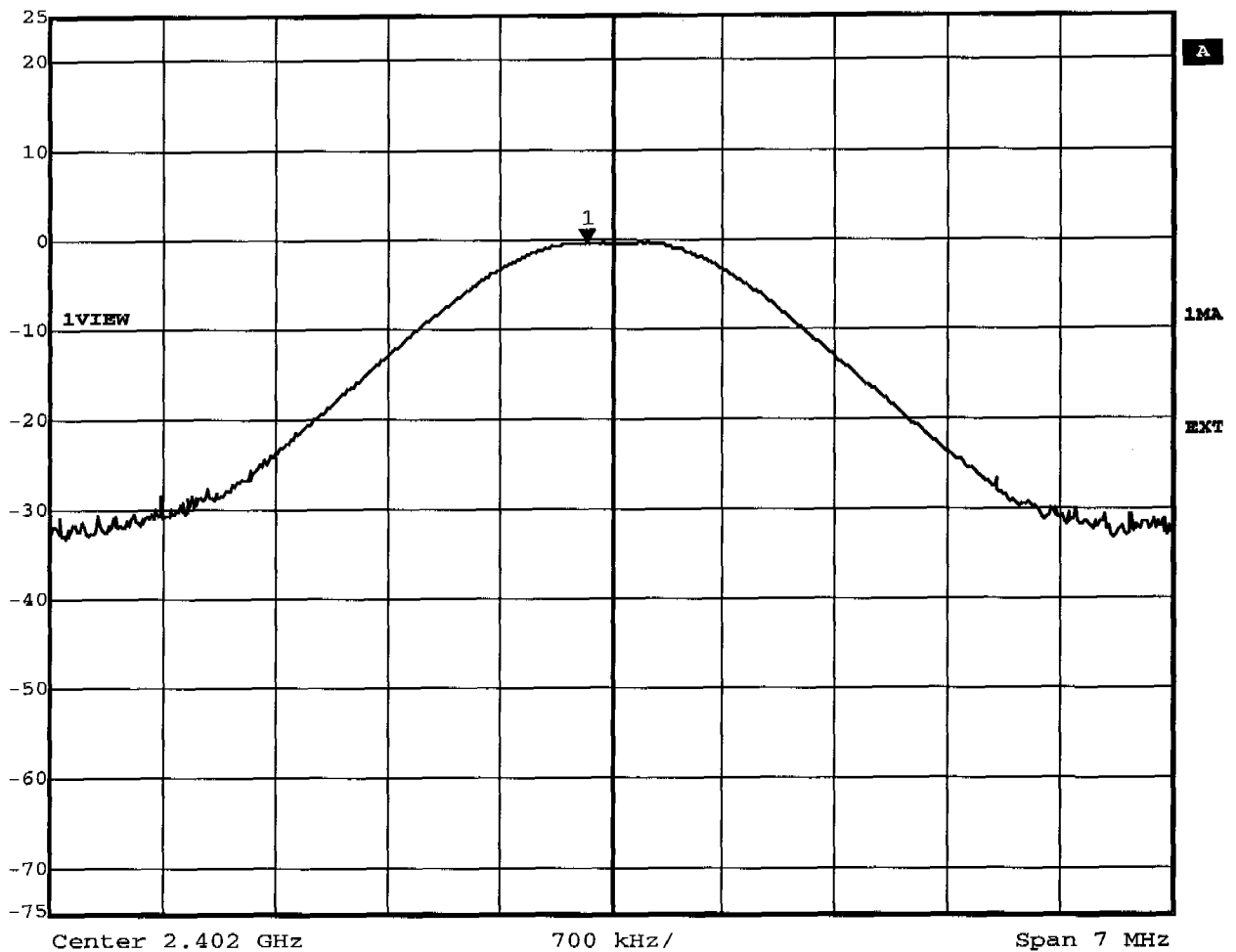


## Appendix B

Peak Output Power



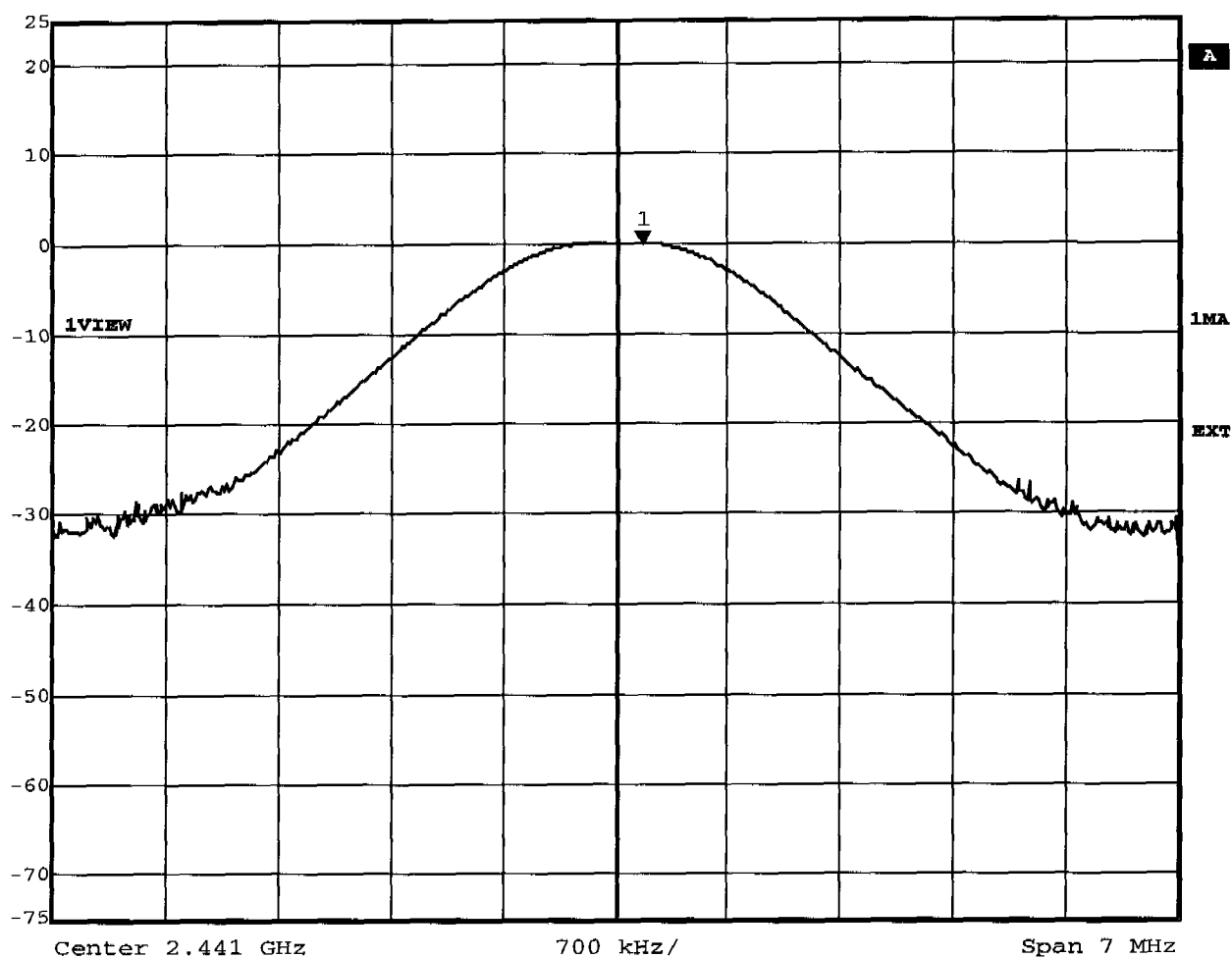
|         |                |     |       |        |       |
|---------|----------------|-----|-------|--------|-------|
| Ref Lvl | Marker 1 [T1]  | RBW | 1 MHz | RF Att | 50 dB |
| 25 dBm  | -0.48 dBm      | VBW | 1 MHz |        |       |
|         | 2.40185271 GHz | SWT | 5 ms  | Unit   | dBm   |



Title: Peak Output Power conducted Ch.: 0  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 08:49:45



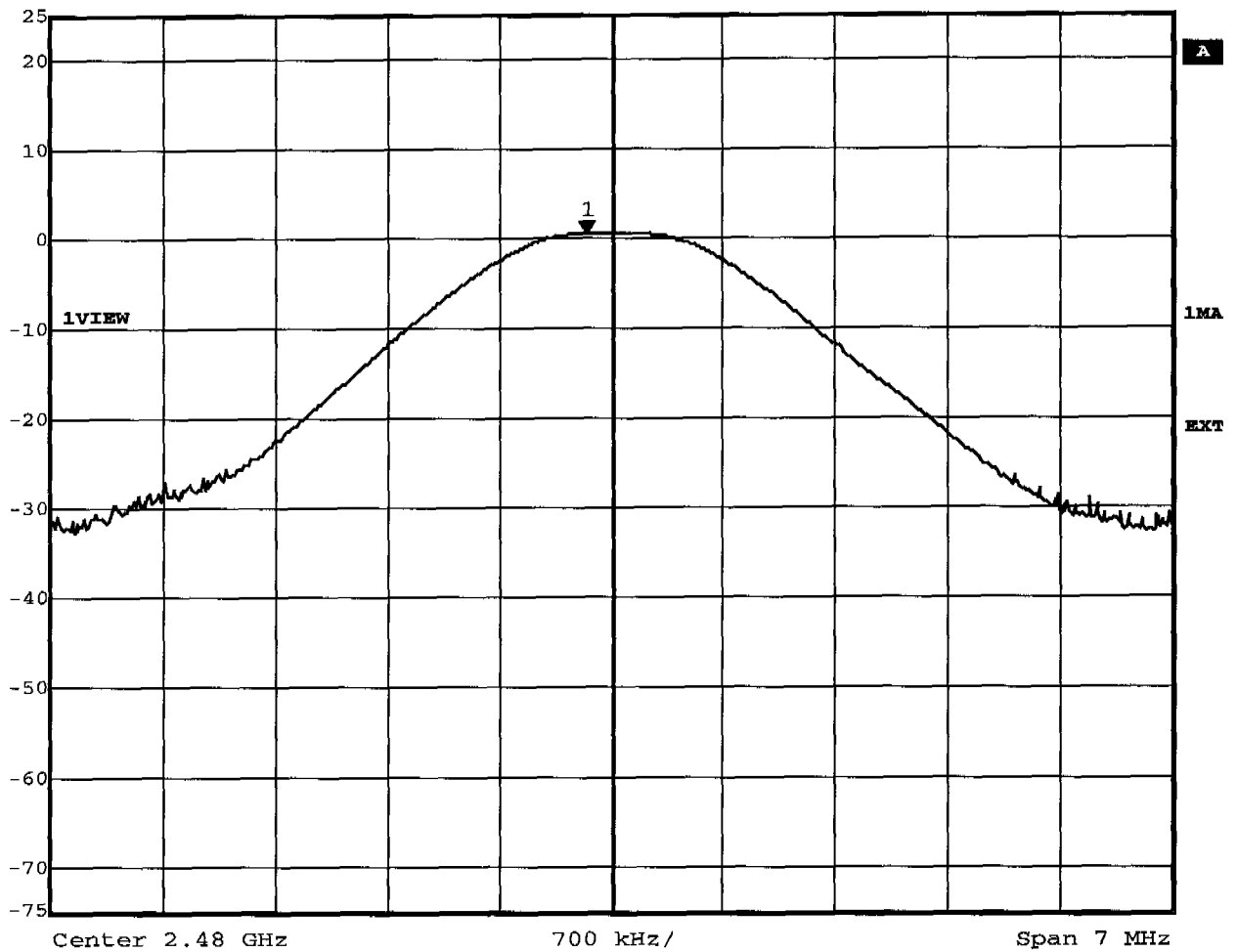
|         |                |     |       |        |       |
|---------|----------------|-----|-------|--------|-------|
| Ref Lvl | Marker 1 [T1]  | RBW | 1 MHz | RF Att | 50 dB |
| 25 dBm  | -0.09 dBm      | VBW | 1 MHz |        |       |
|         | 2.44117535 GHz | SWT | 5 ms  | Unit   | dBm   |



Title: Peak Output Power conducted Ch.: 39  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 08:51:04



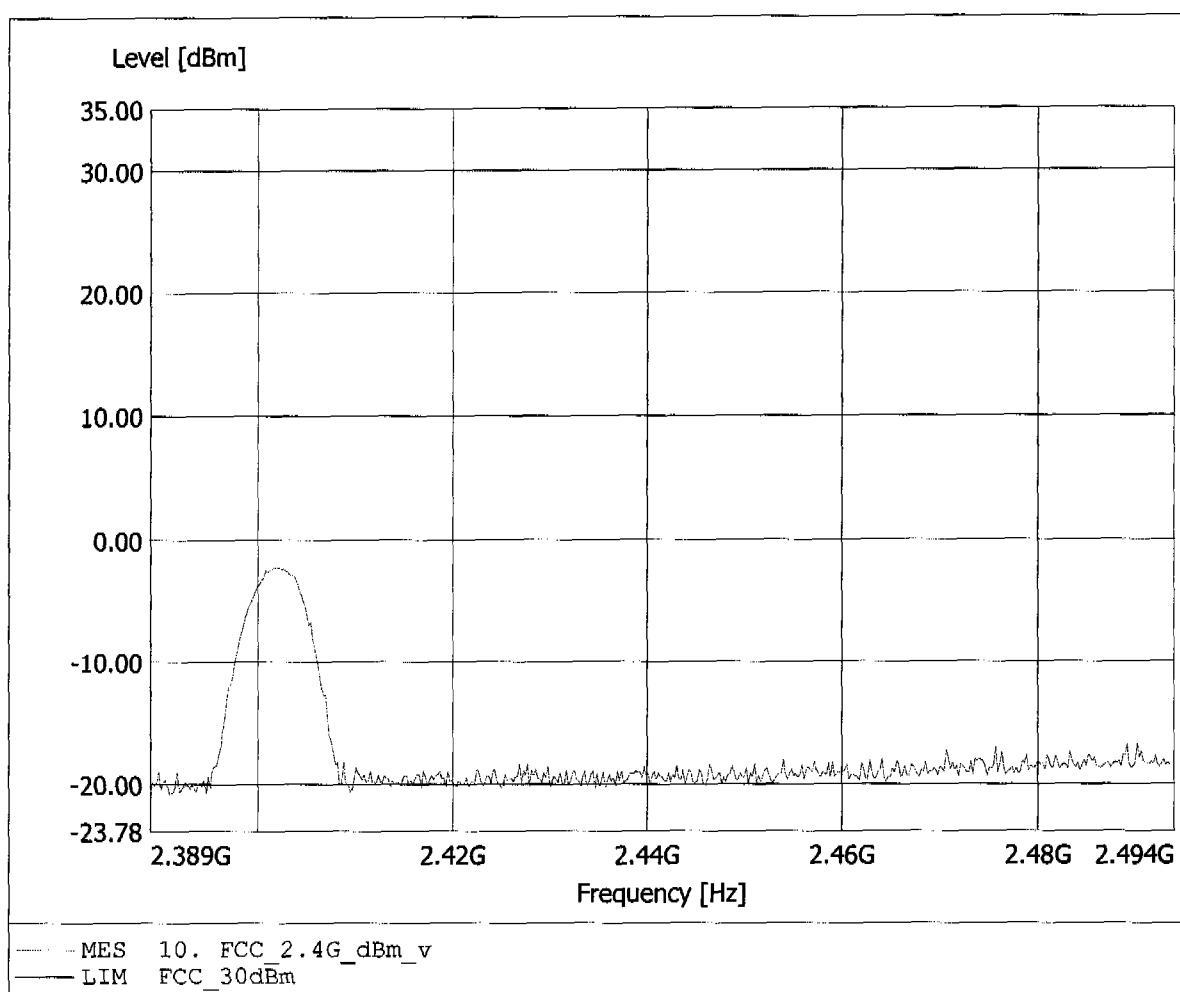
Marker 1 [T1] RBW 1 MHz RF Att 50 dB  
Ref Lvl 0.40 dBm VBW 1 MHz  
25 dBm 2.47985271 GHz SWT 5 ms Unit dBm



Title: Peak Output Power conducted Ch.: 78  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 08:52:13

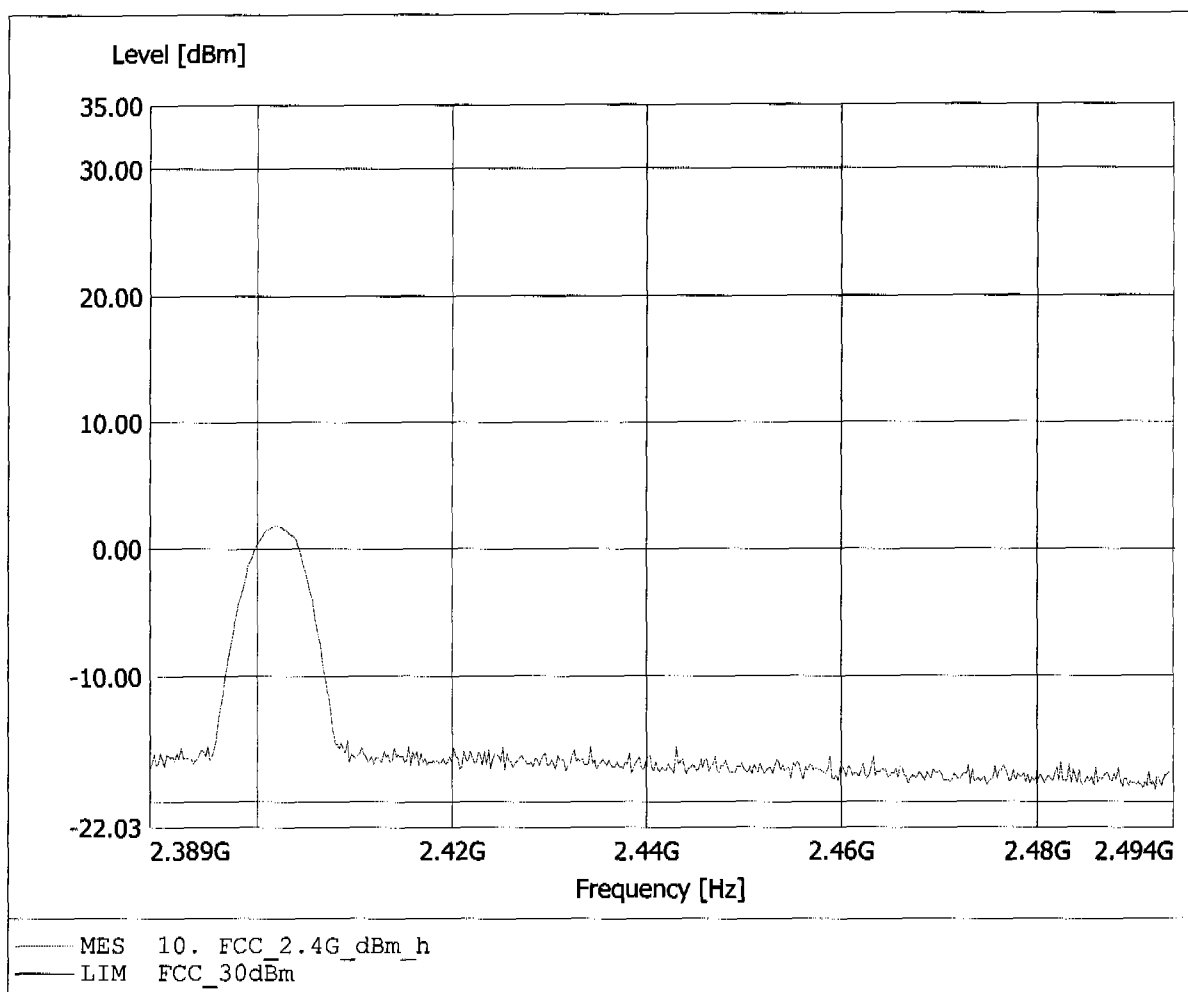
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: -2.26dBm, RBW: 5MHz



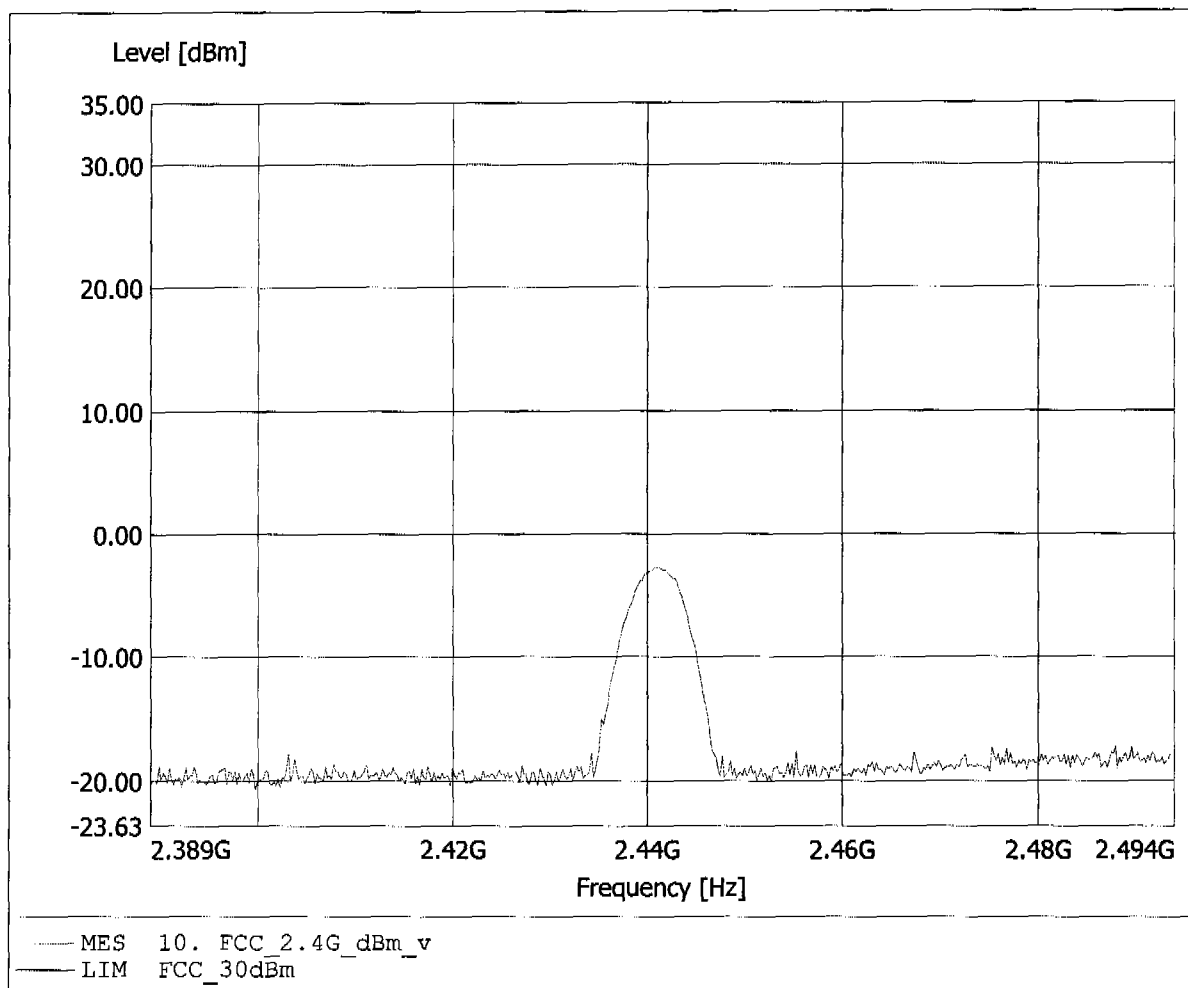
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: 1.77dBm, RBW: 5MHz



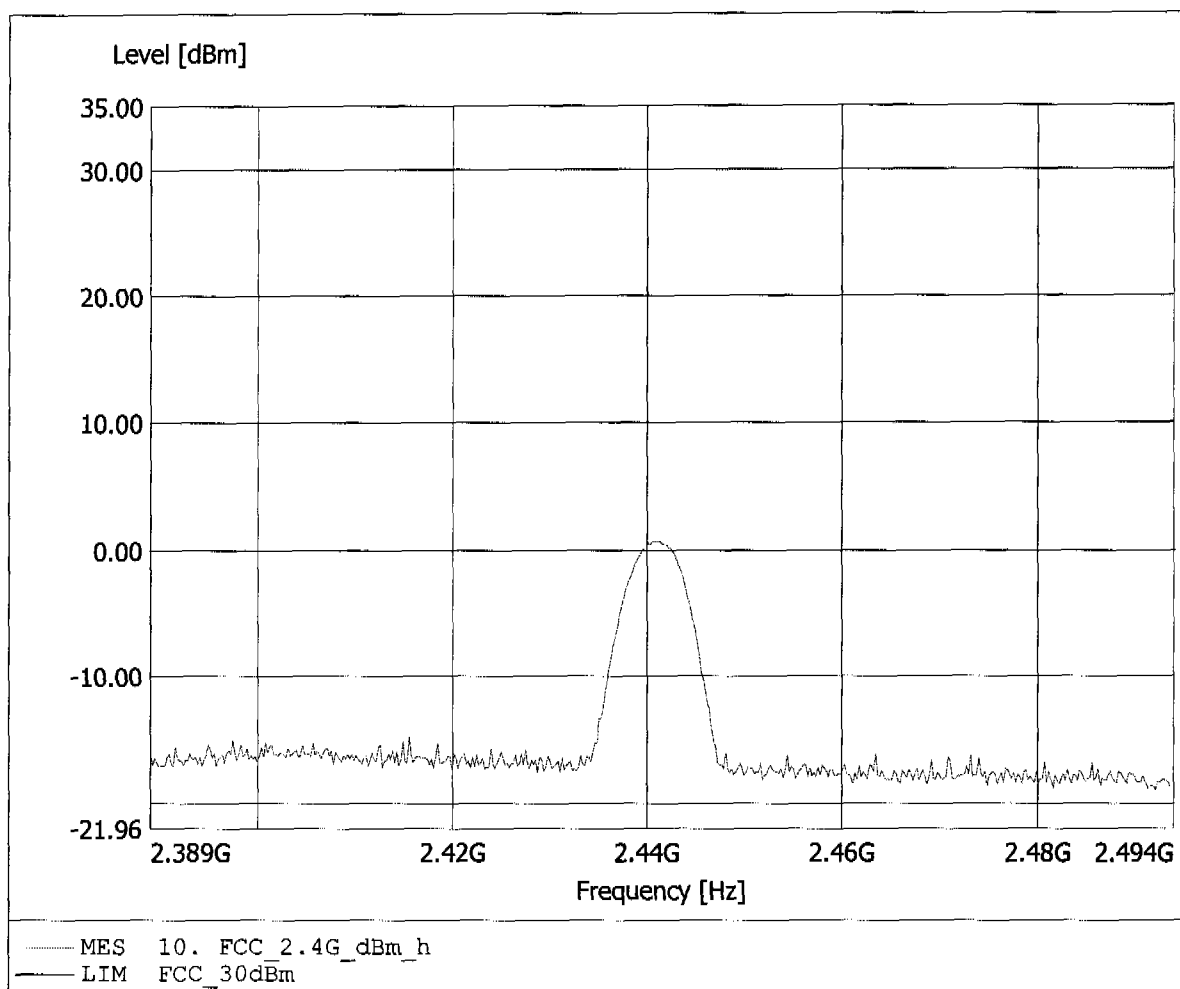
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: -2.78dBm, RBW: 5MHz



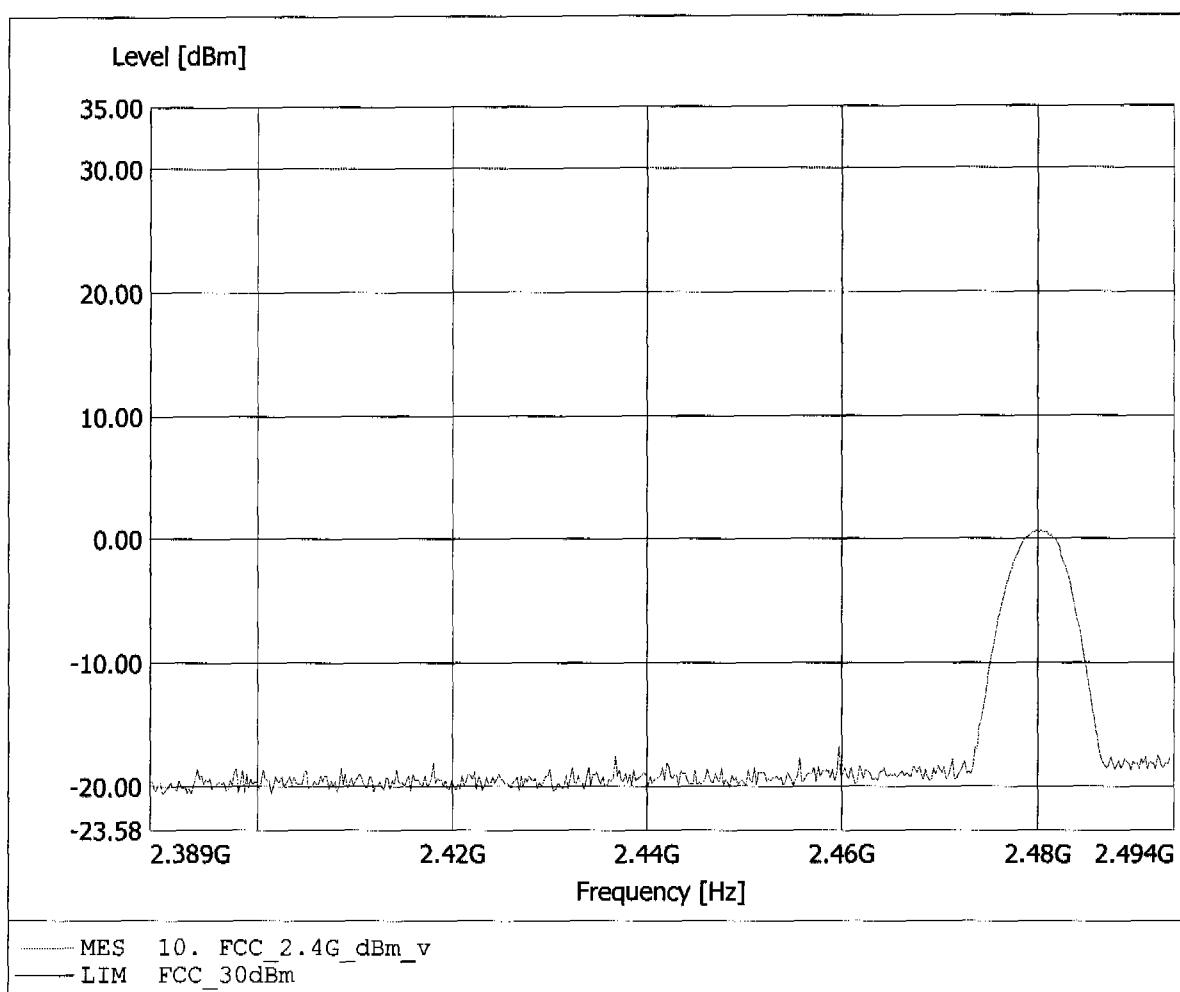
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: 0.74dBm, RBW: 5MHz



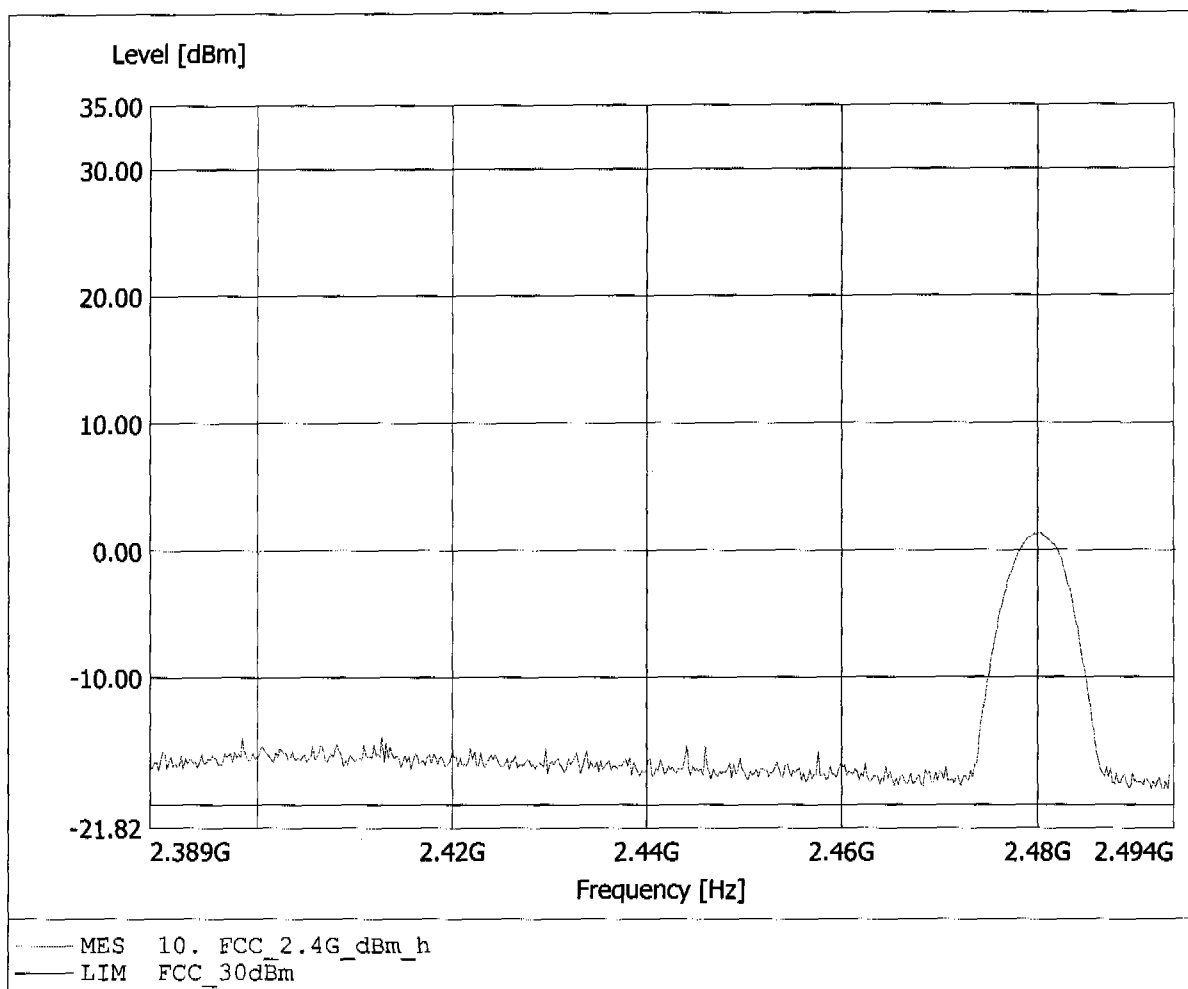
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: 0.66dBm, RBW: 5MHz



