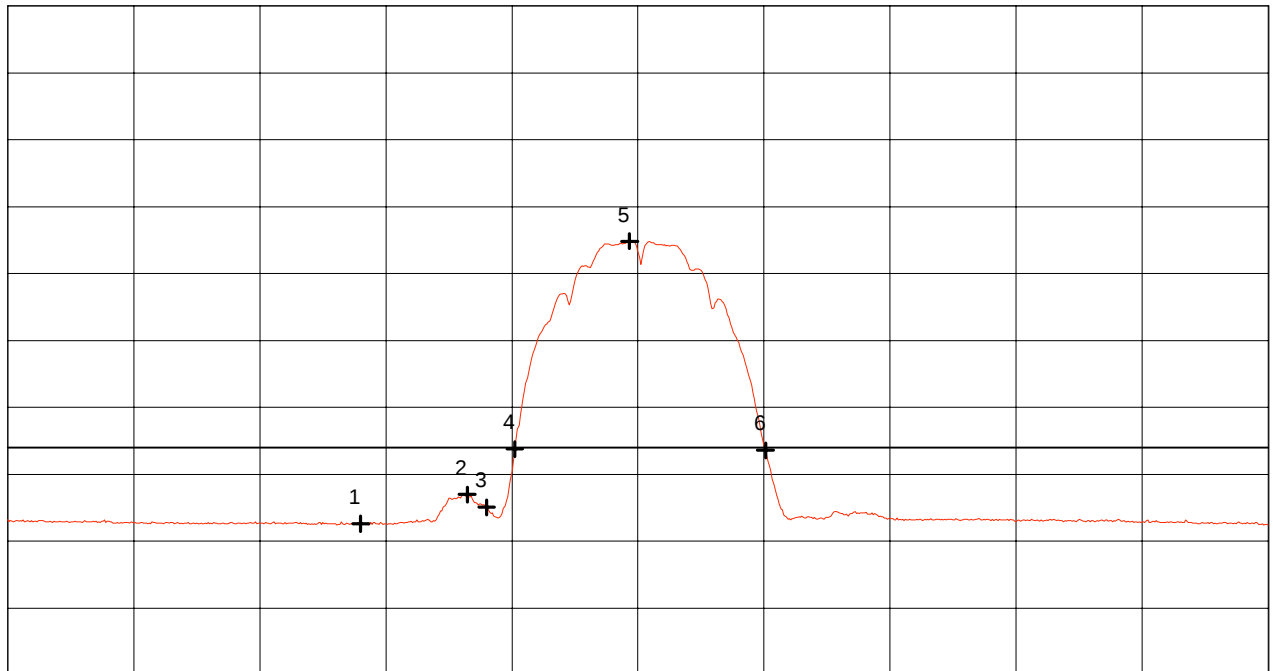
Test distance: 3 meters

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	42.61 dB μ V/m
Nr.2	2.398444 GHz	46.98 dB μ V/m
Nr.3	2.400000 GHz	45.05 dB μ V/m
Nr.4	2.402222 GHz	53.76 dB μ V/m
Nr.5	2.411333 GHz	84.82 dB μ V/m
Nr.6	2.422111 GHz	53.58 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

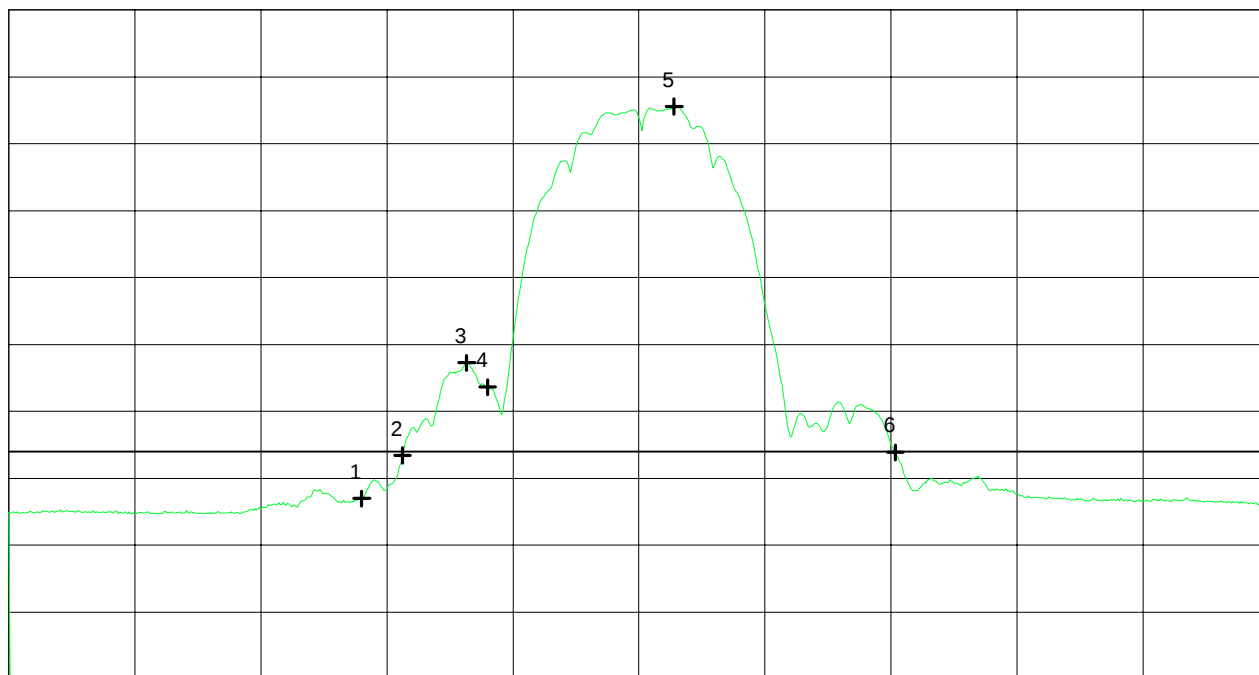
Test distance: 3 meters

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	46.95 dB μ V/m
Nr.2	2.393222 GHz	53.40 dB μ V/m
Nr.3	2.398333 GHz	67.27 dB μ V/m
Nr.4	2.400000 GHz	63.61 dB μ V/m
Nr.5	2.414778 GHz	105.56 dB μ V/m
Nr.6	2.432333 GHz	53.86 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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]
2.4319	vertical	72.8		0.6	20.7	72.8	OB
2.4414	vertical	111.7		0.6	20.7	111.7	OB
2.4530	vertical	73.4		0.6	20.7	73.4	OB
4.8894	horizontal	40.2	-94.2		27.3	40.1	74
7.3305	vertical	42.5	-94.2		29.9	42.7	74
8.3680	vertical	41.2	-98.7		33.4	41.7	74
9.7680	vertical	47.2	-92.8		33.4	47.6	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 111.7 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

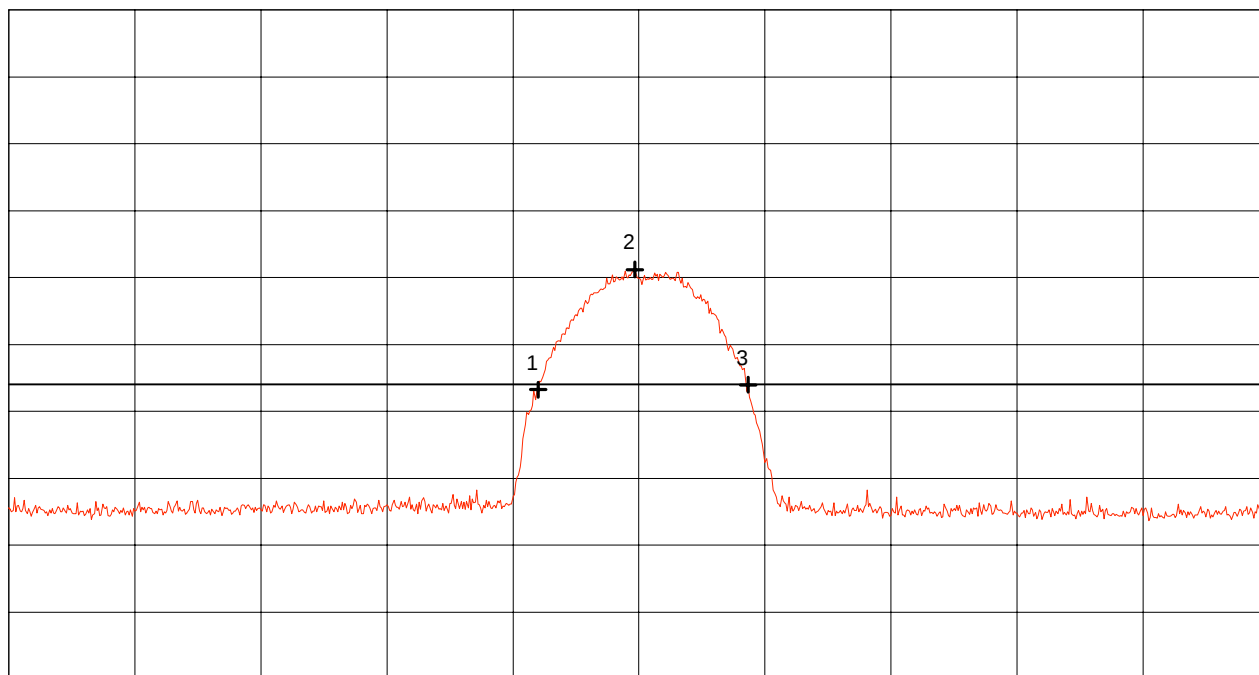
Test distance: 3 meters

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	2.434000 GHz	73.26 dB μ V/m
Nr.2	2.441667 GHz	91.21 dB μ V/m
Nr.3	2.450667 GHz	73.97 dB μ V/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

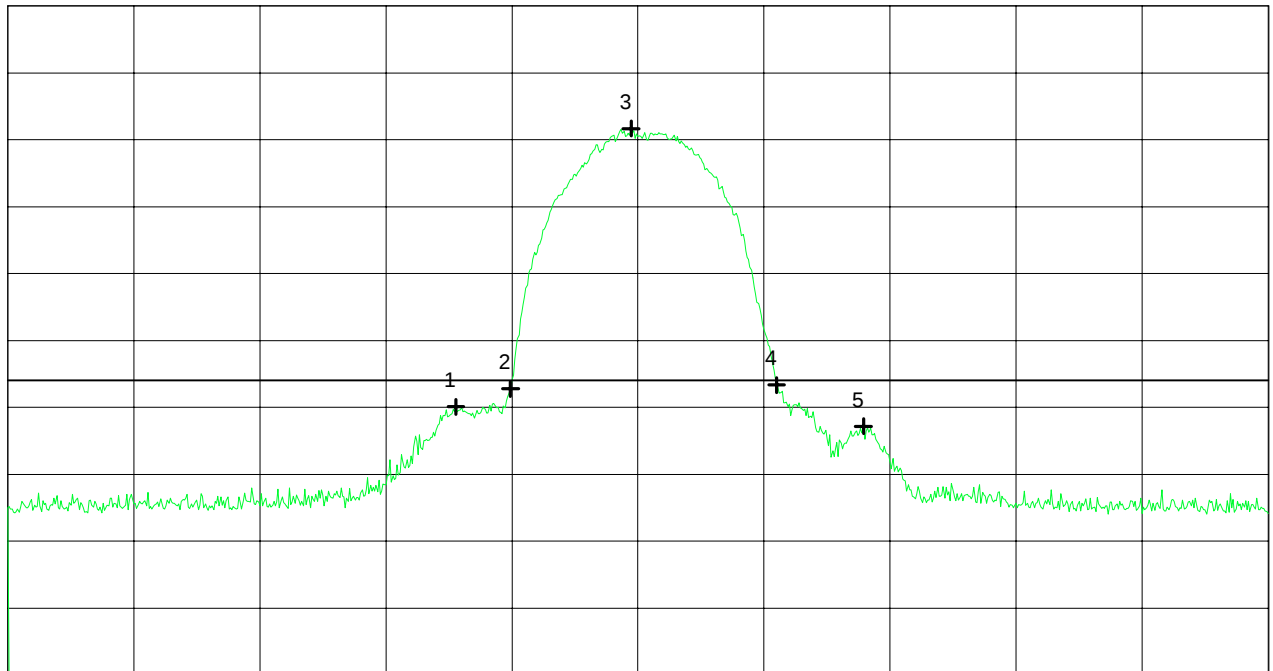
Test distance: 3 meters

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	2.427556 GHz	70.08 dB μ V/m
Nr.2	2.431889 GHz	72.75 dB μ V/m
Nr.3	2.441444 GHz	111.68 dB μ V/m
Nr.4	2.453000 GHz	73.36 dB μ V/m
Nr.5	2.459889 GHz	67.16 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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]
2.4249	vertical	53.9		0.6	20.7	53.9	OB
2.4434	vertical	105.4		0.6	20.7	105.4	OB
2.4610	vertical	53.6		0.6	20.7	53.6	OB
4.8843	vertical	33.3	-100.9		27.3	33.4	74
7.3263	horizontal	32.2	-104.5		29.9	32.5	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 105.4 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

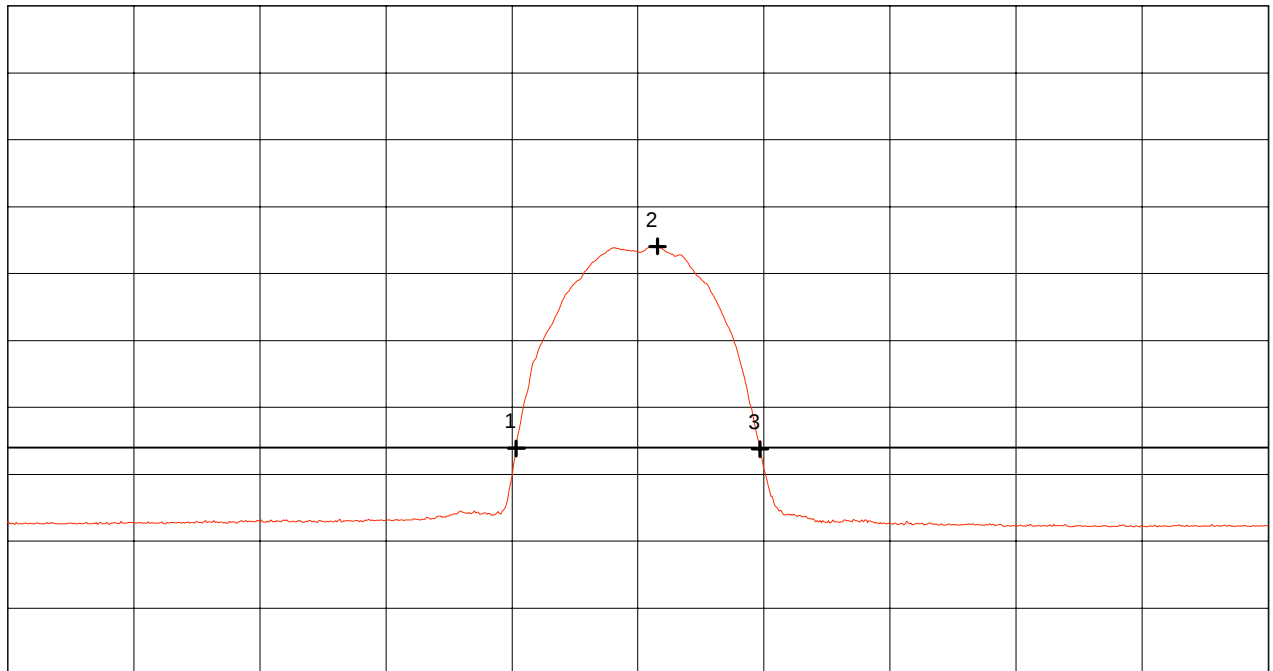
Test distance: 3 meters

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	2.432333 GHz	53.86 dB μ V/m
Nr.2	2.443556 GHz	84.06 dB μ V/m
Nr.3	2.451667 GHz	53.76 dB μ V/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

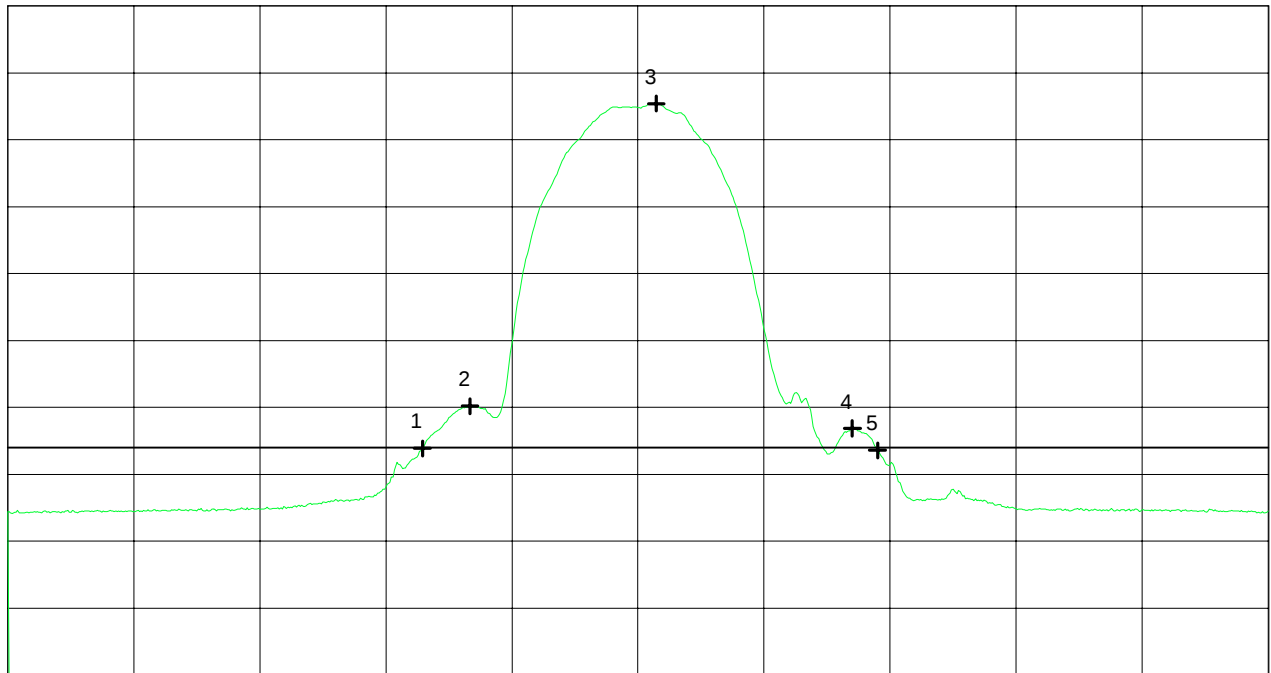
Test distance: 3 meters

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	2.424889 GHz	53.86 dB μ V/m
Nr.2	2.428667 GHz	60.18 dB μ V/m
Nr.3	2.443444 GHz	105.41 dB μ V/m
Nr.4	2.459000 GHz	56.85 dB μ V/m
Nr.5	2.461000 GHz	53.55 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
 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-WA-12-A
- 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]
2.4320	vertical	73.9		0.6	20.7	73.9	OB
2.4409	vertical	109.0		0.6	20.7	109.0	OB
2.4531	vertical	73.8		0.6	20.7	73.8	OB
7.3279	vertical	43.9	-92.8		29.9	44.1	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 109.0 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

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

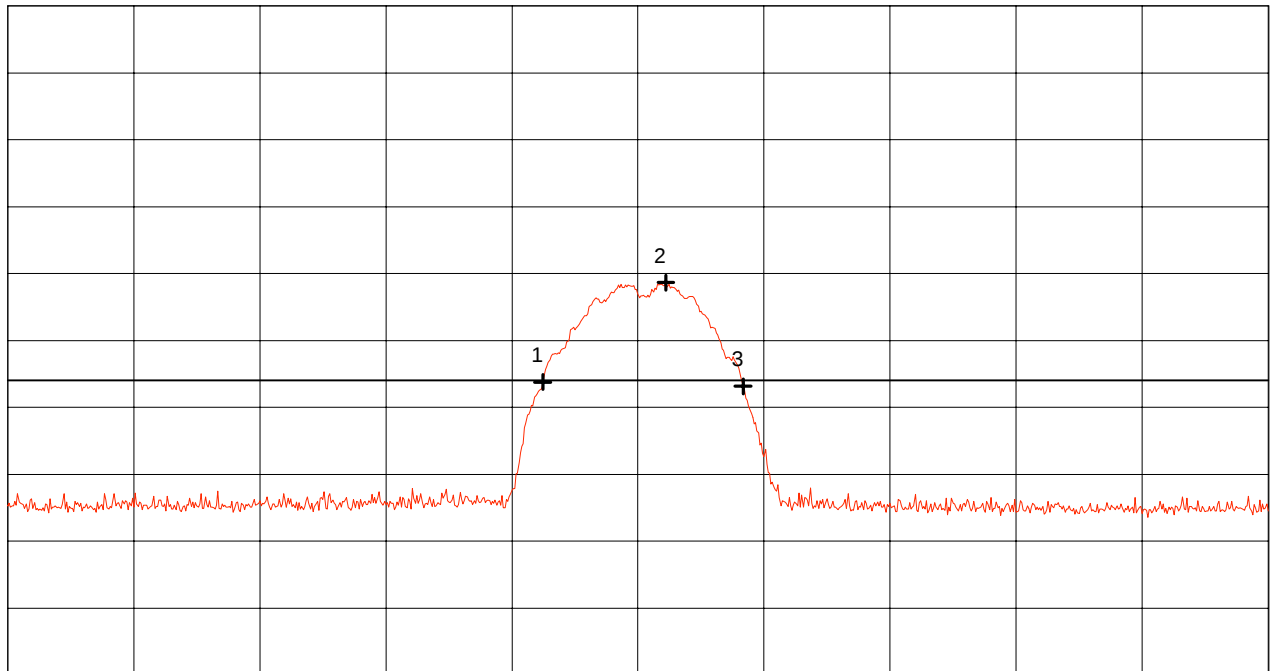
Test distance: 3 meters

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	2.434444 GHz	73.79 dB μ V/m
Nr.2	2.444222 GHz	88.65 dB μ V/m
Nr.3	2.450333 GHz	73.16 dB μ V/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

