FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

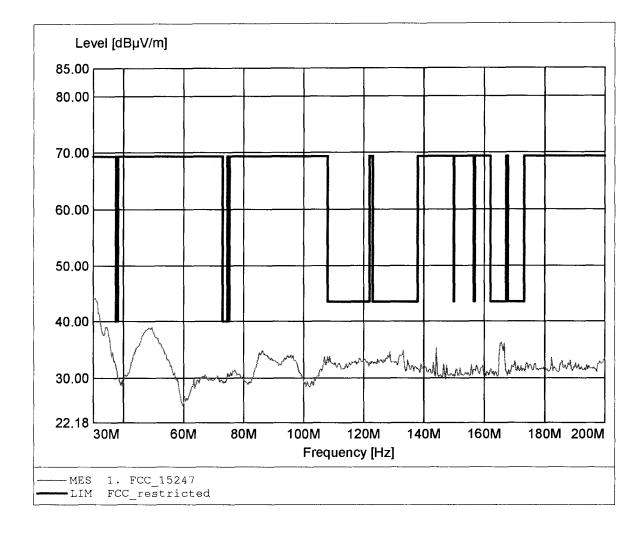
EUT / Model: Ch.: Medical device / 2441

Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247 Comment 1: Dist.: 3m, Ant.: HK 116

Dist.: 3m, Ant.: нк 110 Freq: 30.000MHz, Emax: 44.24dBµV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

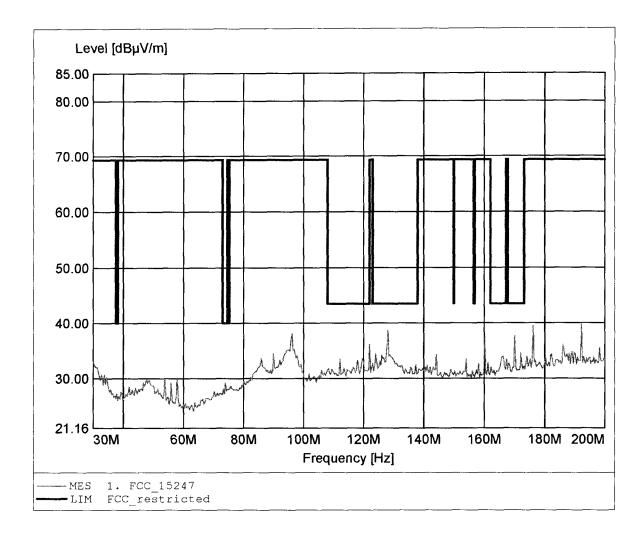
Ch.: EUT / Medical device / 2441

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247 Dist.: 3m, Ant.: HK 116 Comment 1:

Freq: 192.164MHz, Emax: 39.72dBpV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

Approval Holder:

MIR Medical International Research Ch.: Medical device / 2441

EUT / Model:

Spirolab III

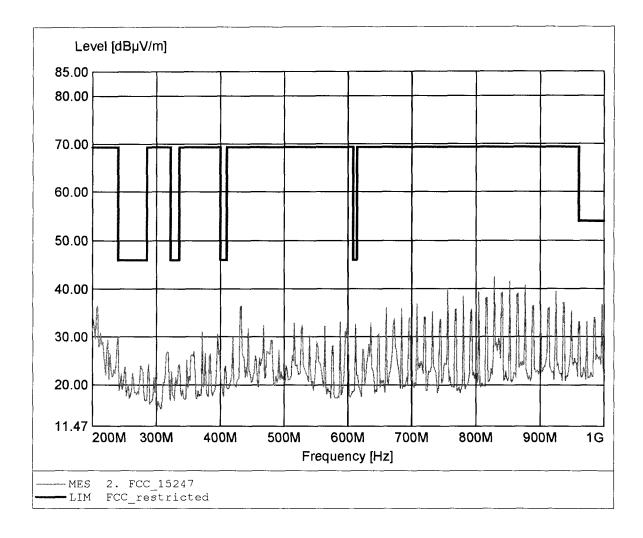
Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247

Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Comment 2: Freq: 828.457MHz, Emax: 42.39dBµV/m, RBW: 100kHz