**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: 1.34dBm, RBW: 5MHz

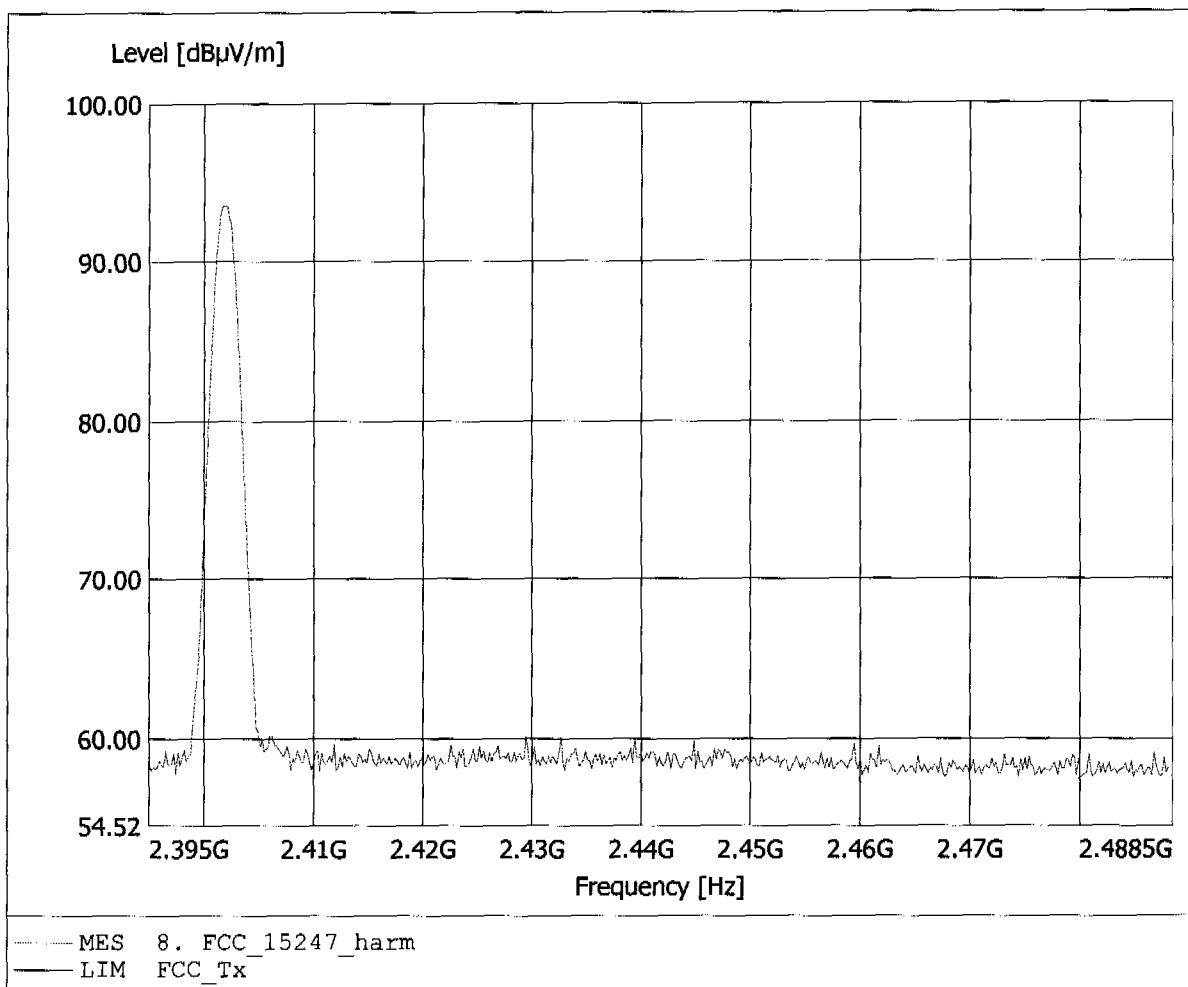


## Appendix C

Spurious Emissions radiated - Transmitter operating

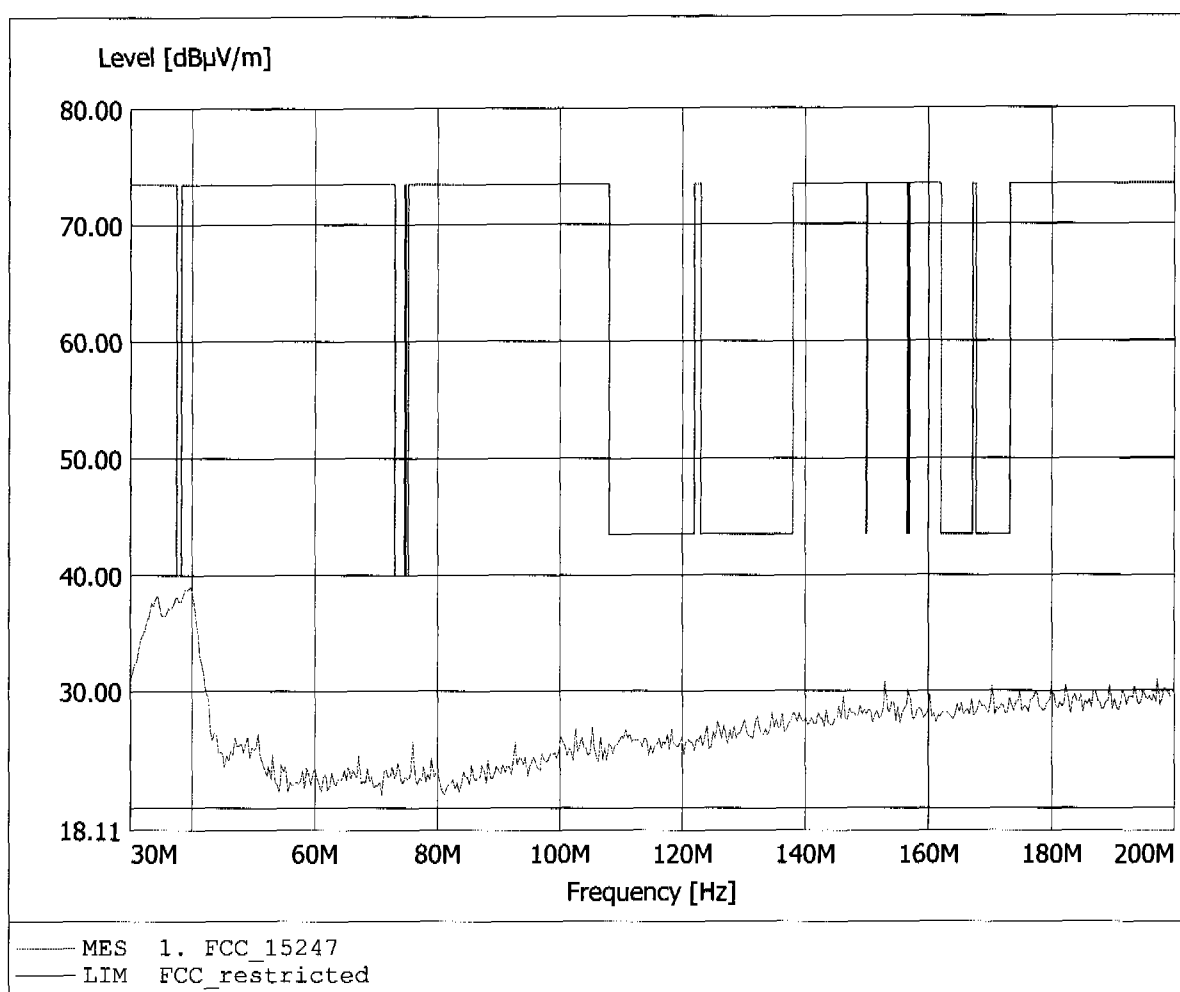
**Carrier power (Field Strength)**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Emax: 93.48dBµV/m, RBW: 1MHz



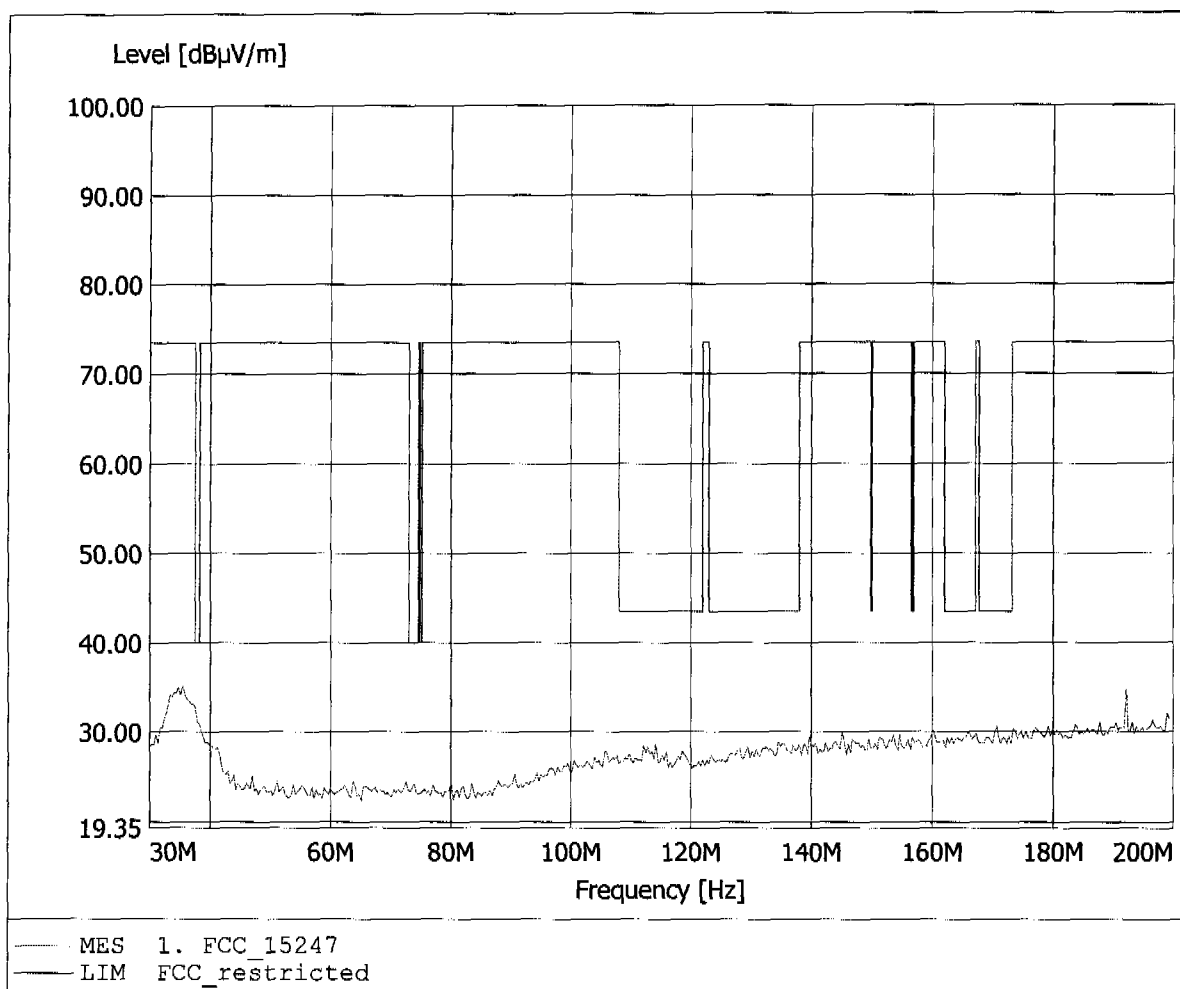
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 39.880MHz, Emax: 39.00dBµV/m, RBW: 100kHz



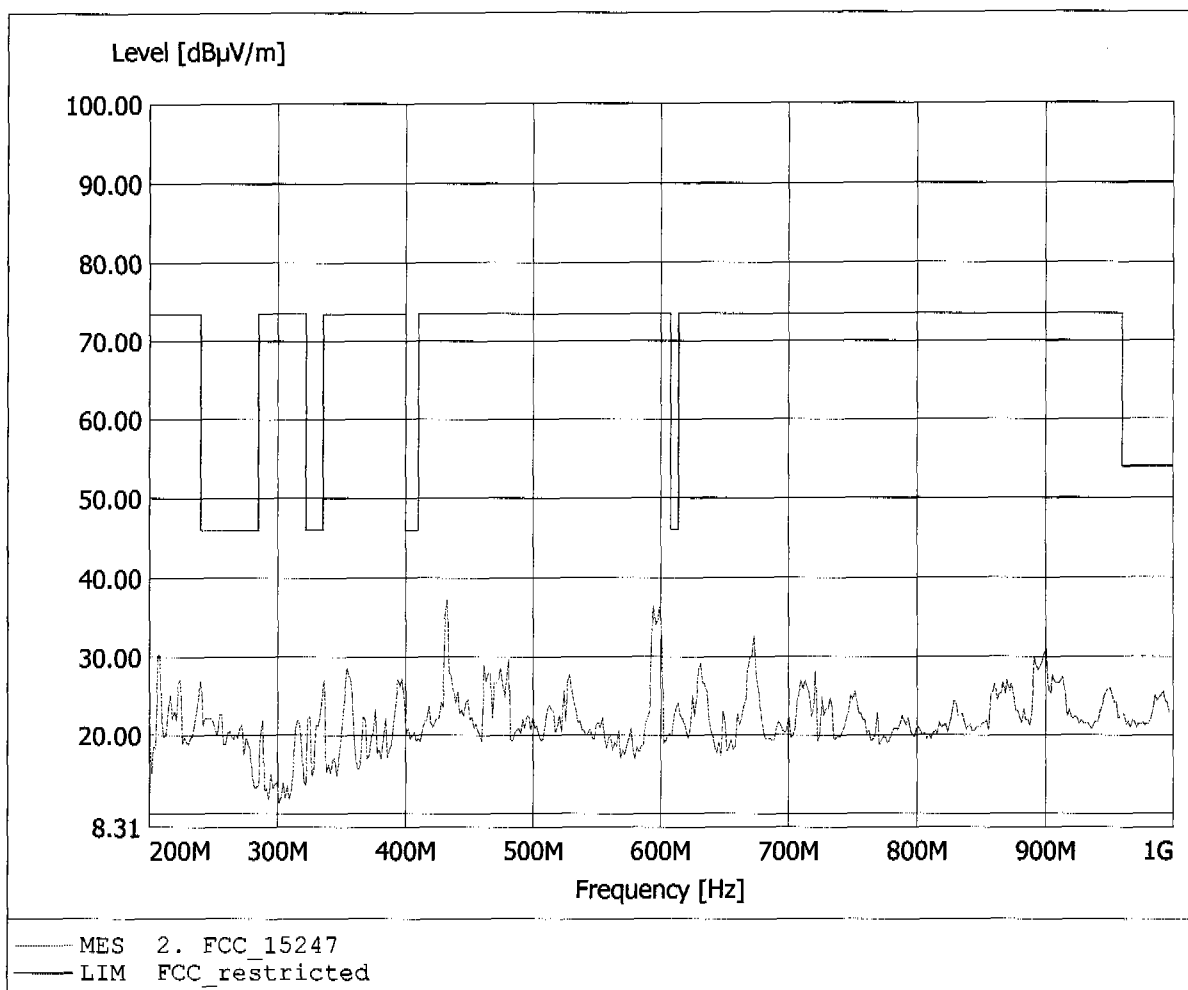
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 35.451MHz, Emax: 35.11dBµV/m, RBW: 100kHz



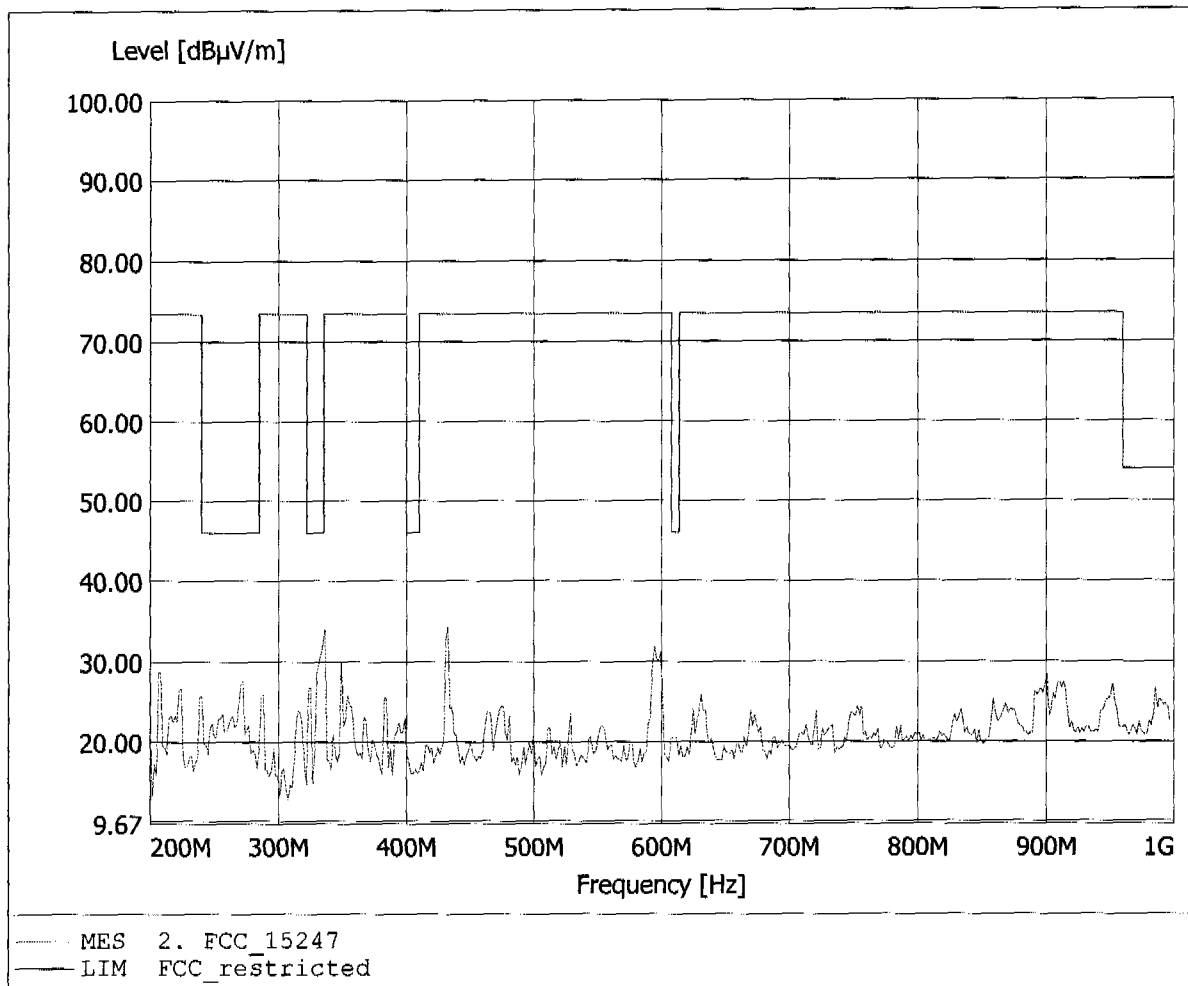
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 432.465MHz, Emax: 37.28dBµV/m, RBW: 100kHz



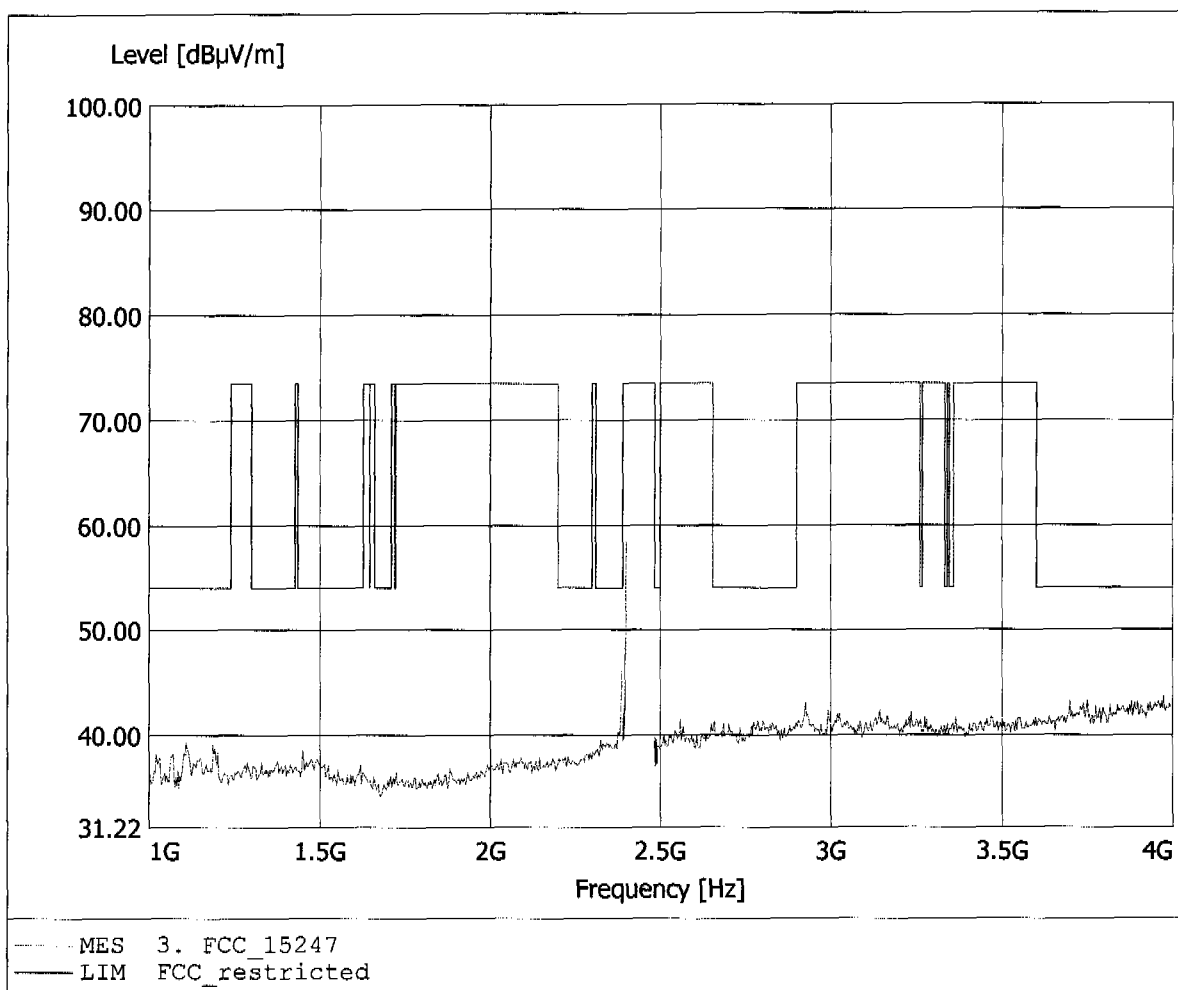
**Spurious emissions Field Strength**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 432.465MHz, Emax: 34.31dBµV/m, RBW: 100kHz



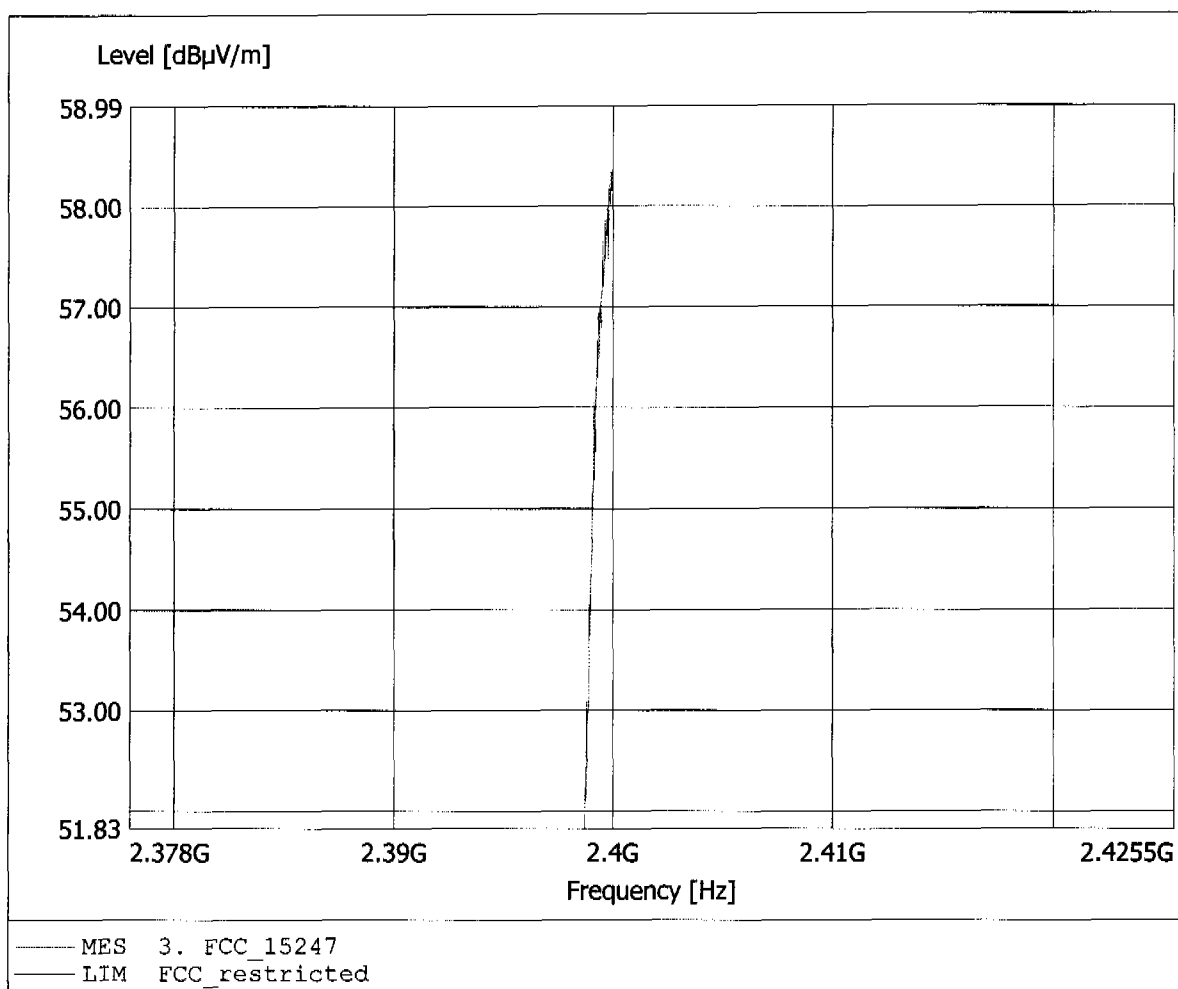
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.400GHz, Emax: 58.36dBμV/m, RBW: 1MHz



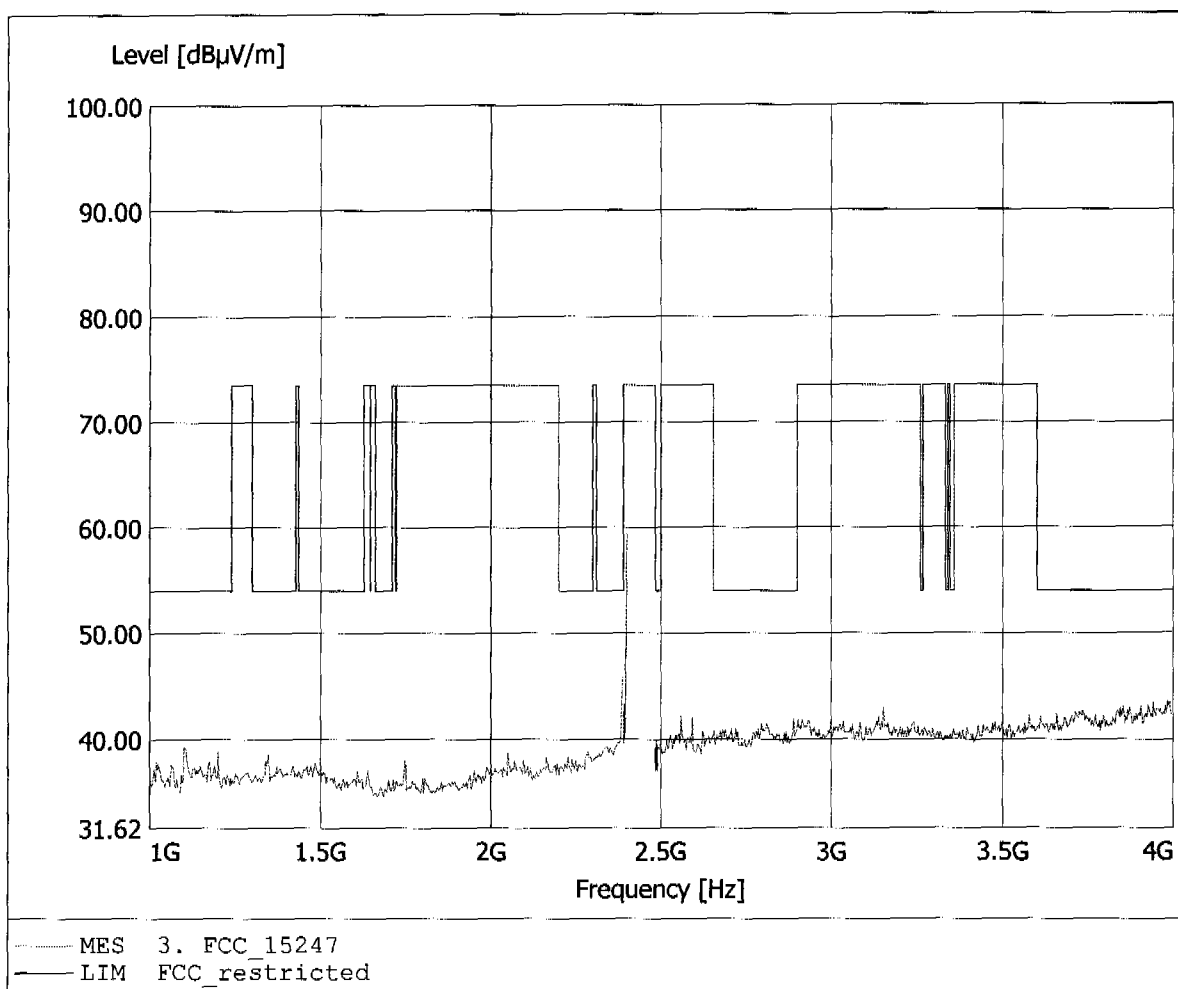
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
 Model: 4100  
 Approval Holder: Nonin Medical Inc.  
 Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
 Test Site / Operator: ETS / Mr. Handrik  
 Test Specification: according to §15.247, peak detector  
 Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
 Comment 2: Freq: 2.400GHz, Emax: 58.36dBµV/m, RBW: 1MHz



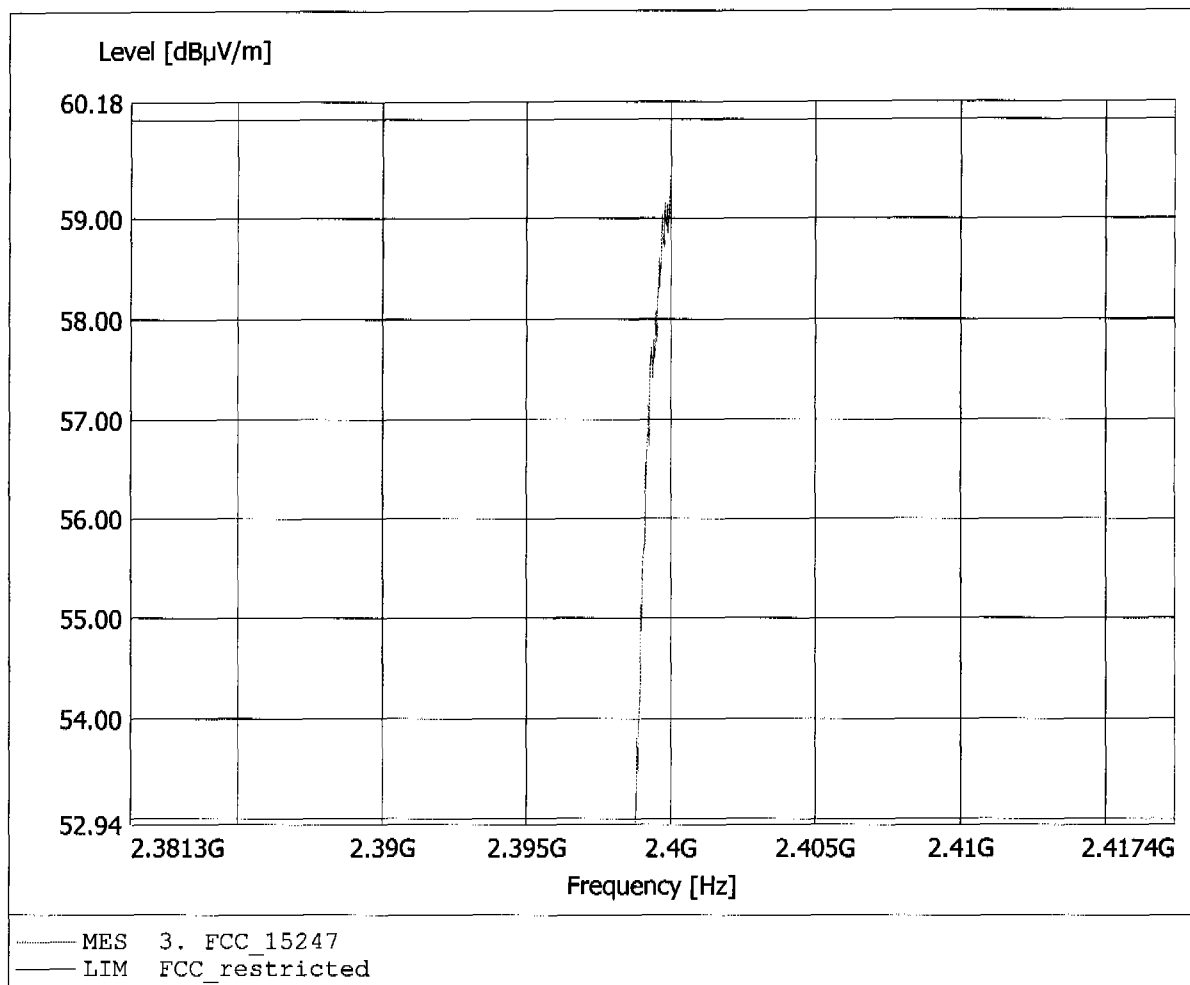
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to S15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.400GHz, Emax: 59.42dBμV/m, RBW: 1MHz