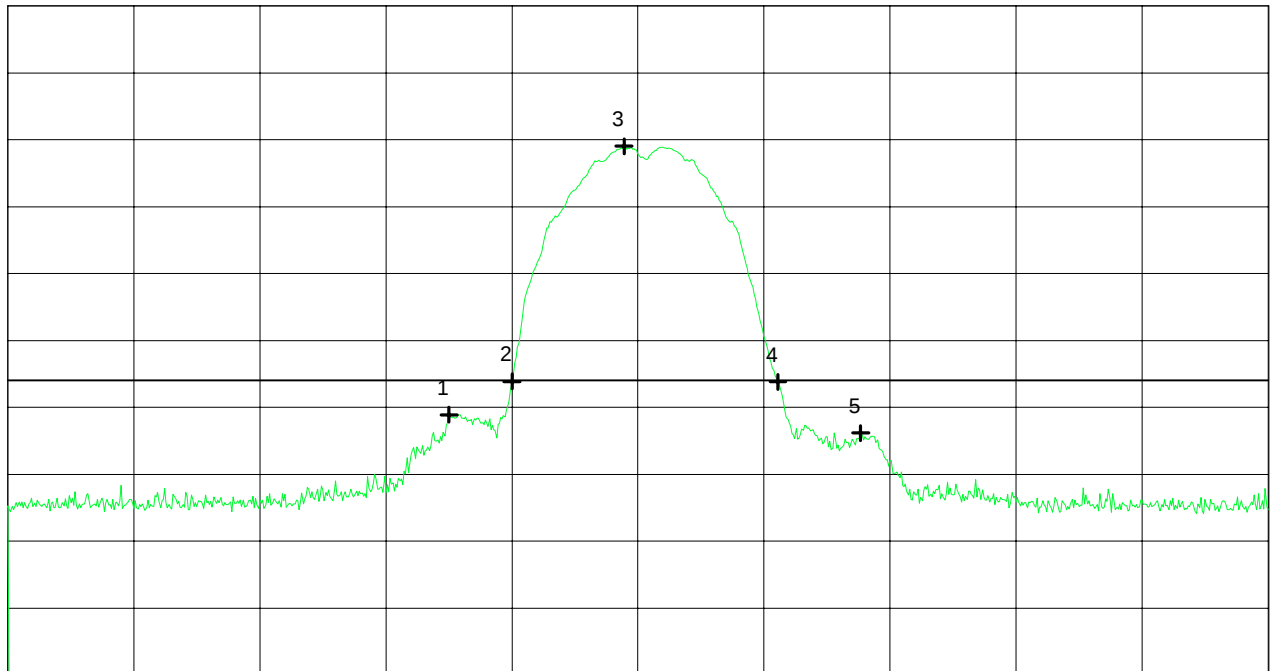
Test distance: 3 meters

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	2.427000 GHz	68.89 dB μ V/m
Nr.2	2.432000 GHz	73.89 dB μ V/m
Nr.3	2.440889 GHz	109.01 dB μ V/m
Nr.4	2.453111 GHz	73.82 dB μ V/m
Nr.5	2.459667 GHz	66.15 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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 [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.4239	vertical	53.8		0.6	20.7	53.8	OB
2.4429	vertical	105.8		0.6	20.7	105.8	OB
2.4614	vertical	53.7		0.6	20.7	53.7	OB
7.3272	vertical	35.4	-101.2		29.9	35.7	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 105.8 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

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

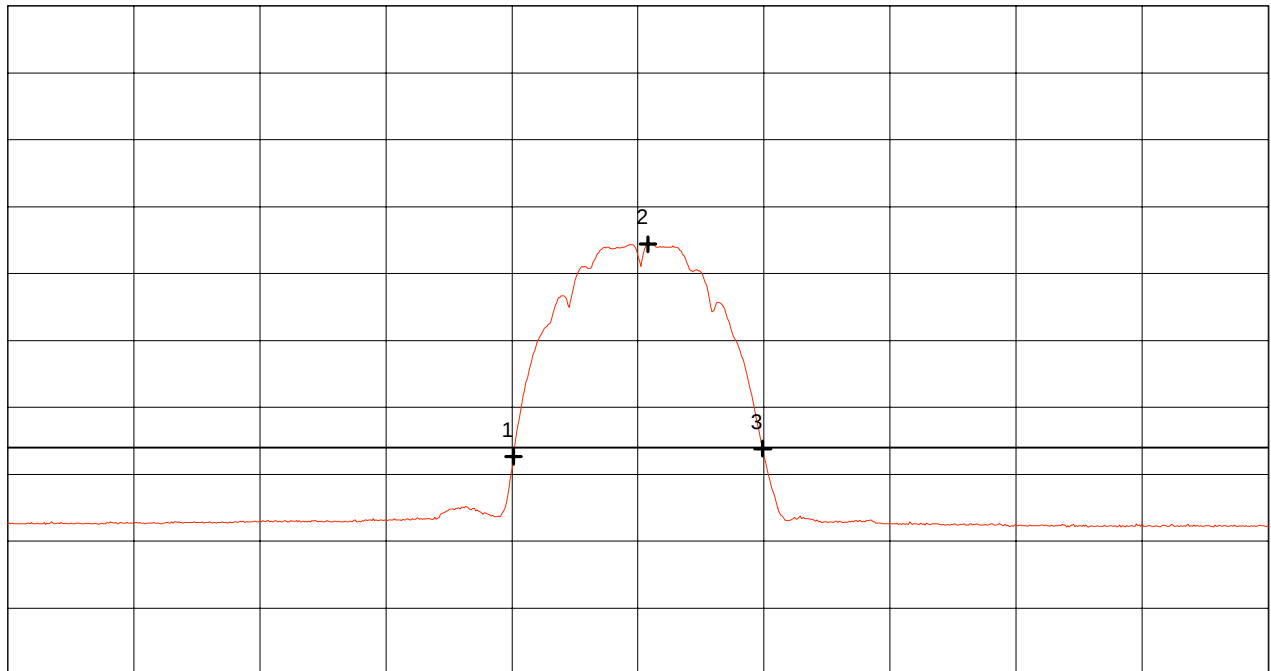
Test distance: 3 meters

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.	Frequency (GHz)	Field Strength (dB μ V/m)
Nr.1	2.432111 GHz	52.64 dB μ V/m
Nr.2	2.442778 GHz	84.41 dB μ V/m
Nr.3	2.451889 GHz	53.81 dB μ V/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

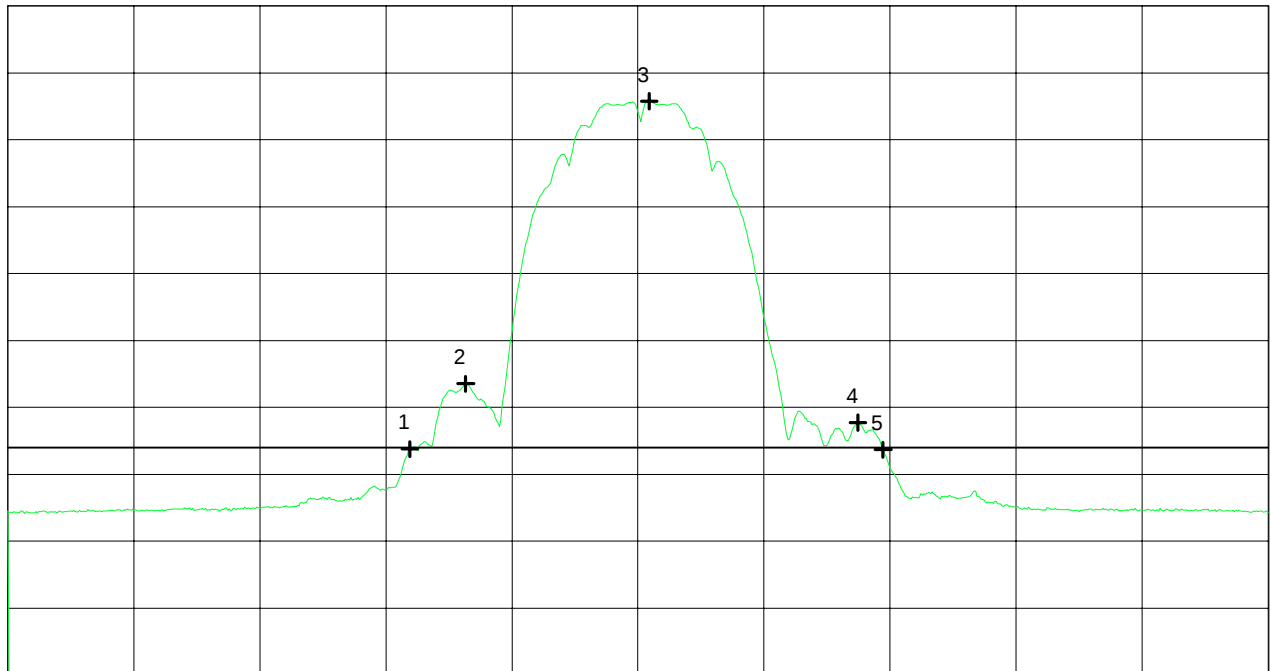
Test distance: 3 meters

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	2.423889 GHz	53.76 dB μ V/m
Nr.2	2.428333 GHz	63.53 dB μ V/m
Nr.3	2.442889 GHz	105.76 dB μ V/m
Nr.4	2.459444 GHz	57.72 dB μ V/m
Nr.5	2.461444 GHz	53.65 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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	73.9		0.6	20.7	73.9	OB
2.4606	vertical	112.3		0.6	20.7	112.3	OB
2.4731	vertical	74.0		0.6	20.7	74.0	OB
2.4835	vertical	57.6		0.6	20.7	57.6	74
2.4891	vertical	58.8		0.6	20.7	58.8	74
2.5000	vertical	55.3		0.6	20.7	55.3	74
4.9296	vertical	44.9	-89.5		27.3	44.8	74
7.3879	horizontal	41.1	-95.0		30.0	42.0	74
8.4473	vertical	42.4	-97.8		33.4	42.6	74
9.8473	vertical	49.3	-90.4		33.4	50.0	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 112.3 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

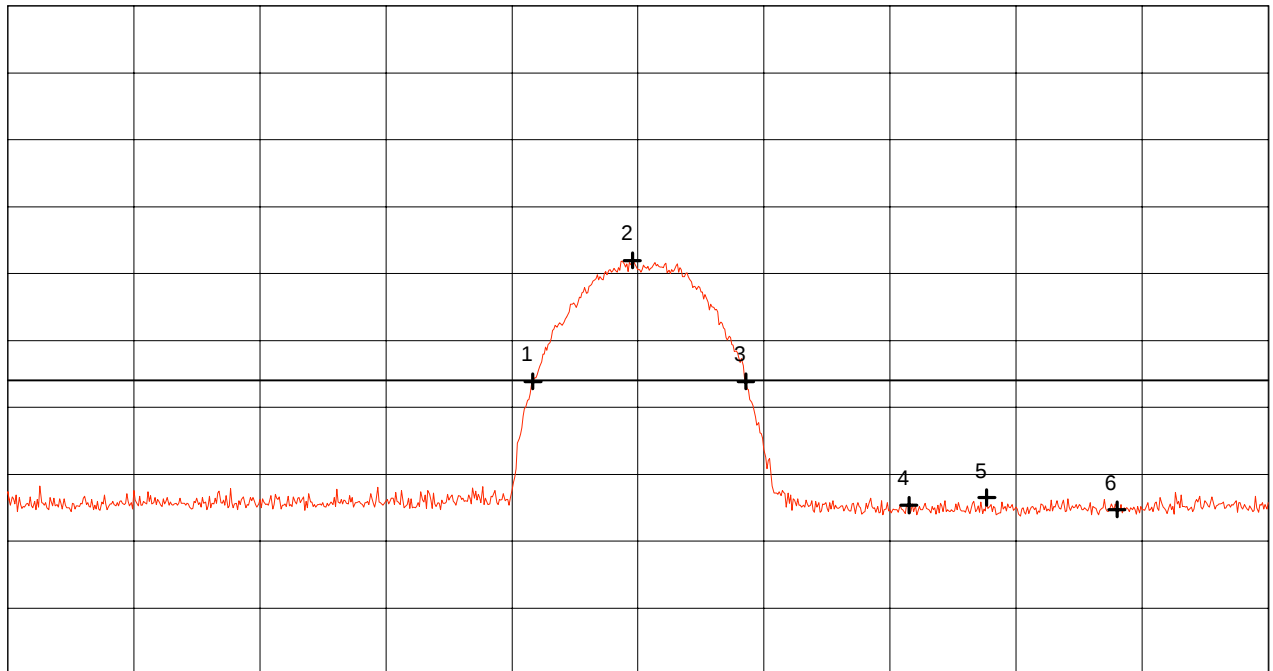
Test distance: 3 meters

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	2.453667 GHz	73.89 dB μ V/m
Nr.2	2.461556 GHz	91.97 dB μ V/m
Nr.3	2.470556 GHz	73.89 dB μ V/m
Nr.4	2.483500 GHz	55.38 dB μ V/m
Nr.5	2.489667 GHz	56.52 dB μ V/m
Nr.6	2.500000 GHz	54.72 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

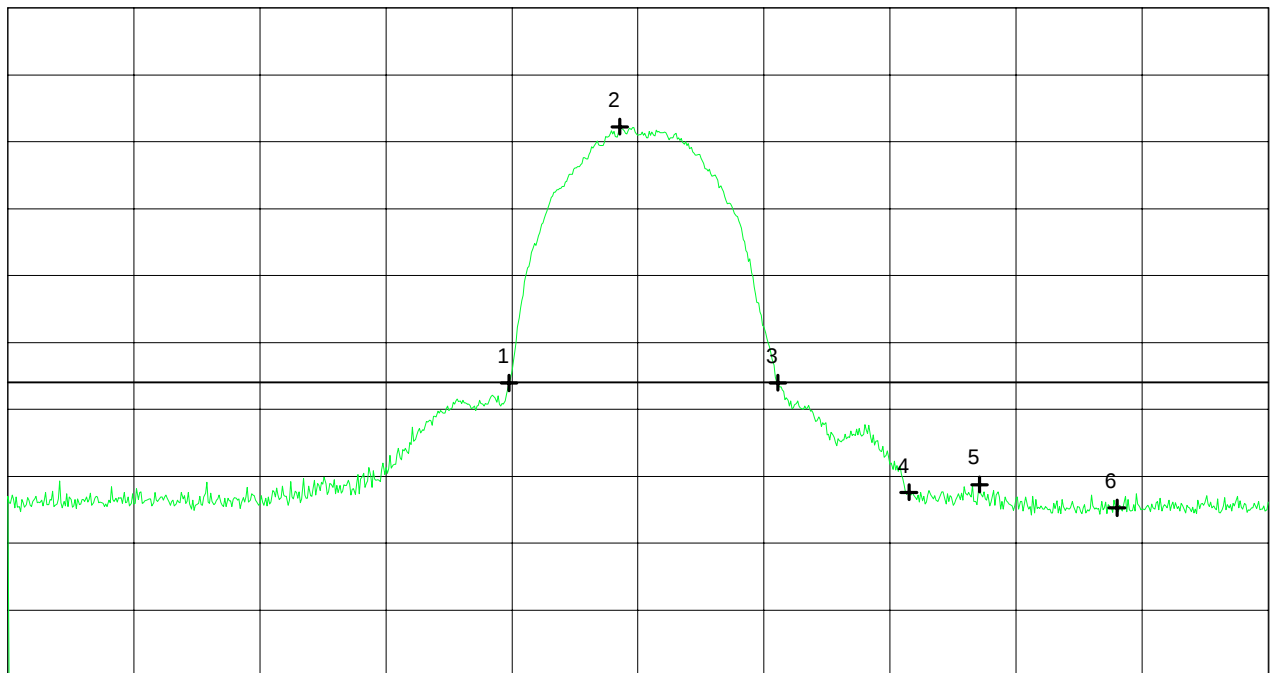
Test distance: 3 meters

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	73.94 dB μ V/m
Nr.2	2.460556 GHz	112.26 dB μ V/m
Nr.3	2.473111 GHz	73.97 dB μ V/m
Nr.4	2.483500 GHz	57.59 dB μ V/m
Nr.5	2.489111 GHz	58.76 dB μ V/m
Nr.6	2.500000 GHz	55.28 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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]
2.4436	vertical	53.8		0.6	20.7	53.8	OB
2.4601	vertical	106.0		0.6	20.7	106.0	OB
2.4811	vertical	53.7		0.6	20.7	53.7	OB
2.4834	vertical	46.7		0.6	20.7	46.7	54
2.4870	vertical	48.6		0.6	20.7	48.6	54
2.5000	vertical	44.7		0.6	20.7	44.7	54
4.9239	horizontal	38.8	-95.4		27.3	38.9	54
9.8481	vertical	49.1	-90.5		33.4	50.0	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 106.0 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

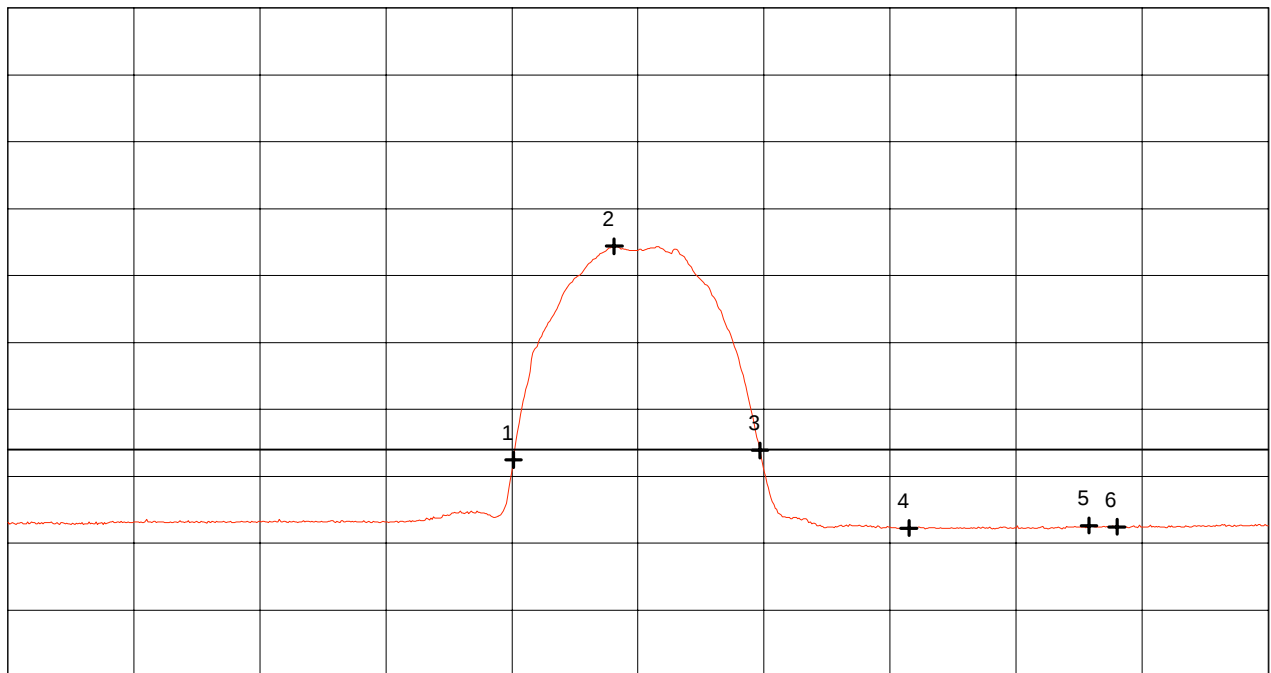
Test distance: 3 meters

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	2.452111 GHz	52.44 dB μ V/m
Nr.2	2.460111 GHz	84.39 dB μ V/m
Nr.3	2.471667 GHz	53.86 dB μ V/m
Nr.4	2.483500 GHz	42.26 dB μ V/m
Nr.5	2.497778 GHz	42.64 dB μ V/m
Nr.6	2.500000 GHz	42.44 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

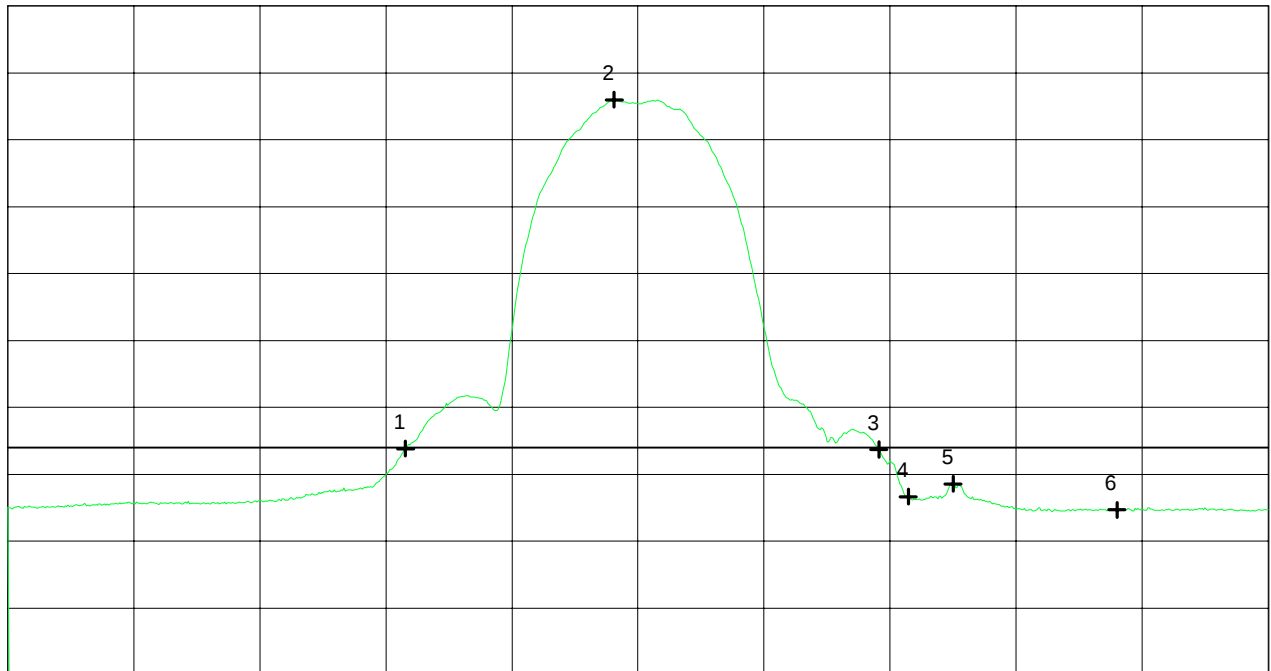
Test distance: 3 meters

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	2.443556 GHz	53.81 dB μ V/m
Nr.2	2.460111 GHz	105.96 dB μ V/m
Nr.3	2.481111 GHz	53.70 dB μ V/m
Nr.4	2.483444 GHz	46.65 dB μ V/m
Nr.5	2.487000 GHz	48.58 dB μ V/m
Nr.6	2.500000 GHz	44.69 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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]
2.4518	vertical	73.2		0.6	20.7	73.2	OB
2.4603	vertical	109.6		0.6	20.7	109.6	OB
2.4732	vertical	73.8		0.6	20.7	73.8	OB
2.4835	vertical	57.5		0.6	20.7	57.5	74
2.4844	vertical	60.2		0.6	20.7	60.2	74
2.5000	vertical	55.2		0.6	20.7	55.2	74
4.9235	vertical	46.7	-87.7		27.3	46.6	74
9.8480	vertical	49.8	-89.9		33.4	50.5	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 109.6 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