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

Ch.: EUT / Medical device / 2441

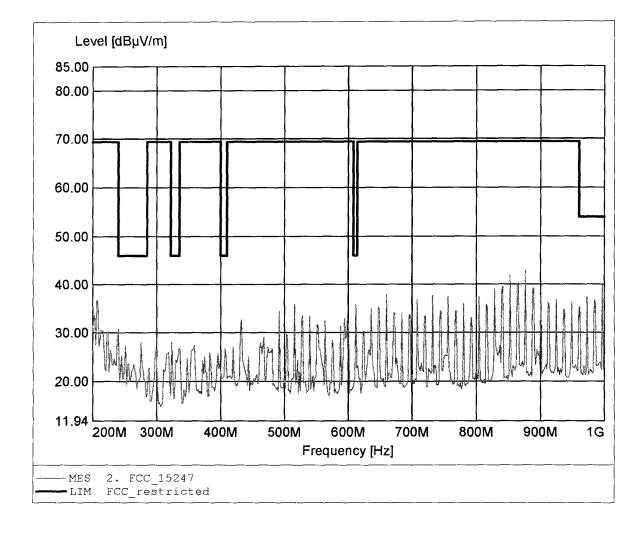
Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247

Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Comment 2: Freq: 876.553MHz, Emax: 42.95dBµV/m, RBW: 100kHz



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

Ch.: EUT / Medical device / 2441

Model: Spirolab III

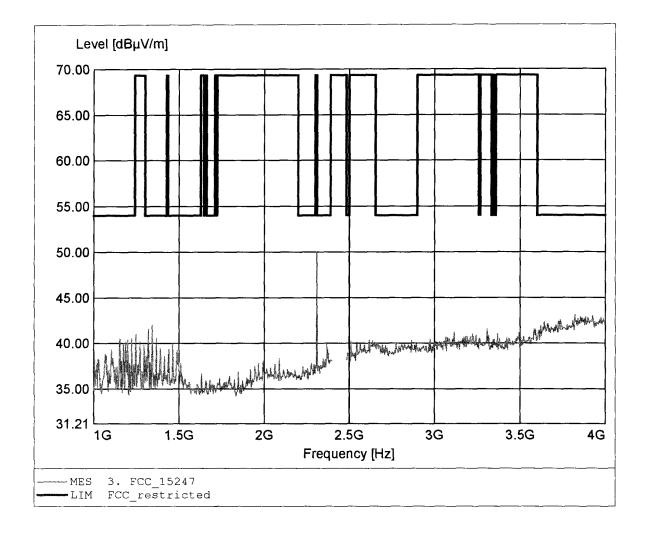
Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247, peak detector

Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.

Comment 2: Freq: 2.310GHz, Emax: 50.10dBµV/m, RBW: 1MHz



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

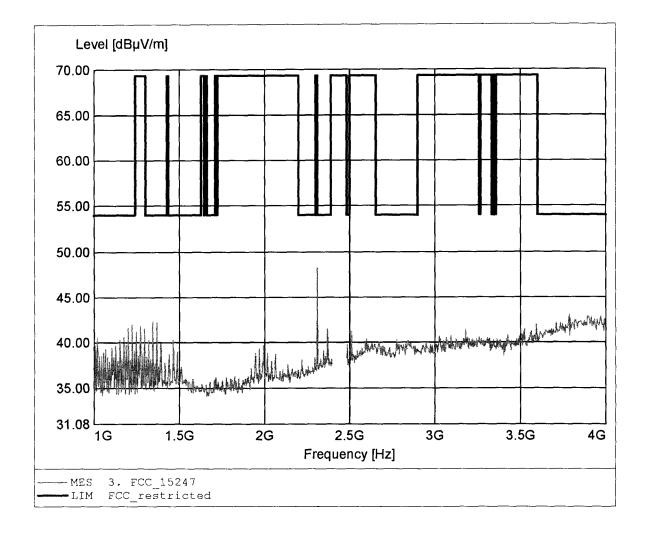
Medical device / 2441 EUT / Ch.:

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector

Test Specification: Comment 1:

Dist.: 3m, Ant.: BBHA9120D, amplif. Freq: 2.310GHz, Emax: 48.26dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