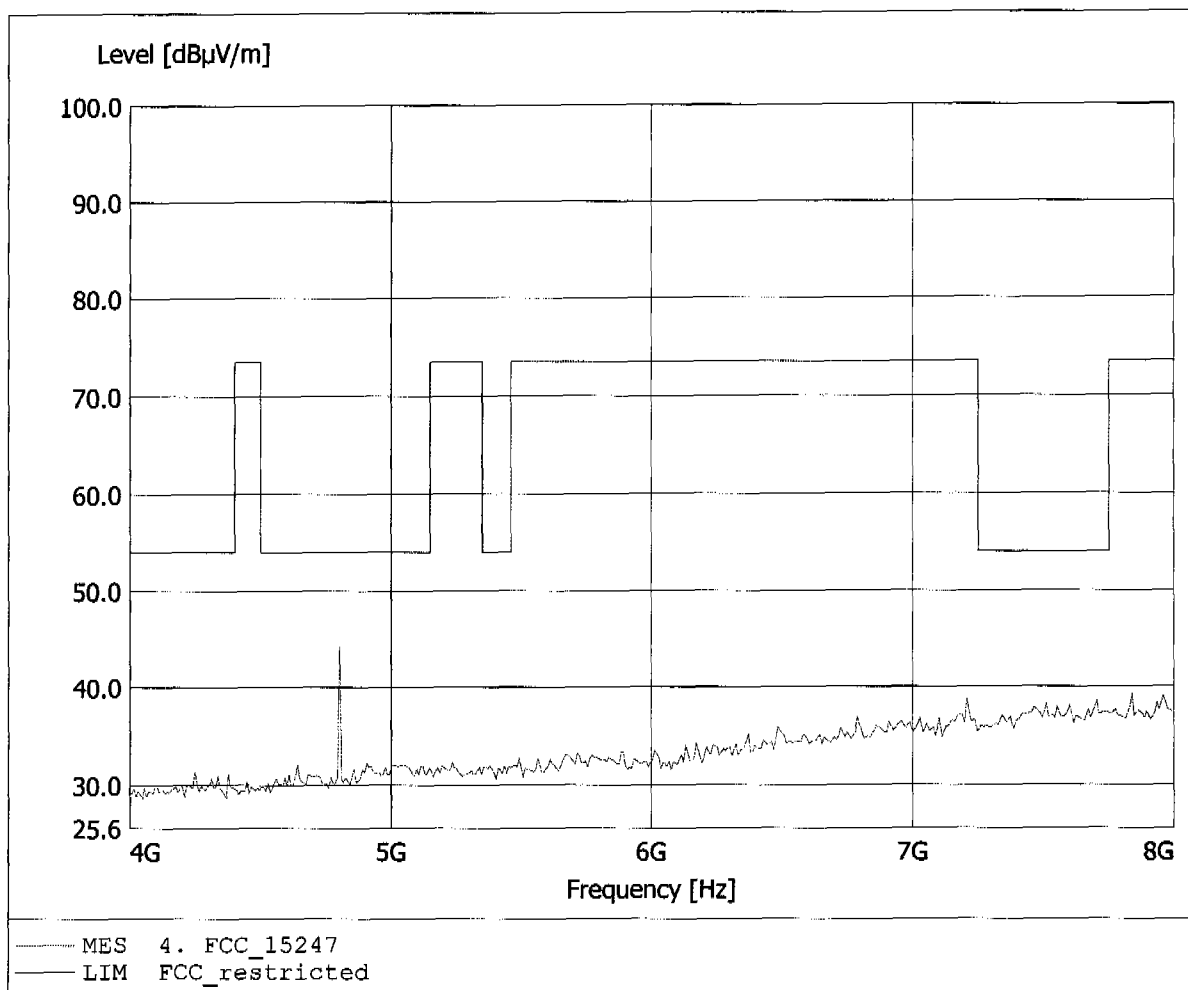
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.400GHz, Emax: 59.42dBμV/m, RBW: 1MHz



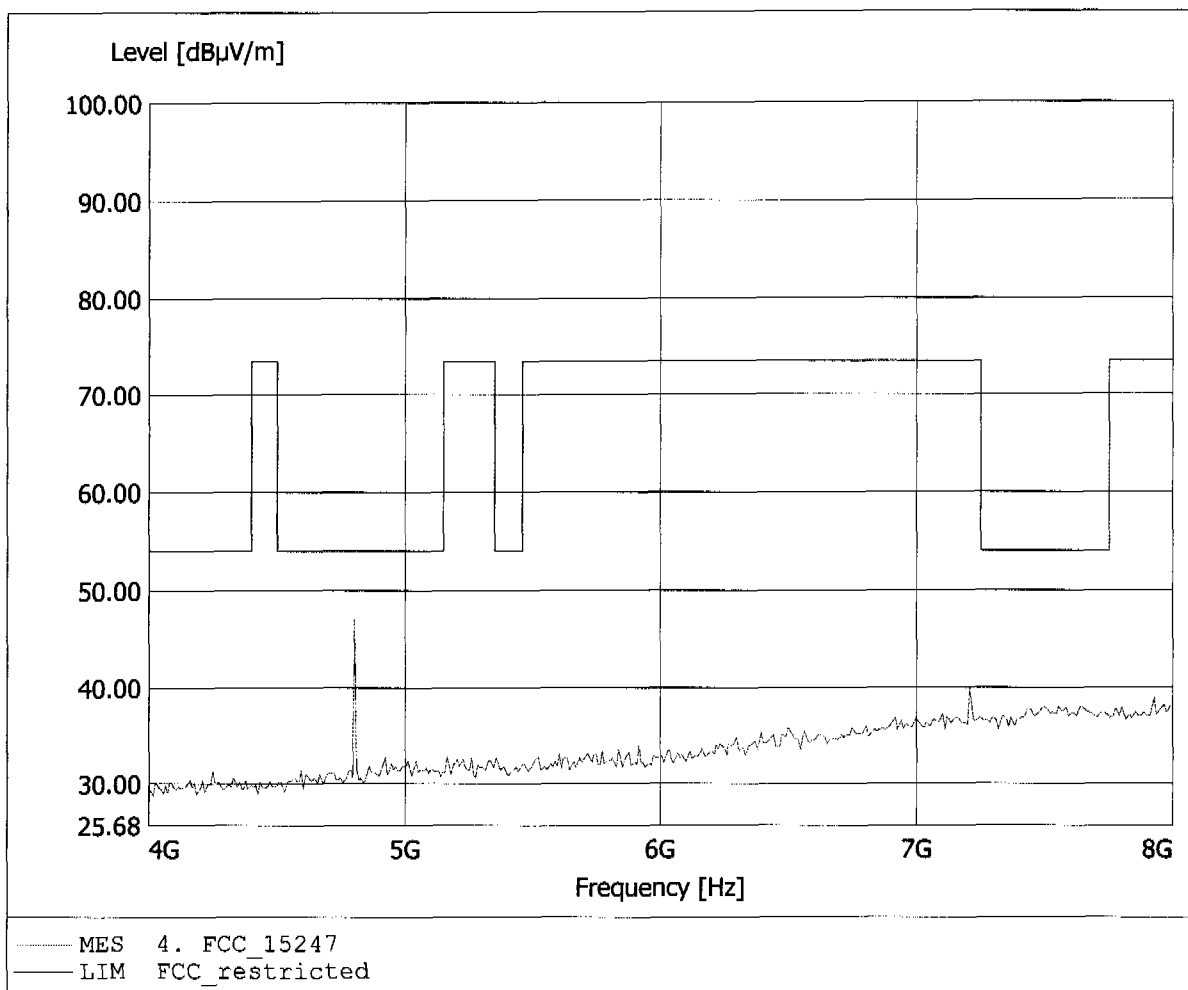
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.802GHz, Emax: 44.50dBµV/m, RBW: 1MHz



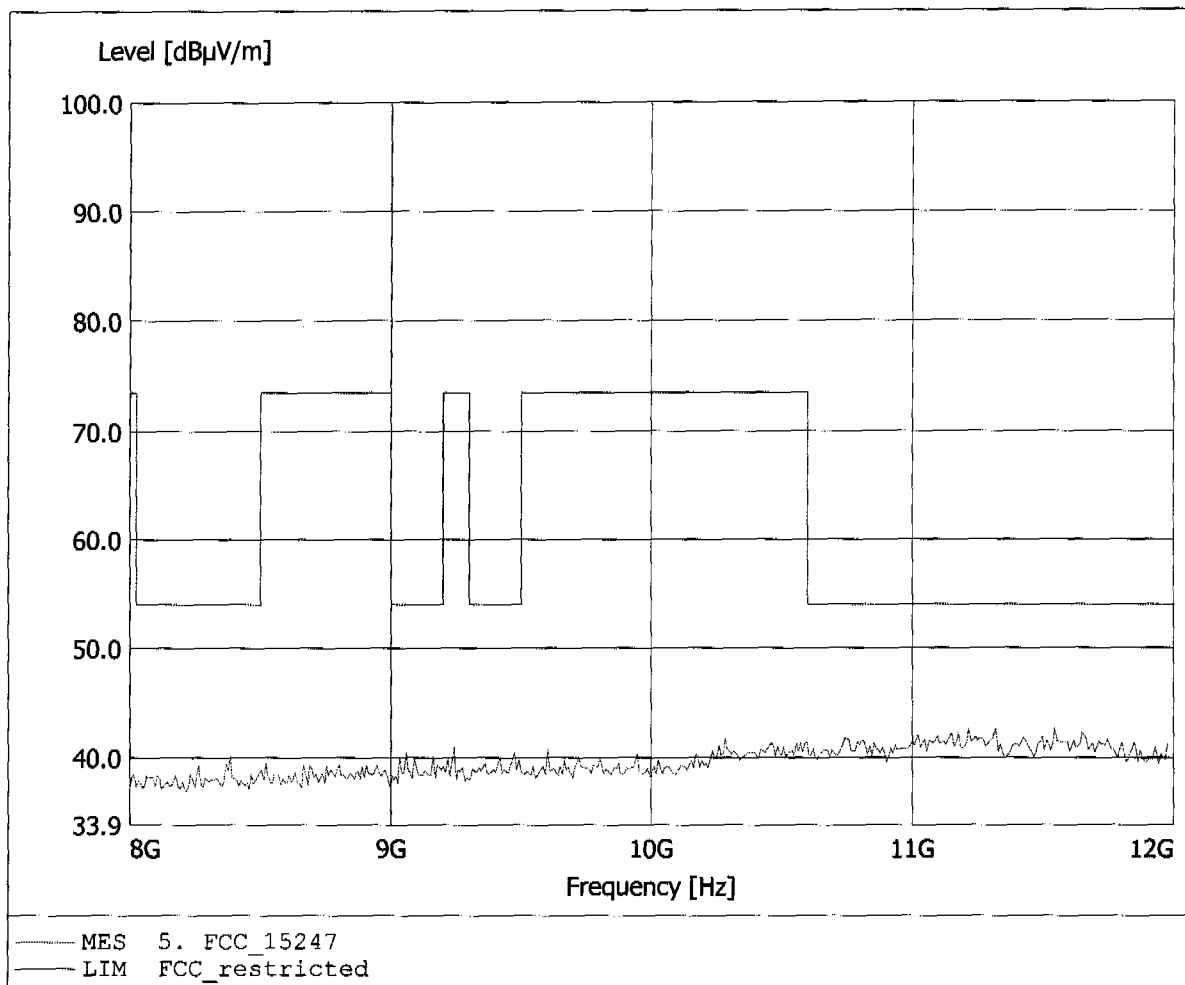
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.802GHz, Emax: 47.04dBμV/m, RBW: 1MHz



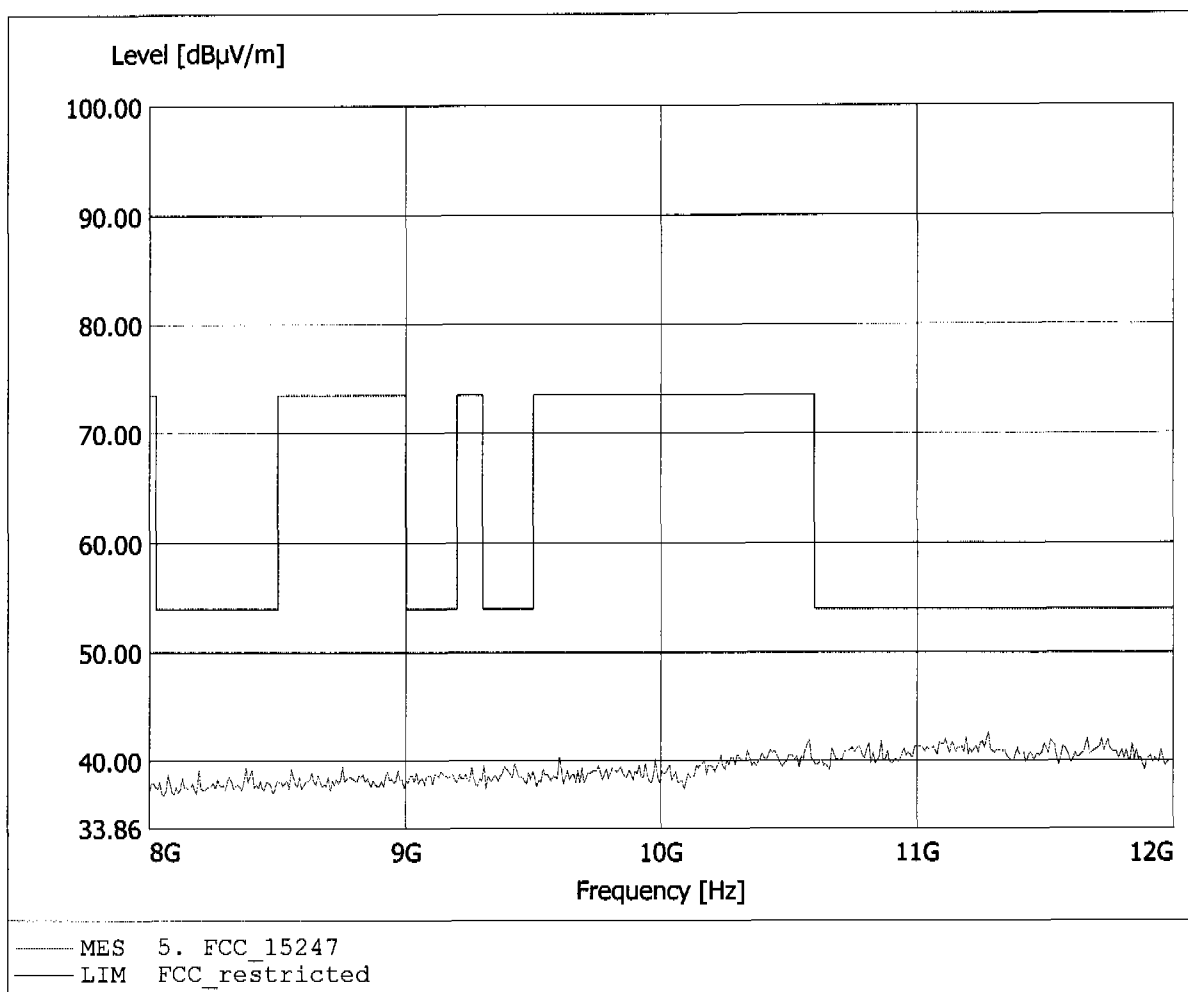
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.543GHz, Emax: 42.64dBμV/m, RBW: 1MHz



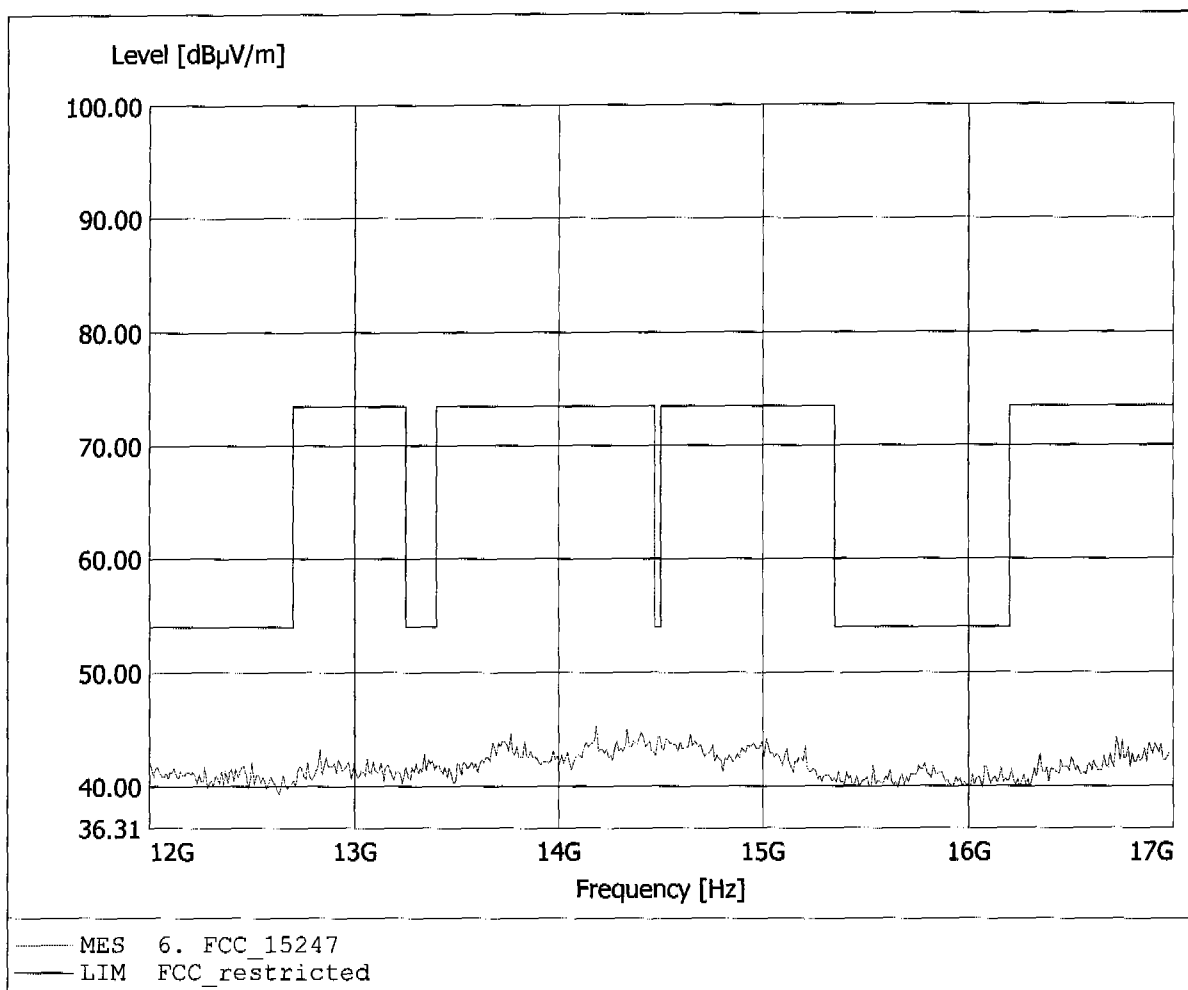
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.279GHz, Emax: 42.70dBµV/m, RBW: 1MHz



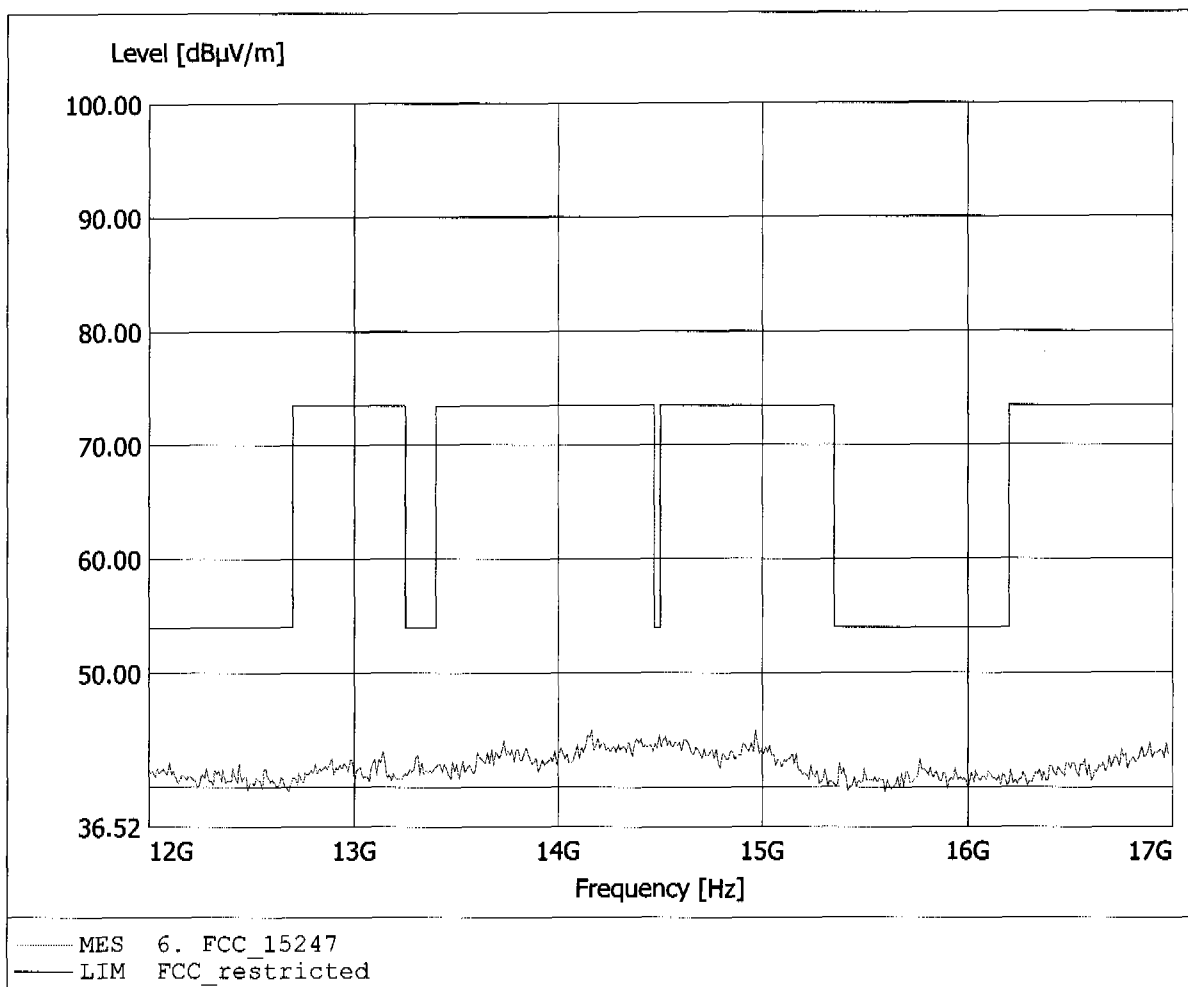
**Spurious emissions Field Strength**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.184GHz, Emax: 45.26dBμV/m, RBW: 1MHz



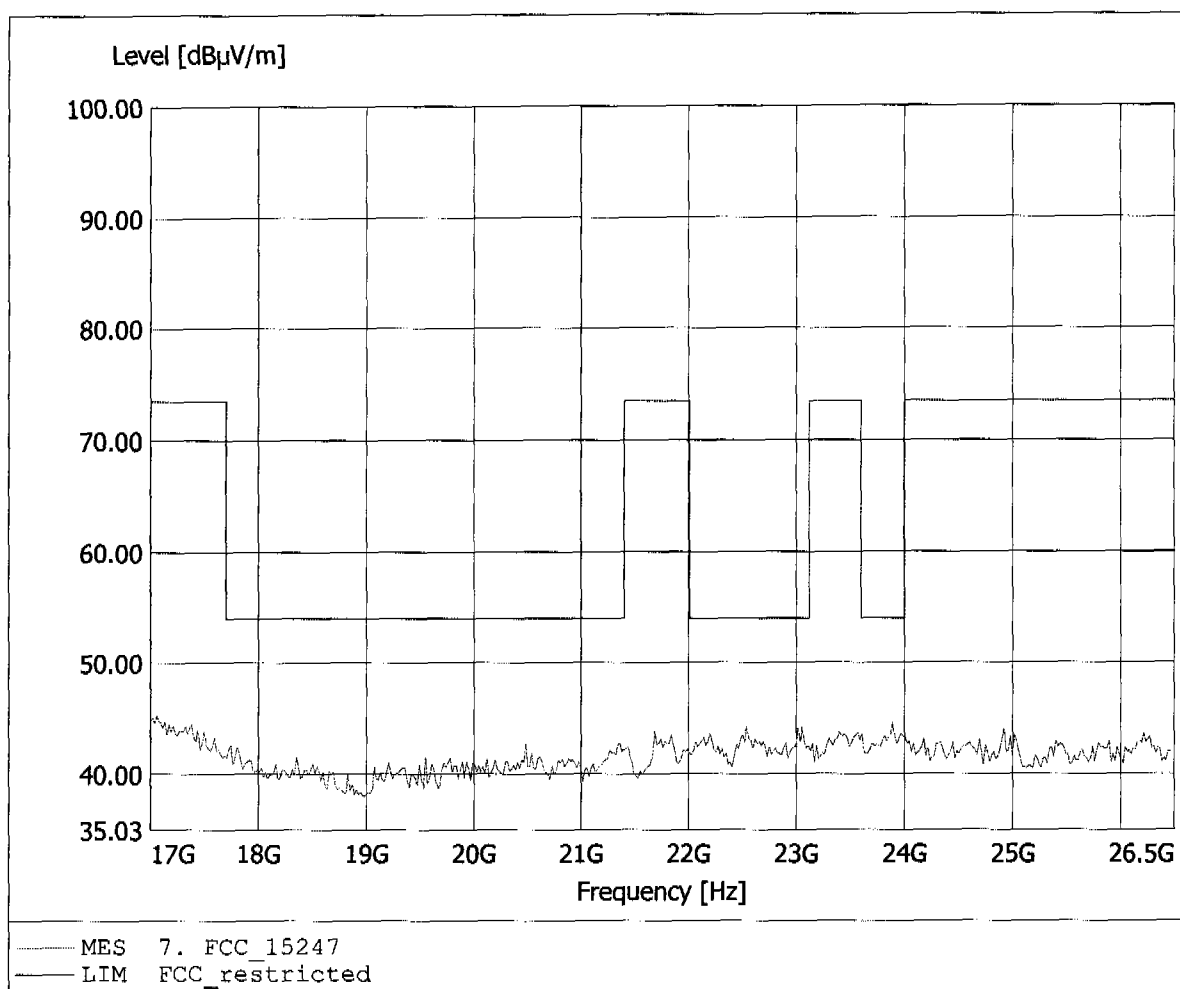
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.164GHz, Emax: 45.02dBμV/m, RBW: 1MHz



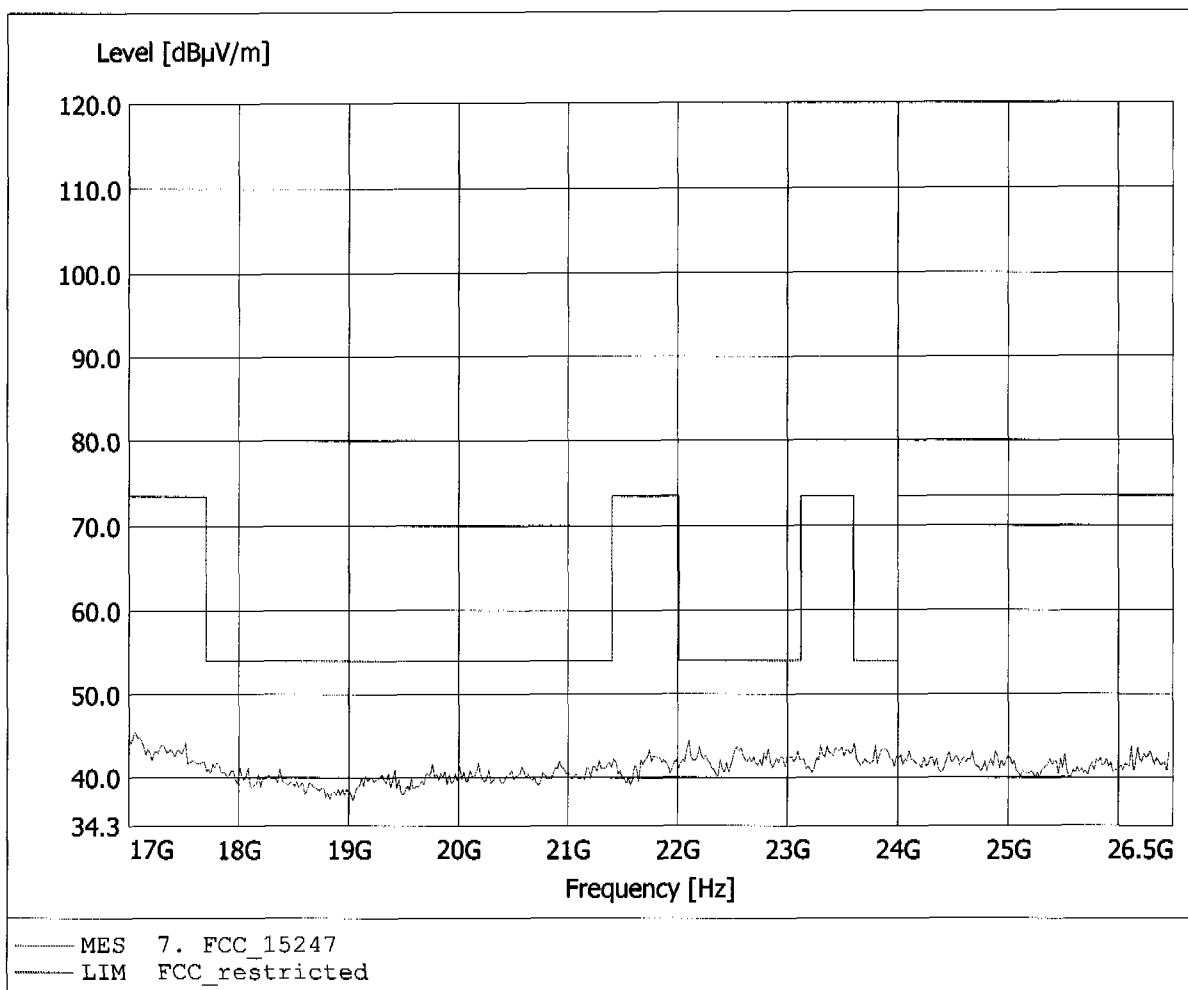
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.057GHz, Emax: 45.22dBµV/m, RBW: 1MHz



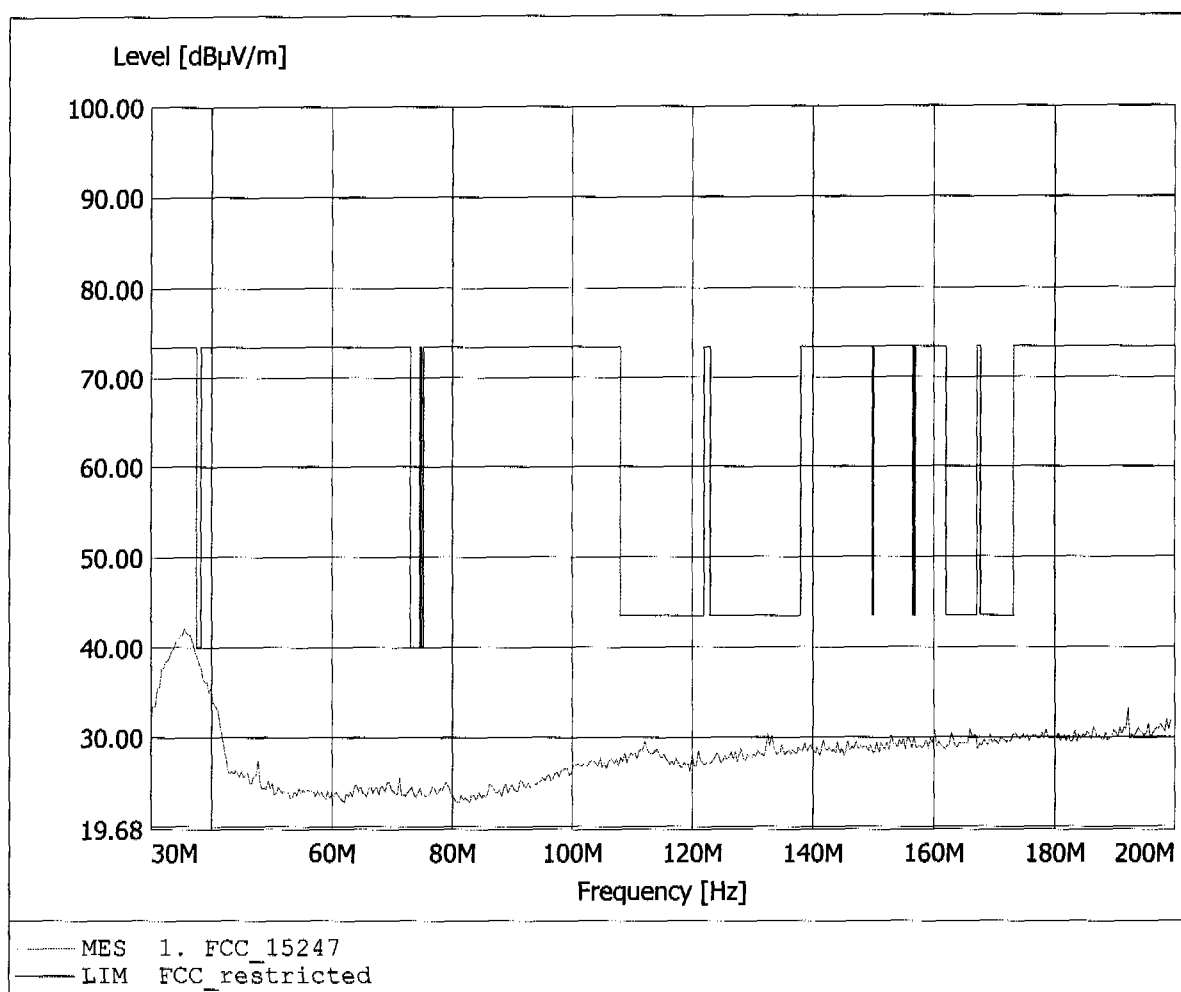
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2402 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.057GHz, Emax: 45.51dBµV/m, RBW: 1MHz