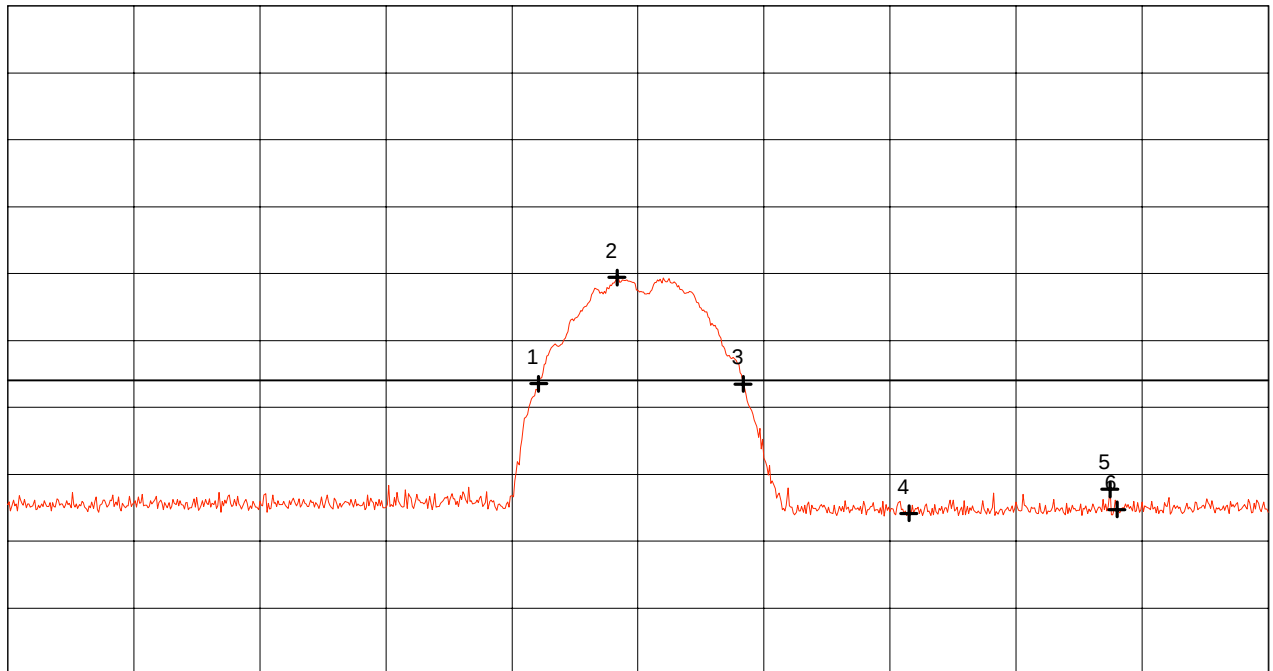
Test distance: 3 meters

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	2.454111 GHz	73.54 dB μ V/m
Nr.2	2.460333 GHz	89.43 dB μ V/m
Nr.3	2.470333 GHz	73.49 dB μ V/m
Nr.4	2.483500 GHz	54.14 dB μ V/m
Nr.5	2.499444 GHz	57.74 dB μ V/m
Nr.6	2.500000 GHz	54.72 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

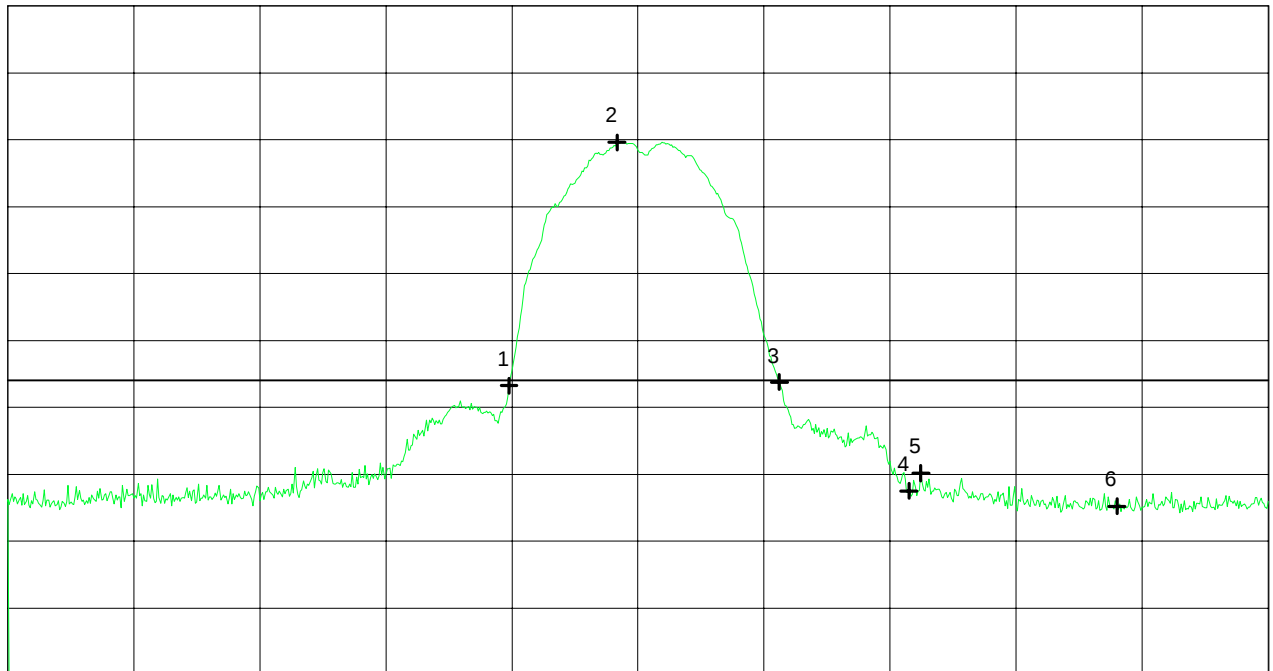
Test distance: 3 meters

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	2.451778 GHz	73.23 dB μ V/m
Nr.2	2.460333 GHz	109.62 dB μ V/m
Nr.3	2.473222 GHz	73.77 dB μ V/m
Nr.4	2.483500 GHz	57.51 dB μ V/m
Nr.5	2.484444 GHz	60.15 dB μ V/m
Nr.6	2.500000 GHz	55.23 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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]
2.4432	vertical	53.7		0.6	20.7	53.7	OB
2.4629	vertical	106.3		0.6	20.7	106.3	OB
2.4814	vertical	53.6		0.6	20.7	53.6	OB
2.4834	vertical	46.6		0.6	20.7	46.6	54
2.4850	vertical	48.8		0.6	20.7	48.8	54
2.5000	vertical	44.6		0.6	20.7	44.6	54
4.9241	horizontal	40.9	-93.3		27.3	41.0	54
9.8481	vertical	49.7	-89.8		33.4	50.6	NRB

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

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 106.3 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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

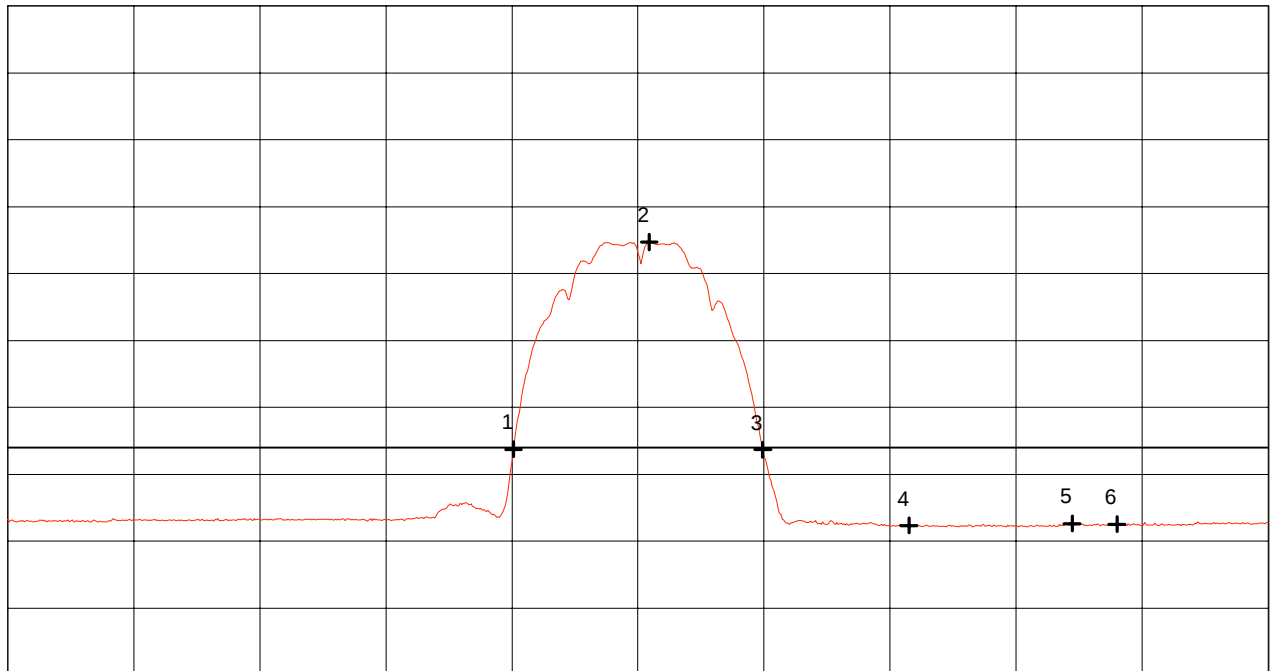
Test distance: 3 meters

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	2.452111 GHz	53.74 dB μ V/m
Nr.2	2.462889 GHz	84.72 dB μ V/m
Nr.3	2.471889 GHz	53.68 dB μ V/m
Nr.4	2.483500 GHz	42.33 dB μ V/m
Nr.5	2.496444 GHz	42.64 dB μ V/m
Nr.6	2.500000 GHz	42.54 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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 ext. antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

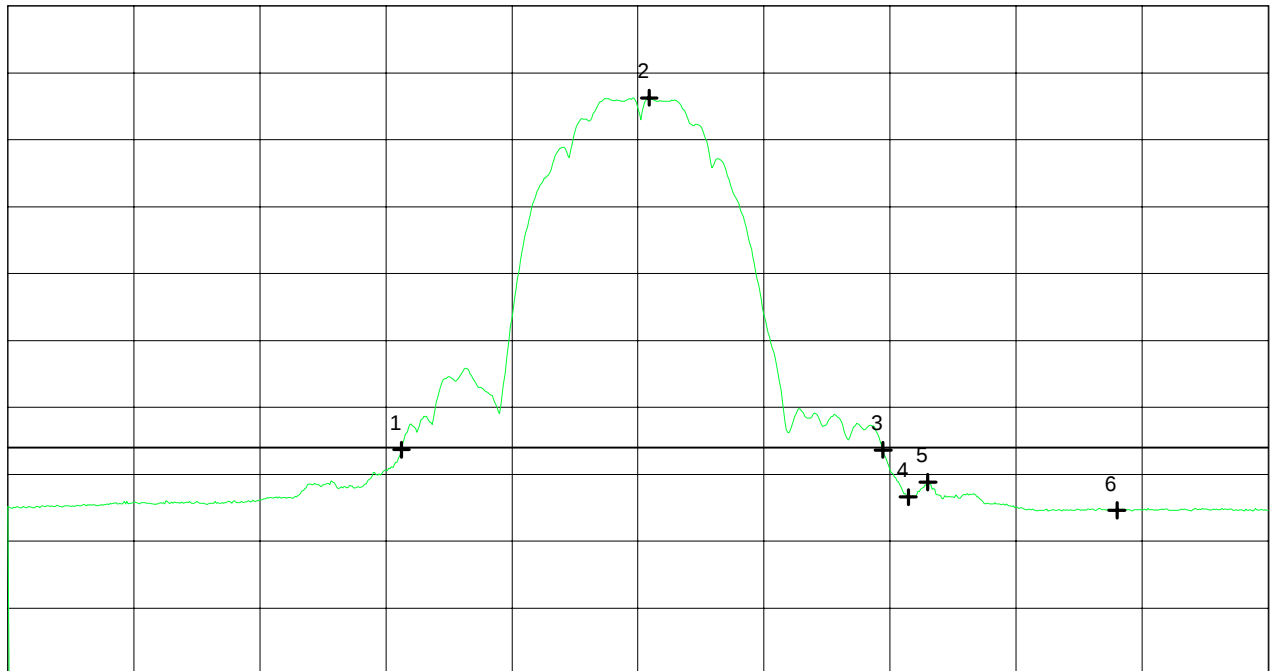
Test distance: 3 meters

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	2.443222 GHz	53.65 dB μ V/m
Nr.2	2.462889 GHz	106.27 dB μ V/m
Nr.3	2.481444 GHz	53.63 dB μ V/m
Nr.4	2.483444 GHz	46.59 dB μ V/m
Nr.5	2.485000 GHz	48.83 dB μ V/m
Nr.6	2.500000 GHz	44.61 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/18/1999

Project-No.:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

Test performed: automatically File name:

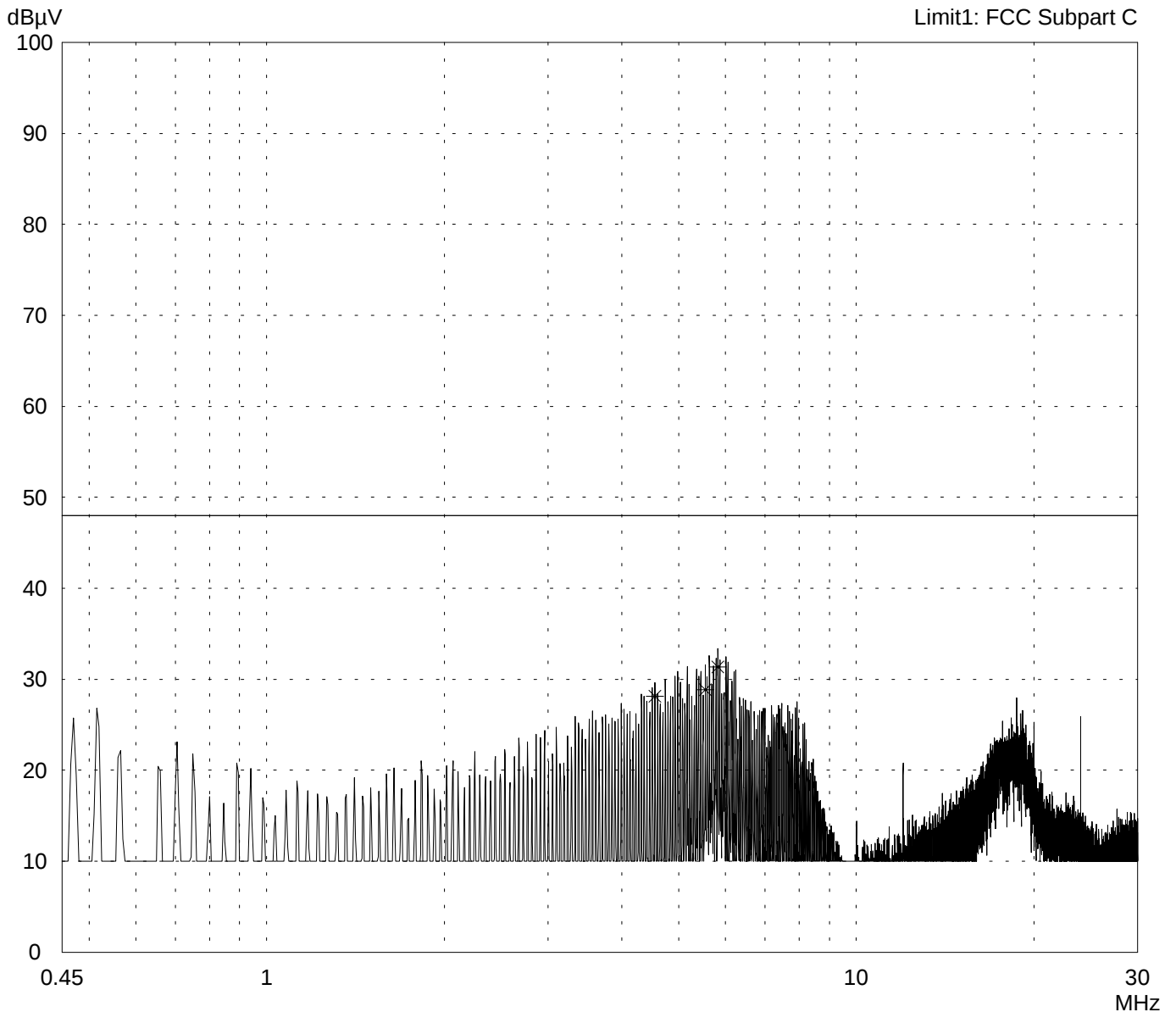
Mode:

- 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-WA-12-A
- 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



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999	
Test performed: automatically	File name:

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

[illegible]

Result: Limit kept	Project file: 56305-90735-1	Page 155 of 212 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: 11/17/1999
Operator: R. Heller

Test performed: automatically
File name:

Mode:

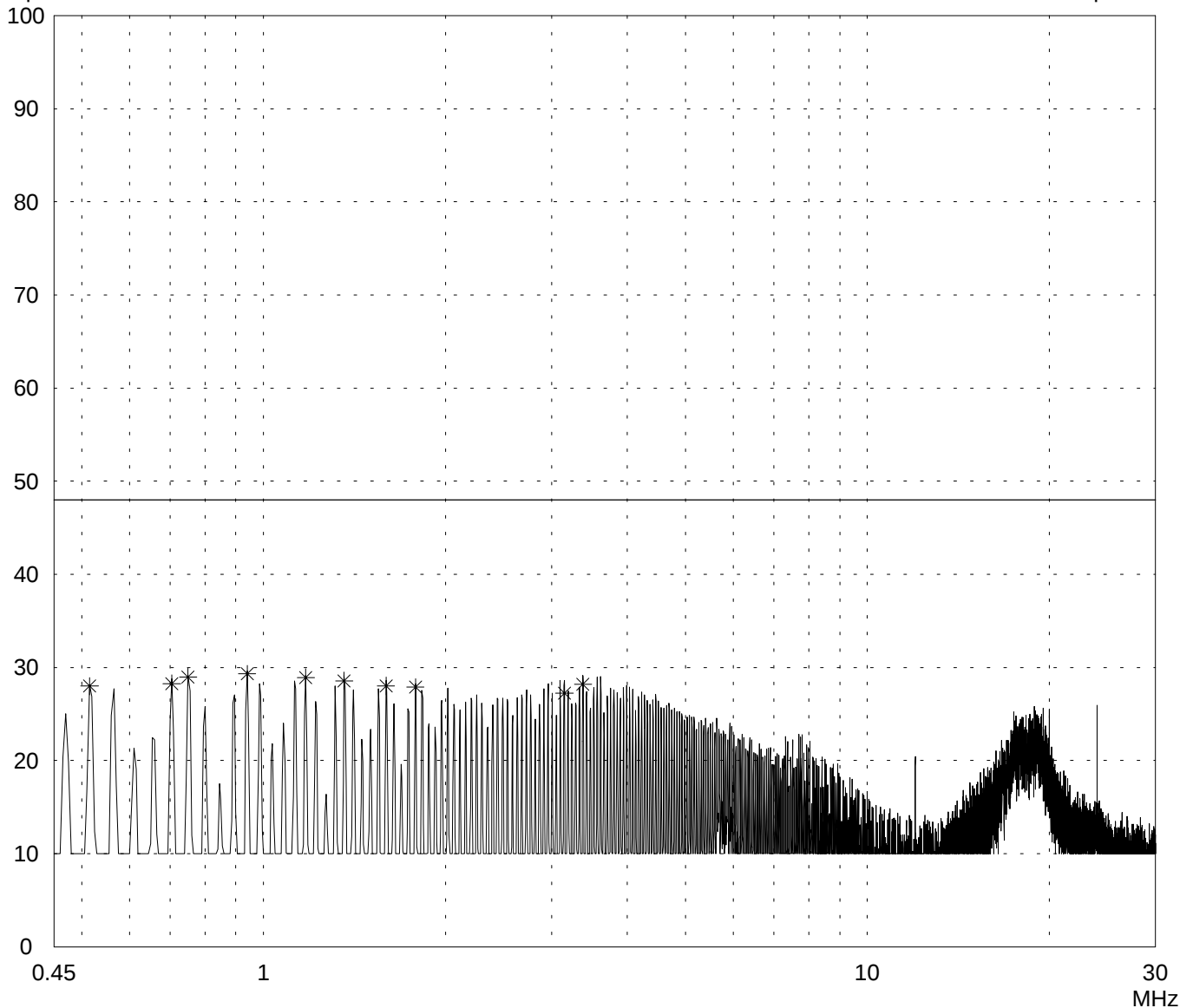
- RF-modem PC24E-H-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-23)
- FCC test setup
- supply voltage 115 V AC
- with external antenna AOU24-WA-12-A
- with 20 ft antenna cable (LMR400)
- RX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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 N	
Date of test: 11/17/1999	
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>
0.515	28.0		28.0	48.0	
0.705	28.3		28.3	48.0	
0.750	29.0		29.0	48.0	
0.940	29.3		29.3	48.0	
1.175	28.9		28.9	48.0	
1.360	28.6		28.6	48.0	
1.595	28.0		28.0	48.0	
1.785	27.9		27.9	48.0	
3.150	27.3		27.3	48.0	
3.380	28.2		28.2	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 157 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