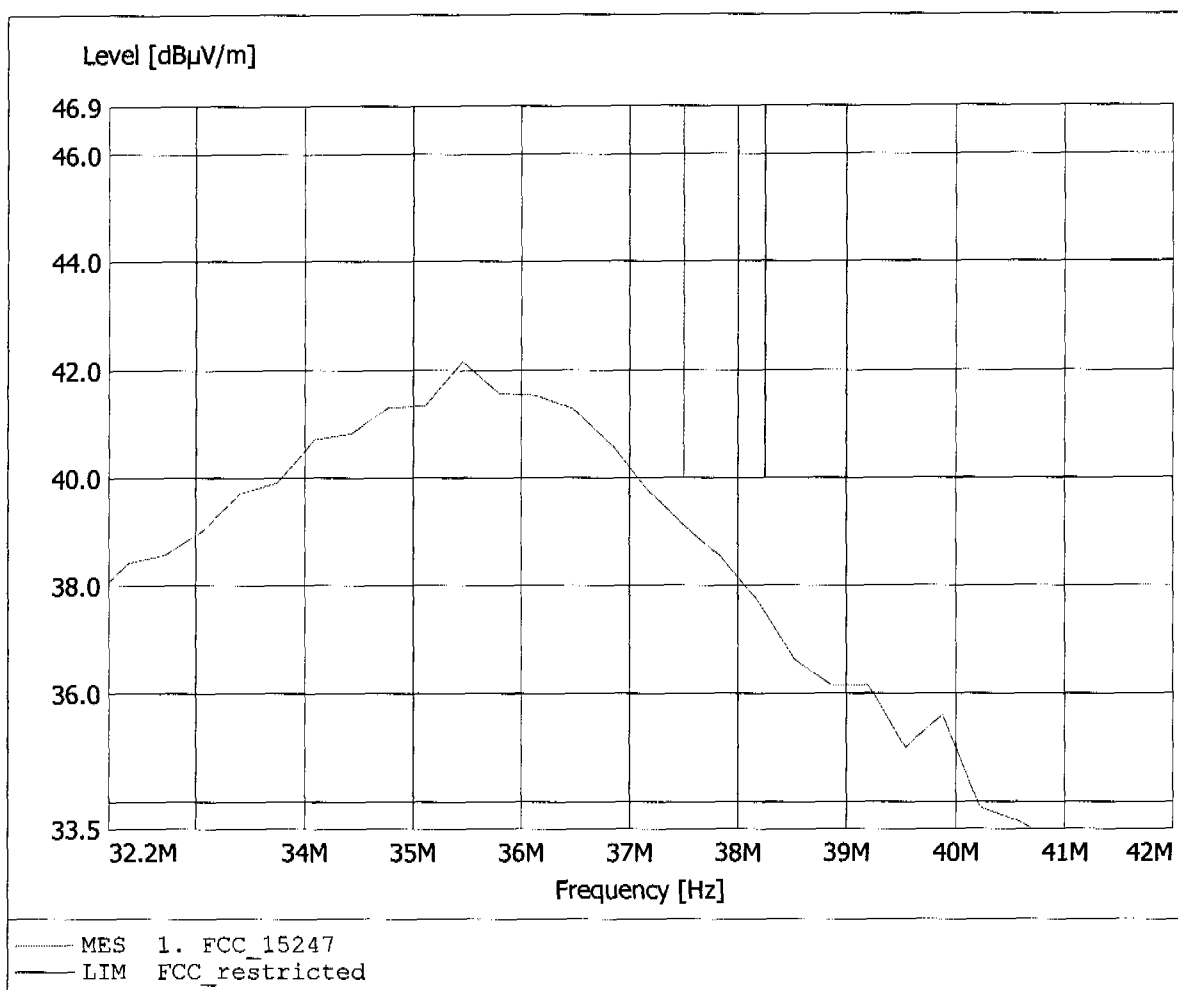
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 35.451MHz, Emax: 42.16dBµV/m, RBW: 100kHz



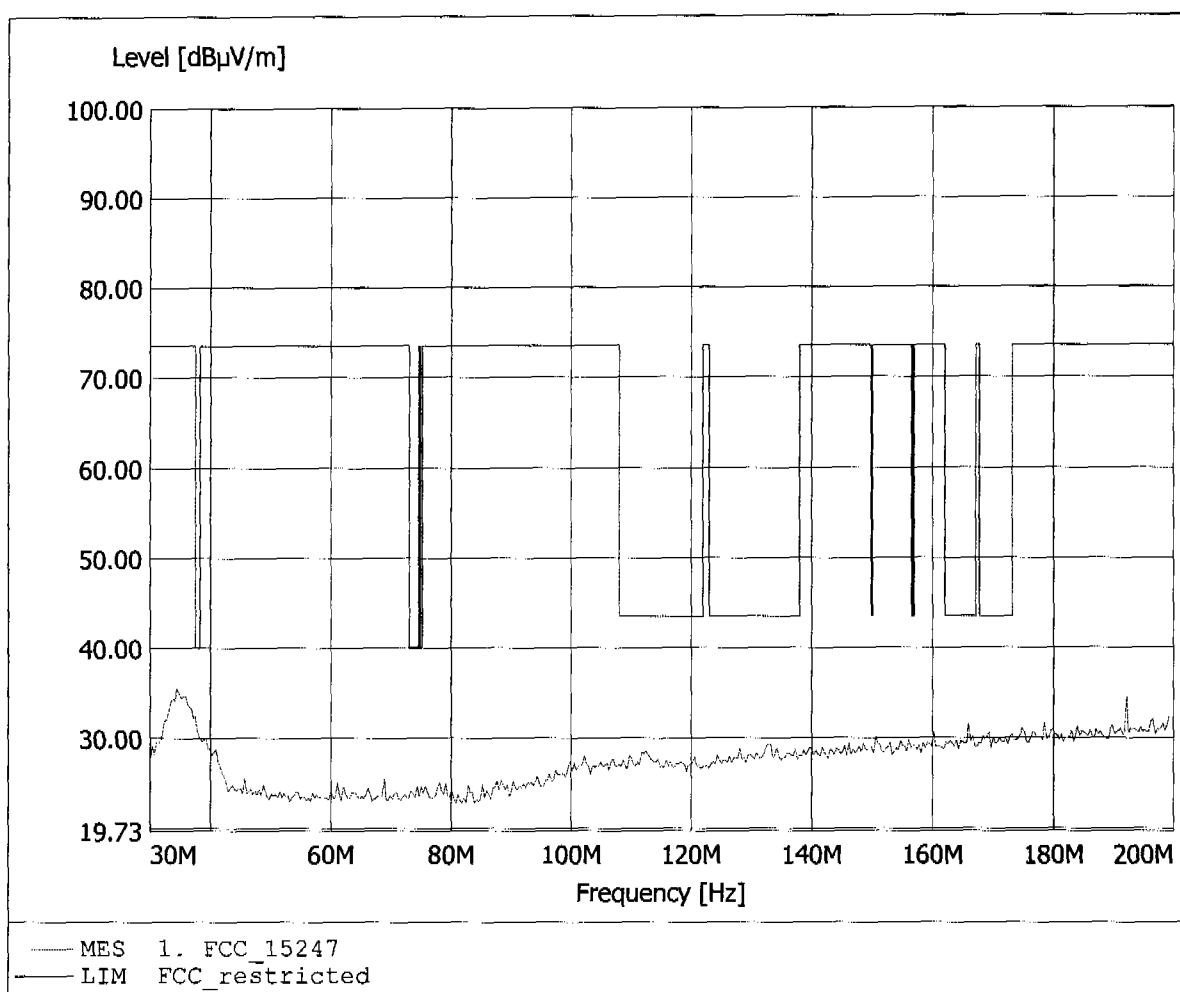
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 35.451MHz, Emax: 42.16dBµV/m, RBW: 100kHz



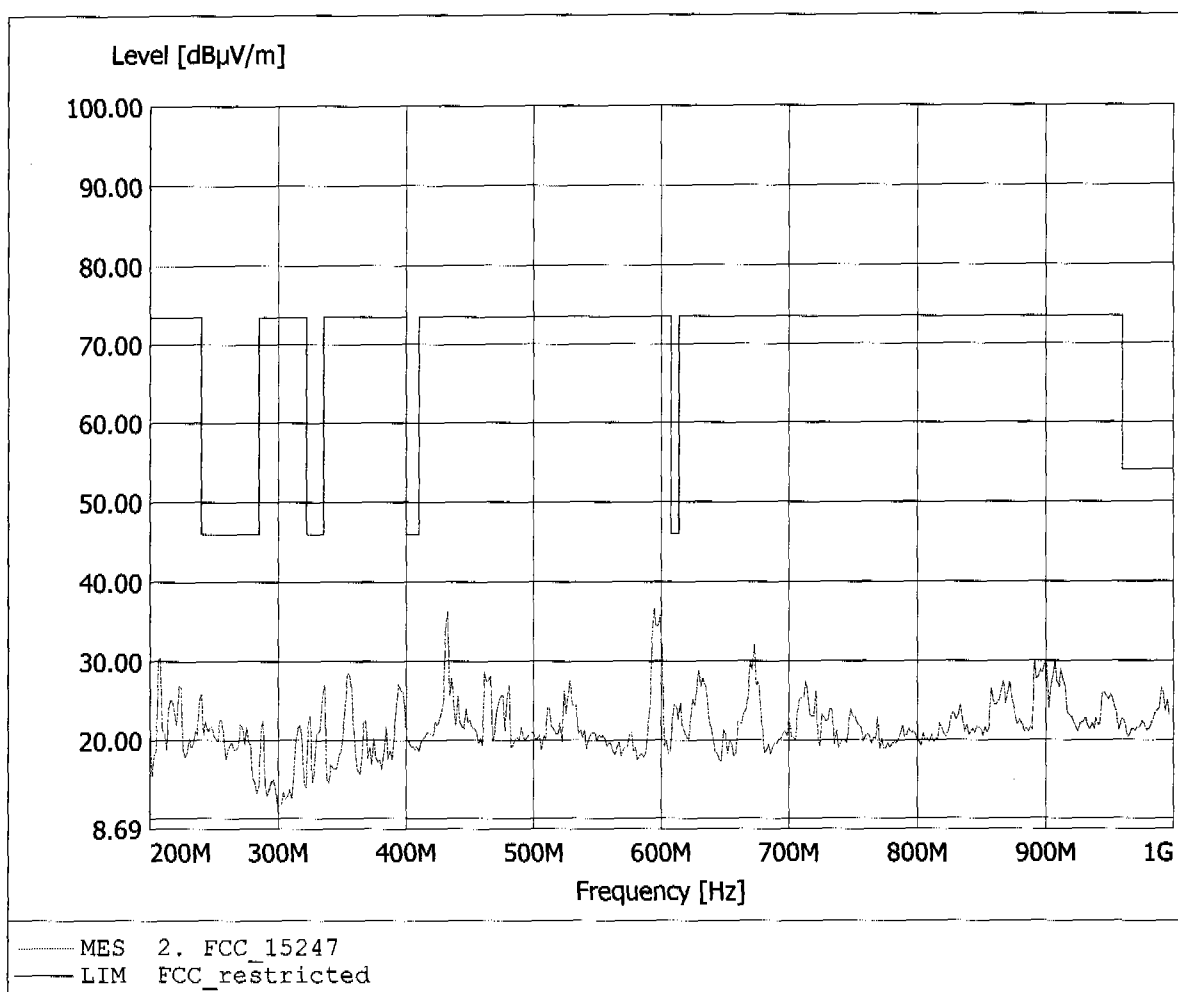
**Spurious emissions Field Strength**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 34.429MHz, Emax: 35.49dBµV/m, RBW: 100kHz



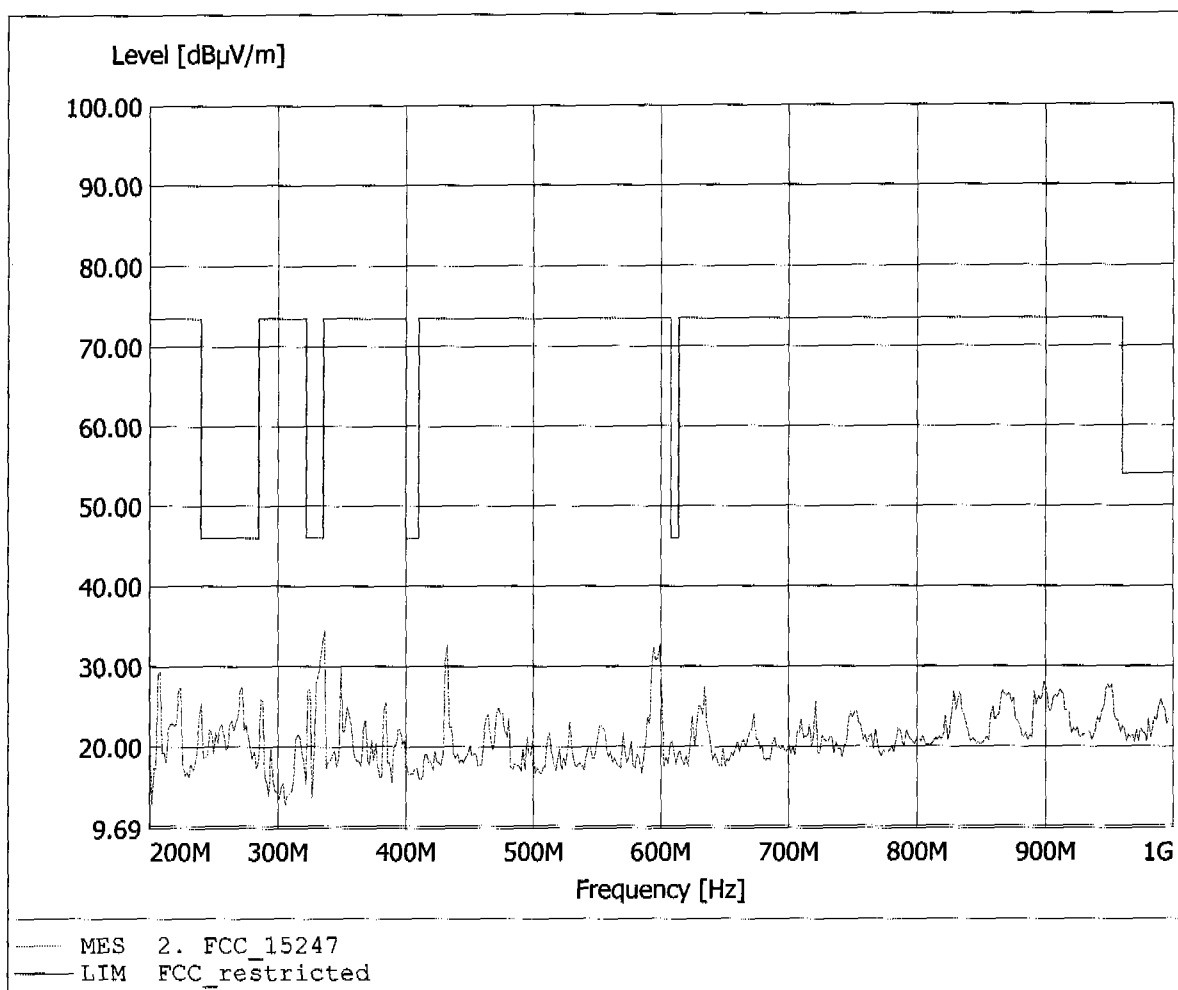
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 594.389MHz, Emax: 36.72dBµV/m, RBW: 100kHz



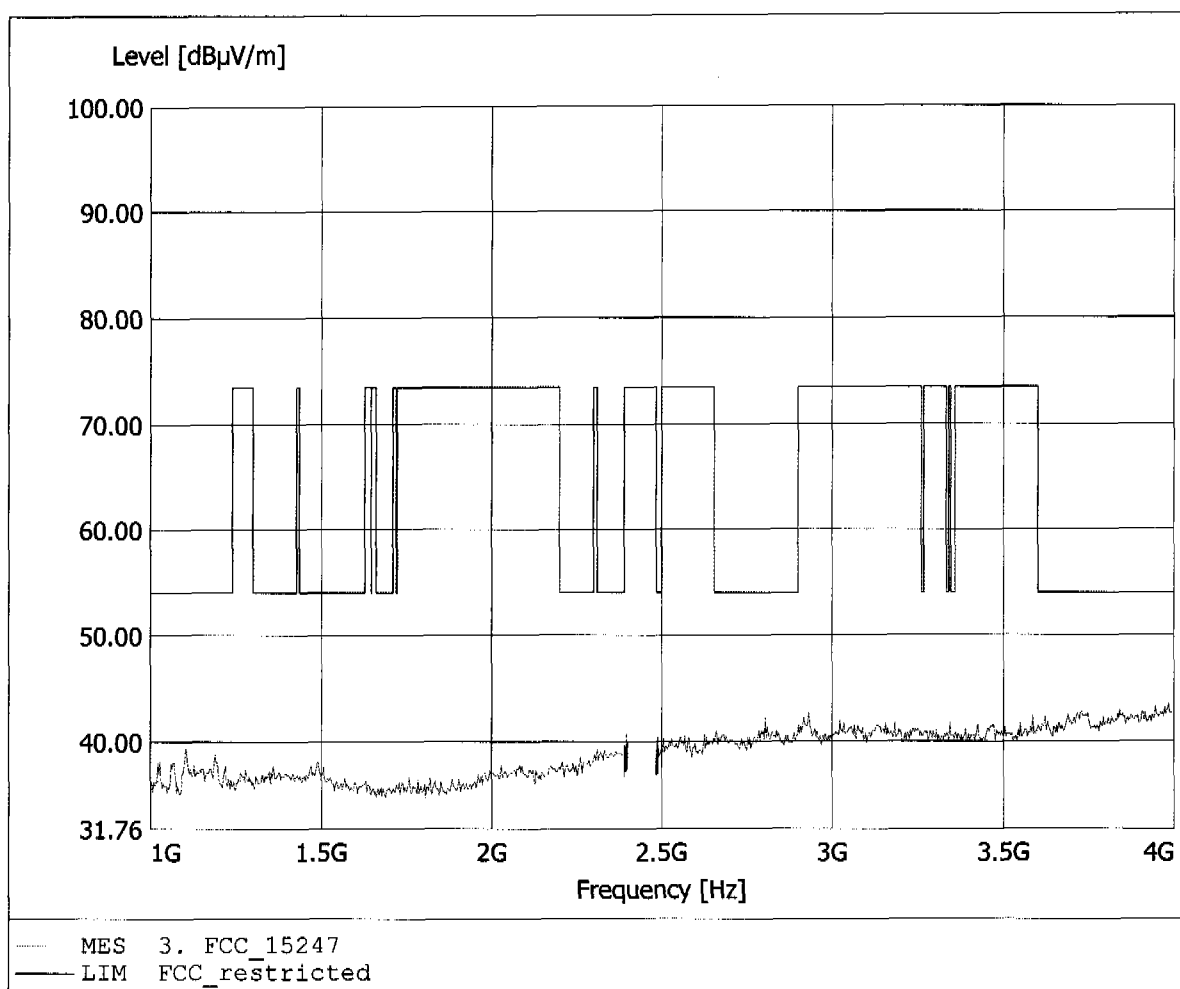
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 336.273MHz, Emax: 34.51dBµV/m, RBW: 100kHz



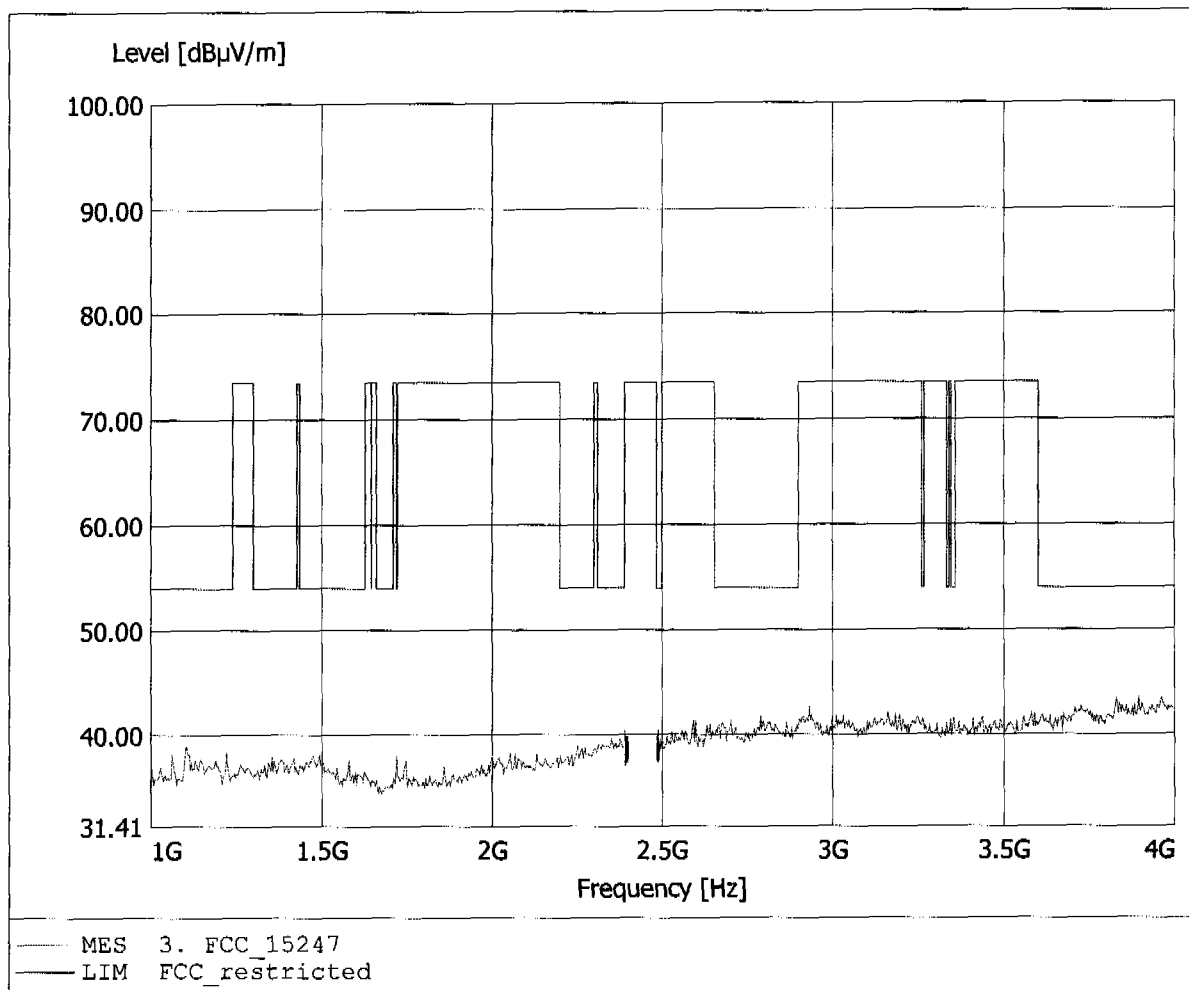
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 3.985GHz, Emax: 43.47dB $\mu$ V/m, RBW: 1MHz



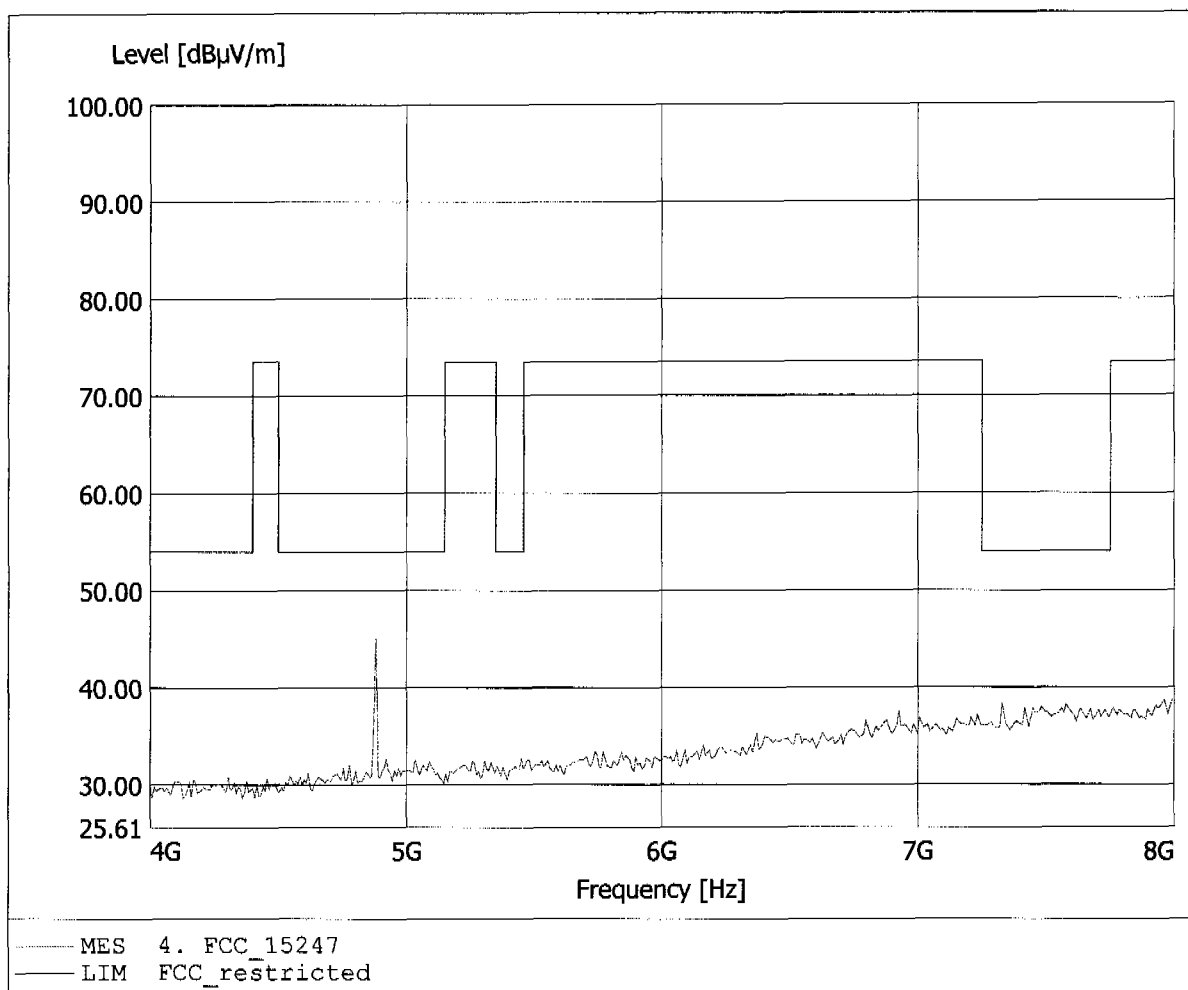
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 3.894GHz, Emax: 43.50dBuV/m, RBW: 1MHz



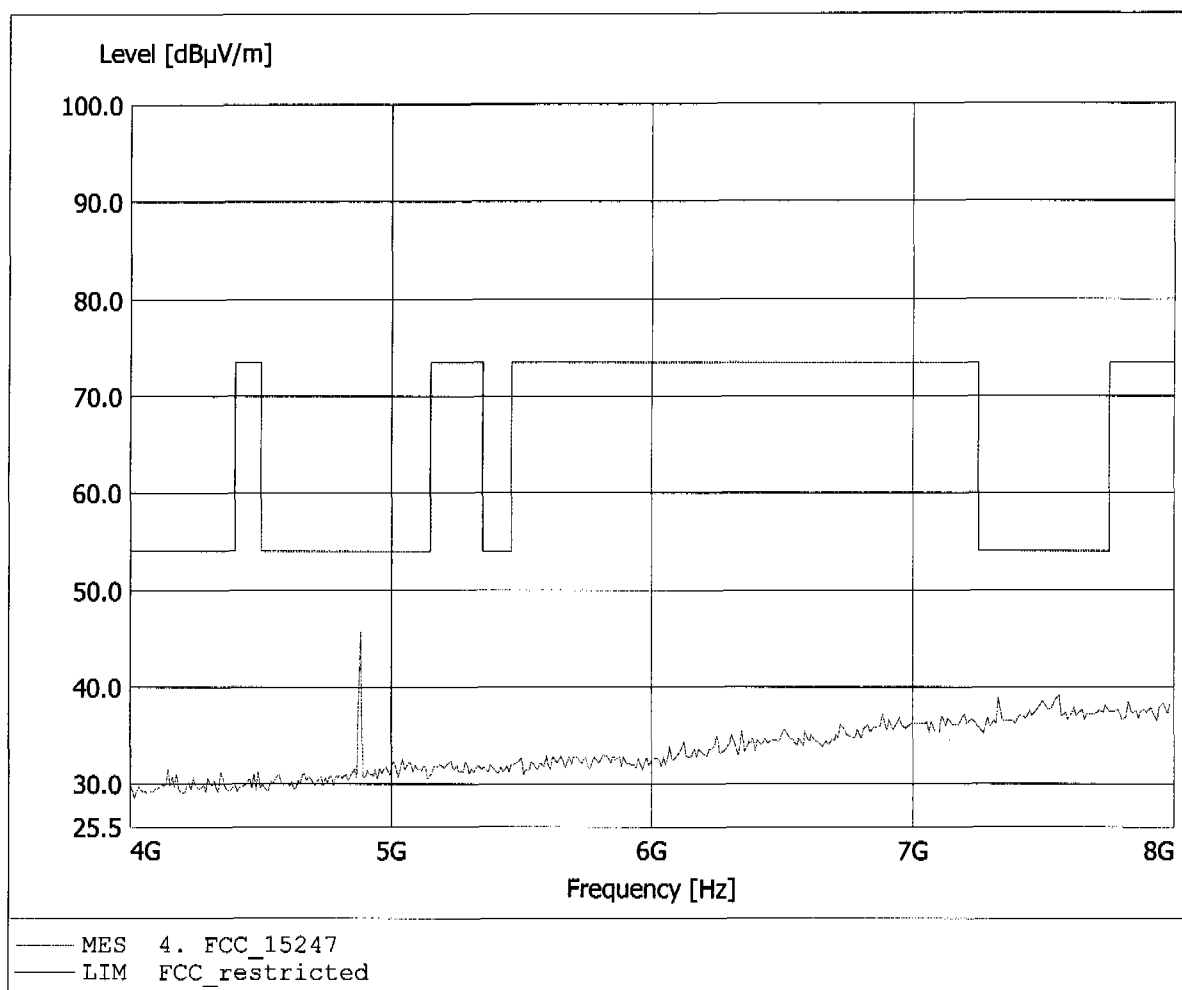
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.882GHz, Emax: 45.19dBµV/m, RBW: 1MHz



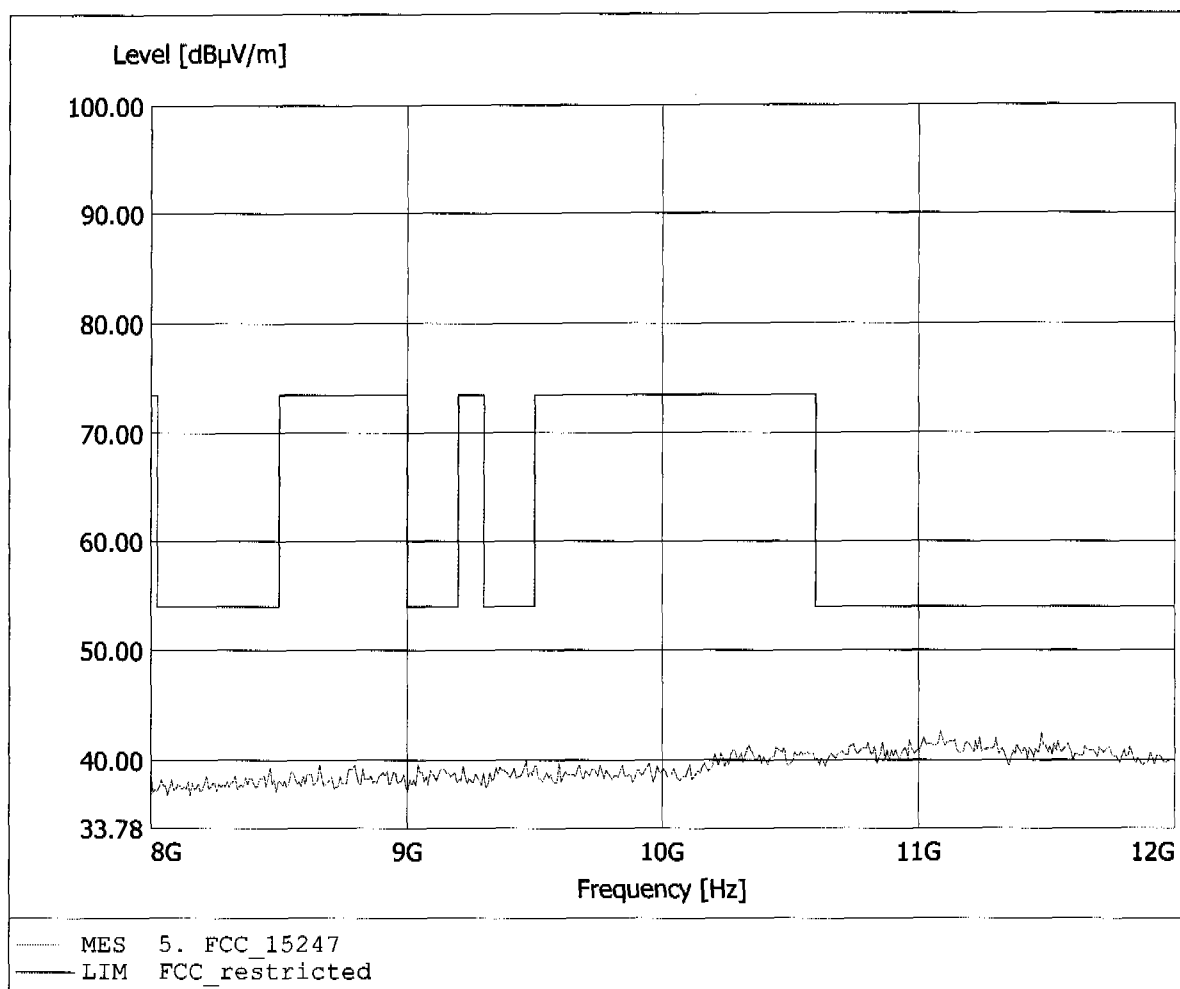
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.882GHz, Emax: 45.78dBμV/m, RBW: 1MHz



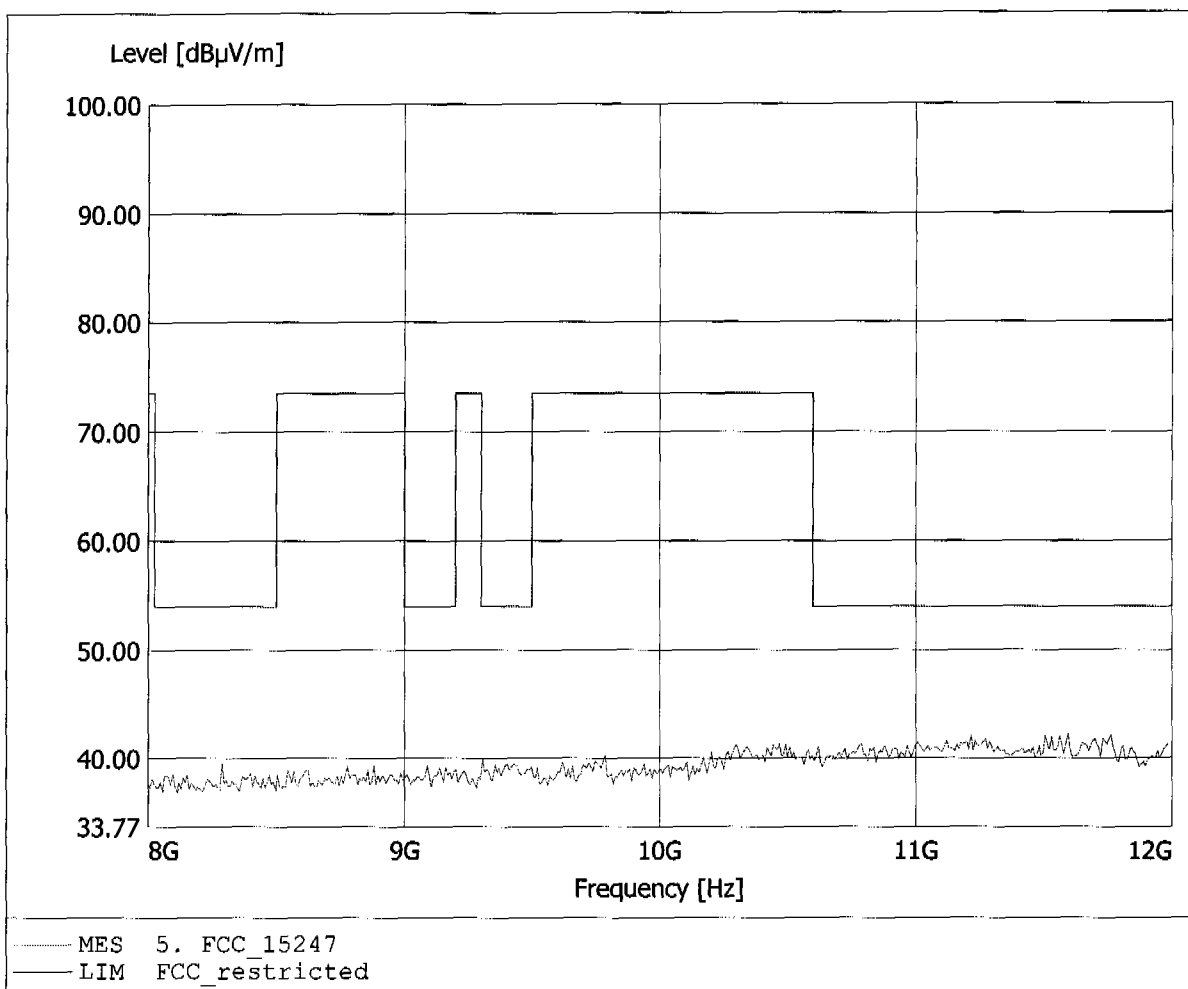
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.086GHz, Emax: 42.66dBμV/m, RBW: 1MHz



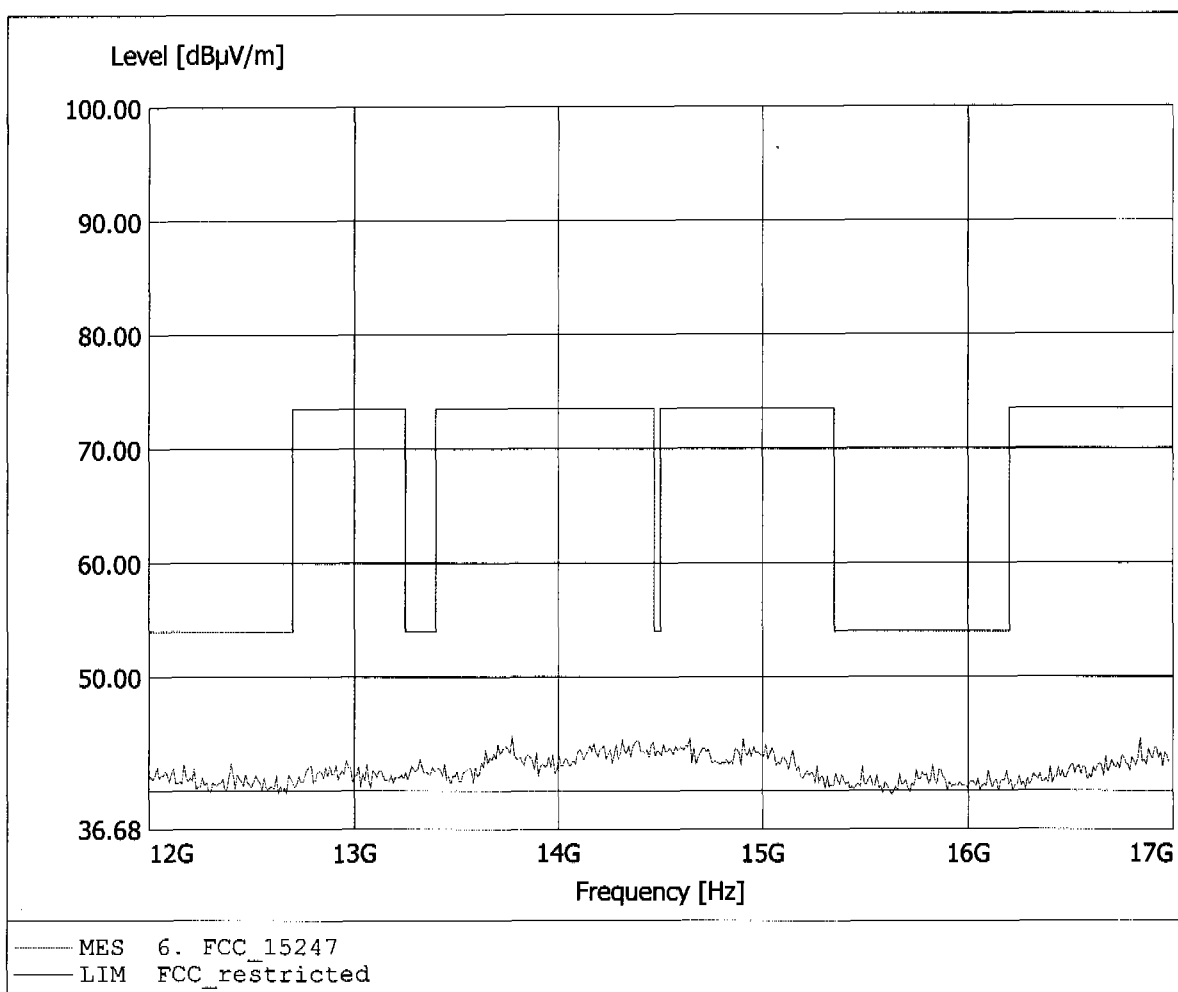
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.591GHz, Emax: 42.25dBµV/m, RBW: 1MHz



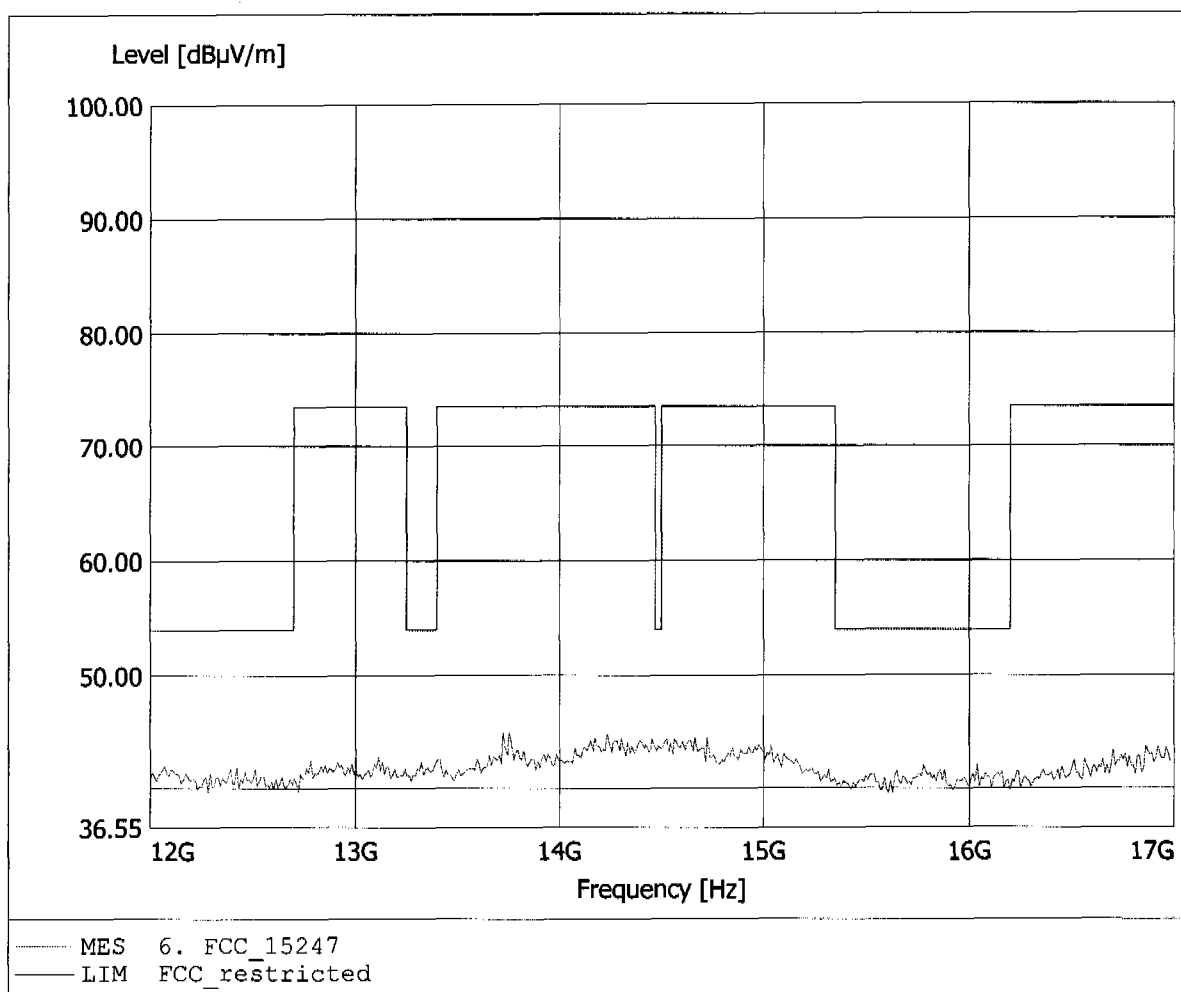
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 13.774GHz, Emax: 44.75dBμV/m, RBW: 1MHz



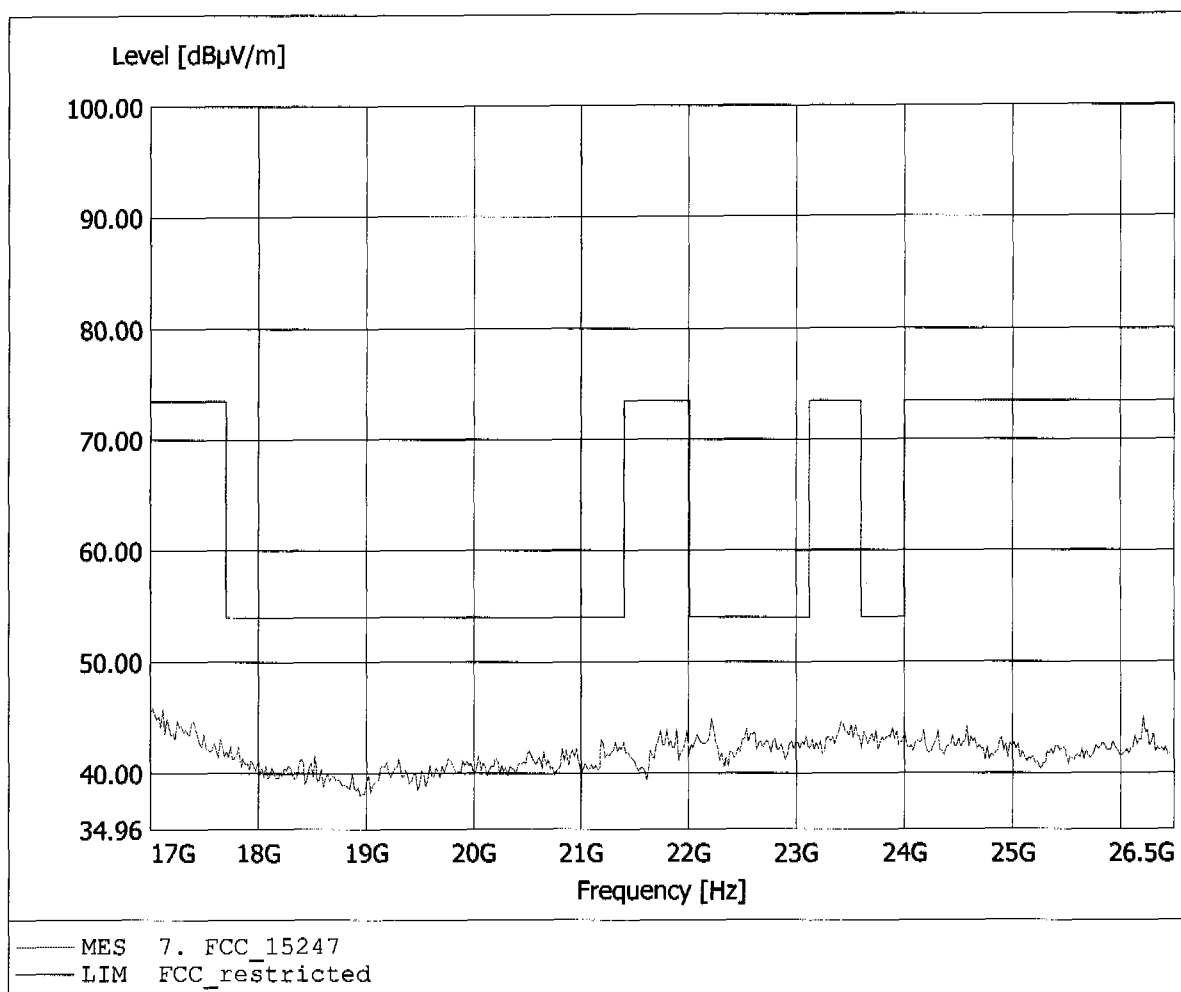
**Spurious emissions Field Strength**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 13.754GHz, Emax: 45.02dBµV/m, RBW: 1MHz



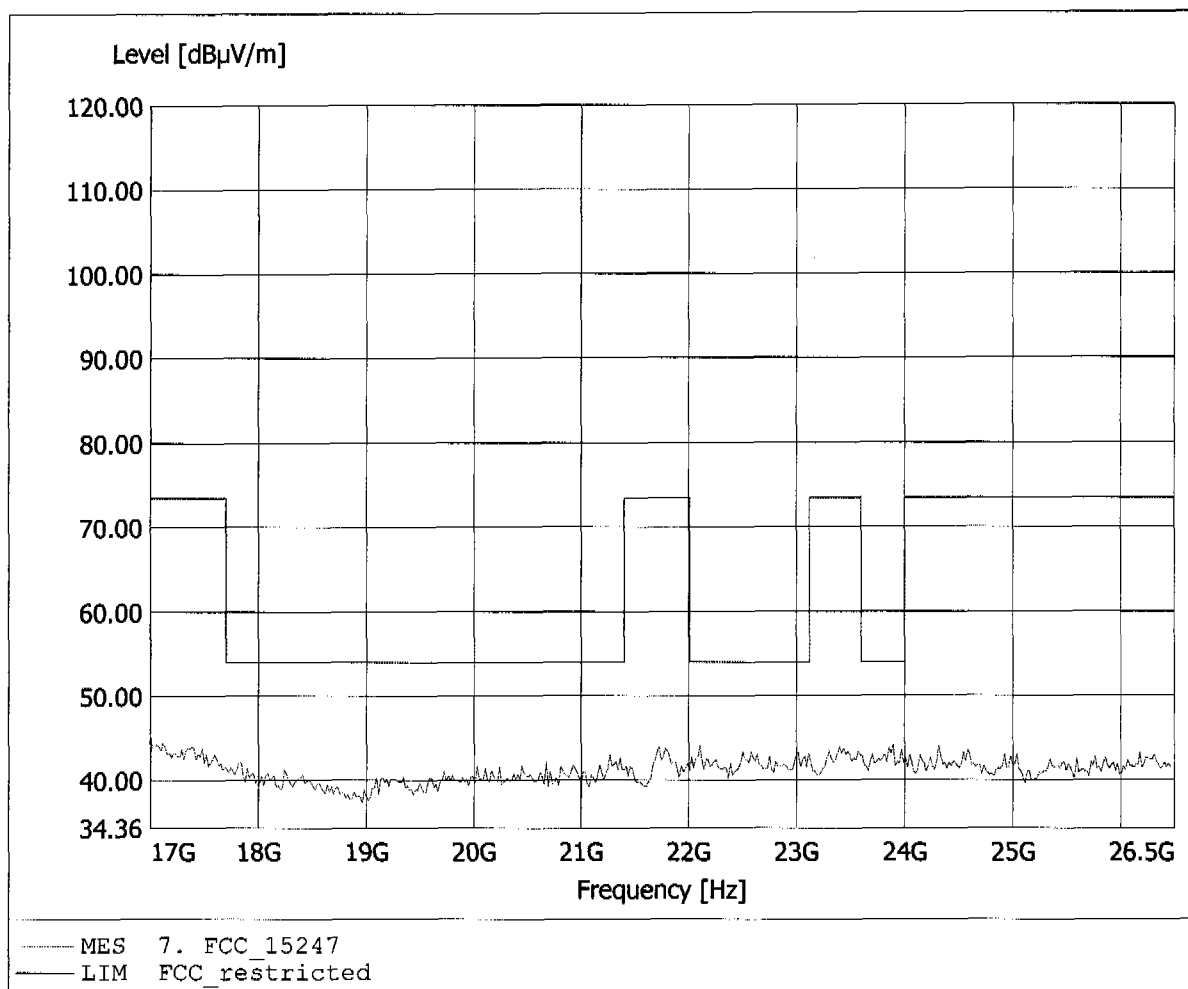
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.019GHz, Emax: 45.82dBμV/m, RBW: 1MHz



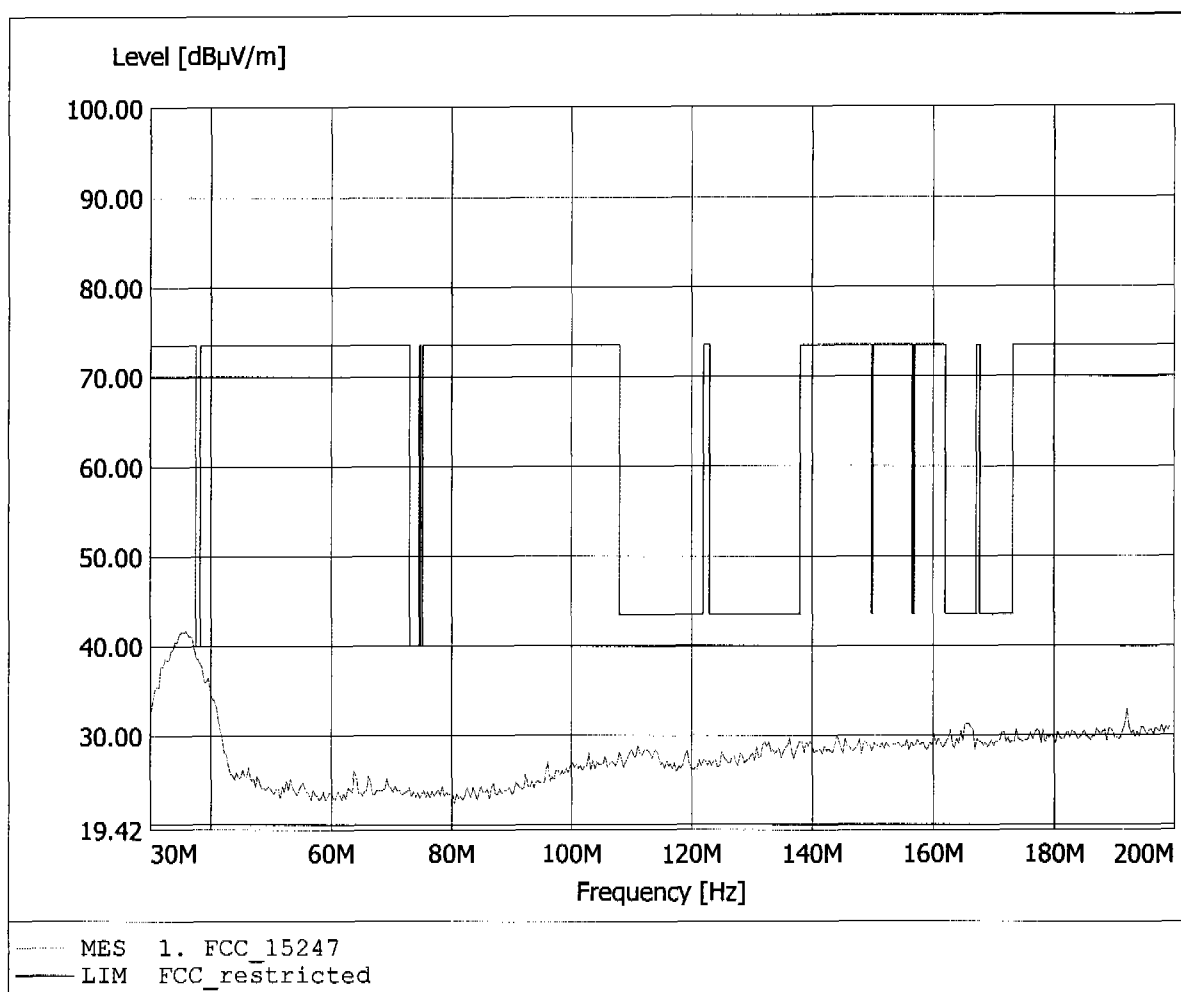
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2441 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.000GHz, Emax: 45.44dBμV/m, RBW: 1MHz



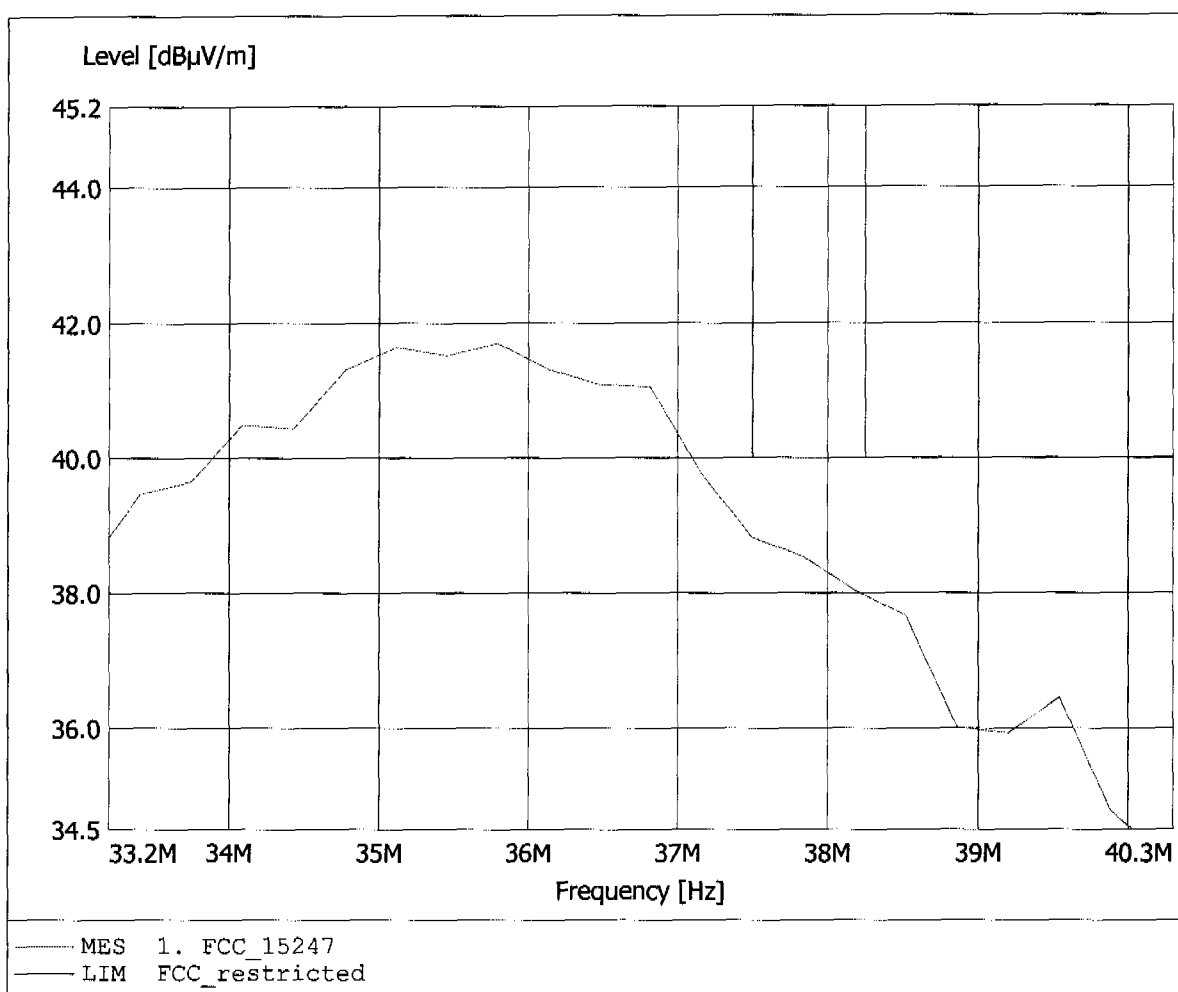
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 35.792MHz, Emax: 41.70dBµV/m, RBW: 100kHz



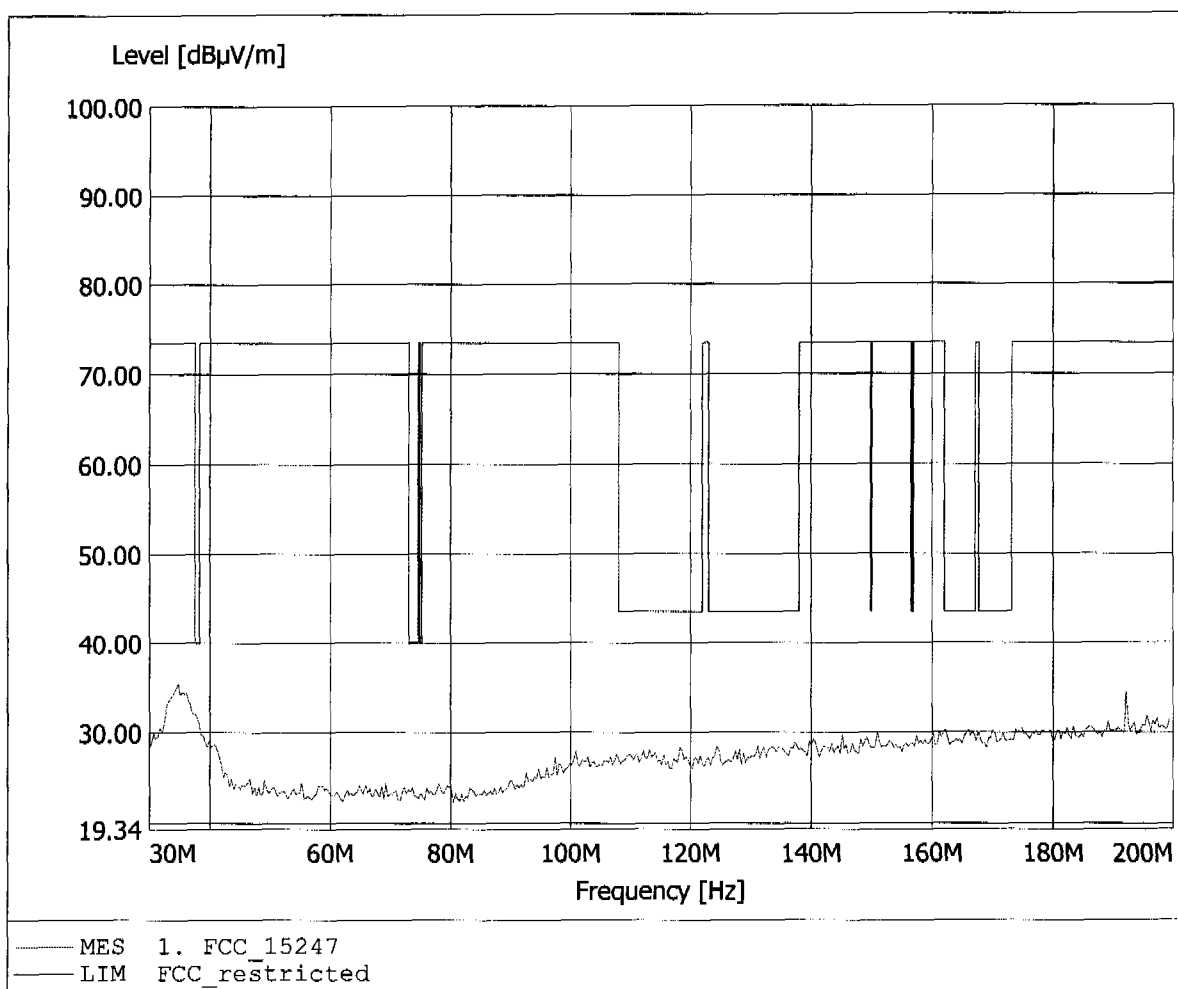
**Spurious emissions Field Strength**  
**FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 35.792MHz, Emax: 41.70dBµV/m, RBW: 100kHz



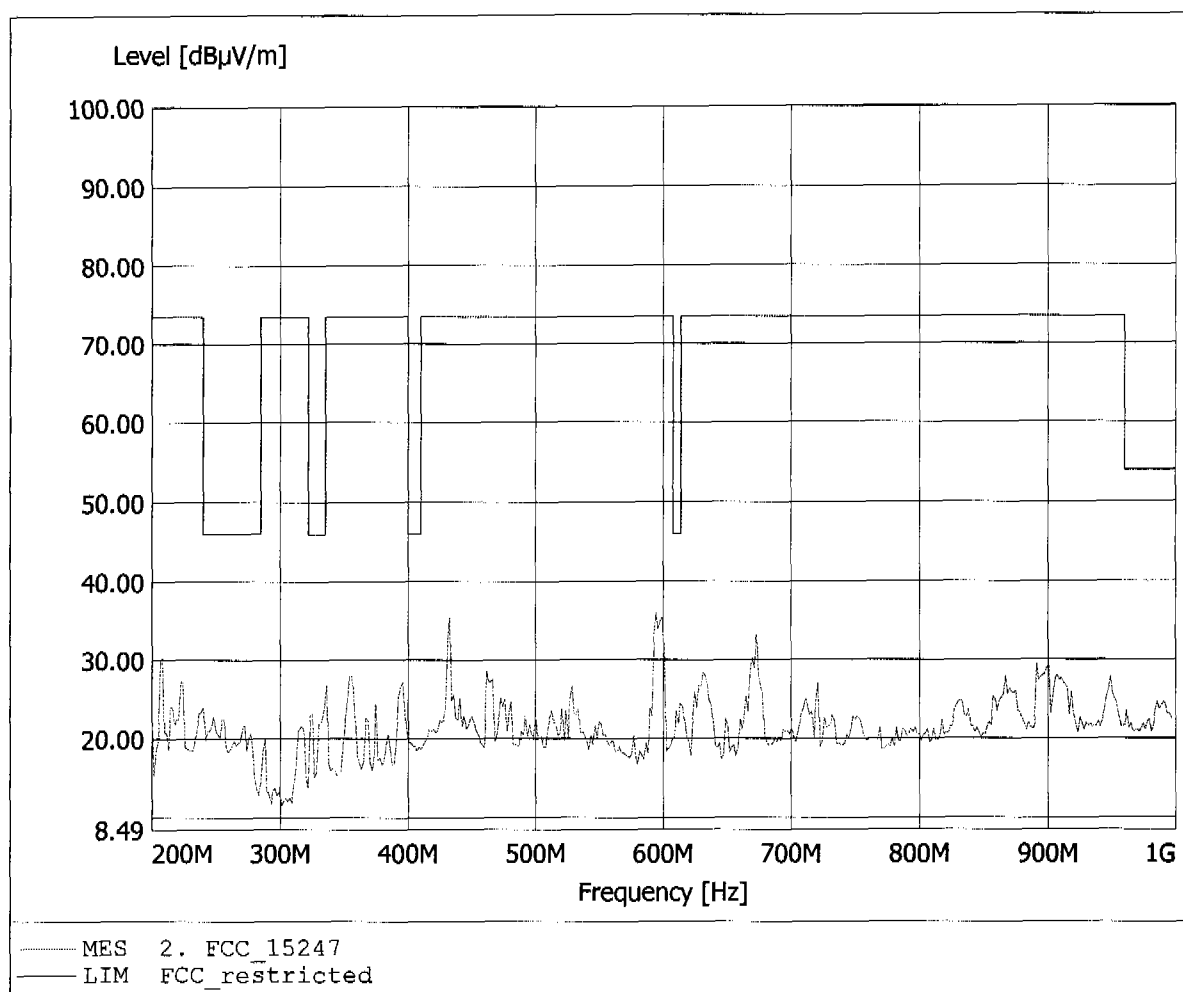
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 34.770MHz, Emax: 35.51dBµV/m, RBW: 100kHz