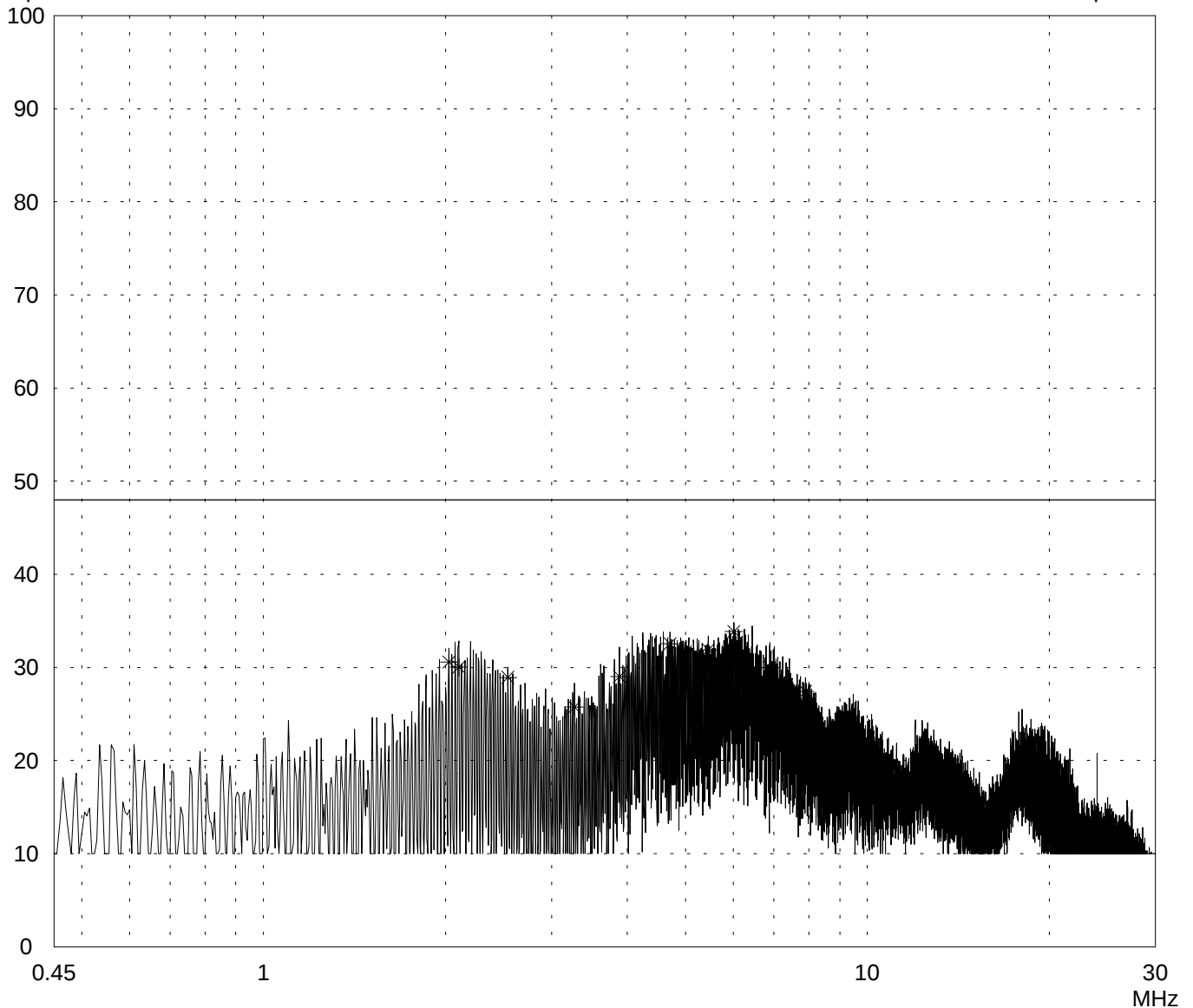
- RX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999	
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>
2.030	30.6		30.6	48.0	
2.105	30.0		30.0	48.0	
2.540	28.9		28.9	48.0	
3.275	25.8		25.8	48.0	
3.885	29.0		29.0	48.0	
4.715	32.6		32.6	48.0	
5.450	31.9		31.9	48.0	
6.010	33.9		33.9	48.0	
6.895	30.0		30.0	48.0	
7.895	27.4		27.4	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 159 of 212 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: 11/17/1999 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-WA-12-A
- with 20 ft antenna cable (LMR400)

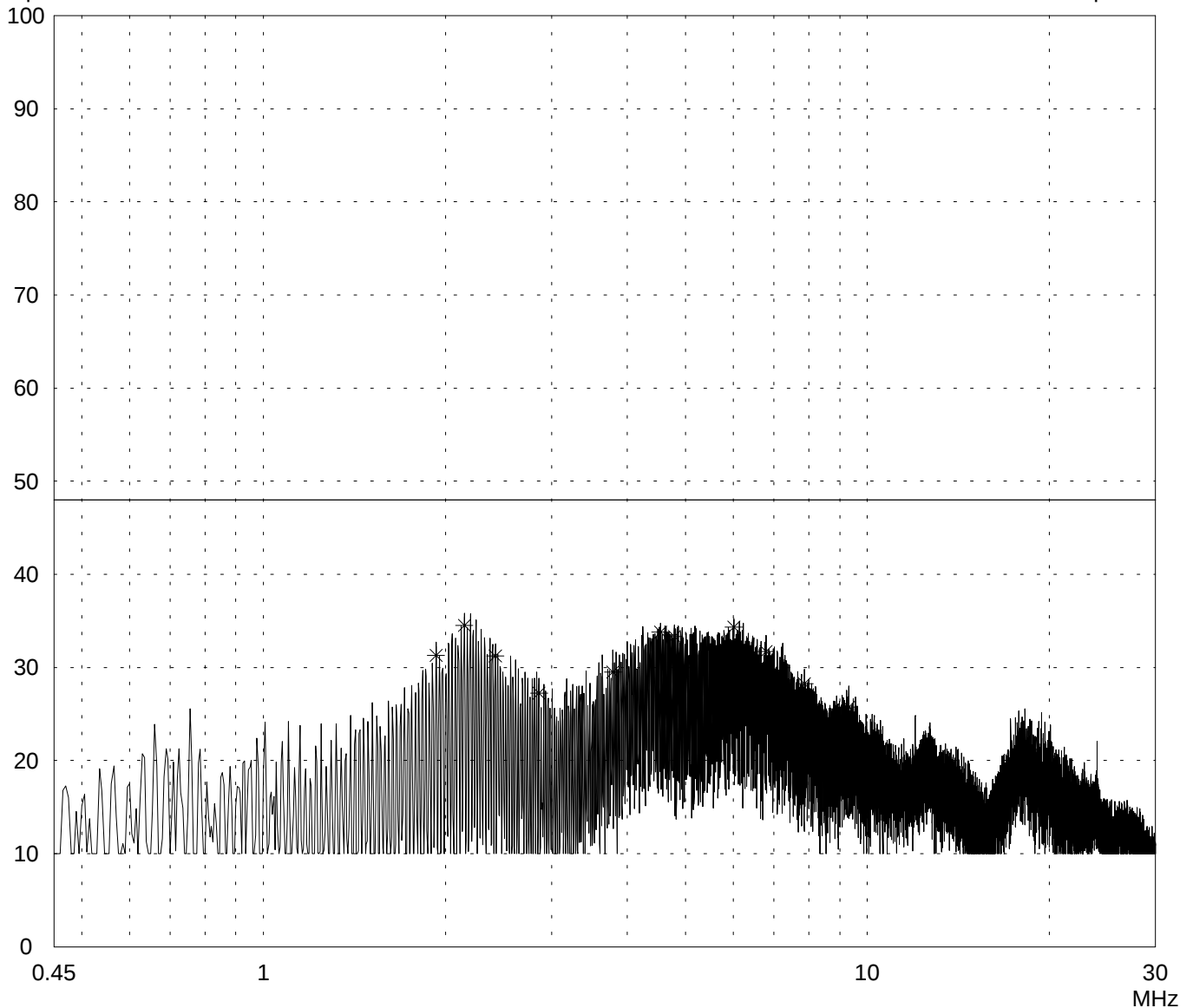
- RX mode with $f = 2.442$ GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

dB μ V

Limit1: FCC Subpart C



Result:
Limit kept

Project file:
56305-90735-1

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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-WA-12-A - 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: 11/17/1999	
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>
1.930	31.3		31.3	48.0	
2.150	34.5		34.5	48.0	
2.420	31.3		31.3	48.0	
2.860	27.2		27.2	48.0	
3.790	29.5		29.5	48.0	
4.545	33.8		33.8	48.0	
4.790	33.3		33.3	48.0	
6.010	34.3		34.3	48.0	
6.795	31.7		31.7	48.0	
7.870	28.3		28.3	48.0	
9.310	25.8		25.8	48.0	

Result: Limit kept	Project file: 56305-90735-1	Page 161 of 212 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: 11/17/1999 Operator: R. Heller

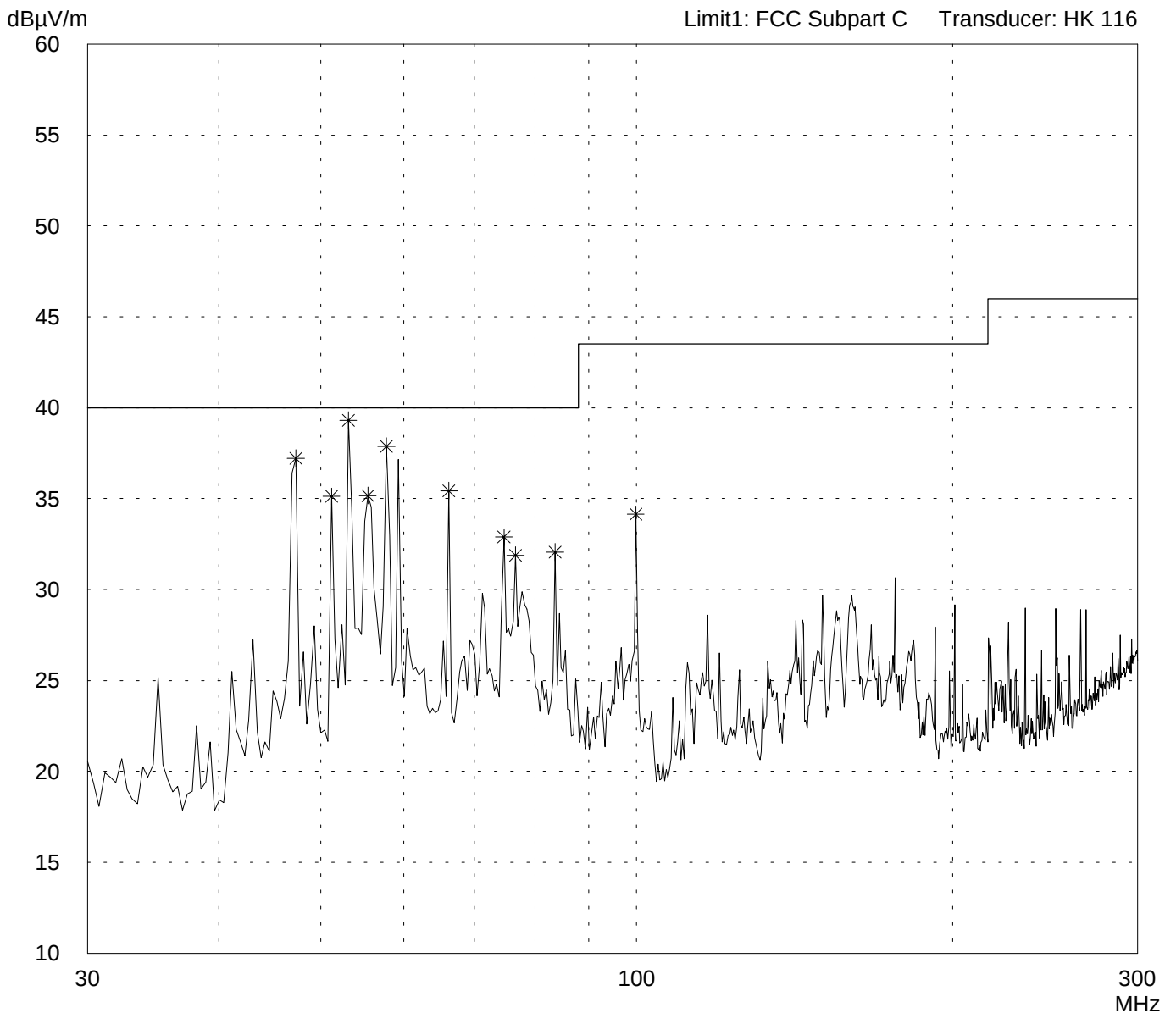
Test performed: automatically File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

Test performed: automatically File name:

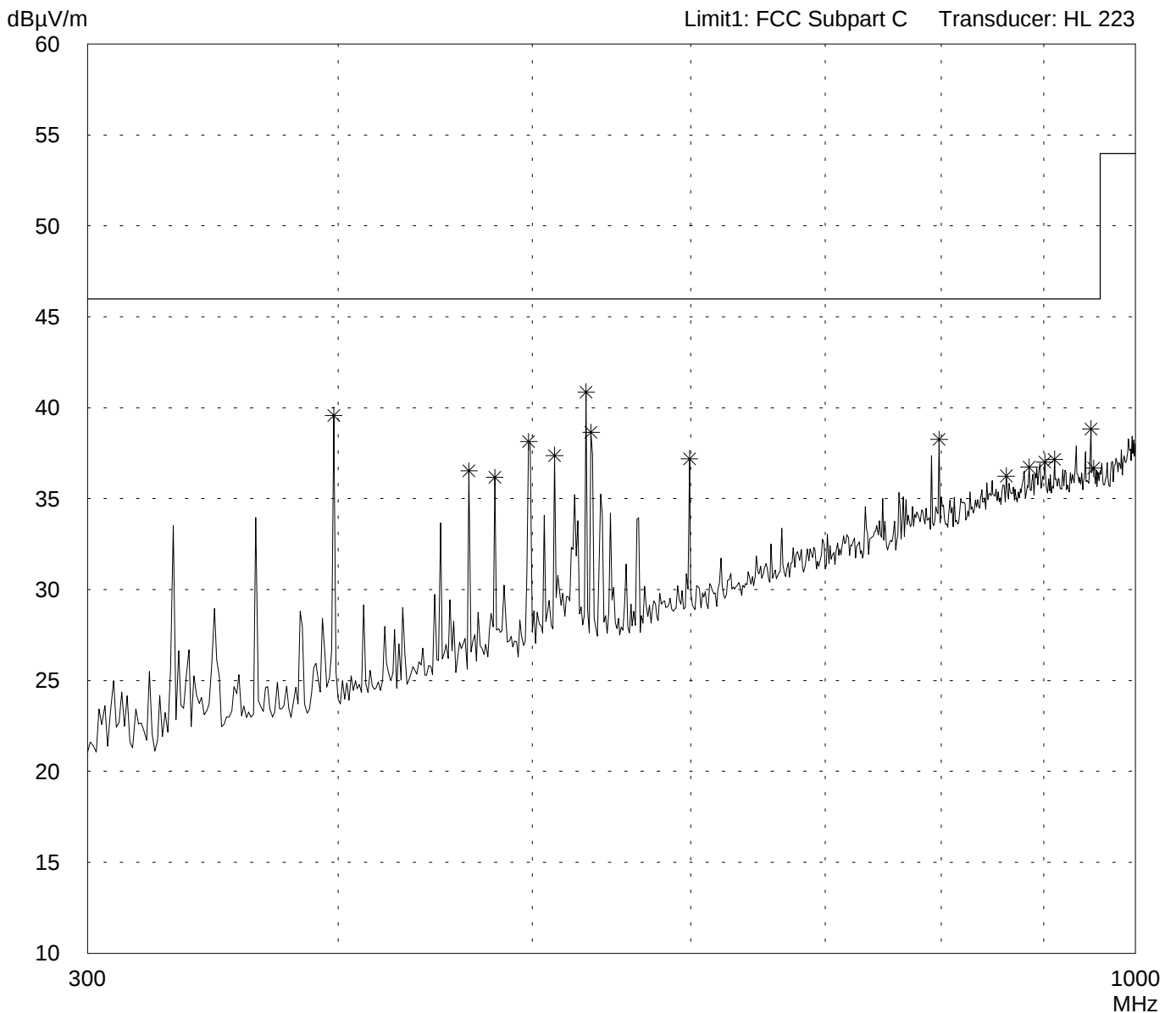
Mode:

- 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-WA-12-A
- 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:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

Test performed: automatically File name:

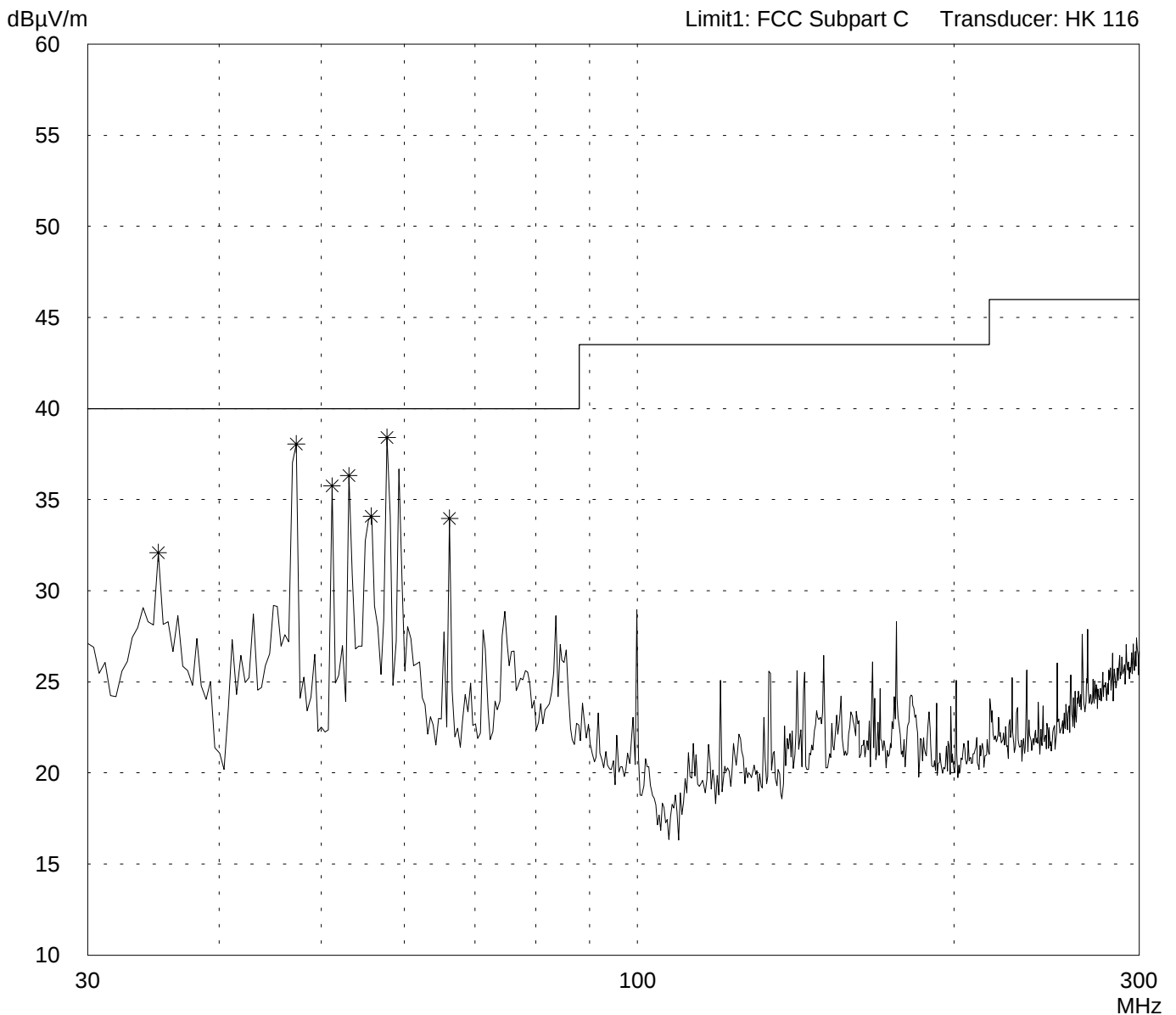
Mode:

- 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-WA-12-A
- 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:
56305-90735-1

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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: 11/17/1999 Operator: R. Heller

Test performed: automatically File name:

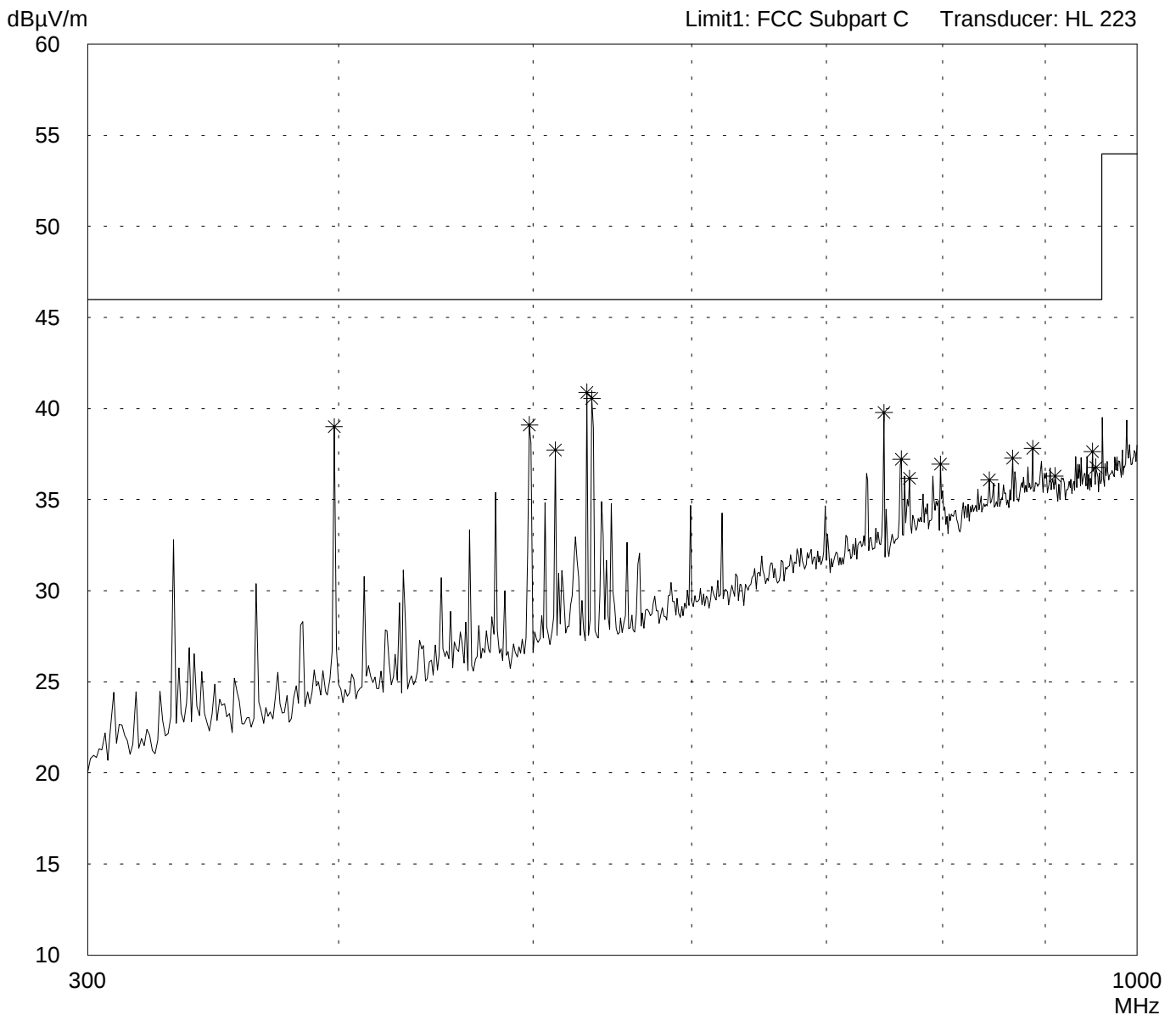
Mode:

- 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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999
Operator: R. Heller

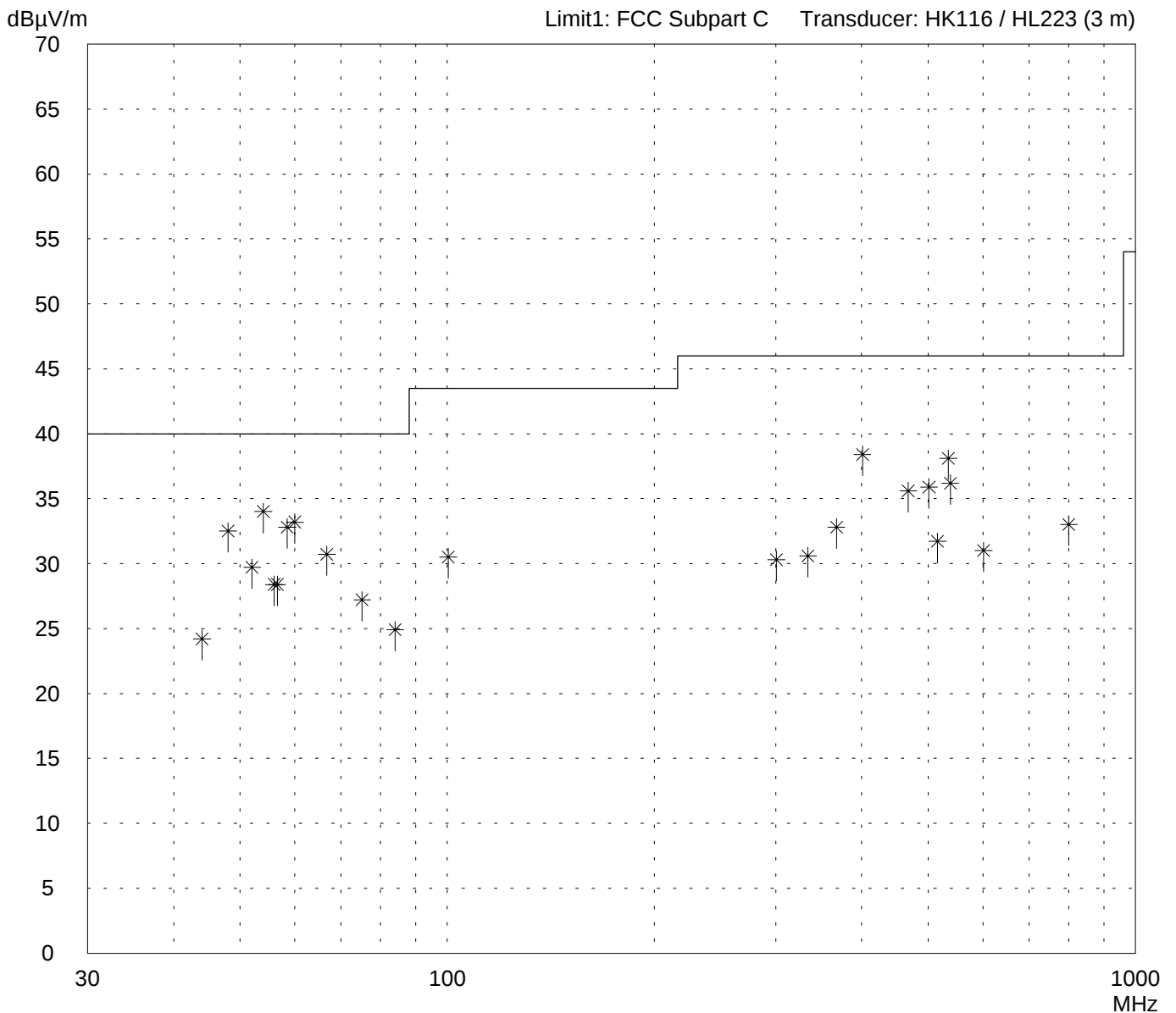
Test performed: by hand
File name:

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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999 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-WA-12-A
- 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
44.0	12.5	11.7	24.2	40.0	
48.0	21.5	11.0	32.5	40.0	
52.0	19.0	10.7	29.7	40.0	
54.0	23.5	10.5	34.0	40.0	
56.0	18.0	10.4	28.4	40.0	
56.6	18.0	10.4	28.4	40.0	
58.5	22.5	10.3	32.8	40.0	
60.0	23.0	10.2	33.2	40.0	
66.8	20.5	10.2	30.7	40.0	
75.2	17.0	10.2	27.2	40.0	
84.0	14.5	10.4	24.9	40.0	
100.3	19.0	11.5	30.5	43.5	
300.7	13.5	16.8	30.3	46.0	
334.1	12.5	18.1	30.6	46.0	
367.5	13.5	19.3	32.8	46.0	
400.9	18.0	20.4	38.4	46.0	
467.7	13.5	22.1	35.6	46.0	
501.2	13.0	22.9	35.9	46.0	
515.5	8.5	23.2	31.7	46.0	
534.6	14.5	23.6	38.1	46.0	
538.1	12.5	23.7	36.2	46.0	
601.4	6.0	25.0	31.0	46.0	
800.0	4.5	28.5	33.0	46.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/18/1999 Operator: R. Heller

Test performed: by hand File name:

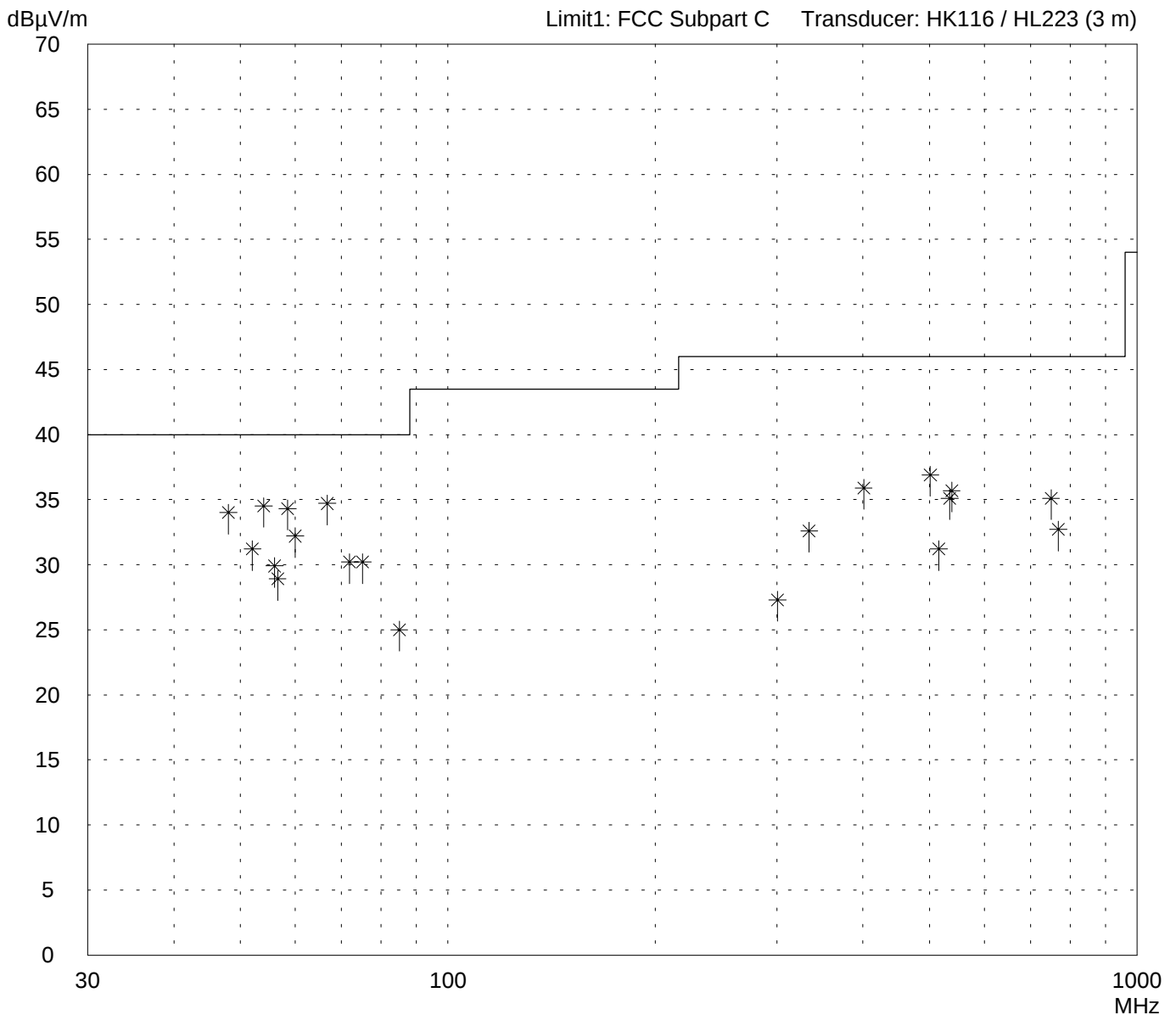
Mode:

- 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-WA-12-A
- 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:
56305-90735-1

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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: 11/18/1999
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-WA-12-A
- 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	23.0	11.0	34.0	40.0	
52.0	20.5	10.7	31.2	40.0	
54.0	24.0	10.5	34.5	40.0	
56.0	19.5	10.4	29.9	40.0	
56.6	18.5	10.4	28.9	40.0	
58.5	24.0	10.3	34.3	40.0	
60.0	22.0	10.2	32.2	40.0	
66.8	24.5	10.2	34.7	40.0	
72.0	20.0	10.2	30.2	40.0	
75.2	20.0	10.2	30.2	40.0	
85.0	14.5	10.5	25.0	40.0	
300.7	10.5	16.8	27.3	46.0	
334.1	14.5	18.1	32.6	46.0	
400.9	15.5	20.4	35.9	46.0	
501.2	14.0	22.9	36.9	46.0	
515.5	8.0	23.2	31.2	46.0	
534.6	11.5	23.6	35.1	46.0	
538.1	12.0	23.7	35.7	46.0	
750.0	7.0	28.1	35.1	46.0	
768.5	4.5	28.2	32.7	46.0	

Result:
Limit kept

Project file:
56305-90735-1

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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: 11/18/1999
 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-WA-12-A
 - 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]
2.0951	vertical	40.2	-97.3		29.4	39.1	74
8.3680	vertical	41.5	-98.4		33.4	42.0	74

Result: The limits are kept

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: 11/18/1999
 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-WA-12-A
 - with 20 ft antenna cable (LMR400)

 - RX mode with $f = 2.442$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
1.000 -12.500	Margin of peak levels to average limit > 10 dB						54

Result: The limits are kept

12.2. Test Results for AOU24-WA-12-B

Test results for
Transmit (TX) mode

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: 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
- with external antenna AOU24-WA-12-B
- 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	59.2		0.6	20.7	59.2	74
2.3994	vertical	73.0		0.6	20.7	73.0	NRB
2.4000	vertical	72.5		0.6	20.7	72.5	NRB
2.4016	vertical	73.1		0.6	20.7	73.1	OB
2.4116	vertical	112.3		0.6	20.7	112.3	OB
2.4239	vertical	73.1		0.6	20.7	73.1	OB
2.7650	vertical	44.0		0.6	23.7	44.0	74
4.8303	vertical	42.0	-92.6		27.3	41.7	74
7.2365	vertical	44.3	-91.4		29.9	45.5	NRB
9.6467	vertical	46.2	-93.3		33.4	47.1	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 112.3 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

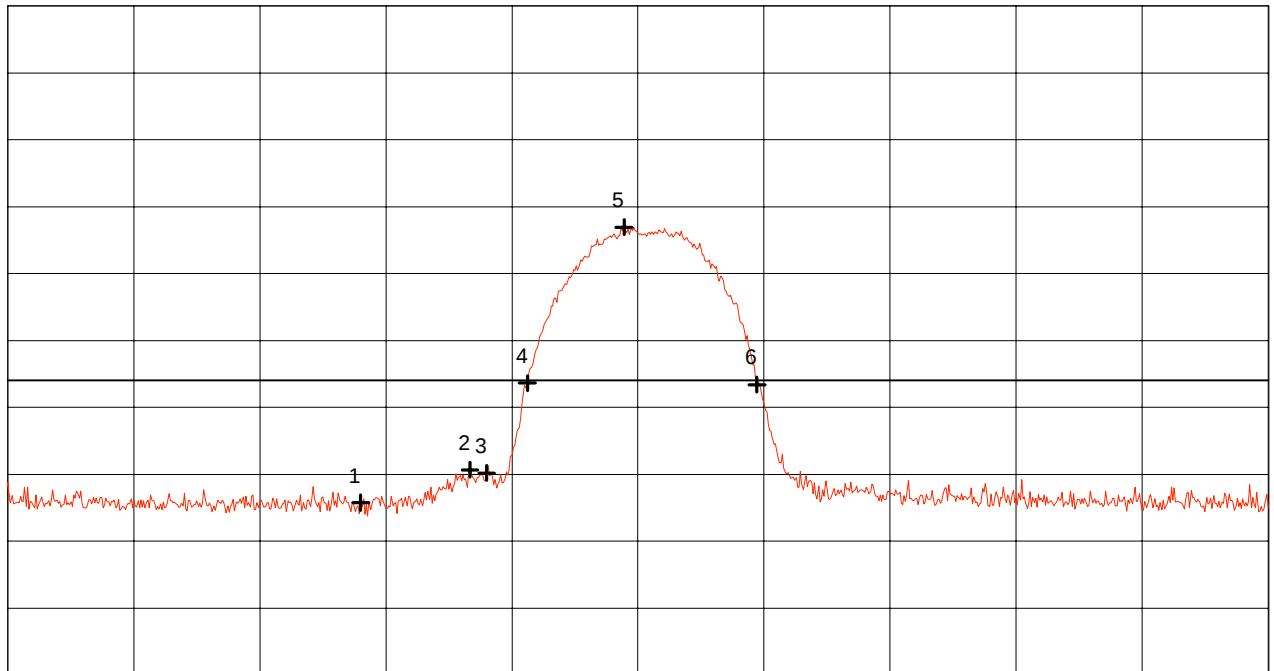
Test distance: 3 meters

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.1	2.390000 GHz	55.76 dB μ V/m
Nr.2	2.398667 GHz	60.67 dB μ V/m
Nr.3	2.400000 GHz	60.18 dB μ V/m
Nr.4	2.403222 GHz	73.64 dB μ V/m
Nr.5	2.410889 GHz	96.95 dB μ V/m
Nr.6	2.421444 GHz	73.41 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

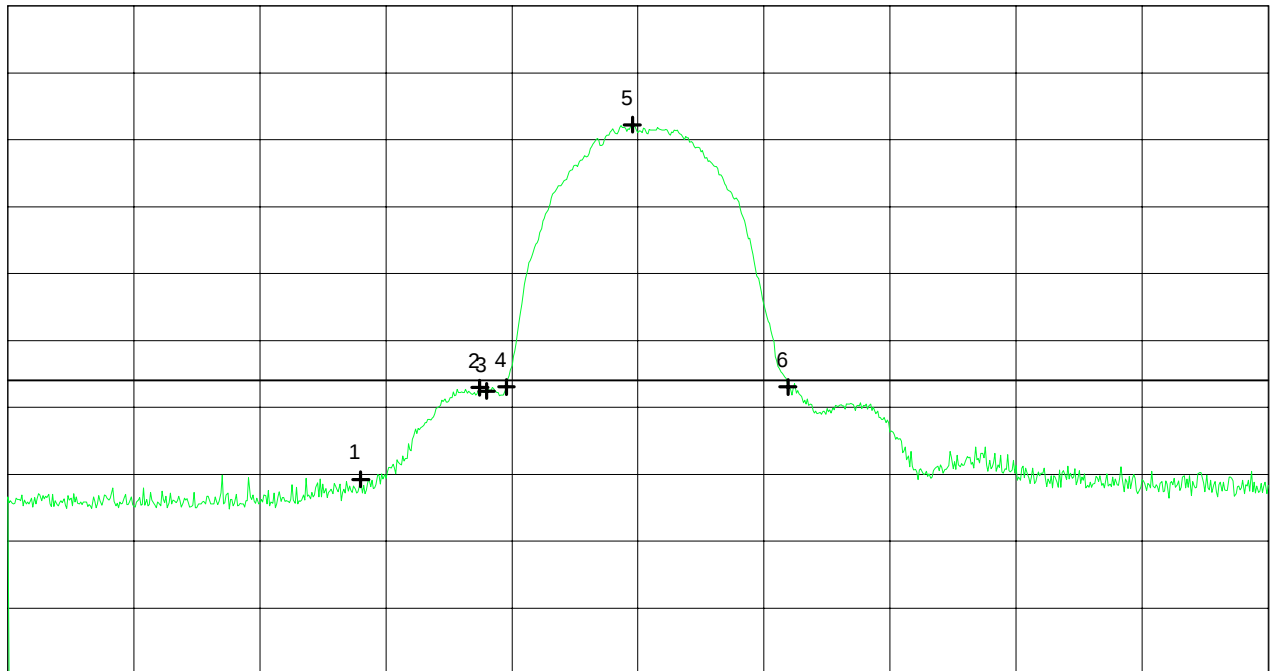
Test distance: 3 meters

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	59.24 dB μ V/m
Nr.2	2.399444 GHz	72.95 dB μ V/m
Nr.3	2.400000 GHz	72.45 dB μ V/m
Nr.4	2.401556 GHz	73.05 dB μ V/m
Nr.5	2.411556 GHz	112.26 dB μ V/m
Nr.6	2.423889 GHz	73.05 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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 [dB μ V]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.3900	vertical	46.9		0.6	20.7	46.9	54
2.3942	vertical	54.0		0.6	20.7	54.0	NRB
2.3990	vertical	64.5		0.6	20.7	64.5	NRB
2.4000	vertical	63.6		0.6	20.7	63.6	NRB
2.4136	vertical	105.8		0.6	20.7	105.8	OB
2.4321	vertical	53.7		0.6	20.7	53.7	OB

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 105.8 dB μ V/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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

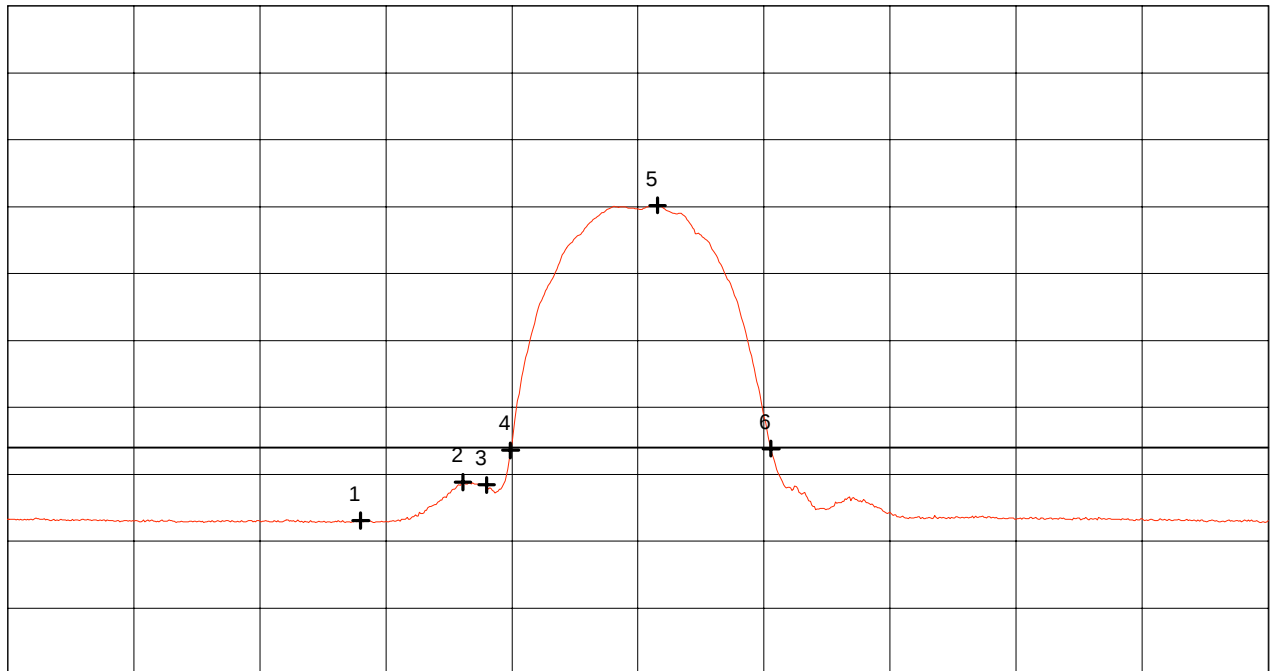
Test distance: 3 meters

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.1	2.390000 GHz	43.07 dB μ V/m
Nr.2	2.398111 GHz	48.81 dB μ V/m
Nr.3	2.400000 GHz	48.40 dB μ V/m
Nr.4	2.401889 GHz	53.56 dB μ V/m
Nr.5	2.413556 GHz	90.20 dB μ V/m
Nr.6	2.422556 GHz	53.83 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.412$ GHz