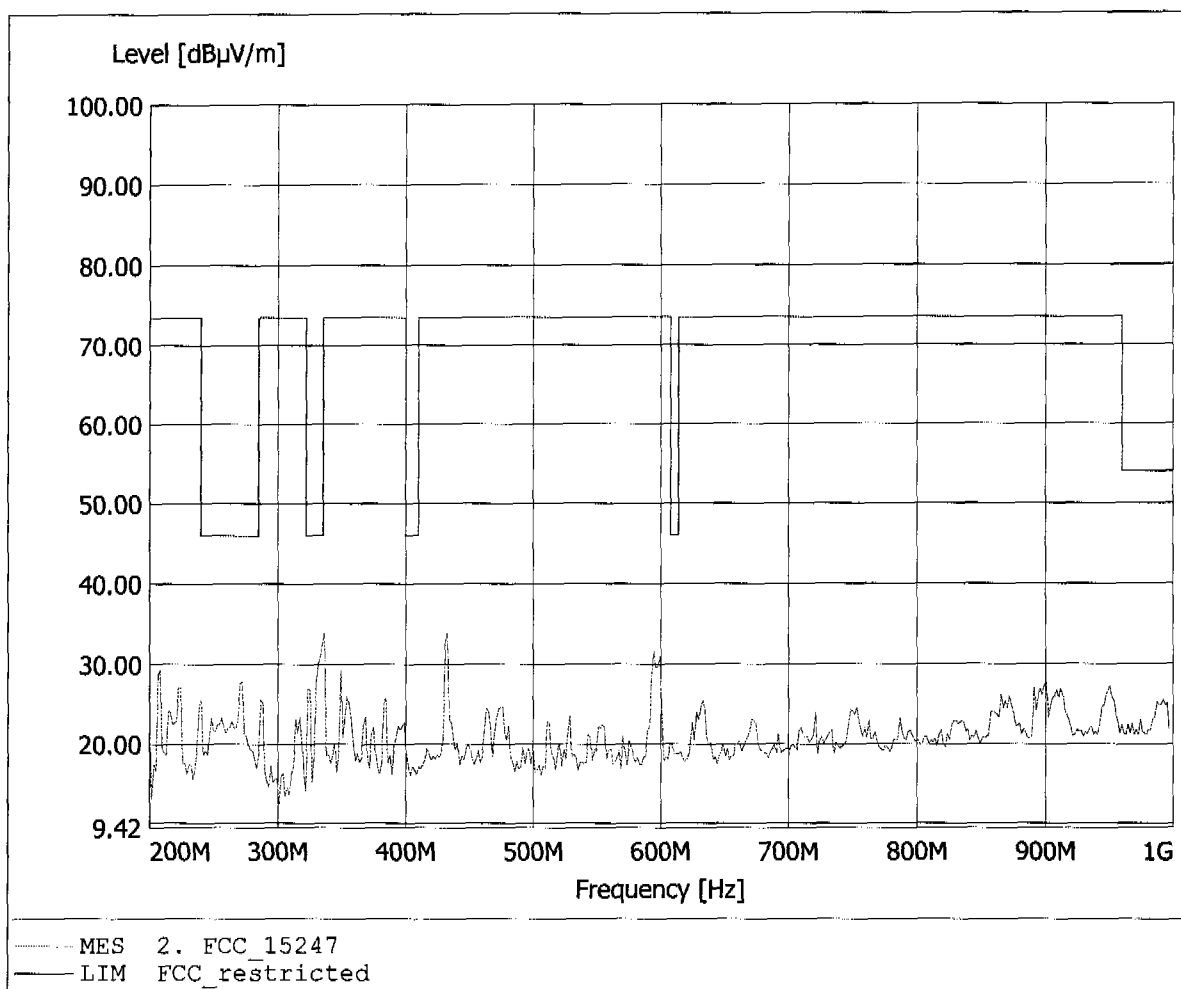
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Fmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 594.389MHz, Emax: 35.96dBµV/m, RBW: 100kHz



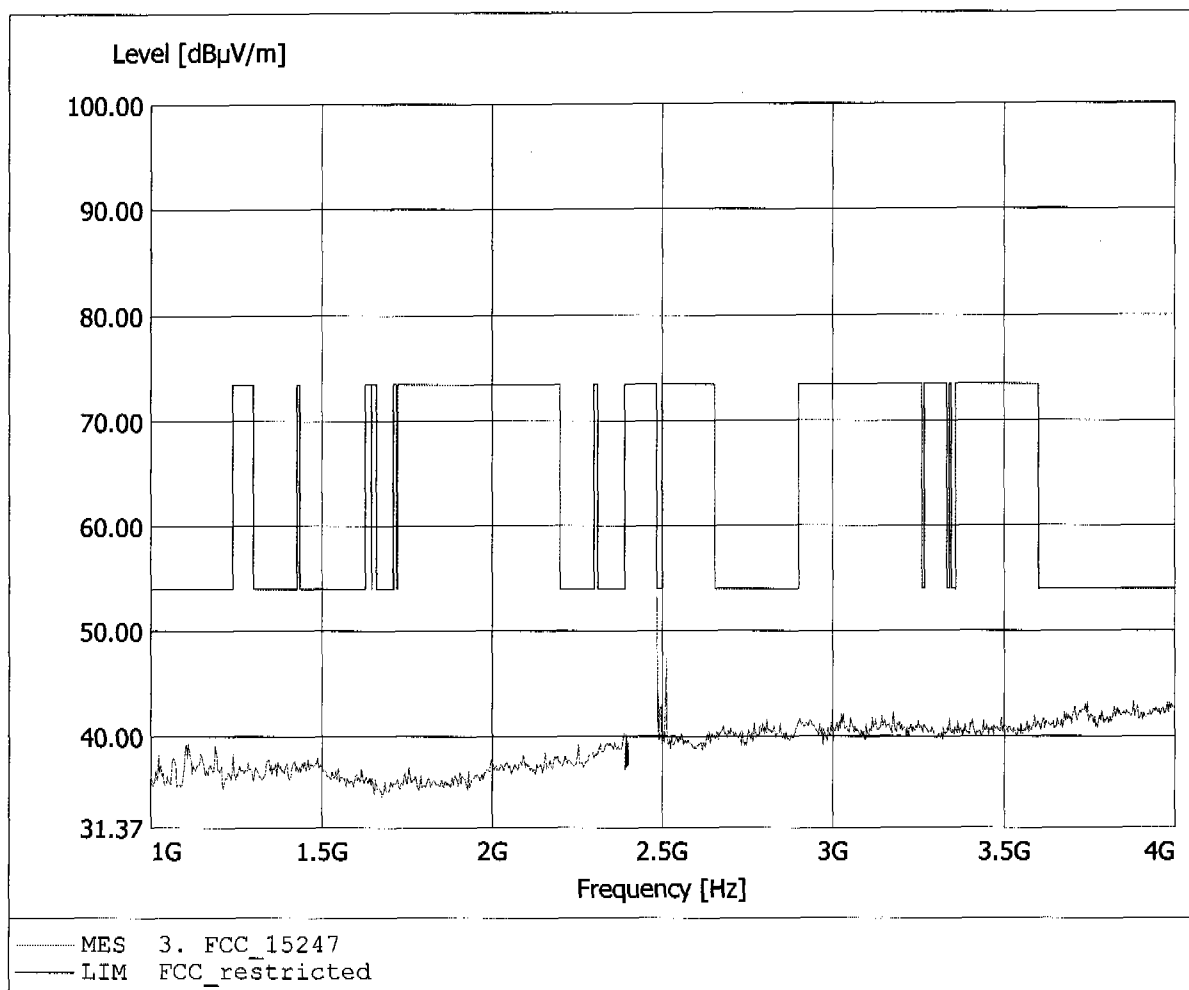
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 432.465MHz, Emax: 33.93dBµV/m, RBW: 100kHz



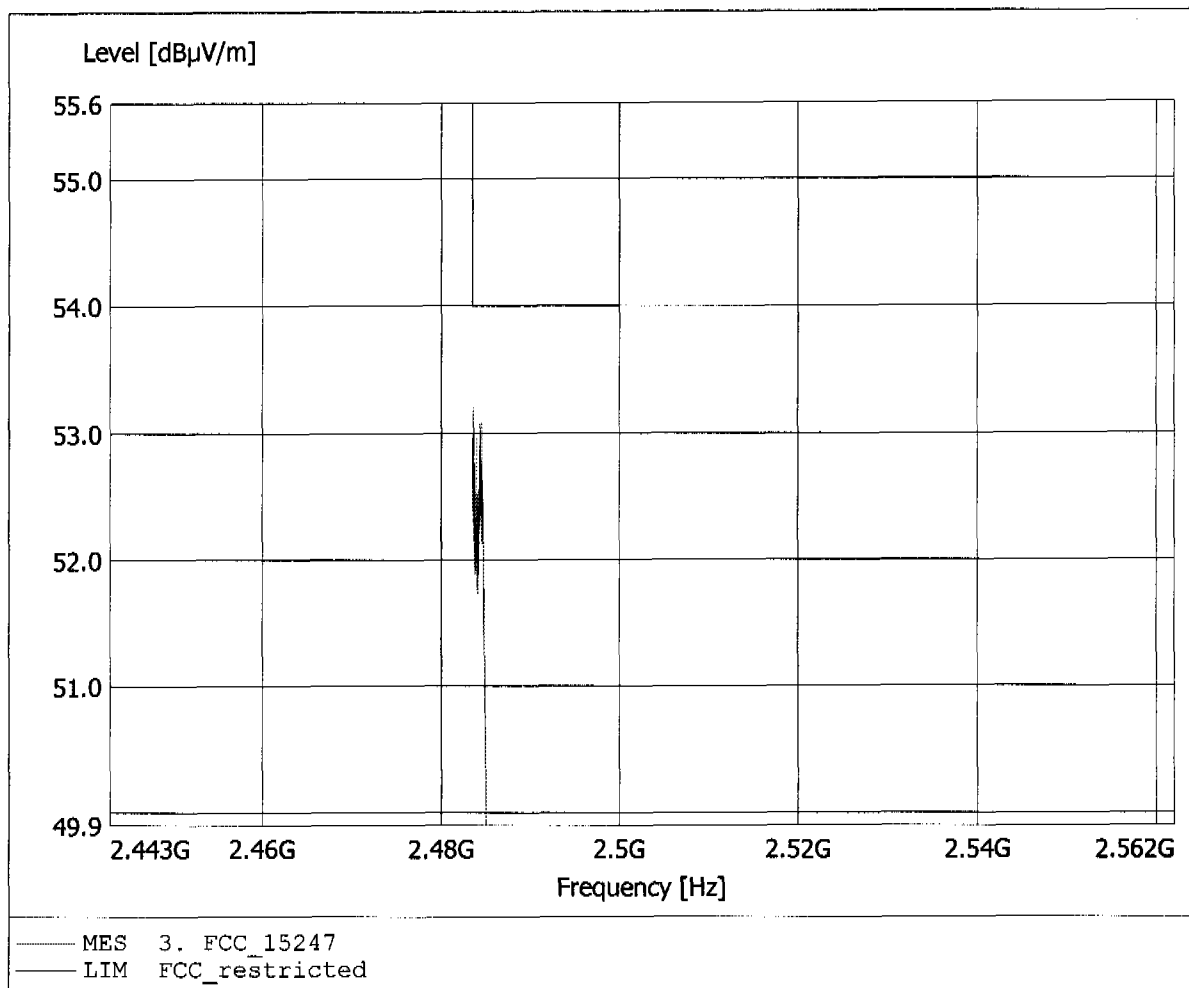
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.484GHz, Emax: 53.21dBμV/m, RBW: 1MHz



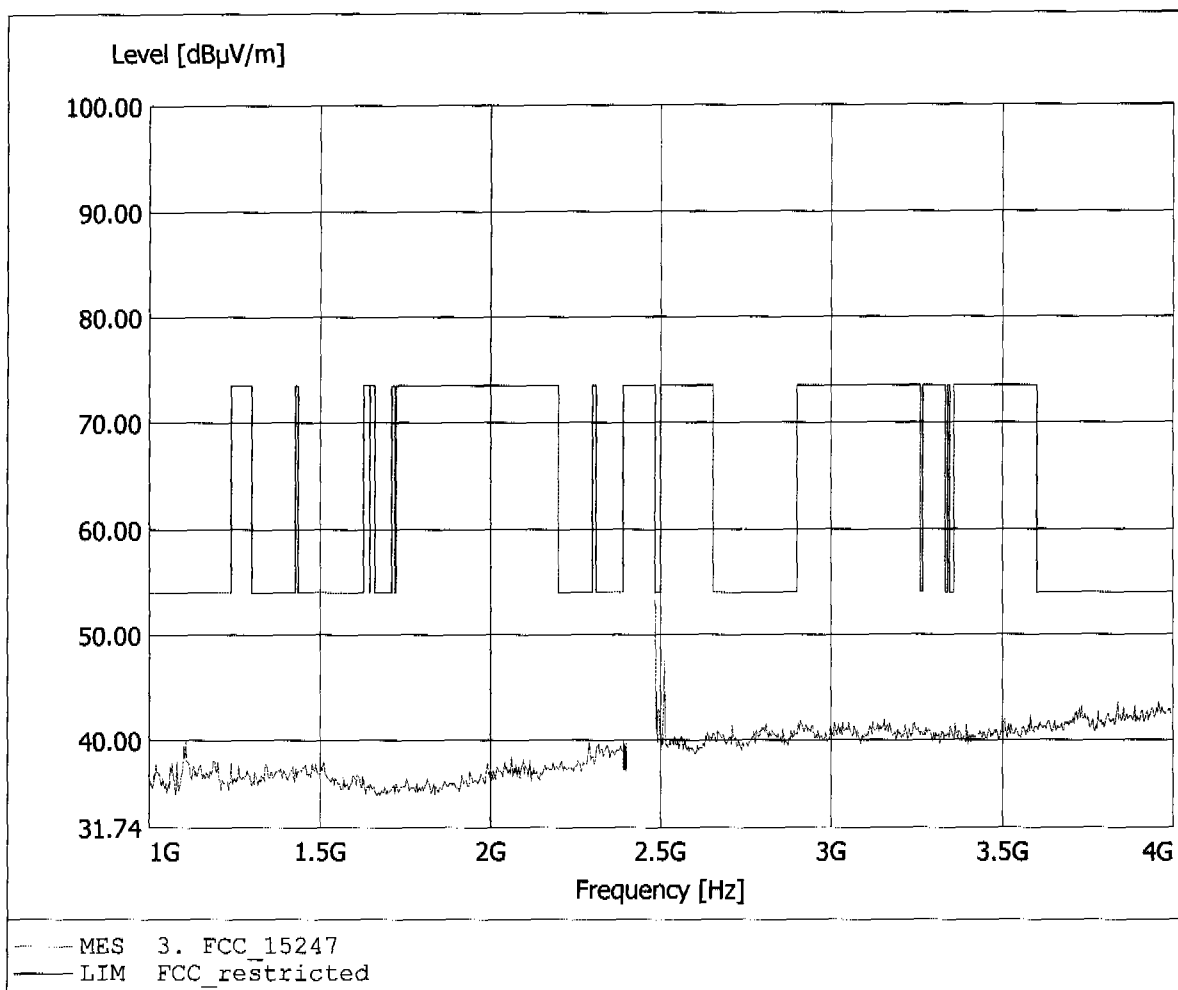
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.484GHz, Emax: 53.21dBµV/m, RBW: 1MHz



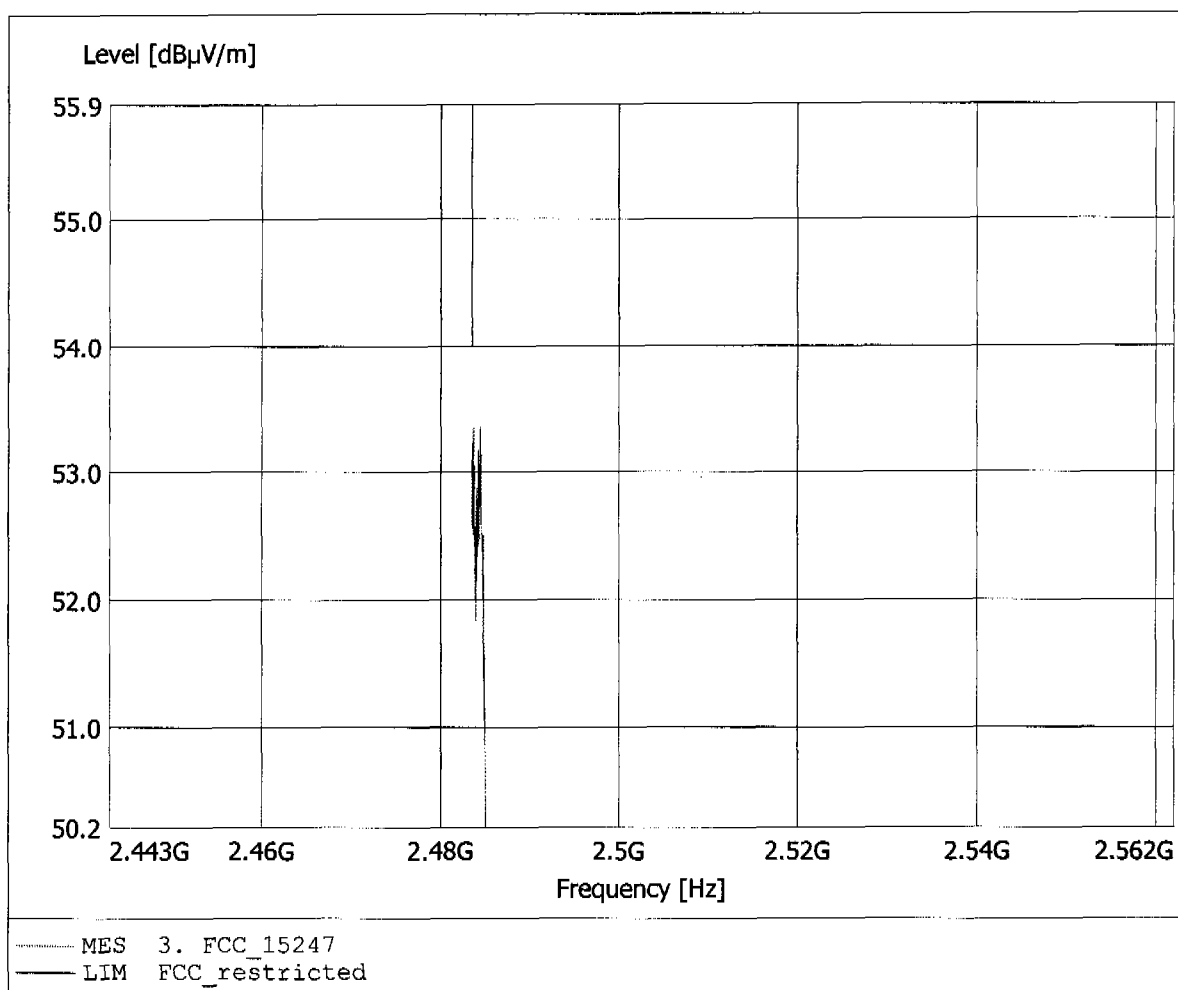
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.484GHz, Emax: 53.35dB $\mu$ V/m, RBW: 1MHz



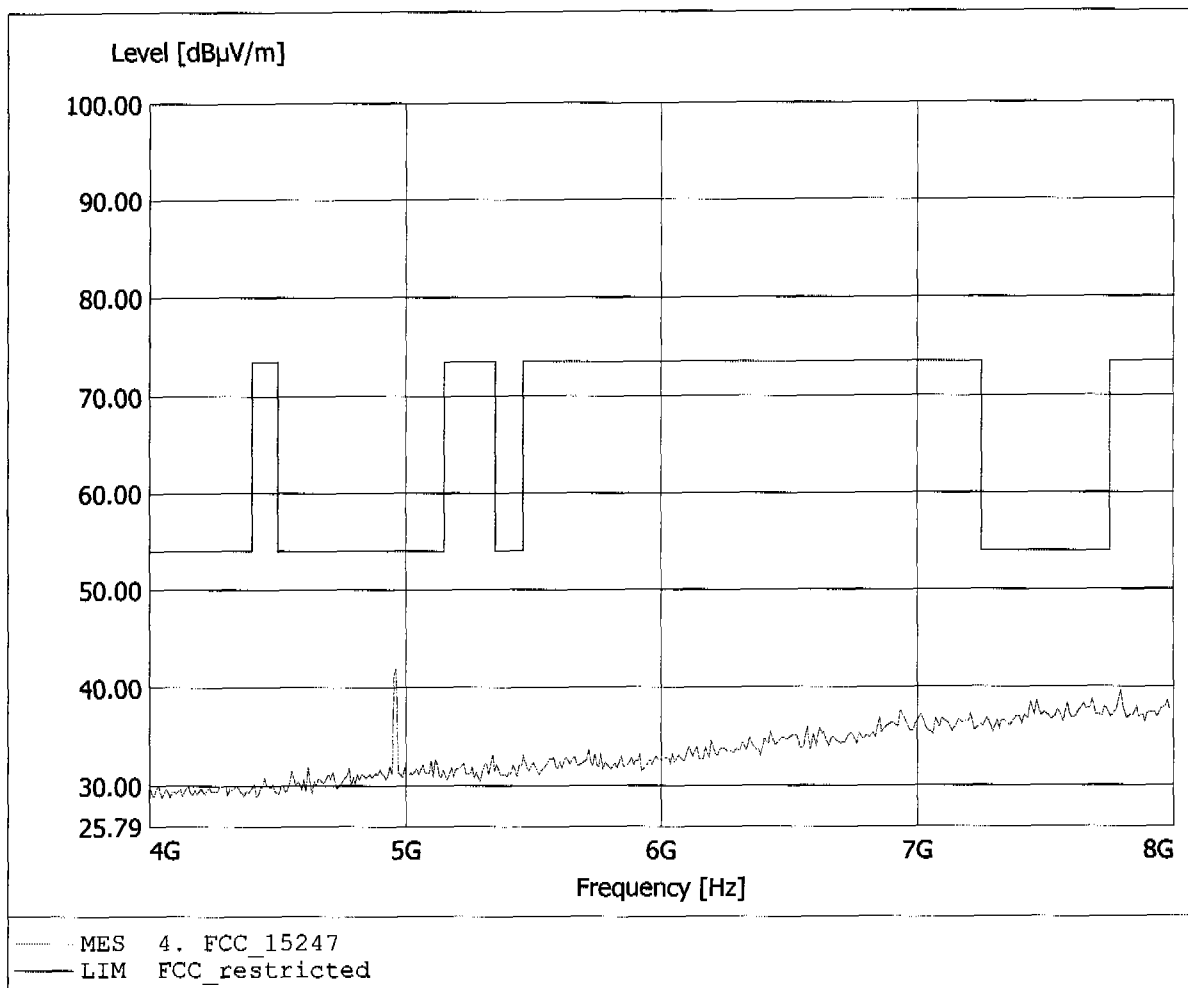
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.484GHz, Emax: 53.35dBμV/m, RBW: 1MHz



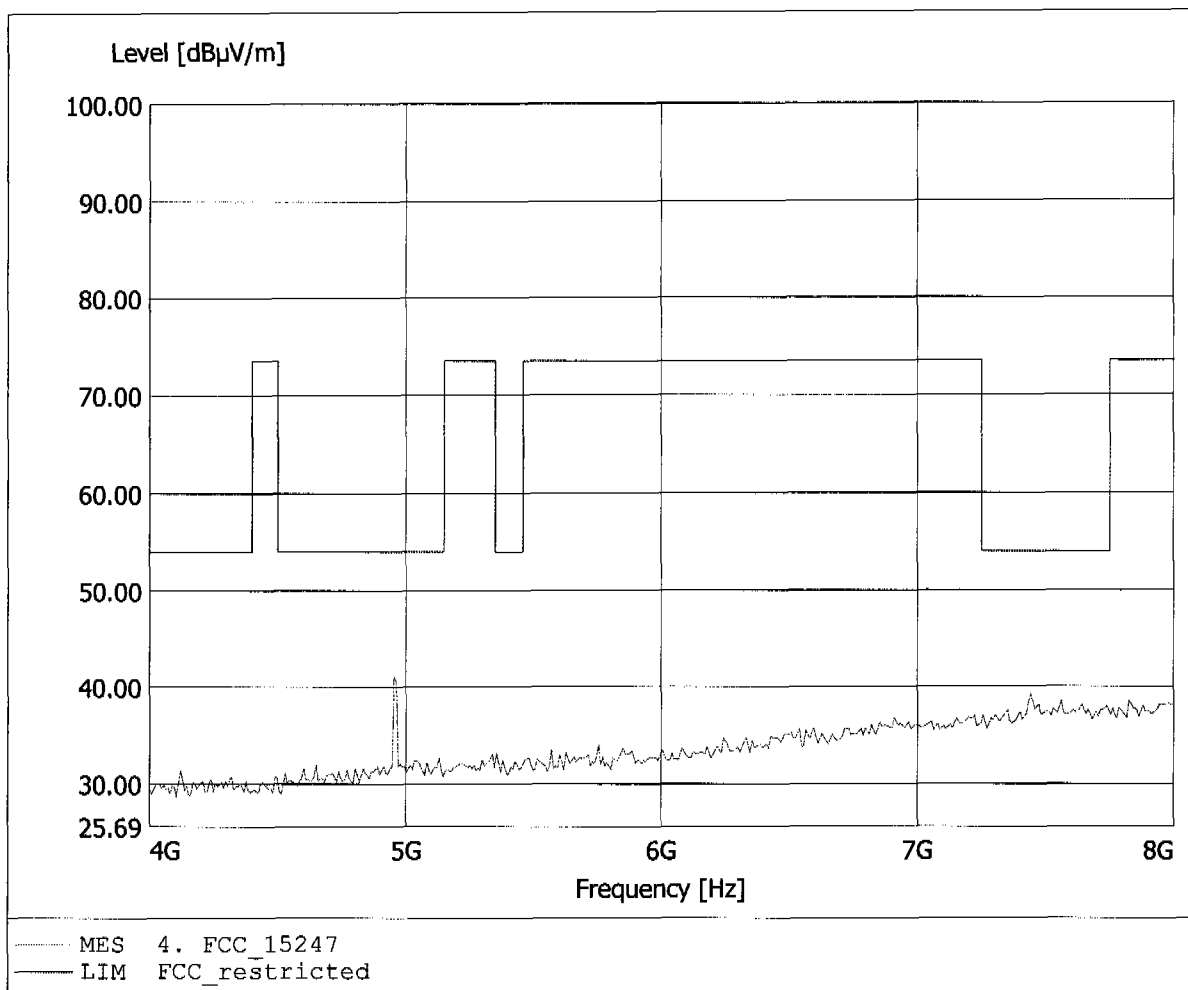
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.962GHz, Emax: 41.85dBμV/m, RBW: 1MHz



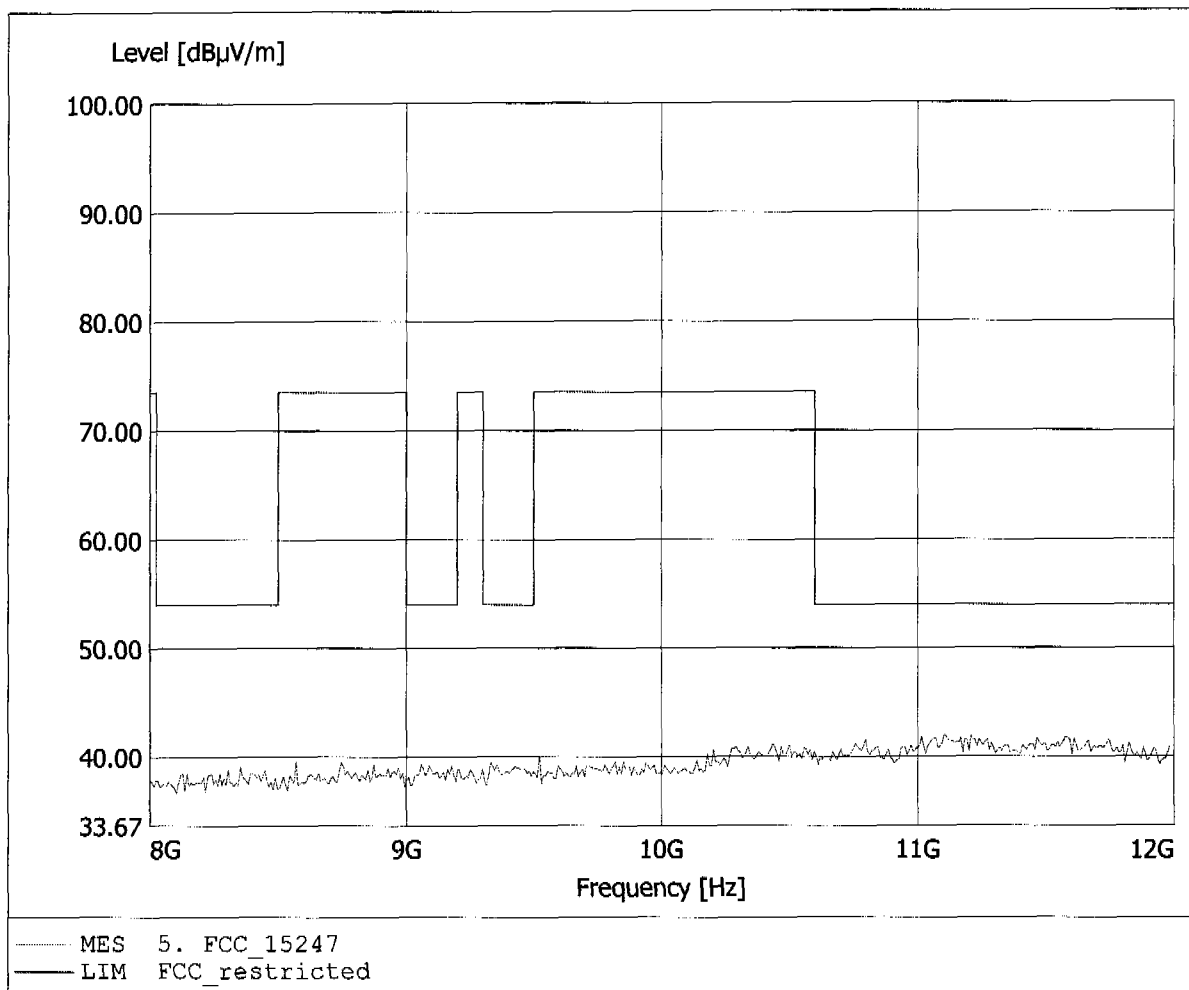
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.954GHz, Emax: 41.07dBμV/m, RBW: 1MHz



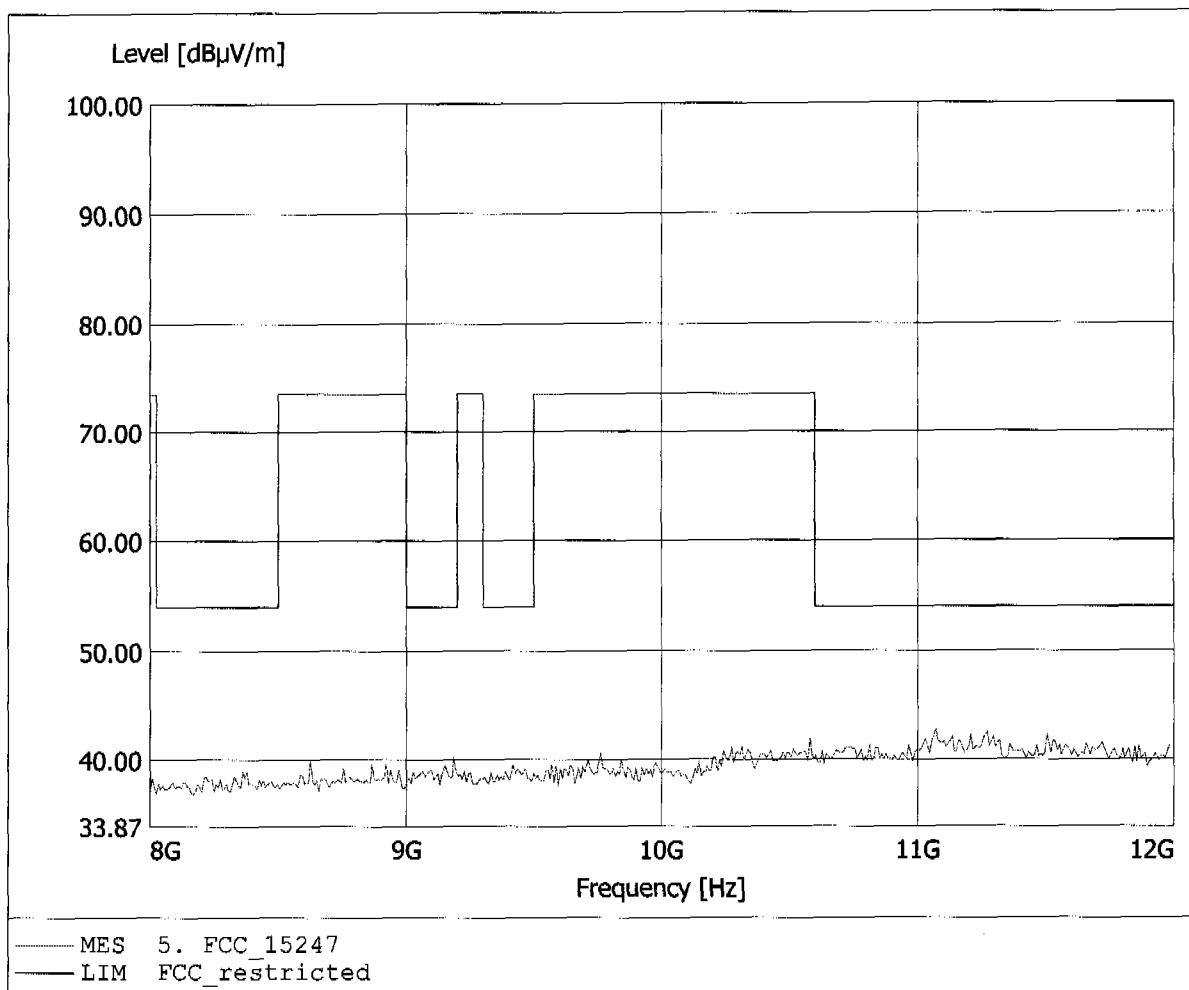
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.102GHz, Emax: 42.08dBµV/m, RBW: 1MHz



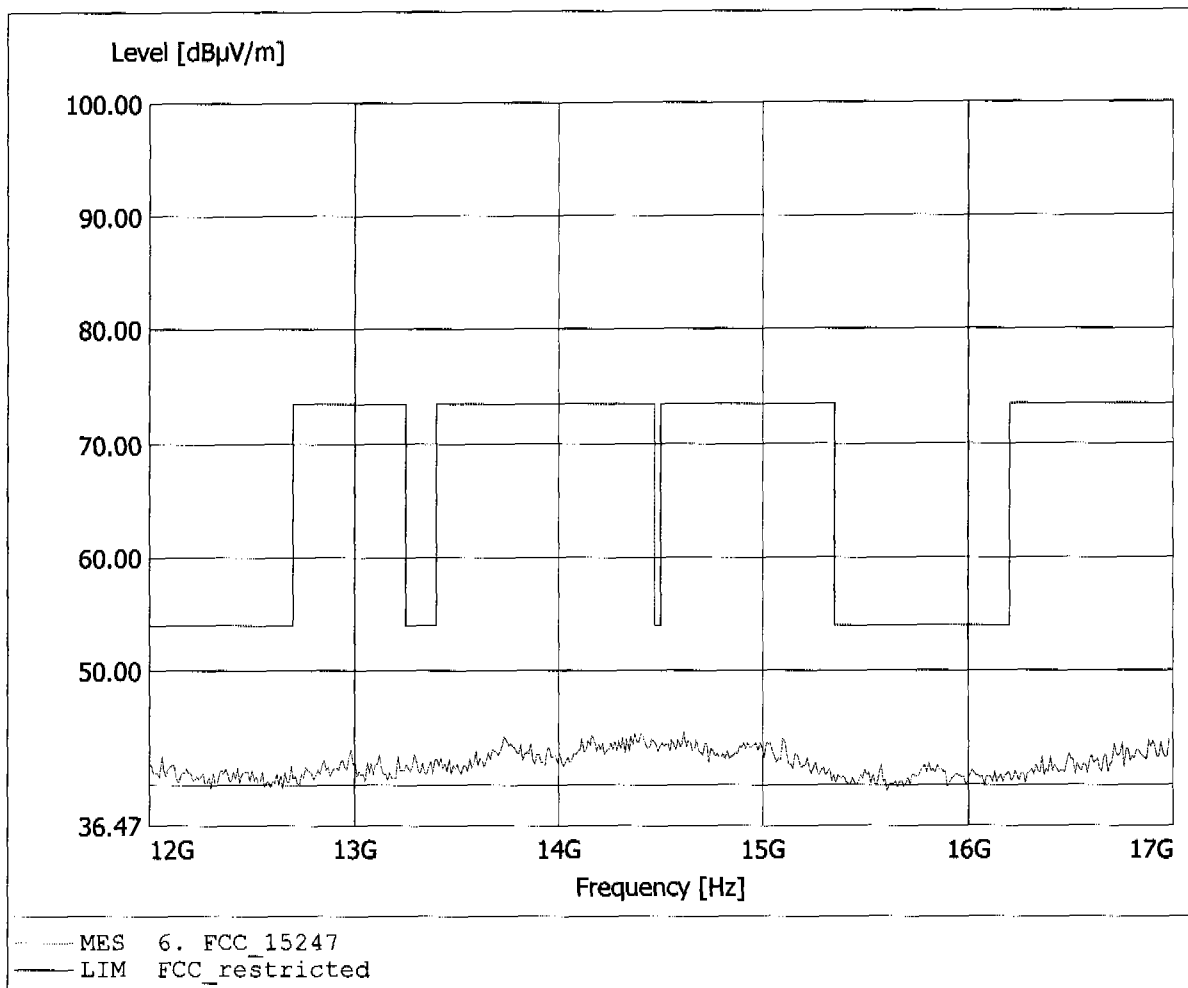
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.070GHz, Emax: 42.75dBμV/m, RBW: 1MHz



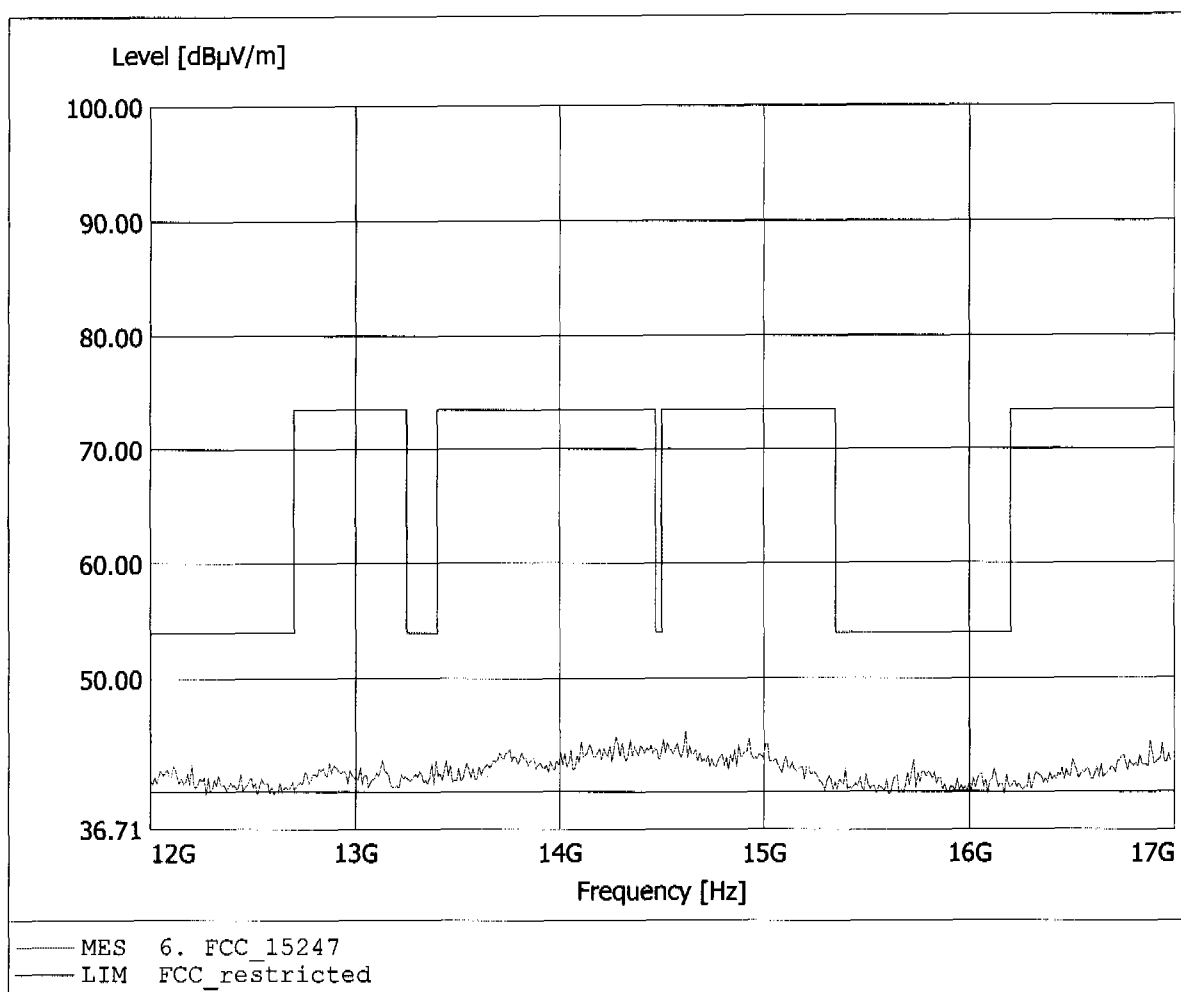
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.615GHz, Emax: 44.65dBµV/m, RBW: 1MHz



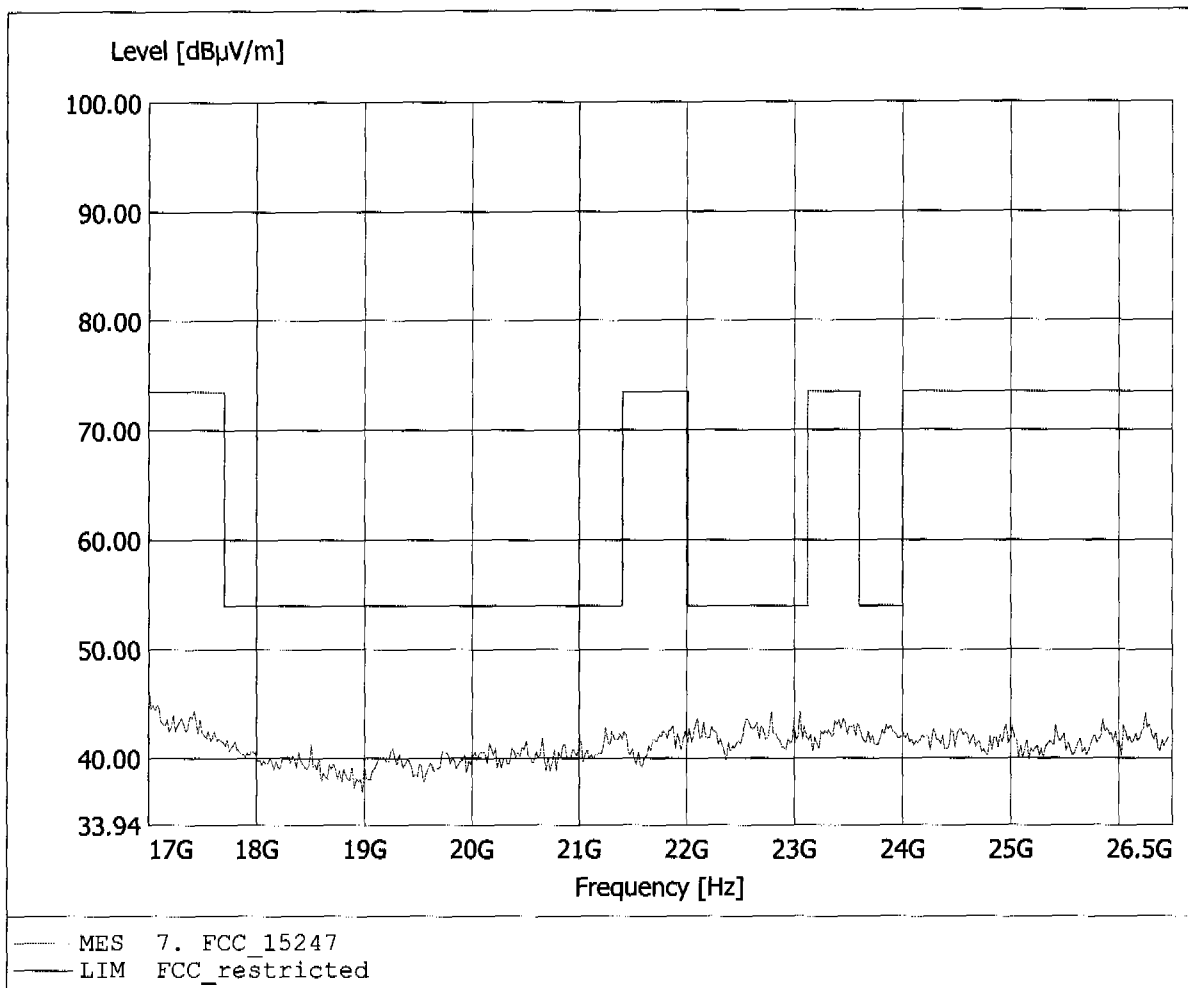
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.615GHz, Emax: 45.35dBμV/m, RBW: 1MHz



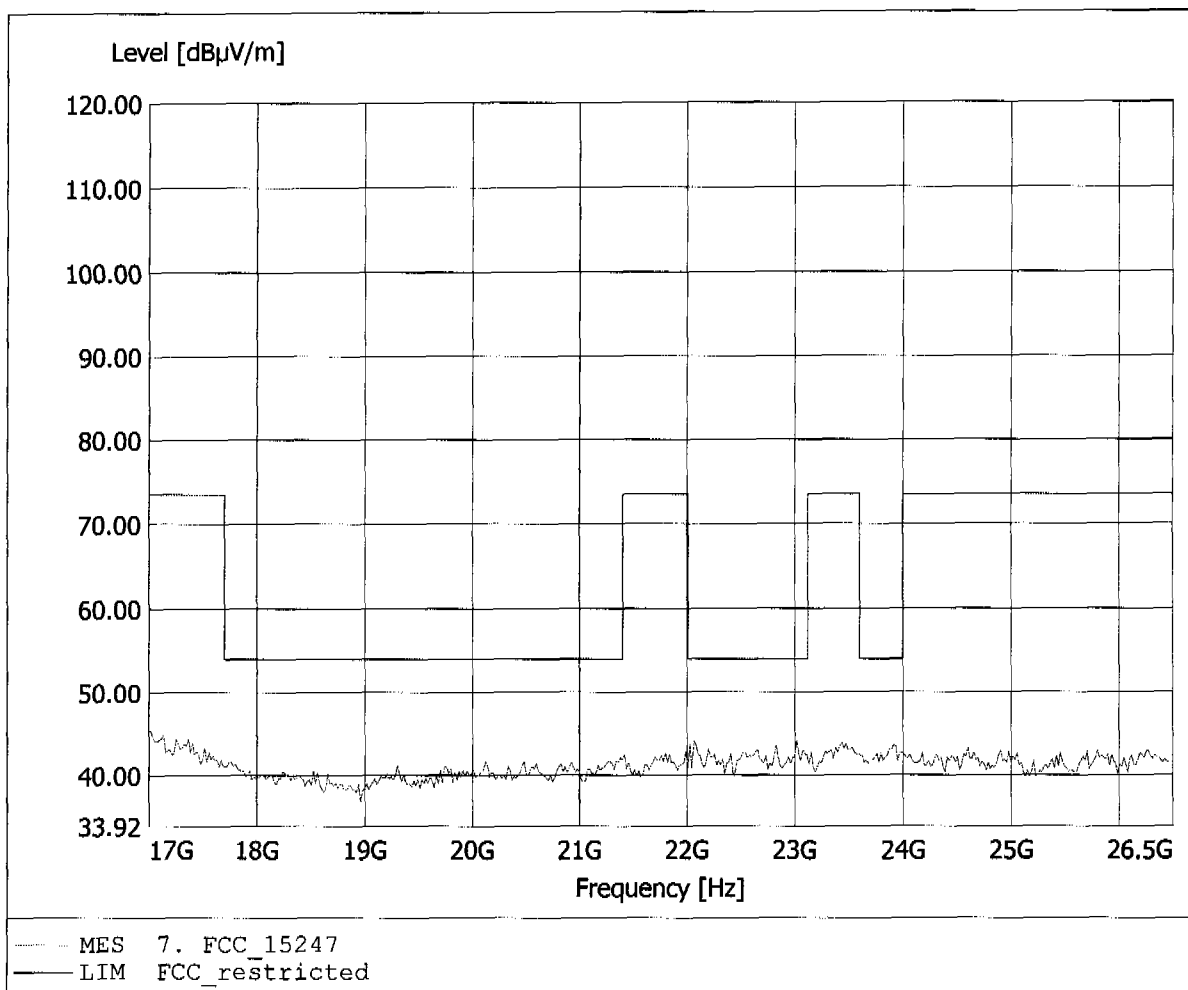
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.000GHz, Emax: 46.68dBµV/m, RBW: 1MHz



**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter / Pmax / 2480 MHz  
Model: 4100  
Approval Holder: Nonin Medical Inc.  
Operating Condition: Tnom: 23°C / Unom: 3VDC (battery)  
Test Site / Operator: ETS / Mr. Handrik  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.019GHz, Emax: 45.41dBµV/m, RBW: 1MHz



## Appendix D

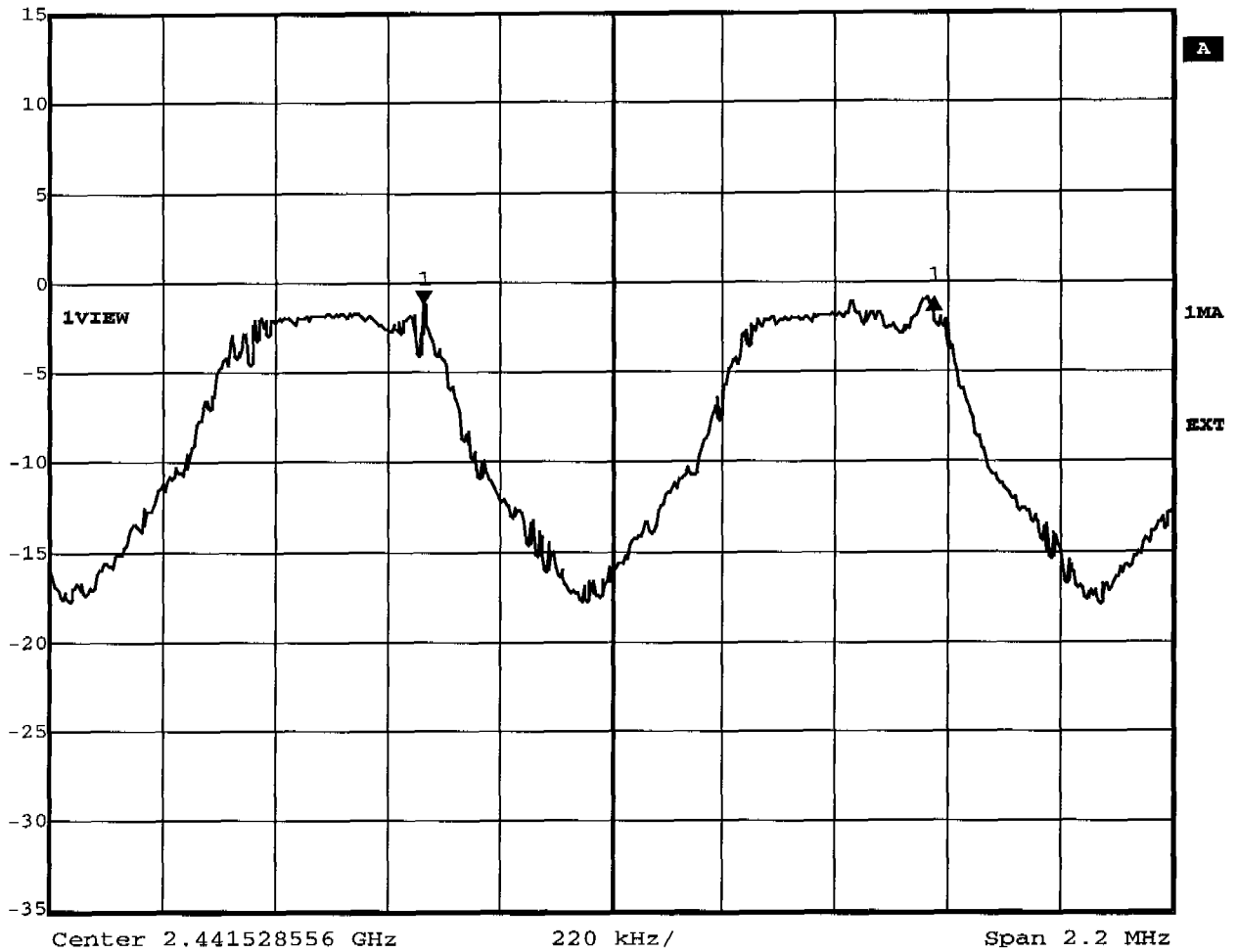
Spurious Emissions conducted - Transmitter operating

## Appendix E

### Carrier Frequency Separation



Delta 1 [T1] RBW 100 kHz RF Att 40 dB  
Ref Lvl 0.07 dB VBW 100 kHz  
15 dBm 1.00080160 MHz SWT 5 ms Unit dBm



Title: Carrier Frequency Separation  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 09:50:21

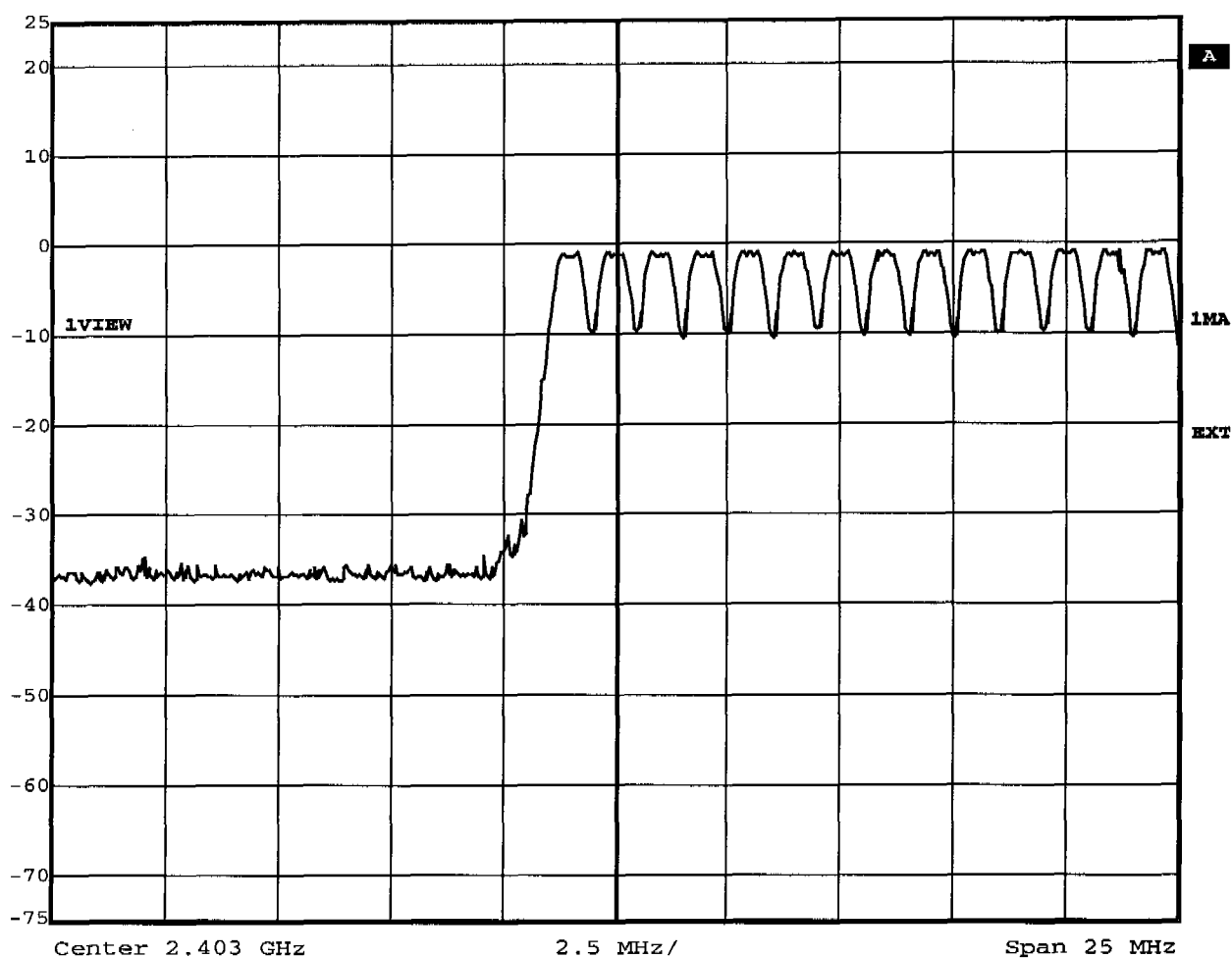
## **Appendix F**

Number of Hopping Frequencies



Ref Lvl  
25 dBm

RBW 300 kHz RF Att 50 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

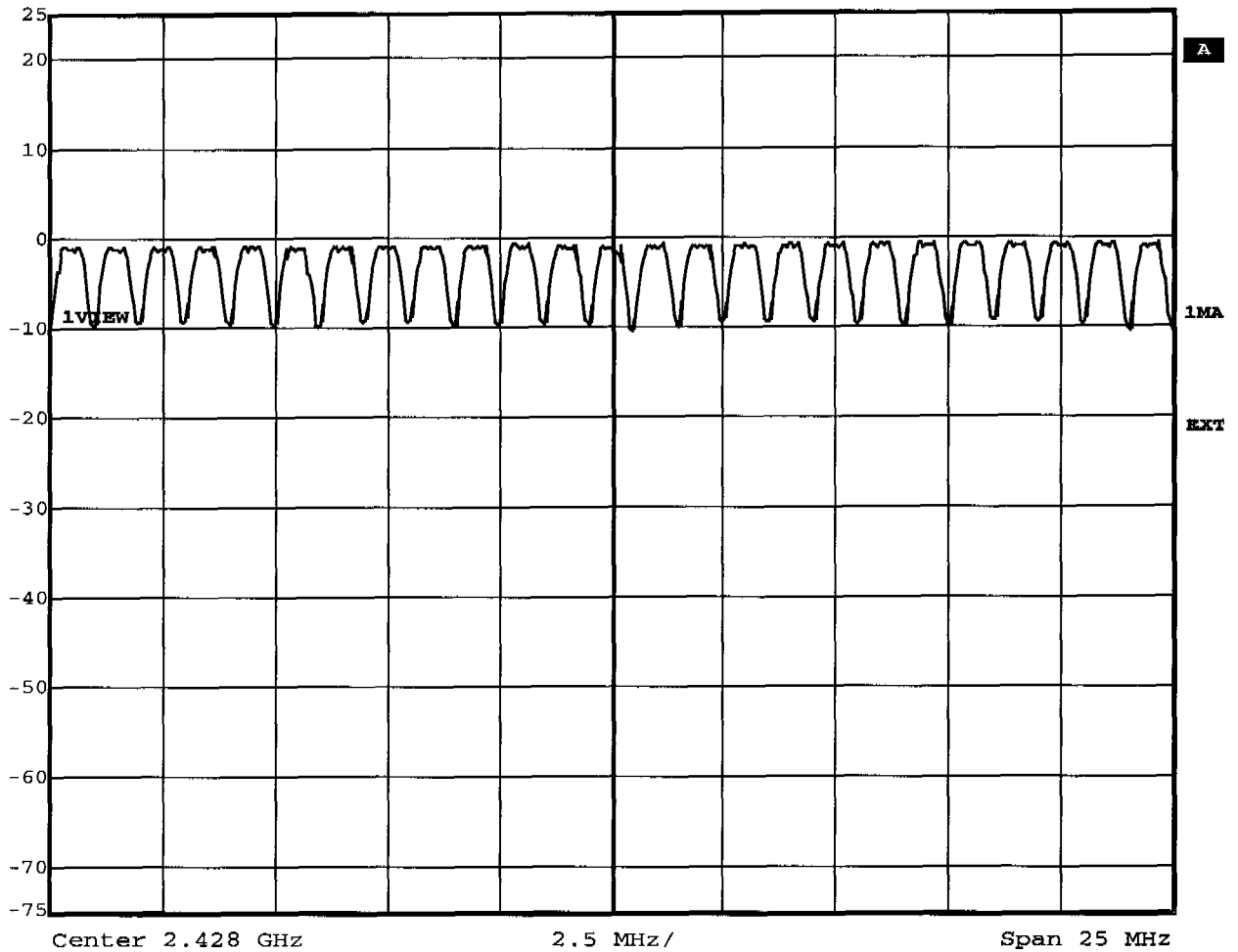


Title: Number of Hopping Frequencies Ch.: 0-13  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 10:06:04



Ref Lvl  
25 dBm

RBW 300 kHz RF Att 50 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

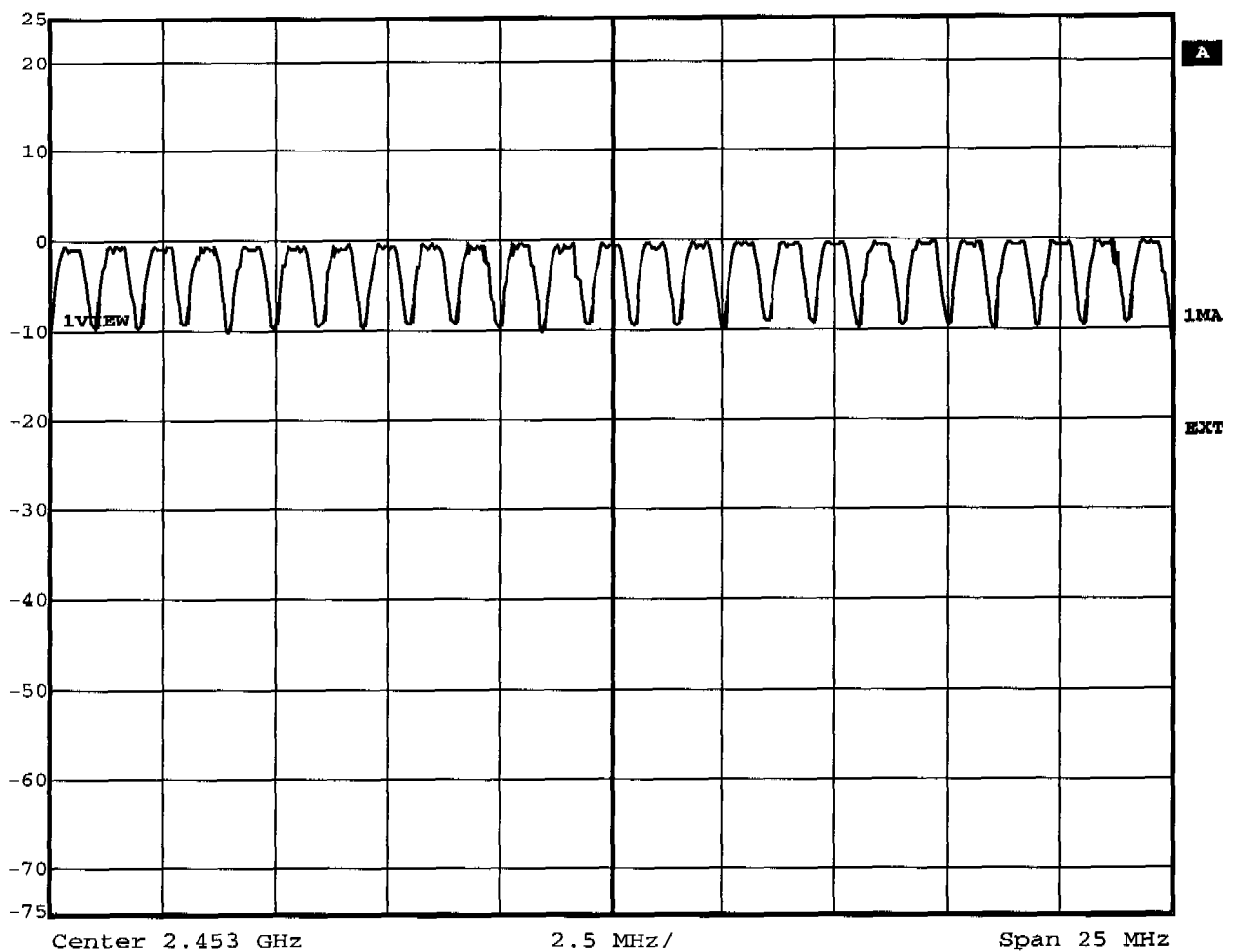


Title: Number of Hopping Frequencies Ch.: 14-38  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 10:08:10



Ref Lvl  
25 dBm

RBW 300 kHz RF Att 50 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

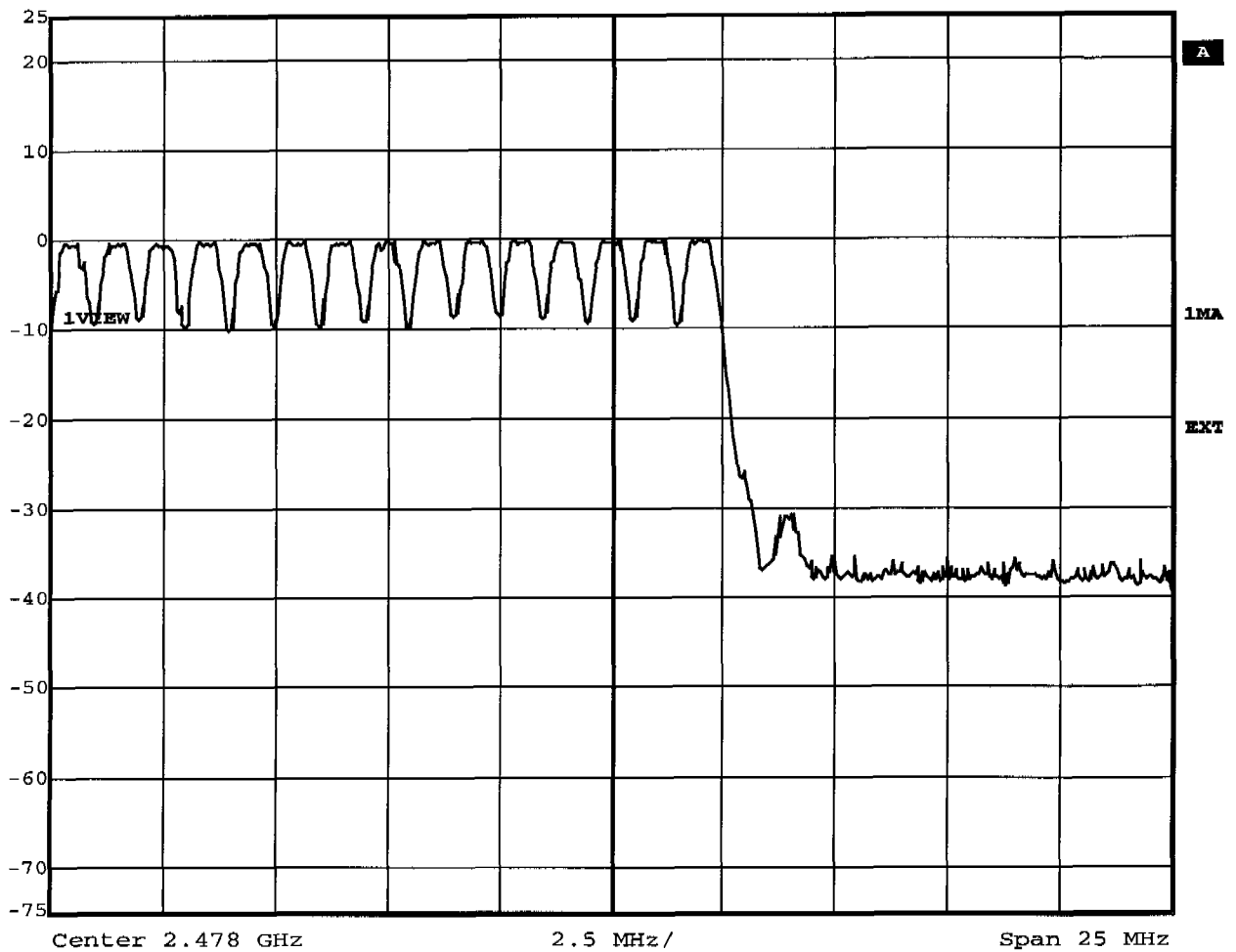


Title: Number of Hopping Frequencies Ch.: 39-63  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 10:10:02