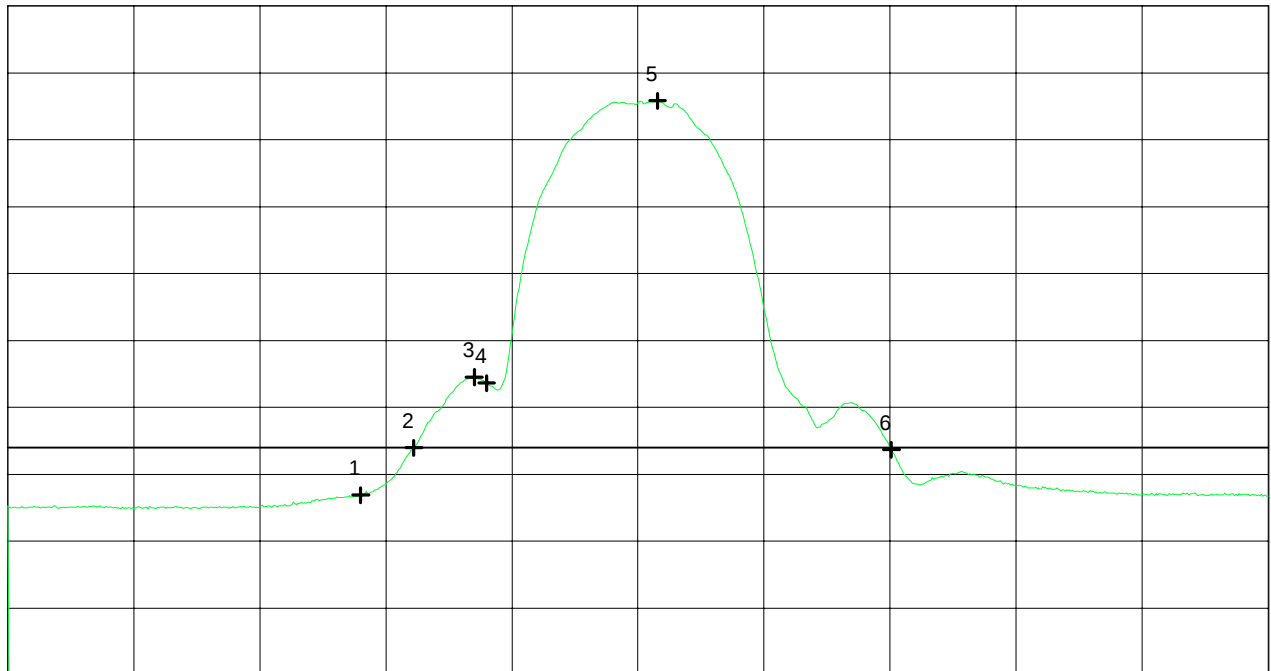
Test distance: 3 meters

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	46.85 dB μ V/m
Nr.2	2.394222 GHz	53.96 dB μ V/m
Nr.3	2.399000 GHz	64.50 dB μ V/m
Nr.4	2.400000 GHz	63.61 dB μ V/m
Nr.5	2.413556 GHz	105.84 dB μ V/m
Nr.6	2.432111 GHz	53.65 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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	58.1		0.6	20.7	58.1	74
2.3977	vertical	71.8		0.6	20.7	71.8	NRB
2.4000	vertical	69.8		0.6	20.7	69.8	NRB
2.4019	vertical	73.8		0.6	20.7	73.8	OB
2.4110	vertical	109.9		0.6	20.7	109.9	OB
2.4237	vertical	73.2		0.6	20.7	73.2	OB

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 109.9 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

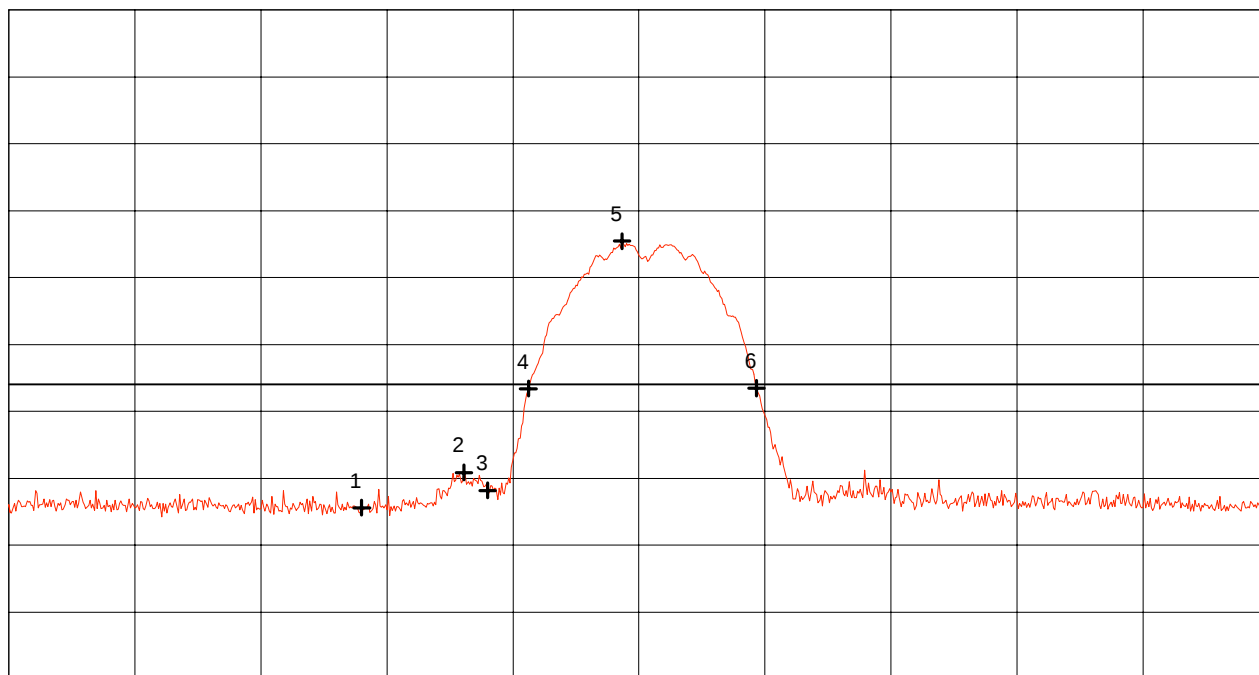
Test distance: 3 meters

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	55.59 dB μ V/m
Nr.2	2.398111 GHz	60.87 dB μ V/m
Nr.3	2.400000 GHz	58.20 dB μ V/m
Nr.4	2.403222 GHz	73.39 dB μ V/m
Nr.5	2.410667 GHz	95.43 dB μ V/m
Nr.6	2.421333 GHz	73.46 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

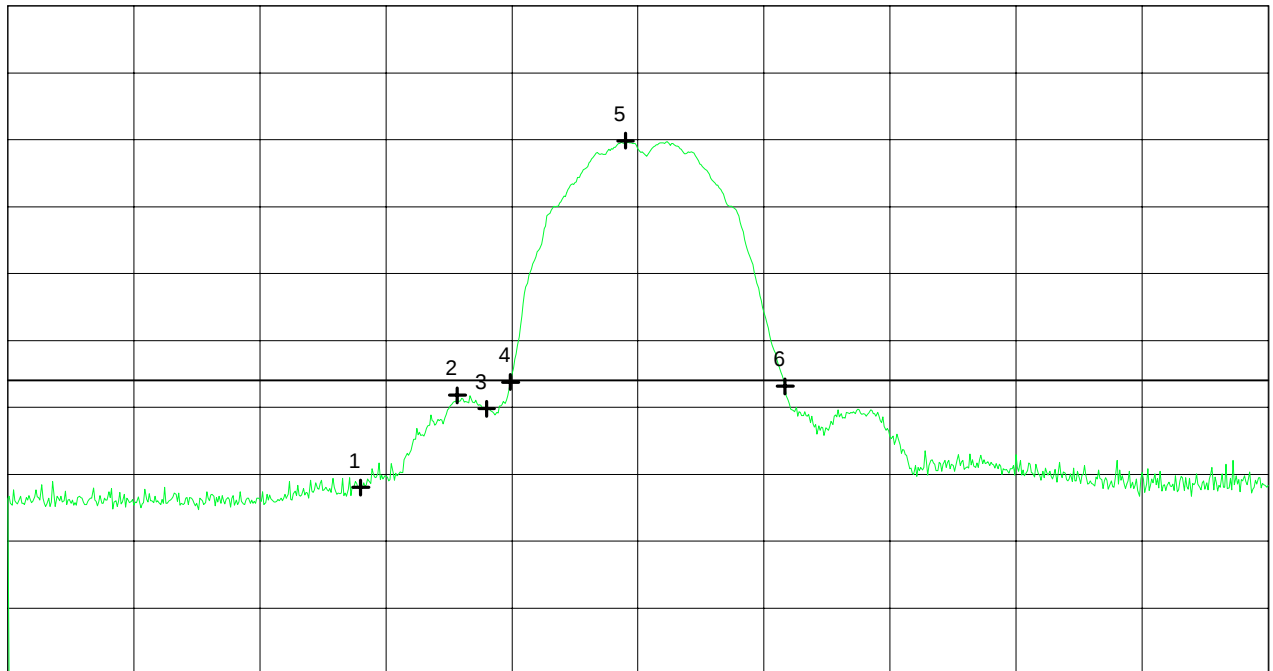
Test distance: 3 meters

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	58.05 dB μ V/m
Nr.2	2.397667 GHz	71.81 dB μ V/m
Nr.3	2.400000 GHz	69.80 dB μ V/m
Nr.4	2.401889 GHz	73.79 dB μ V/m
Nr.5	2.411000 GHz	109.85 dB μ V/m
Nr.6	2.423667 GHz	73.16 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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	47.6		0.6	20.7	47.6	54
2.3933	vertical	53.8		0.6	20.7	53.8	NRB
2.3983	vertical	66.8		0.6	20.7	66.8	NRB
2.4000	vertical	63.2		0.6	20.7	63.2	NRB
2.4130	vertical	106.3		0.6	20.7	106.3	OB
2.4324	vertical	53.8		0.6	20.7	53.8	OB

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

NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 106.3 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

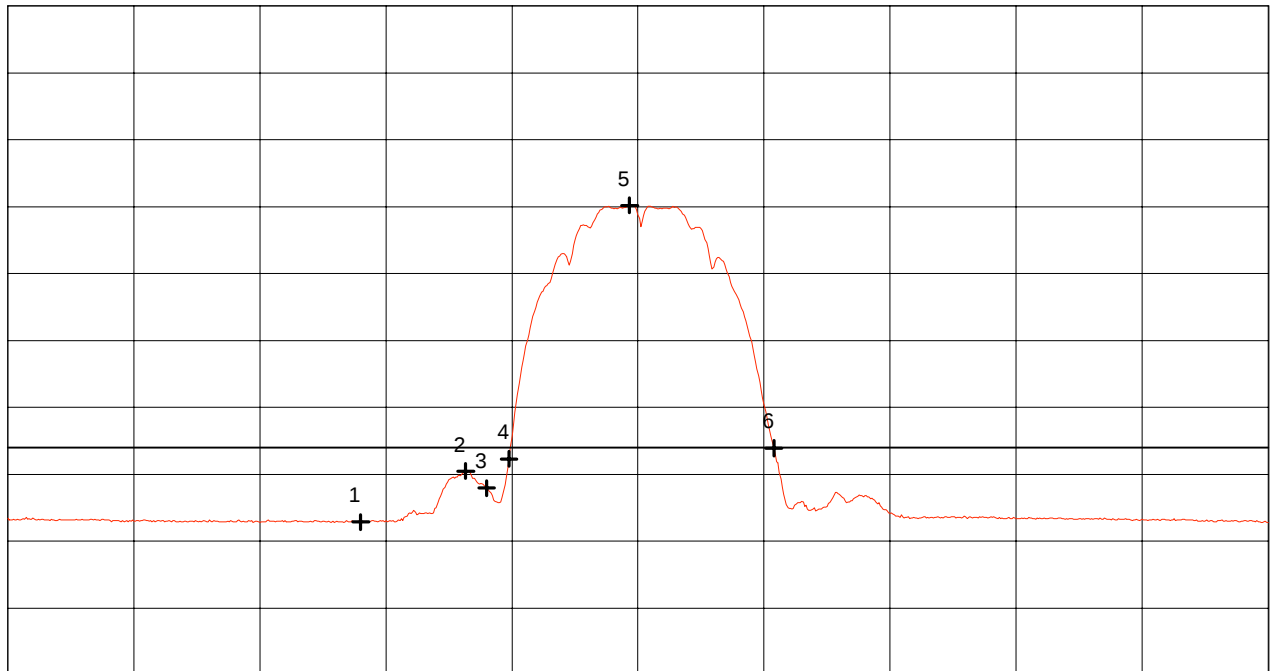
Test distance: 3 meters

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	42.86 dB μ V/m
Nr.2	2.398333 GHz	50.46 dB μ V/m
Nr.3	2.400000 GHz	47.94 dB μ V/m
Nr.4	2.401778 GHz	52.29 dB μ V/m
Nr.5	2.411333 GHz	90.20 dB μ V/m
Nr.6	2.422778 GHz	53.89 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.412$ GHz

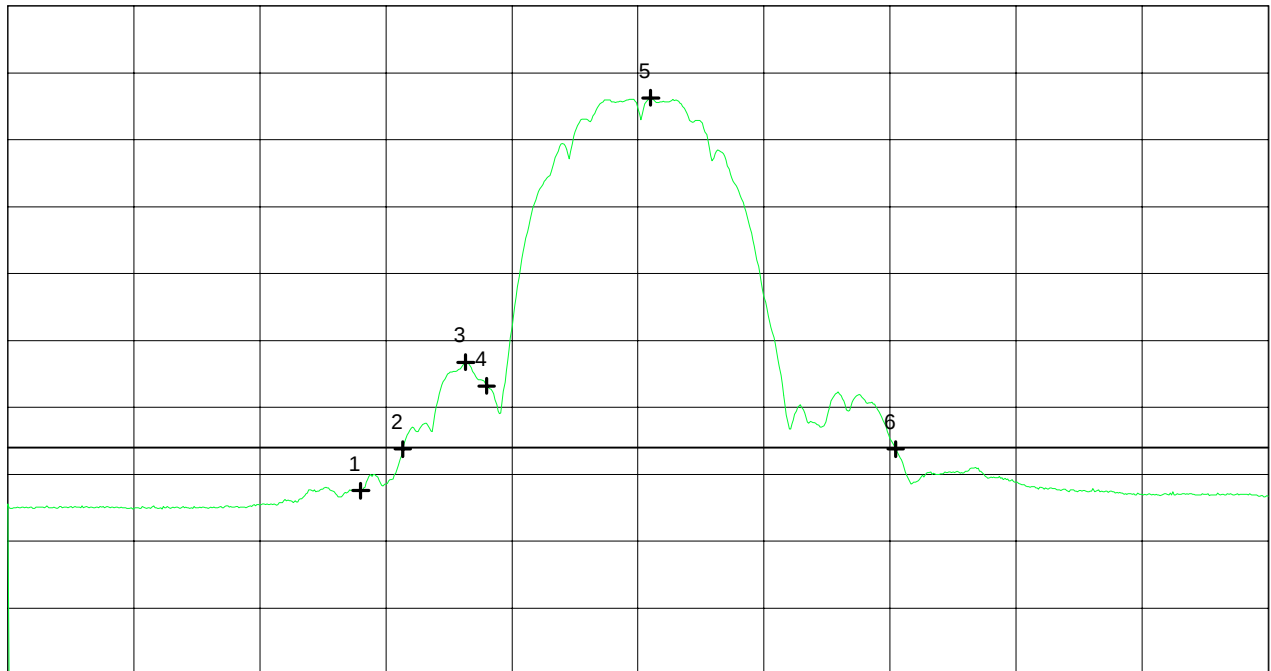
Test distance: 3 meters

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	47.56 dB μ V/m
Nr.2	2.393333 GHz	53.76 dB μ V/m
Nr.3	2.398333 GHz	66.76 dB μ V/m
Nr.4	2.400000 GHz	63.20 dB μ V/m
Nr.5	2.413000 GHz	106.27 dB μ V/m
Nr.6	2.432444 GHz	53.76 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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]
2.4318	vertical	73.2		0.6	20.7	73.2	OB
2.4414	vertical	113.9		0.6	20.7	113.9	OB
2.4532	vertical	73.6		0.6	20.7	73.6	OB
2.7950	vertical	43.3		0.7	23.7	43.3	74
4.8894	vertical	42.5	-91.9		27.3	42.4	74
7.3305	vertical	44.5	-92.2		29.9	44.8	74
9.7680	vertical	50.0	-90.0		33.4	50.4	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 113.9 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

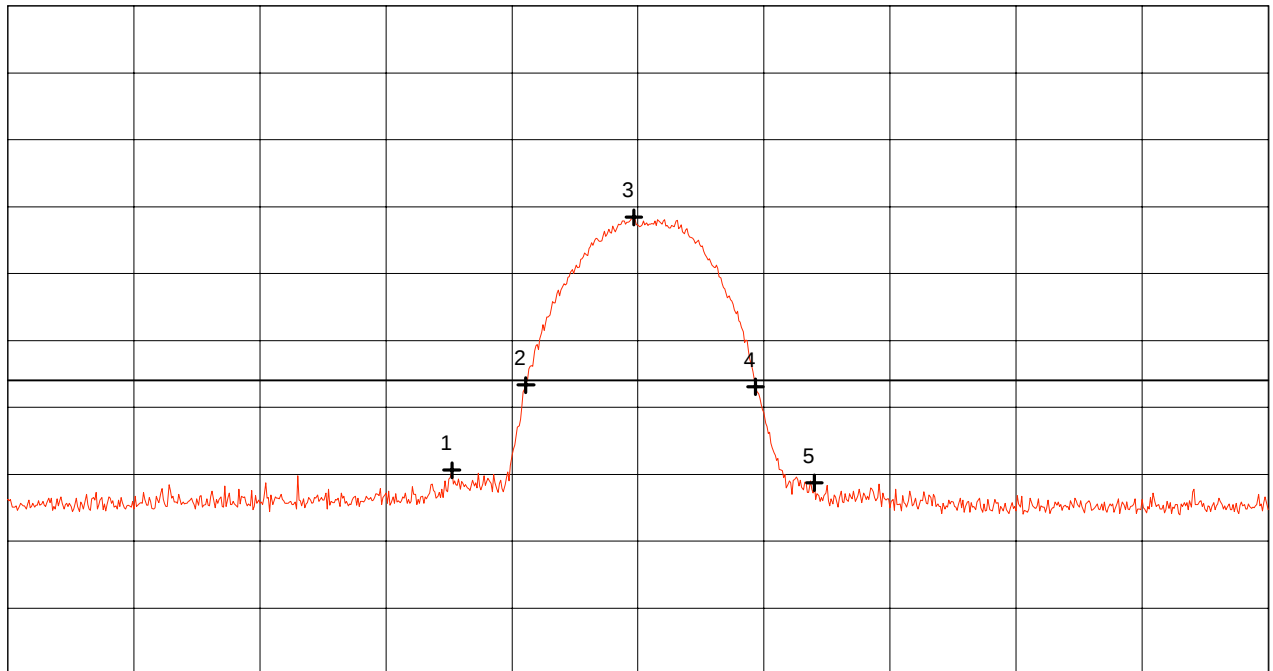
Test distance: 3 meters

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	2.427222 GHz	60.61 dB μ V/m
Nr.2	2.433111 GHz	73.34 dB μ V/m
Nr.3	2.441667 GHz	98.40 dB μ V/m
Nr.4	2.451333 GHz	73.08 dB μ V/m
Nr.5	2.456000 GHz	58.71 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

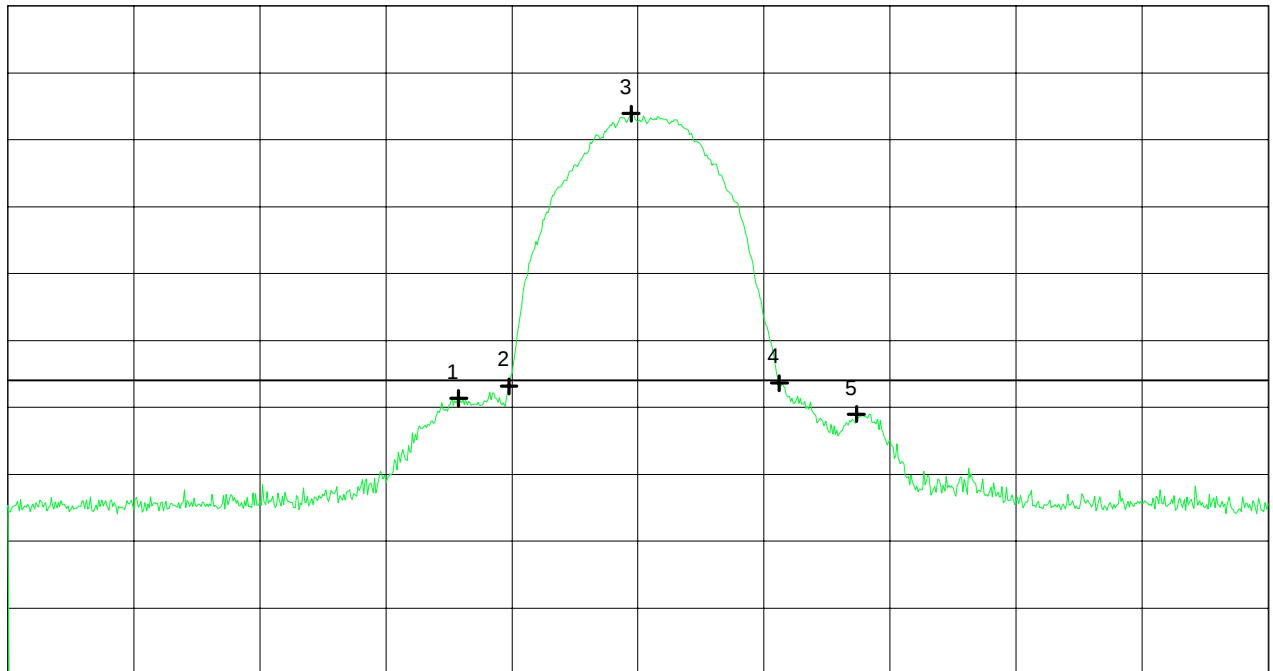
Test distance: 3 meters

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	2.427778 GHz	71.35 dB μ V/m
Nr.2	2.431778 GHz	73.16 dB μ V/m
Nr.3	2.441444 GHz	113.89 dB μ V/m
Nr.4	2.453222 GHz	73.64 dB μ V/m
Nr.5	2.459333 GHz	68.99 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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]
2.4241	vertical	53.9		0.6	20.7	53.9	OB
2.4436	vertical	107.5		0.6	20.7	107.5	OB
2.4616	vertical	54.0		0.6	20.7	54.0	OB
7.3261	vertical	36.1	-100.5		29.9	36.4	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 107.5 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

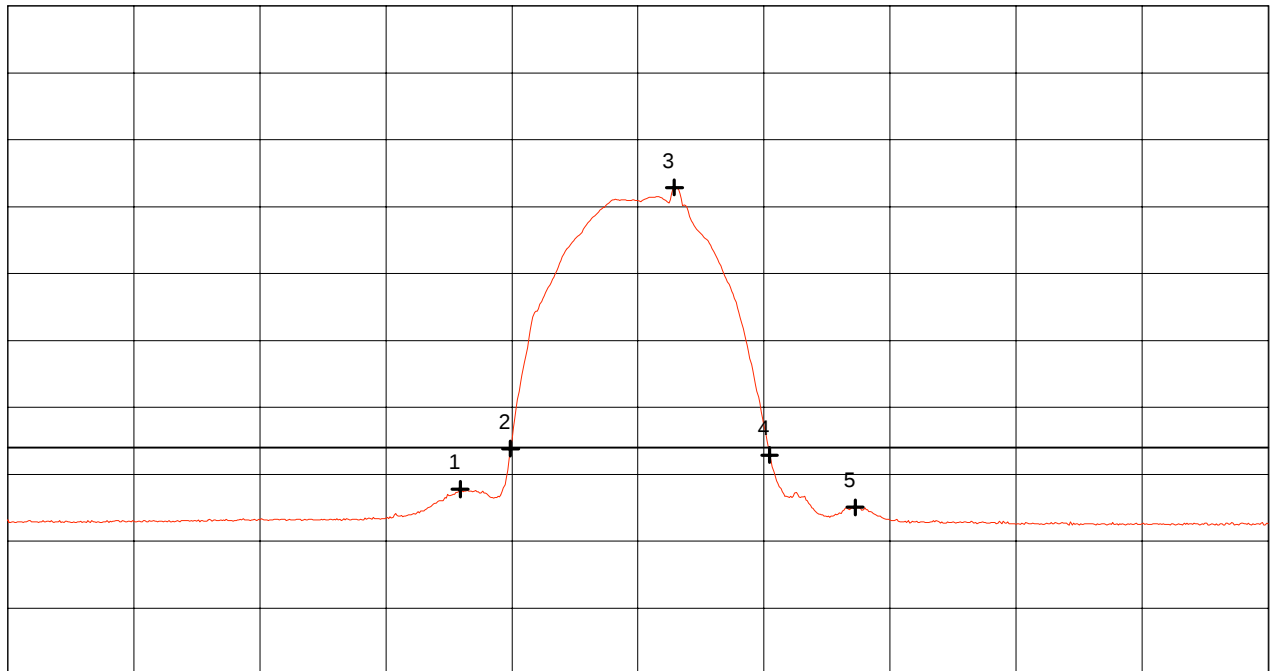
Test distance: 3 meters

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	2.427889 GHz	47.77 dB μ V/m
Nr.2	2.431889 GHz	53.83 dB μ V/m
Nr.3	2.444889 GHz	92.86 dB μ V/m
Nr.4	2.452444 GHz	52.89 dB μ V/m
Nr.5	2.459222 GHz	45.07 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.442$ GHz