Ref Lvl  
25 dBm

RBW 300 kHz RF Att 50 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm



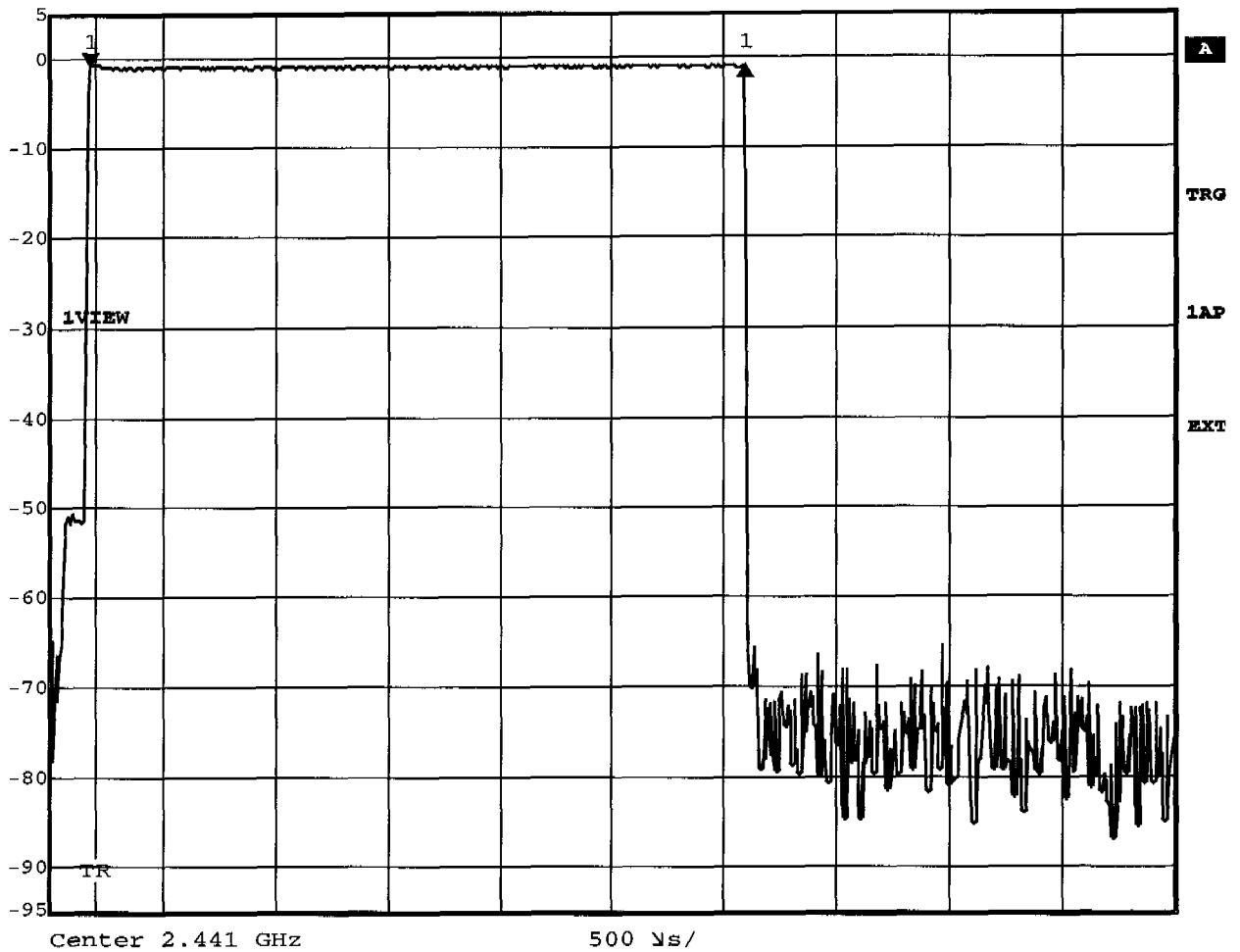
Title: Number of Hopping Frequencies Ch.: 64-78  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 10:11:41

## Appendix G

Time of Occupancy (Dwell Time)



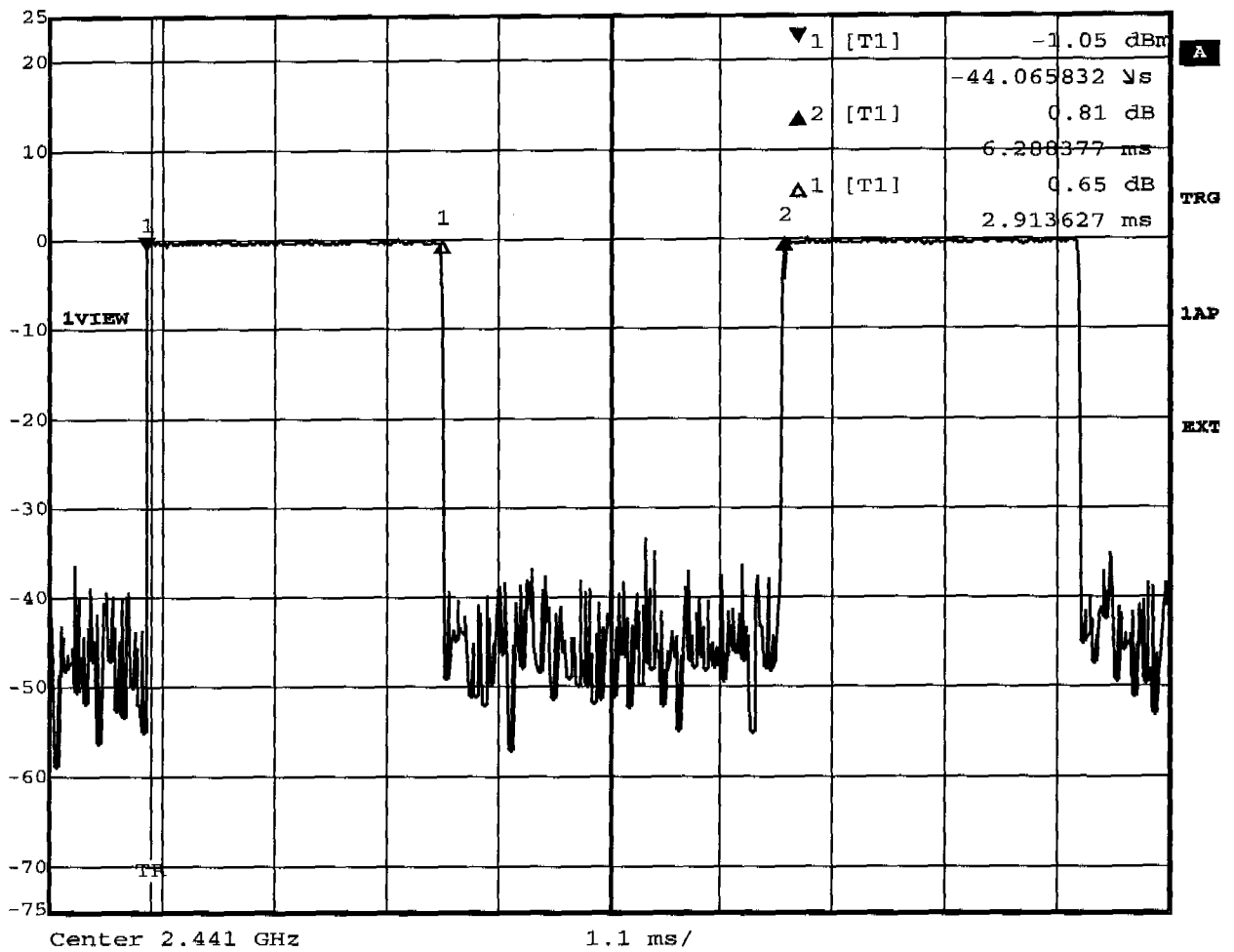
|         |              |     |       |        |       |
|---------|--------------|-----|-------|--------|-------|
| Ref Lvl | Delta 1 [T1] | RBW | 1 MHz | RF Att | 20 dB |
| 5 dBm   | -0.19 dB     | VBW | 1 MHz |        |       |
|         | 2.912689 ms  | SWT | 5 ms  | Unit   | dBm   |



Title: Time of occupancy (Hopping DH5) 64 events \* 2.913ms=186.43ms  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 10:45:03



Delta 2 [T1] RBW 1 MHz RF Att 50 dB  
Ref Lvl 0.81 dB VBW 1 MHz  
25 dBm 6.288377 ms SWT 11 ms Unit dBm



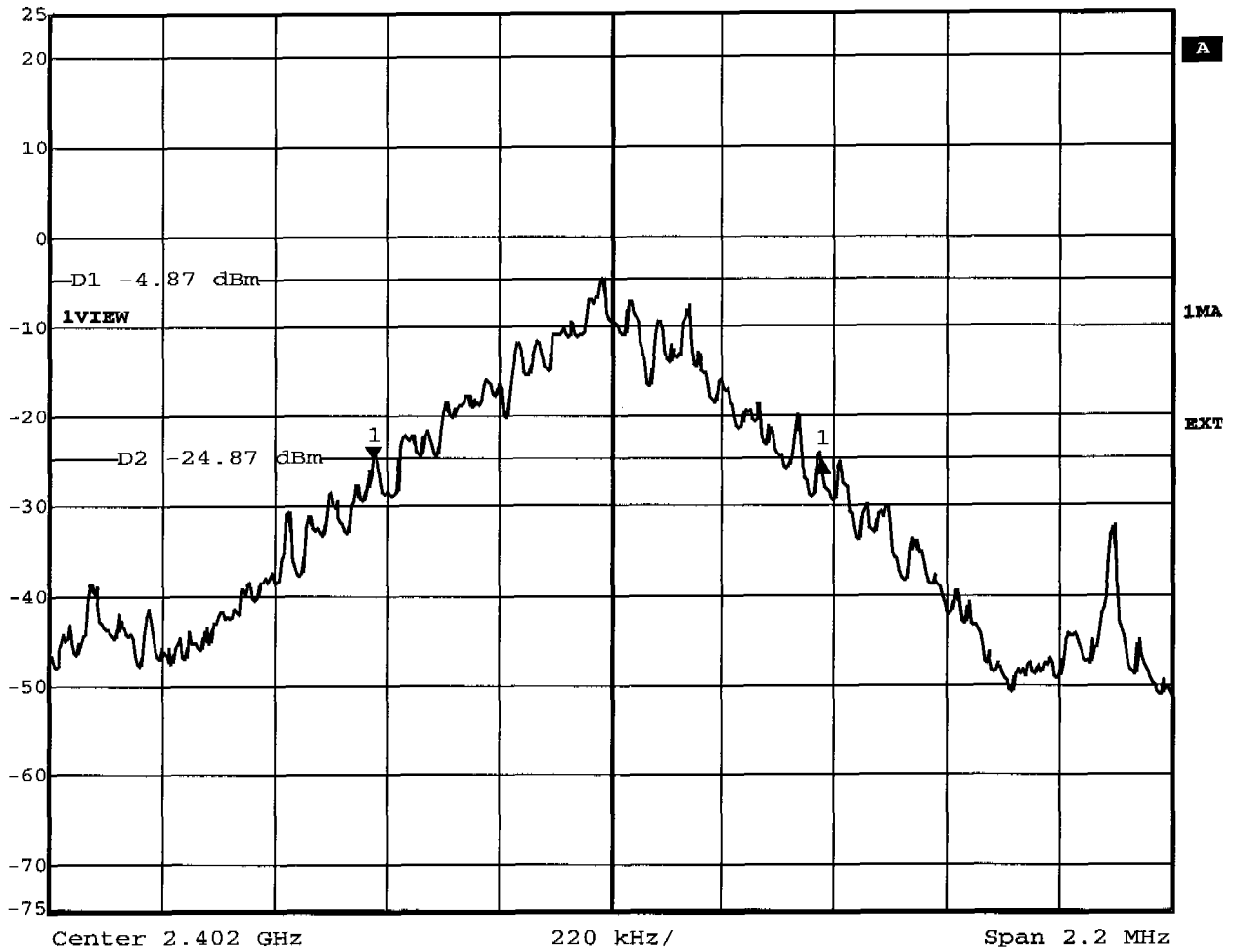
Title: Duty Cycle  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 09:13:23

## Appendix H

20dB Bandwidth



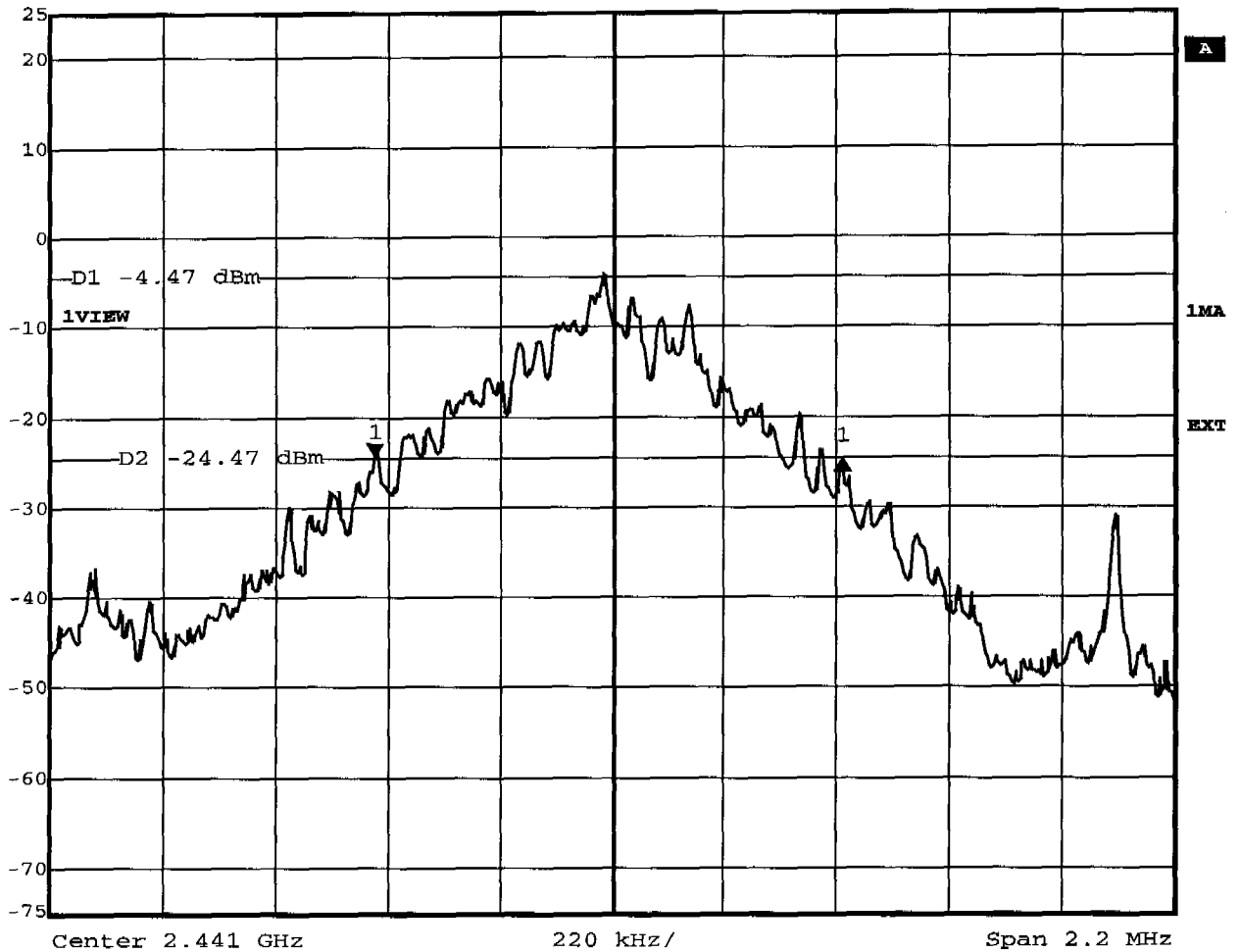
|              |                  |        |        |          |
|--------------|------------------|--------|--------|----------|
| Delta 1 [T1] | RBW              | 10 kHz | RF Att | 50 dB    |
| Ref Lvl      | -0.47 dB         | VBW    | 10 kHz |          |
| 25 dBm       | 881.76352705 kHz | SWT    | 56 ms  | Unit dBm |



Title: -20dB Bandwidth Ch.: 0  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 08:57:00



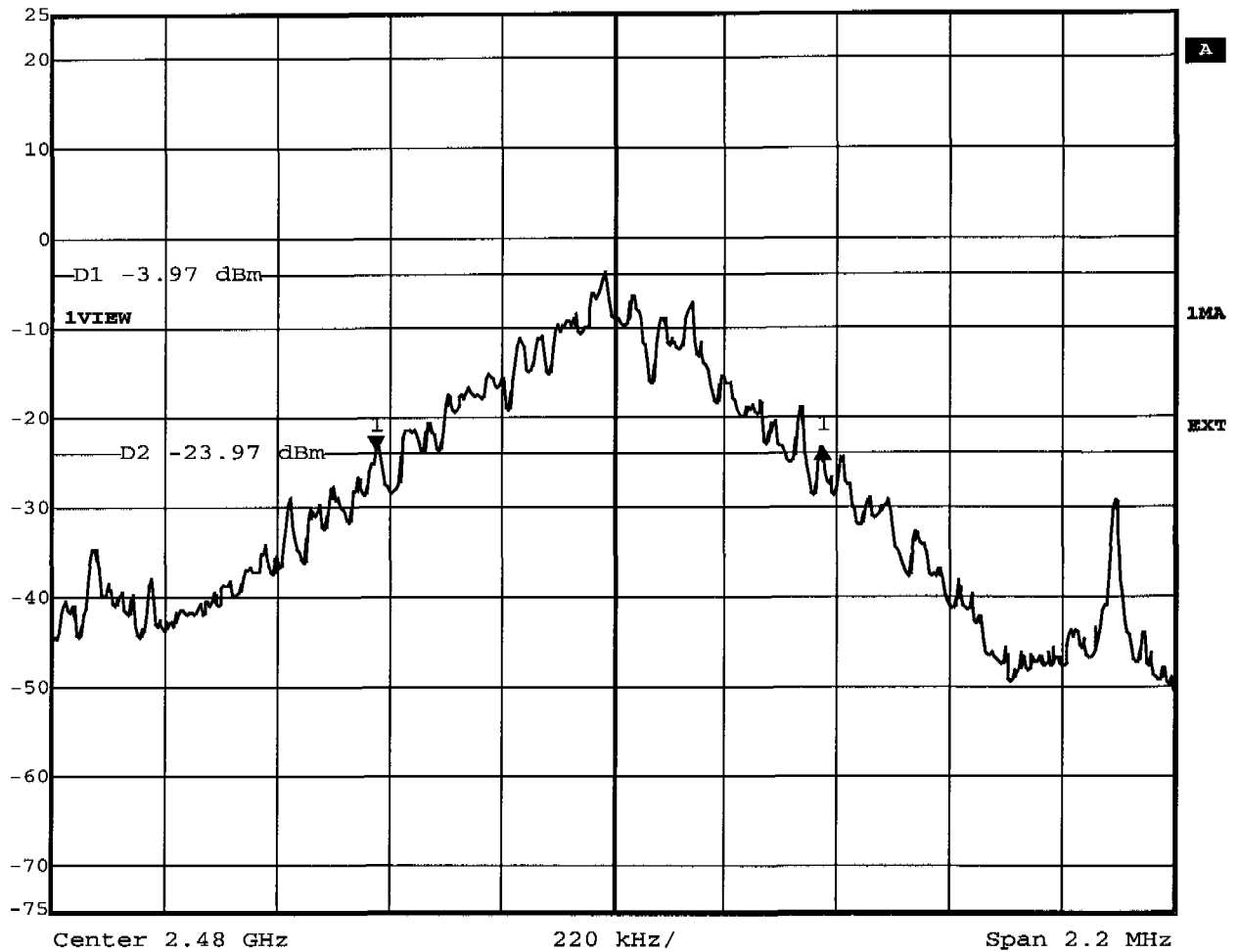
|         |                  |     |        |        |       |
|---------|------------------|-----|--------|--------|-------|
| Ref Lvl | Delta 1 [T1]     | RBW | 10 kHz | RF Att | 50 dB |
| 25 dBm  | -0.68 dB         | VBW | 10 kHz |        |       |
|         | 917.03406814 kHz | SWT | 56 ms  | Unit   | dBm   |



Title: -20dB Bandwidth Ch.: 39  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 08:58:55



|         |                  |     |        |        |       |
|---------|------------------|-----|--------|--------|-------|
| Ref Lvl | Delta 1 [T1]     | RBW | 10 kHz | RF Att | 50 dB |
| 25 dBm  | 0.13 dB          | VBW | 10 kHz |        |       |
|         | 877.35470942 kHz | SWT | 56 ms  | Unit   | dBm   |



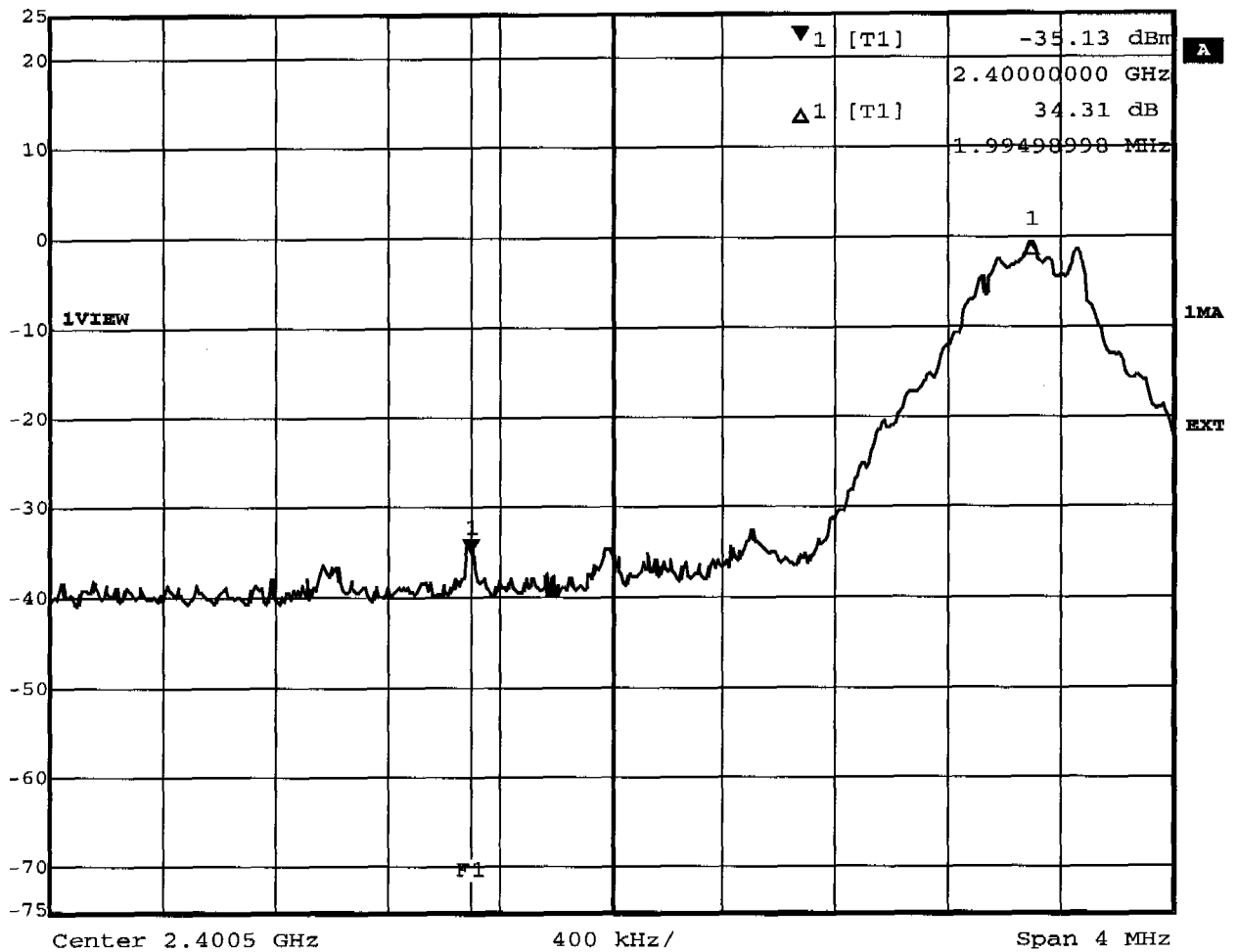
Title: -20dB Bandwidth Ch.: 78  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 09:03:14

## Appendix I

### Band-edge Compliance of RF Emissions



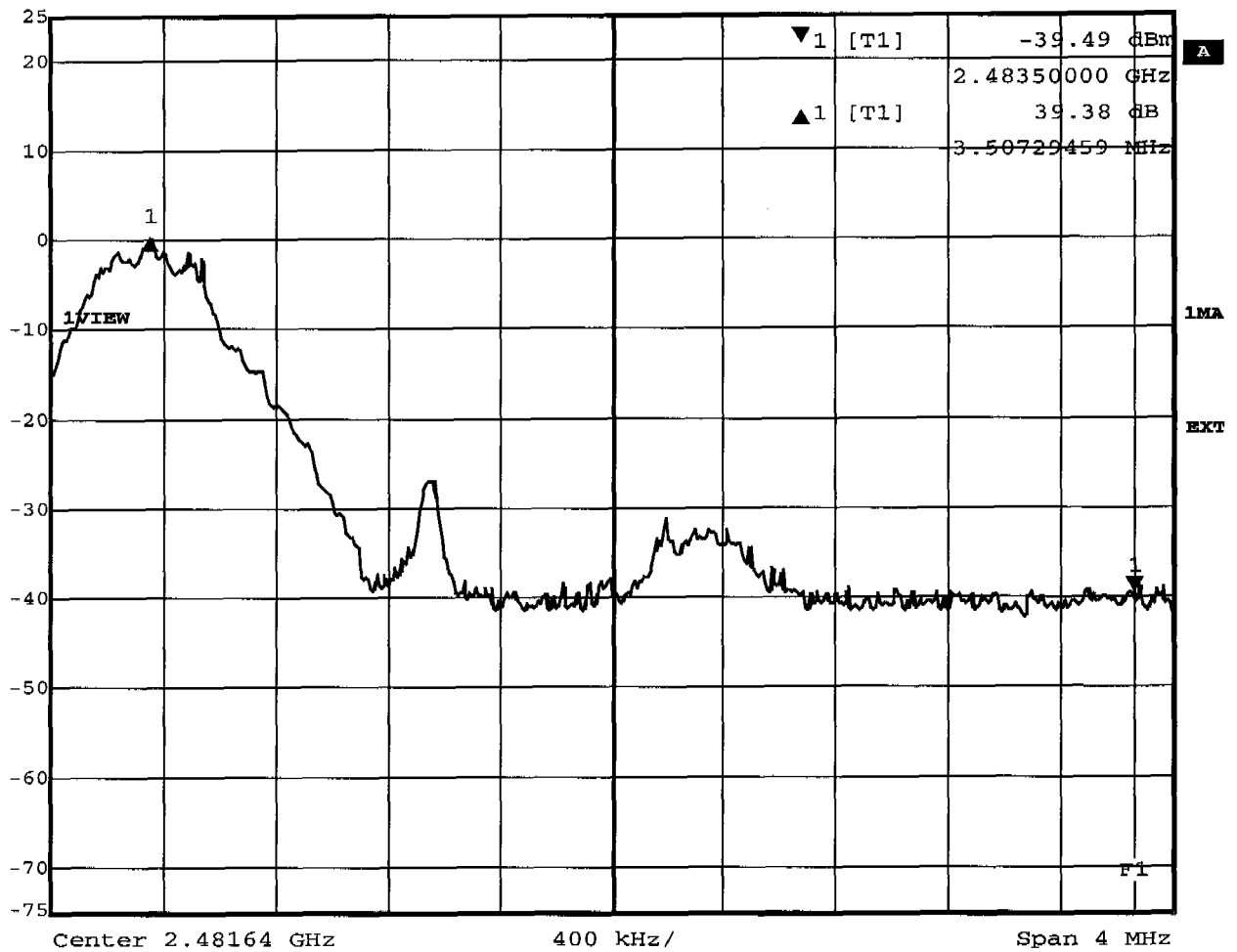
Marker 1 [T1] RBW 50 kHz RF Att 50 dB  
Ref Lvl -35.13 dBm VBW 50 kHz  
25 dBm 2.40000000 GHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 09:08:06



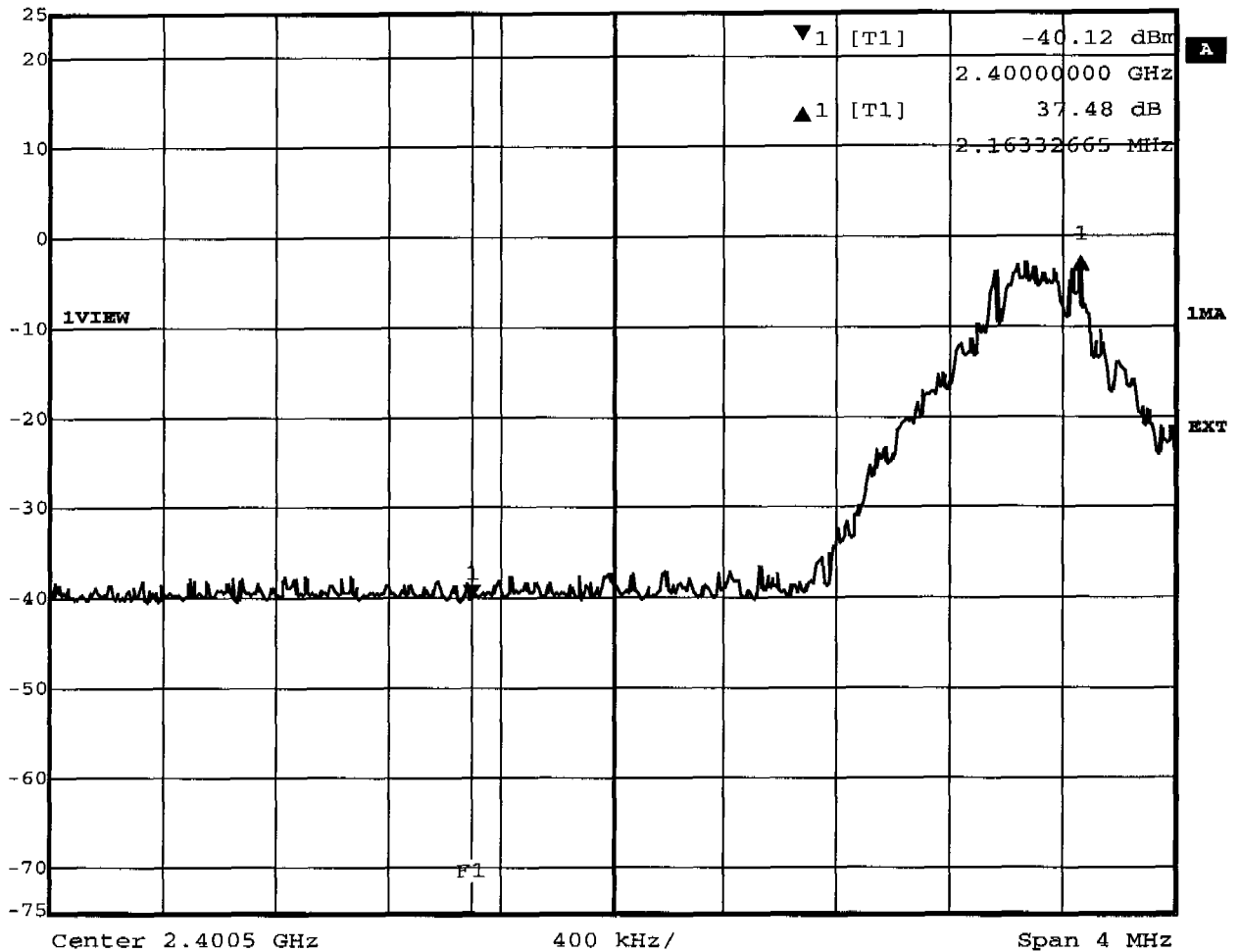
Delta 1 [T1] RBW 50 kHz RF Att 50 dB  
Ref Lvl 39.38 dB VBW 50 kHz  
25 dBm -3.50729459 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 09:09:42



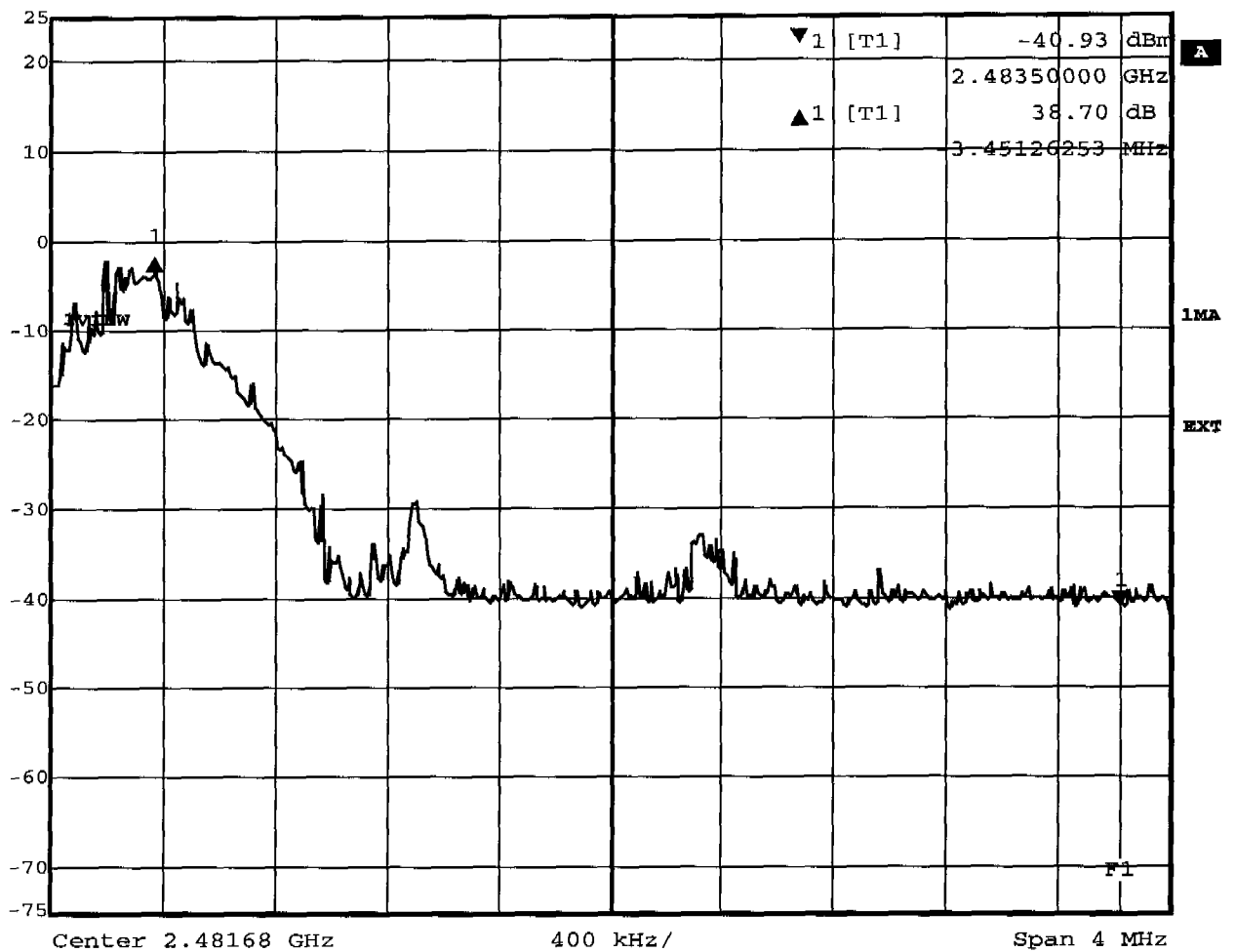
Delta 1 [T1] RBW 50 kHz RF Att 50 dB  
Ref Lvl 37.48 dB VBW 50 kHz  
25 dBm 2.16332665 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, hopping mode)  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 09:59:05



Delta 1 [T1] RBW 50 kHz RF Att 50 dB  
Ref Lvl 38.70 dB VBW 50 kHz  
25 dBm -3.45126253 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, hopping mode)  
Comment A: Nonin Medical Inc. Pulse oximeter 4100  
Date: 12.AUG.2003 10:02:57

## Appendix J

Conducted Measurement at (AC) Power Line