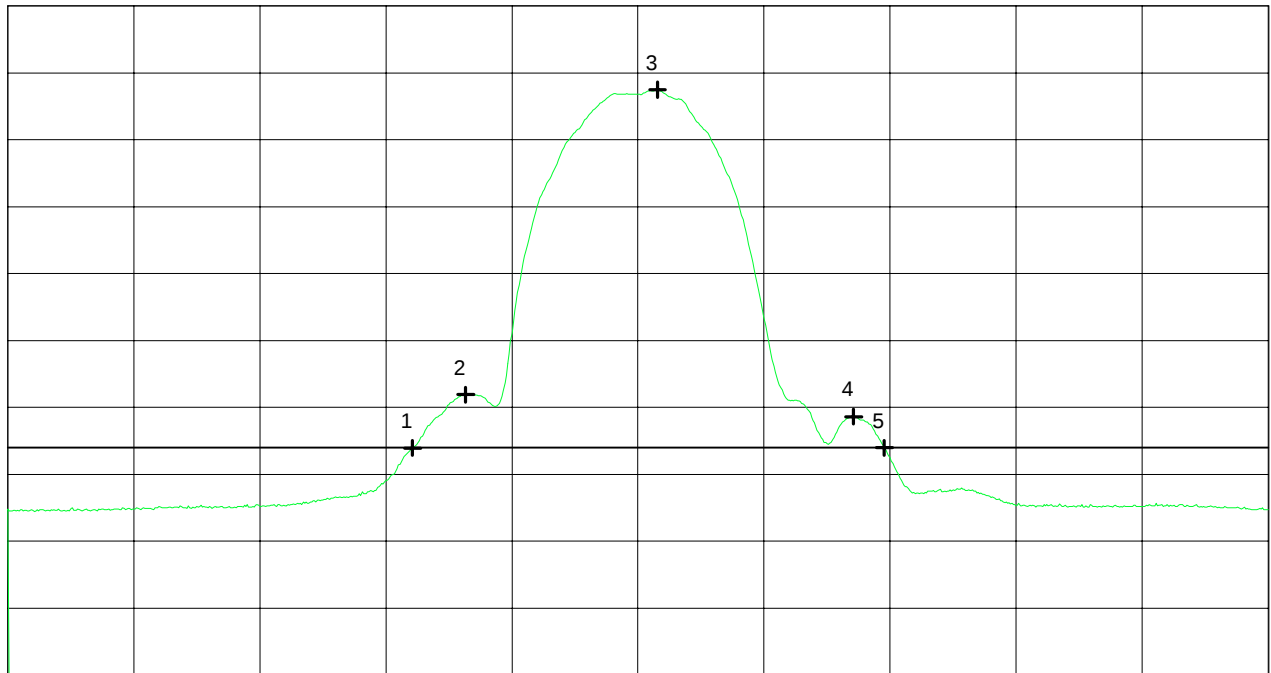
Test distance: 3 meters

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	2.424111 GHz	53.93 dB μ V/m
Nr.2	2.428333 GHz	61.91 dB μ V/m
Nr.3	2.443556 GHz	107.49 dB μ V/m
Nr.4	2.459111 GHz	58.63 dB μ V/m
Nr.5	2.461556 GHz	53.96 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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]
2.4319	vertical	73.2		0.6	20.7	73.2	OB
2.4439	vertical	111.5		0.6	20.7	111.5	OB
2.4533	vertical	73.9		0.6	20.7	73.9	OB
7.3272	vertical	44.8	-91.9		29.9	45.0	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 111.5 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

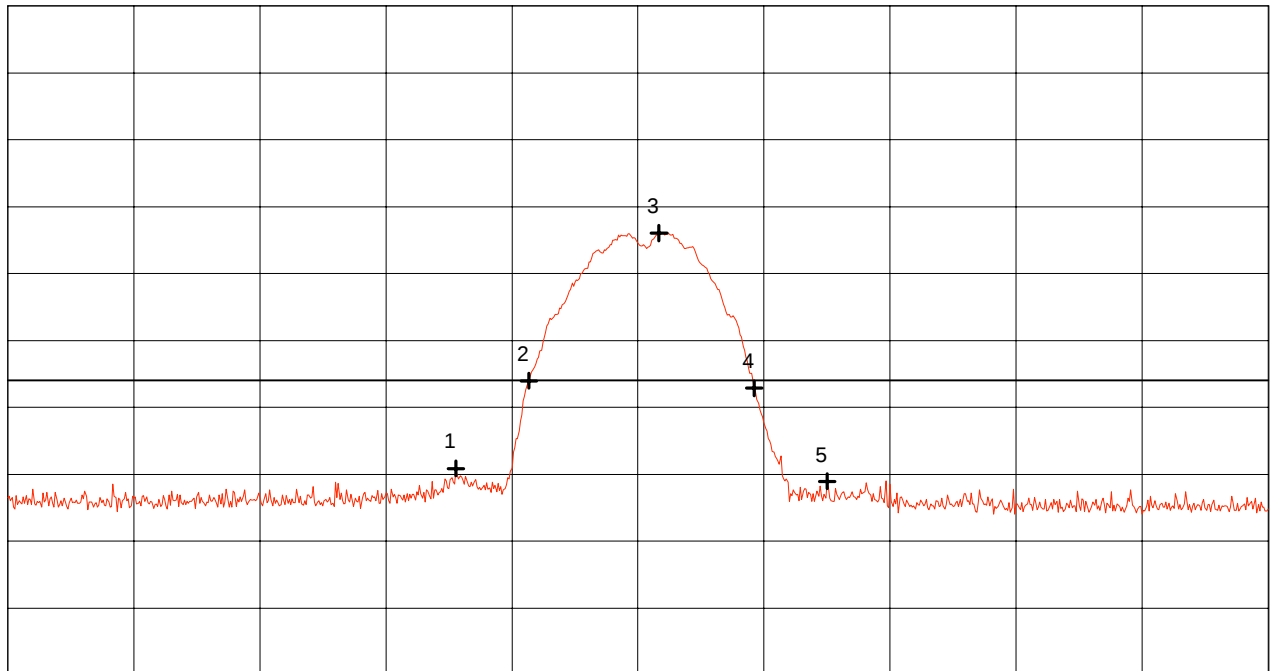
Test distance: 3 meters

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	2.427556 GHz	60.87 dB μ V/m
Nr.2	2.433333 GHz	73.95 dB μ V/m
Nr.3	2.443667 GHz	96.06 dB μ V/m
Nr.4	2.451222 GHz	72.85 dB μ V/m
Nr.5	2.457000 GHz	58.94 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

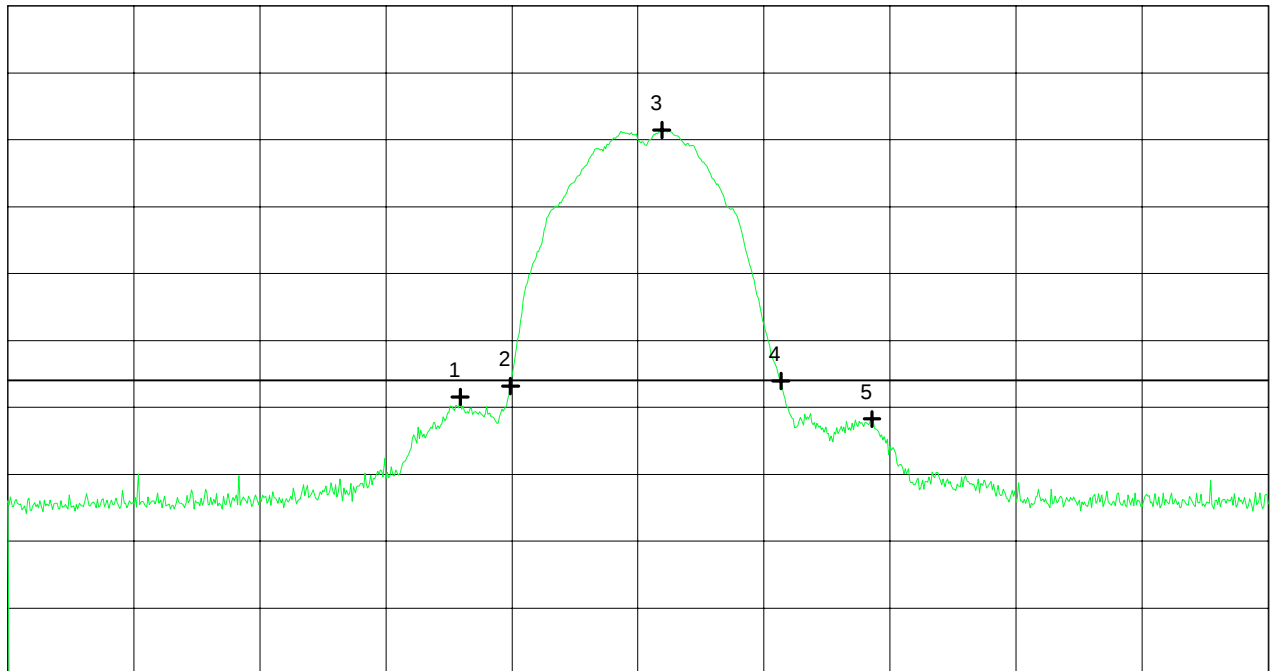
Test distance: 3 meters

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	2.427889 GHz	71.53 dB μ V/m
Nr.2	2.431889 GHz	73.18 dB μ V/m
Nr.3	2.443889 GHz	111.45 dB μ V/m
Nr.4	2.453333 GHz	73.94 dB μ V/m
Nr.5	2.460556 GHz	68.26 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
 - with external antenna AOU24-WA-12-B
 - 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 [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
2.4234	vertical	53.9		0.6	20.7	53.9	OB
2.4430	vertical	108.2		0.6	20.7	108.2	OB
2.4618	vertical	53.9		0.6	20.7	53.9	OB
7.3271	vertical	38.2	-98.4		29.9	38.5	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 108.2 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

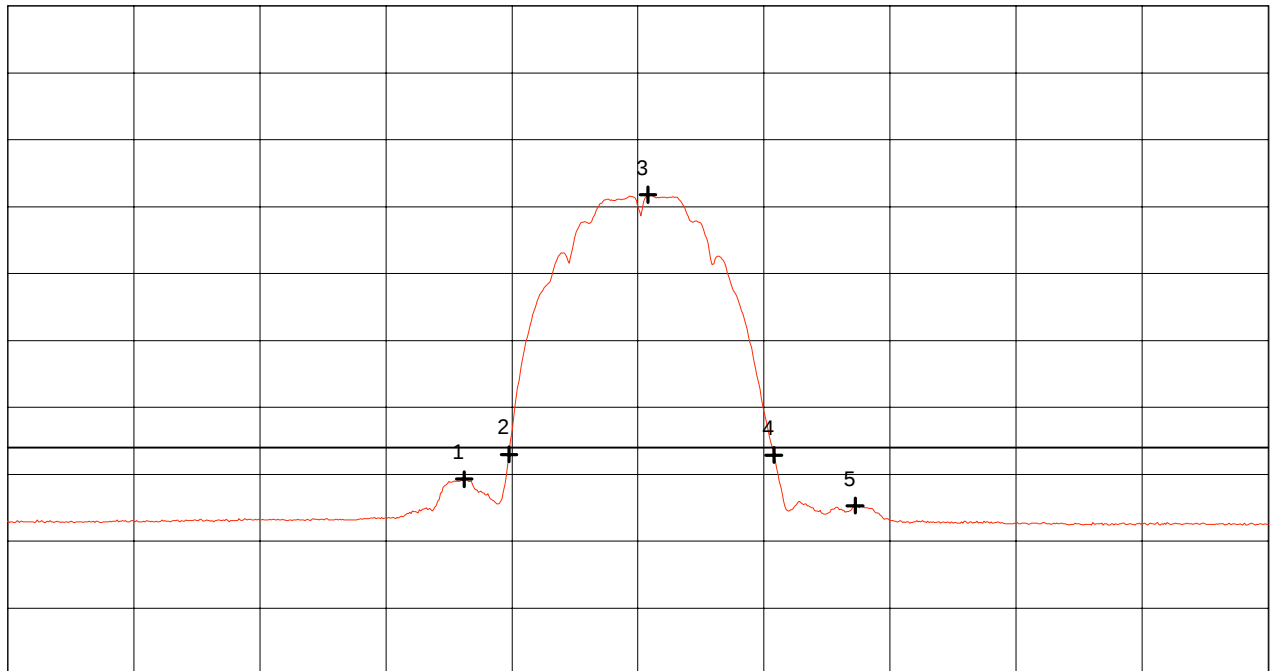
Test distance: 3 meters

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	2.428222 GHz	49.26 dB μ V/m
Nr.2	2.431778 GHz	52.97 dB μ V/m
Nr.3	2.442778 GHz	91.80 dB μ V/m
Nr.4	2.452778 GHz	52.89 dB μ V/m
Nr.5	2.459222 GHz	45.30 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.442$ GHz

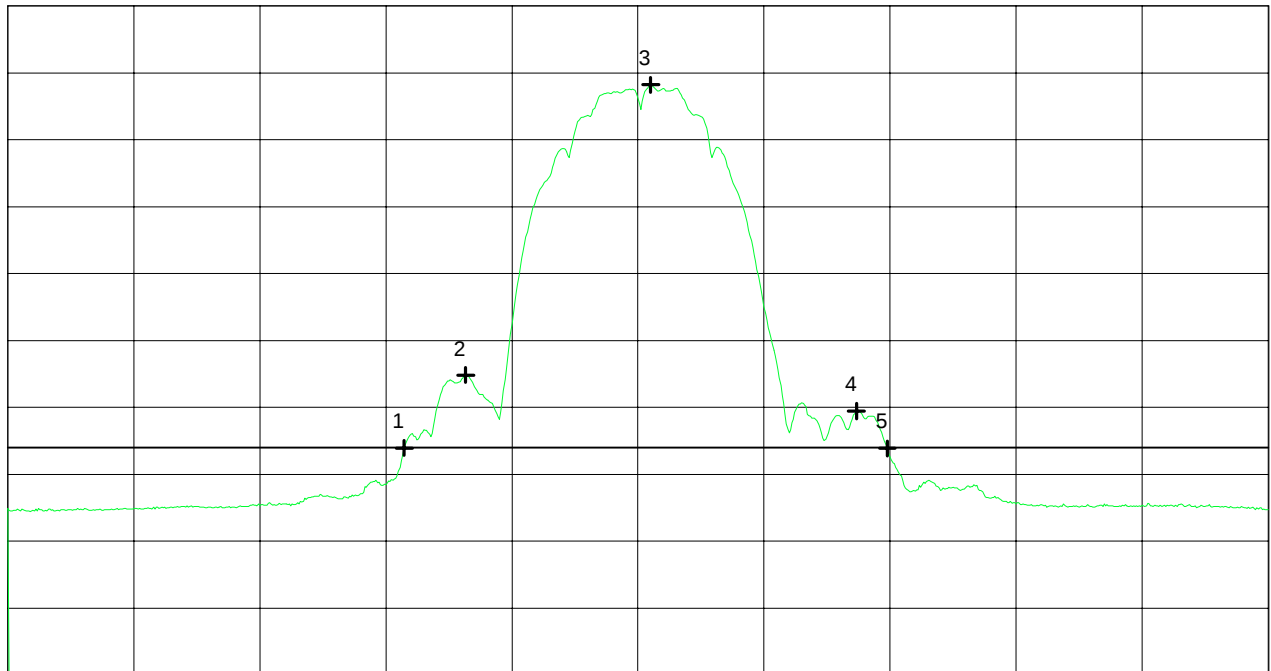
Test distance: 3 meters

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	2.423444 GHz	53.93 dB μ V/m
Nr.2	2.428333 GHz	64.83 dB μ V/m
Nr.3	2.443000 GHz	108.22 dB μ V/m
Nr.4	2.459333 GHz	59.44 dB μ V/m
Nr.5	2.461778 GHz	53.86 dB μ V/m
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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]
2.4517	vertical	73.4		0.6	20.7	73.4	OB
2.4614	vertical	113.9		0.6	20.7	113.9	OB
2.4732	vertical	74.0		0.6	20.7	74.0	OB
2.4835	vertical	60.7		0.6	20.7	60.7	74
2.4838	vertical	60.0		0.6	20.7	60.0	74
2.5000	vertical	55.3		0.6	20.7	55.3	74
4.9296	vertical	44.9	-89.5		27.3	44.8	74
7.3906	vertical	41.4	-94.7		30.0	42.3	74
8.4473	vertical	42.1	-98.1		33.4	42.3	74
9.8473	vertical	50.8	-89.0		33.4	51.5	NRB
12.3253	horizontal	43.2	-97.6		33.6	43.0	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 113.9 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

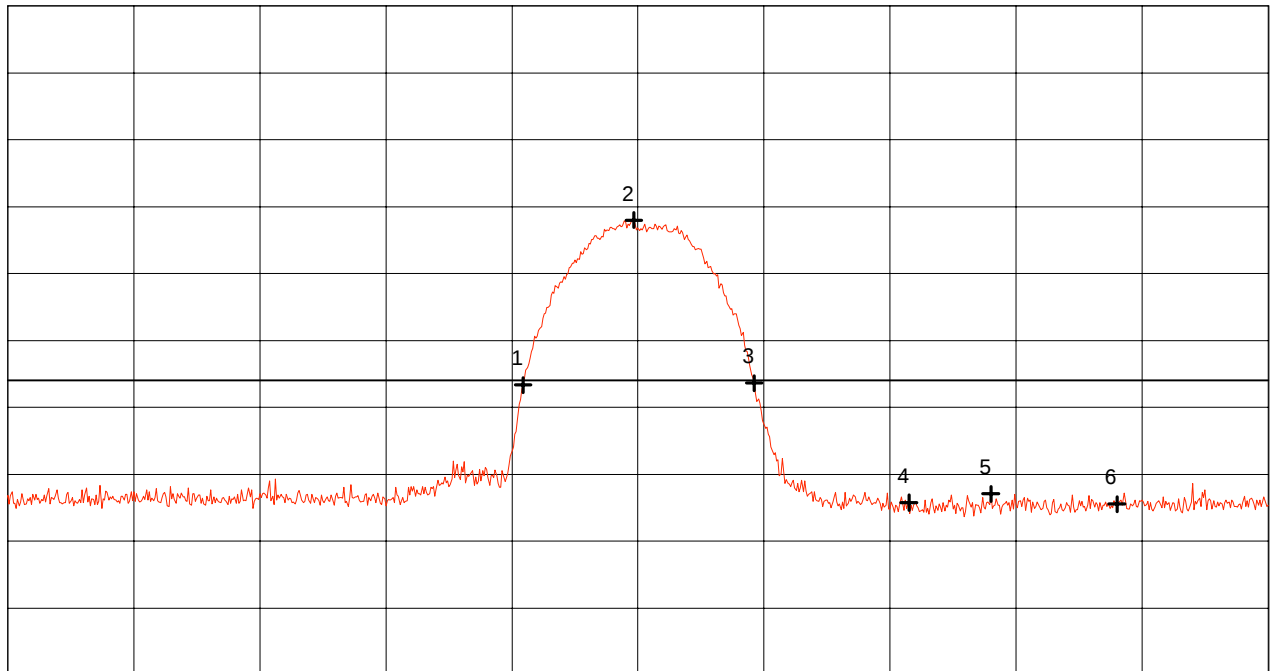
Test distance: 3 meters

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	2.452889 GHz	73.36 dB μ V/m
Nr.2	2.461667 GHz	97.99 dB μ V/m
Nr.3	2.471222 GHz	73.64 dB μ V/m
Nr.4	2.483500 GHz	55.76 dB μ V/m
Nr.5	2.490000 GHz	57.08 dB μ V/m
Nr.6	2.500000 GHz	55.54 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

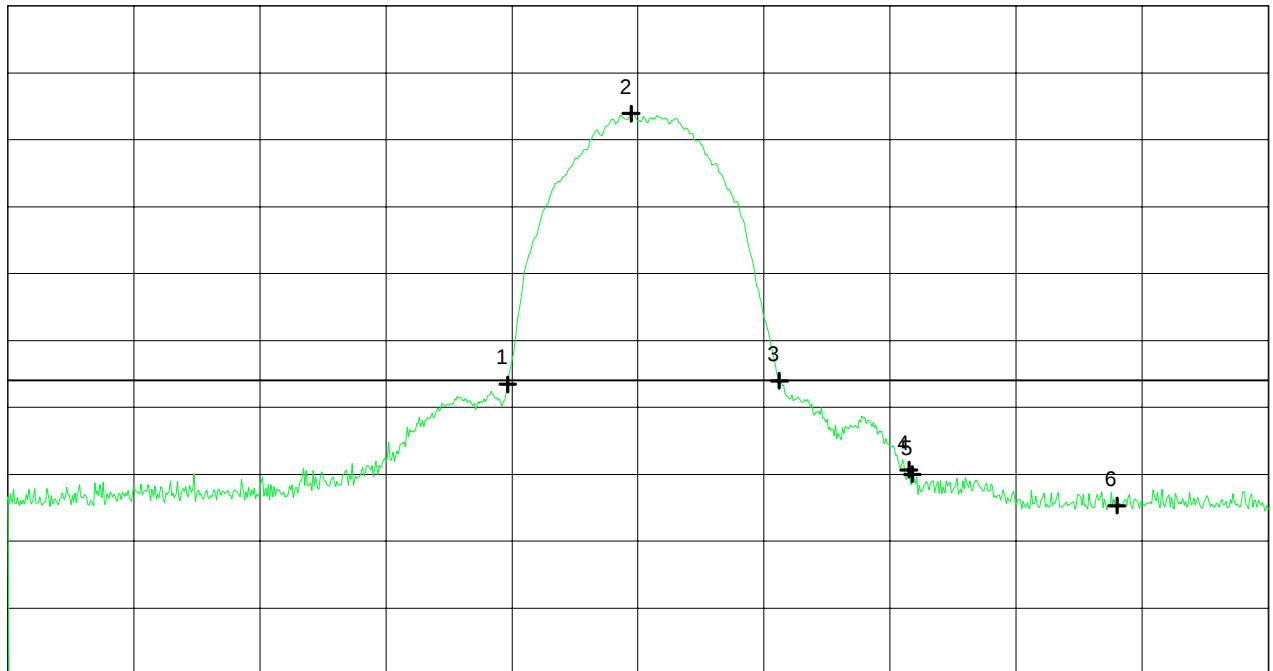
Test distance: 3 meters

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	2.451667 GHz	73.44 dB μ V/m
Nr.2	2.461444 GHz	113.89 dB μ V/m
Nr.3	2.473222 GHz	73.99 dB μ V/m
Nr.4	2.483500 GHz	60.66 dB μ V/m
Nr.5	2.483778 GHz	59.98 dB μ V/m
Nr.6	2.500000 GHz	55.30 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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]
2.4430	vertical	53.9		0.6	20.7	53.9	OB
2.4636	vertical	107.8		0.6	20.7	107.8	OB
2.4817	vertical	53.8		0.6	20.7	53.8	OB
2.4835	vertical	48.2		0.6	20.7	48.2	54
2.4877	vertical	48.4		0.6	20.7	48.4	54
2.5000	vertical	44.9		0.6	20.7	44.9	54
4.9241	vertical	40.4	-93.8		27.3	40.5	54
9.8481	vertical	48.5	-91.0		33.4	49.4	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 107.8 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

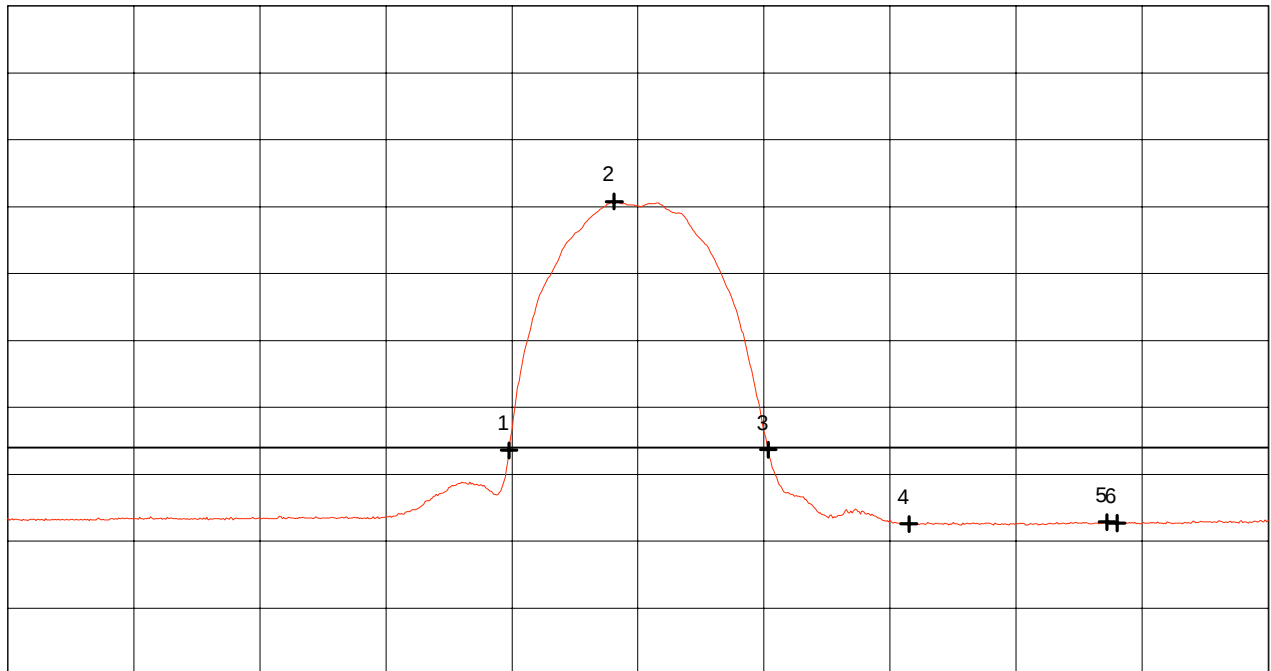
Test distance: 3 meters

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	2.451778 GHz	53.58 dB μ V/m
Nr.2	2.460111 GHz	90.78 dB μ V/m
Nr.3	2.472333 GHz	53.66 dB μ V/m
Nr.4	2.483500 GHz	42.56 dB μ V/m
Nr.5	2.499222 GHz	42.86 dB μ V/m
Nr.6	2.500000 GHz	42.69 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 11 Mbps

- TX mode with $f = 2.462$ GHz

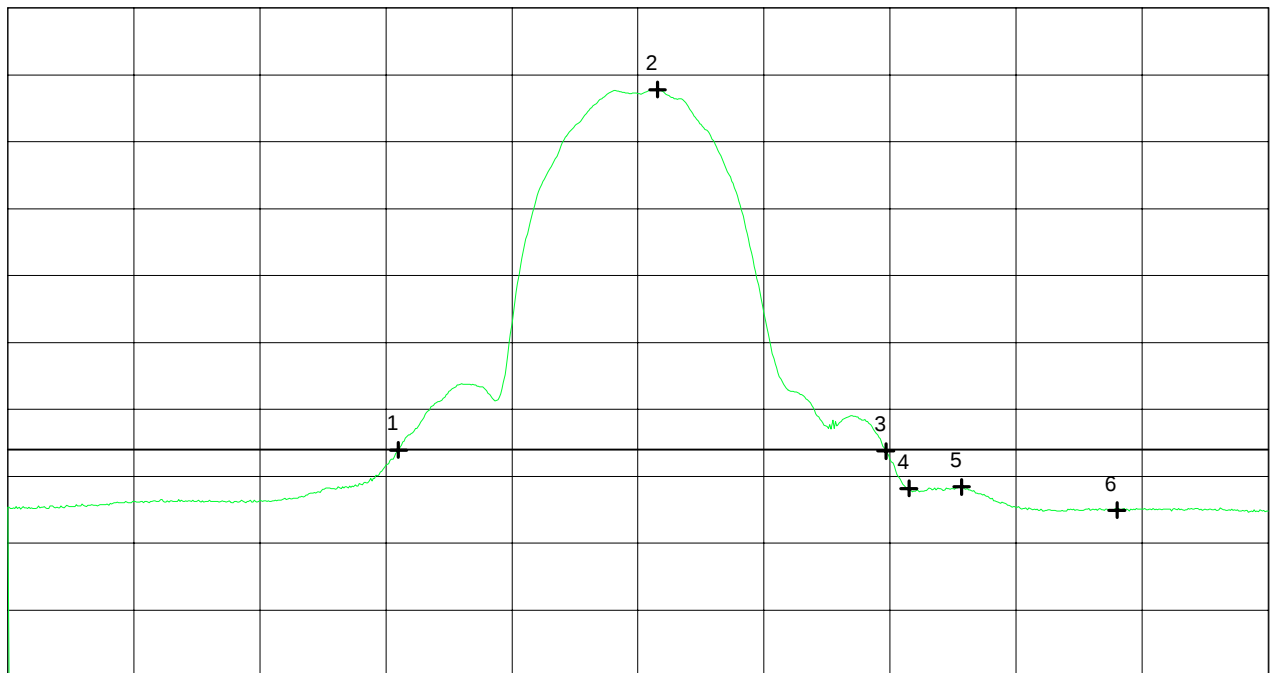
Test distance: 3 meters

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	2.443000 GHz	53.91 dB μ V/m
Nr.2	2.463556 GHz	107.79 dB μ V/m
Nr.3	2.481667 GHz	53.76 dB μ V/m
Nr.4	2.483500 GHz	48.17 dB μ V/m
Nr.5	2.487667 GHz	48.42 dB μ V/m
Nr.6	2.500000 GHz	44.92 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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 [dB μ V]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.4518	vertical	74.0		0.6	20.7	74.0	OB
2.4639	vertical	111.9		0.6	20.7	111.9	OB
2.4736	vertical	73.6		0.6	20.7	73.6	OB
2.4835	vertical	59.3		0.6	20.7	59.3	74
2.4862	vertical	61.6		0.6	20.7	61.6	74
2.5000	vertical	56.5		0.6	20.7	56.5	74
4.9241	vertical	47.1	-87.3		27.3	47.0	74
9.8480	vertical	51.7	-88.0		33.4	52.5	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 111.9 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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

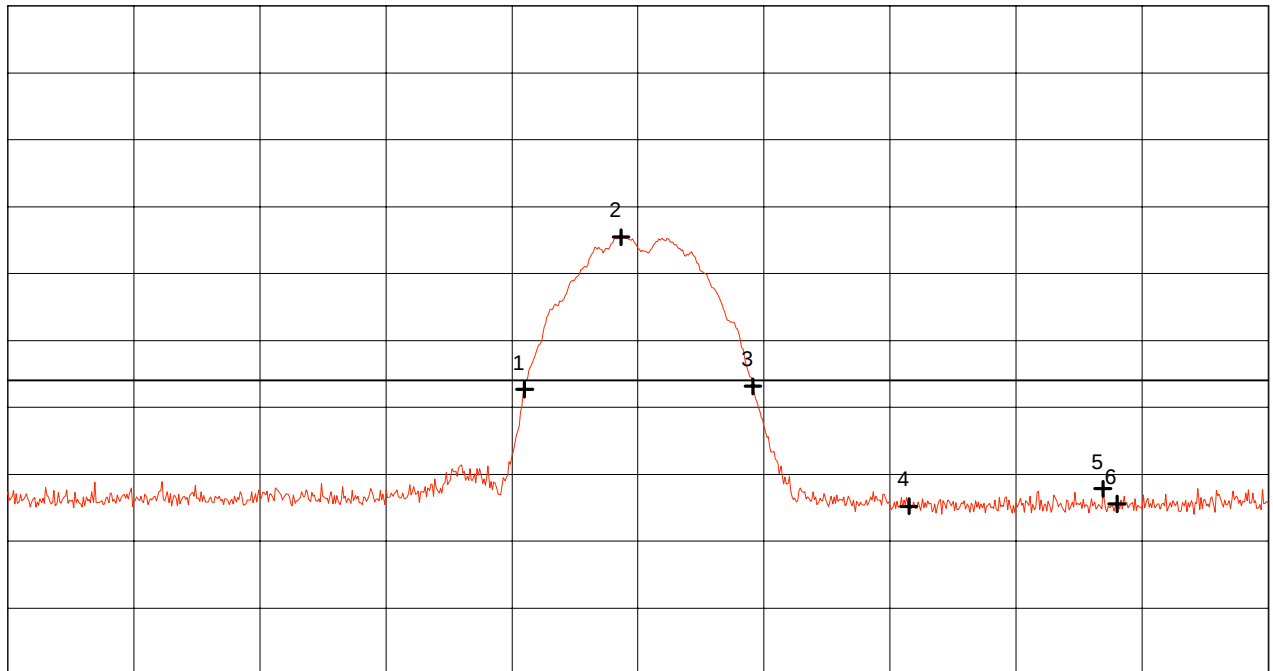
Test distance: 3 meters

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	2.453000 GHz	72.65 dB μ V/m
Nr.2	2.460667 GHz	95.45 dB μ V/m
Nr.3	2.471111 GHz	73.16 dB μ V/m
Nr.4	2.483500 GHz	55.23 dB μ V/m
Nr.5	2.498889 GHz	57.85 dB μ V/m
Nr.6	2.500000 GHz	55.56 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

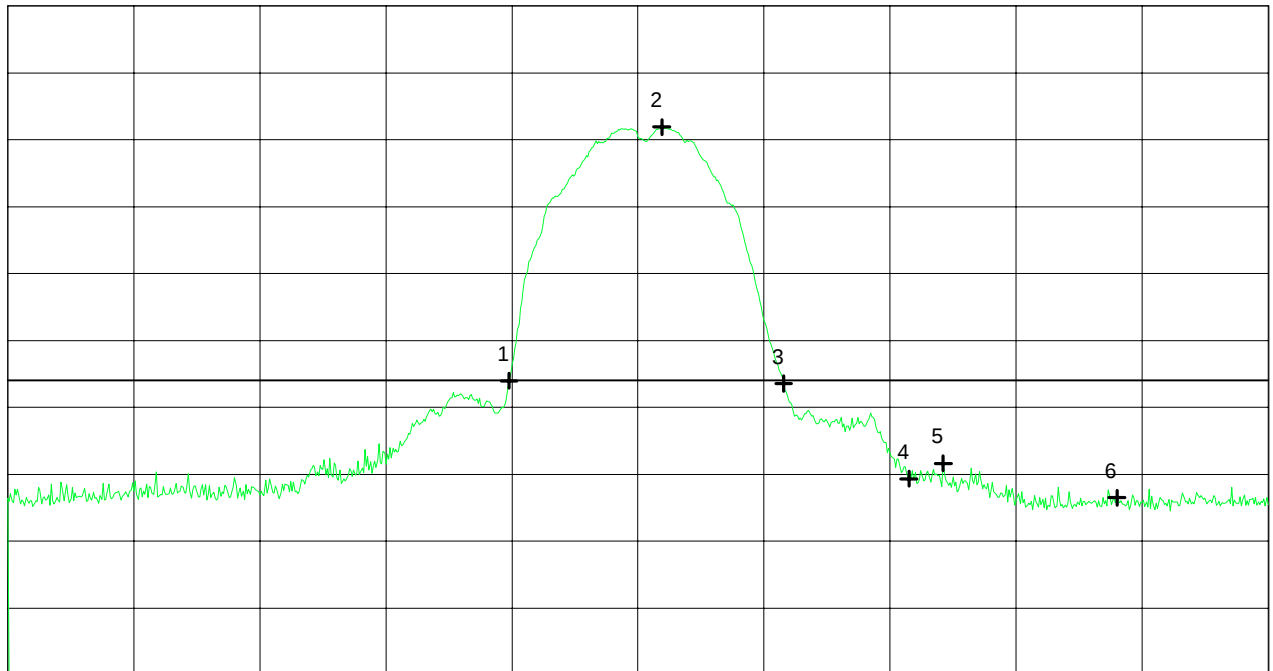
Test distance: 3 meters

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	2.451778 GHz	73.97 dB μ V/m
Nr.2	2.463889 GHz	111.88 dB μ V/m
Nr.3	2.473556 GHz	73.56 dB μ V/m
Nr.4	2.483500 GHz	59.34 dB μ V/m
Nr.5	2.486222 GHz	61.63 dB μ V/m
Nr.6	2.500000 GHz	56.50 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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: 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
- with external antenna AOU24-WA-12-B
- 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]
2.4430	vertical	54.0		0.6	20.7	54.0	OB
2.4630	vertical	108.7		0.6	20.7	108.7	OB
2.4817	vertical	54.0		0.6	20.7	54.0	OB
2.4835	vertical	48.7		0.6	20.7	48.7	54
2.4850	vertical	50.8		0.6	20.7	50.8	54
2.5000	vertical	45.3		0.6	20.7	45.3	54
4.9242	horizontal	43.9	-90.3		27.3	44.0	54
9.8481	vertical	50.2	-89.3		33.4	51.2	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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

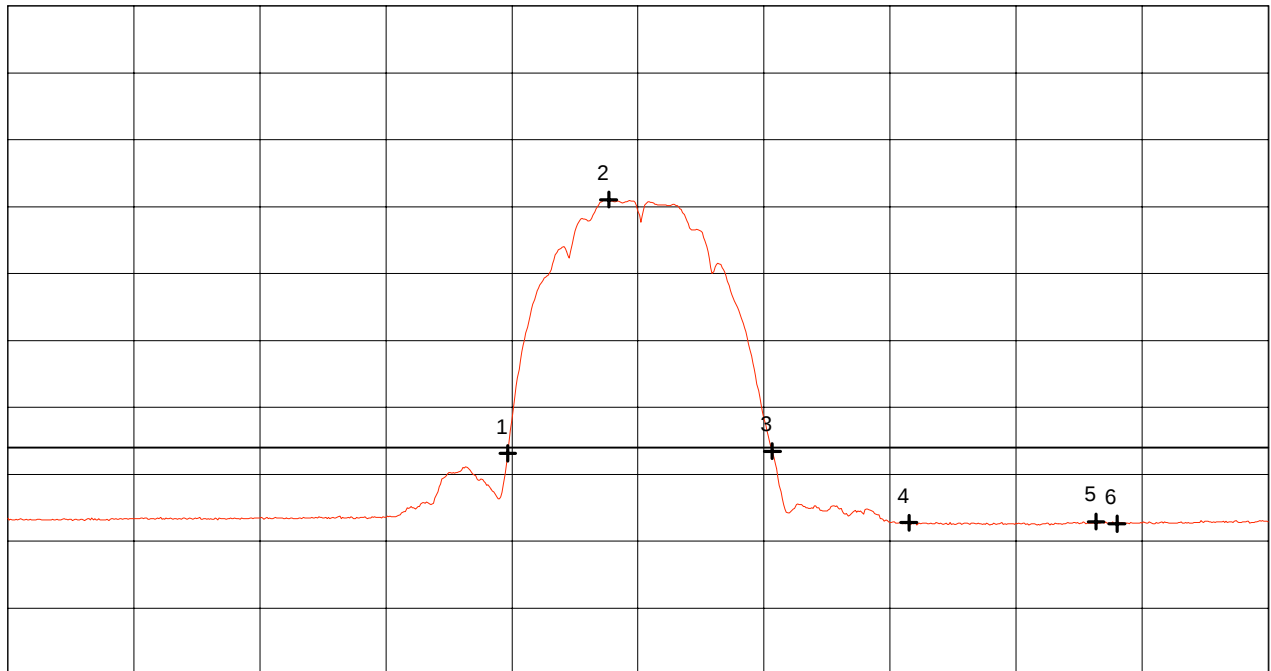
Test distance: 3 meters

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	2.451667 GHz	53.12 dB μ V/m
Nr.2	2.459667 GHz	91.06 dB μ V/m
Nr.3	2.472667 GHz	53.45 dB μ V/m
Nr.4	2.483500 GHz	42.76 dB μ V/m
Nr.5	2.498333 GHz	42.92 dB μ V/m
Nr.6	2.500000 GHz	42.61 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
56305-90735-1

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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-WA-12-B
- with 20 ft antenna cable (LMR400)

- operating with bit rate 2 Mbps

- TX mode with $f = 2.462$ GHz

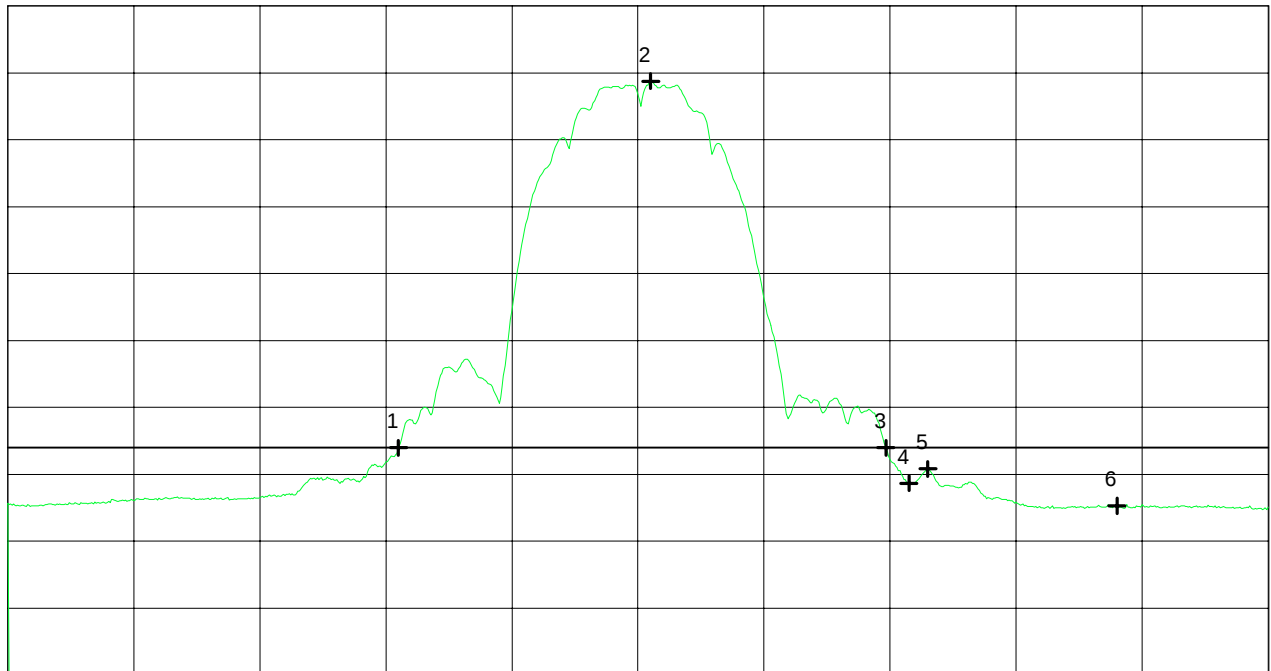
Test distance: 3 meters

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	2.443000 GHz	53.96 dB μ V/m
Nr.2	2.463000 GHz	108.73 dB μ V/m
Nr.3	2.481667 GHz	53.96 dB μ V/m
Nr.4	2.483500 GHz	48.65 dB μ V/m
Nr.5	2.485000 GHz	50.78 dB μ V/m
Nr.6	2.500000 GHz	45.27 dB μ V/m
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Date:
11/29/1999

Project-No.:
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Test results for
Receive (RX) mode

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: 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
 - with external antenna AOU24-WA-12-B
 - with 20 ft antenna cable (LMR400)

 - RX mode with $f = 2.442$ GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer- reading [dB μ V]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dB μ V/m]	Limit [dB μ V/m]
2.0951	horizontal	40.4	-97.0		29.4	39.4	74
8.3680	vertical	41.9	-98.0		33.4	42.4	74

Result: The limits are kept

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: 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
 - with external antenna AOU24-WA-12-B
 - with 20 ft antenna cable (LMR400)

 - RX mode with $f = 2.442$ GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer- reading [dBμV]	Generator- level [dBm]	Cable loss [dB]	Antenna- correction [dB]	Fieldstrength [dBμV/m]	Limit [dBμV/m]
1.000 -12.500	Margin of peak levels to average limit > 10 dB						54

Result: The limits are kept