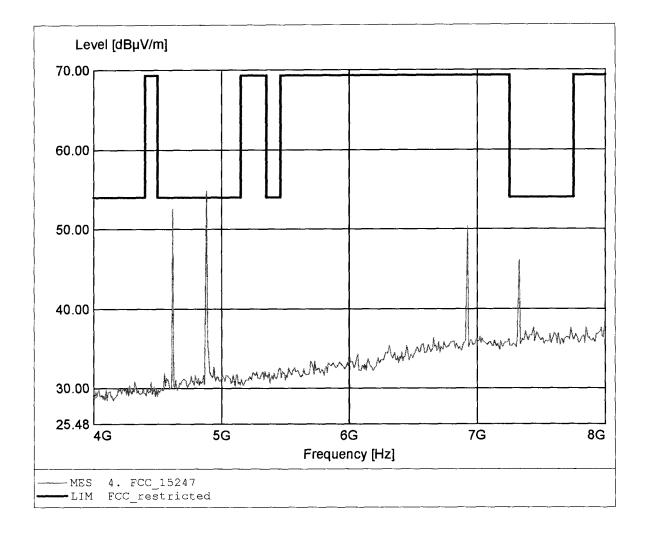
EUT / Medical device / 2441 Ch.:

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Test Specification:

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.882GHz, Emax: 54.84dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

Approval Holder:

EUT /

MIR Medical International Research

Medical device / 2441 Ch.:

Model:

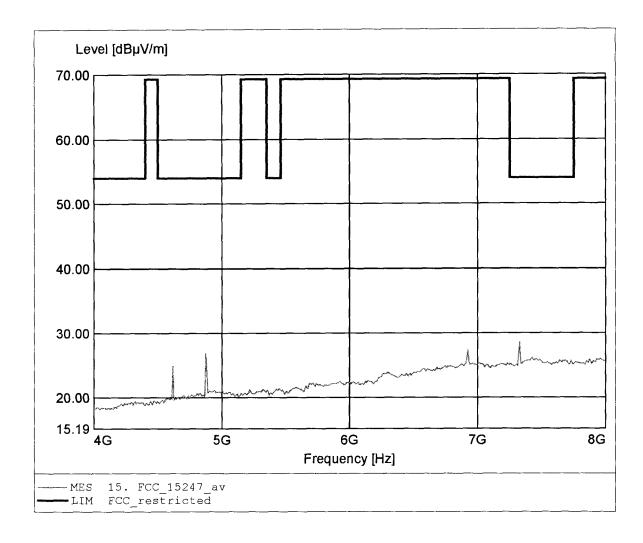
Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, average detector

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 7.327GHz, Emax: 28.61dBµV/m, RBW: 1MHz

Comment 2:



FCC RULES PART 15, SUBPART C

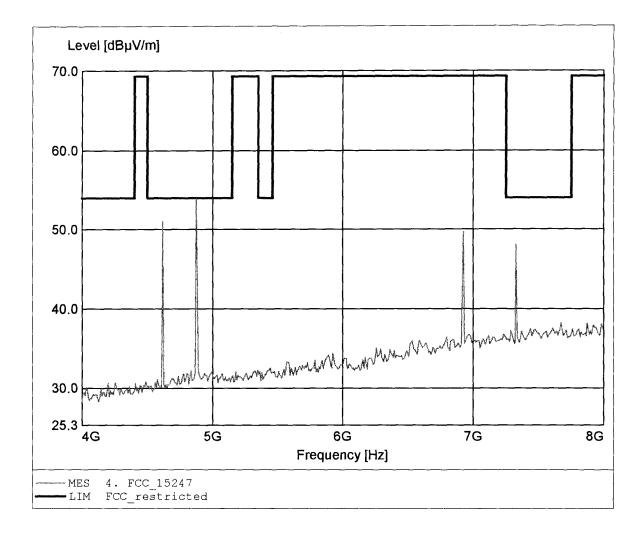
MIR Medical International Research Approval Holder:

EUT / Ch.: Medical device / 2441

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.874GHz, Emax: 54.03dBpV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

Ch.: Medical device / 2441 EUT /

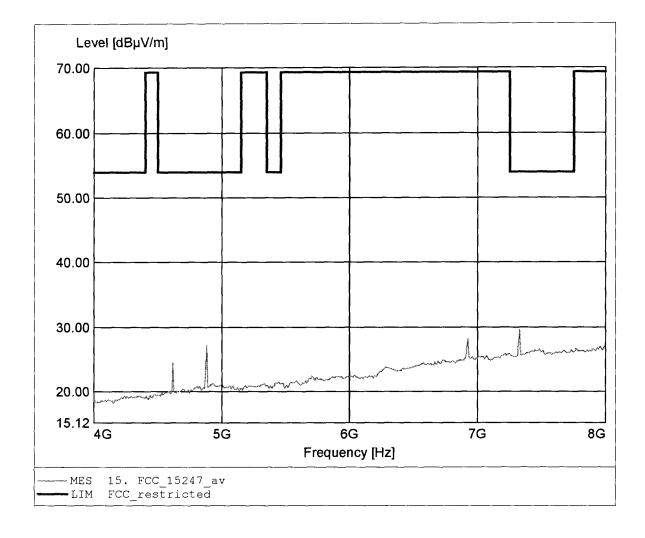
Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247, average detector Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 7.327GHz, Emax: 29.62dBµV/m, RBW: 1MHz Comment 1:

Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

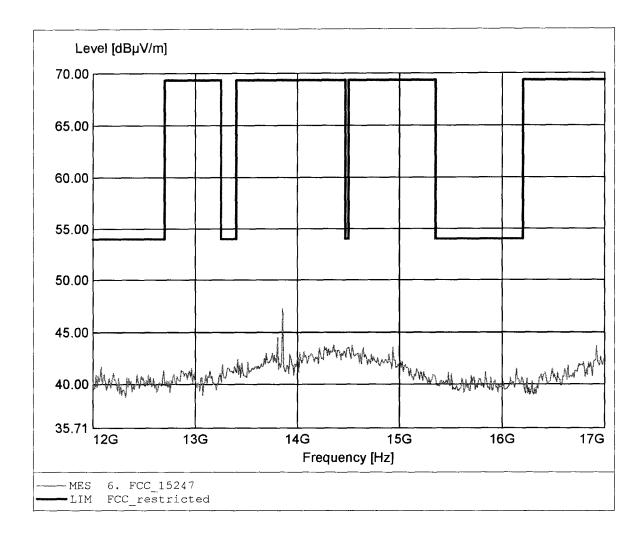
EUT / Medical device / 2441 Ch.:

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector

Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Comment 2:



FCC RULES PART 15, SUBPART C

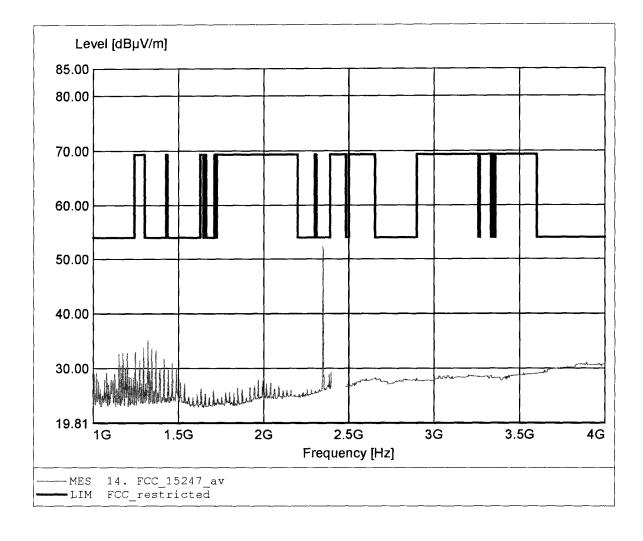
MIR Medical International Research Approval Holder:

Medical device / 2480 EUT / Ch.:

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, average detector Test Specification: Comment 1:

Dist.: 3m, Ant.: BBHA9120D, amplif. Freq: 2.349GHz, Emax: 52.35dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

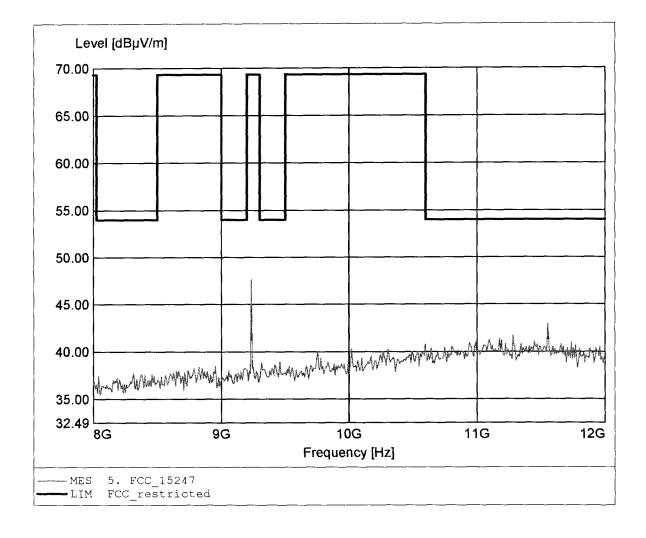
Ch.: EUT / Medical device / 2441

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 9.234GHz, Emax: 47.63dBµV/m, RBW: 1MHz Comment 1:

Comment 2:



FCC RULES PART 15, SUBPART C

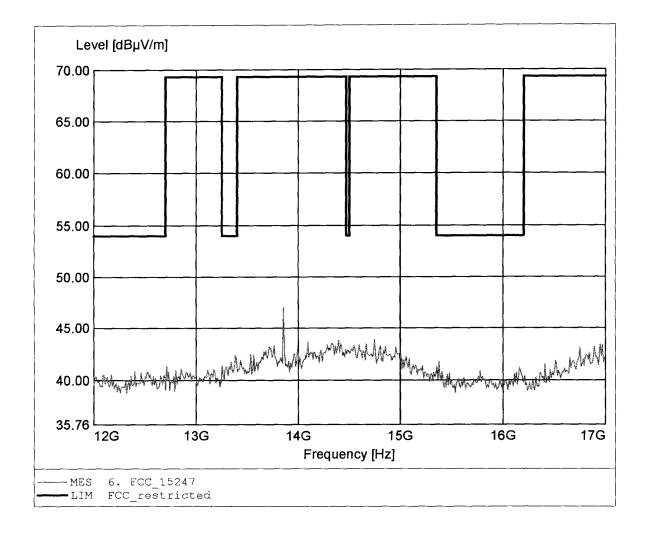
MIR Medical International Research Approval Holder:

Medical device / 2441 EUT / Ch.:

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 13.854GHz, Emax: 46.99dBuV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

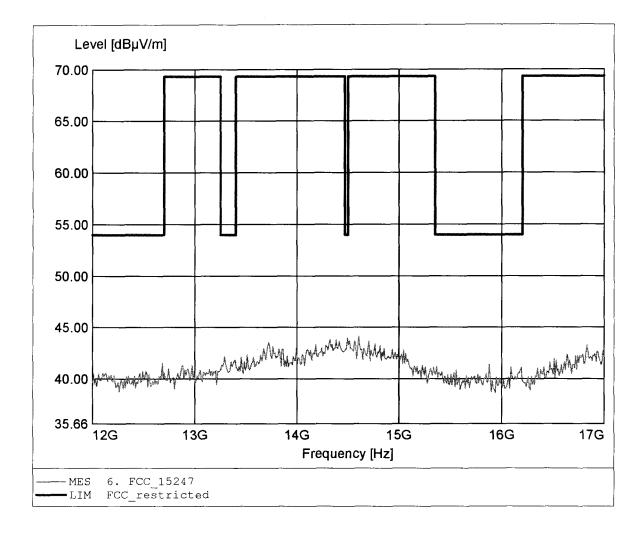
MIR Medical International Research Approval Holder:

EUT / Medical device / 2441 Ch.:

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 14.605GHz, Emax: 44.15dBuV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

Ch.: Medical device / 2441 EUT /

Spirolab III Model:

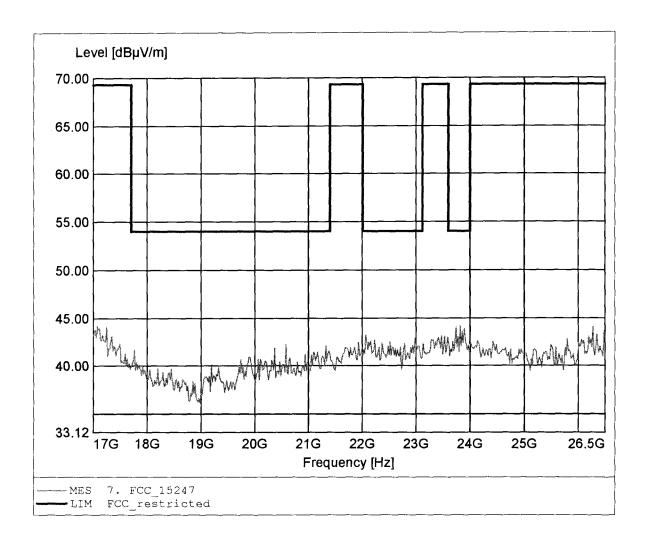
Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247, peak detector

Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2: Freq: 17.076GHz, Emax: 44.19dBµV/m, RBW: 1MHz



FCC RULES PART 15, SUBPART C

MIR Medical International Research

Approval Holder: Medical device / 2441 EUT / Ch.:

Model: Spirolab III

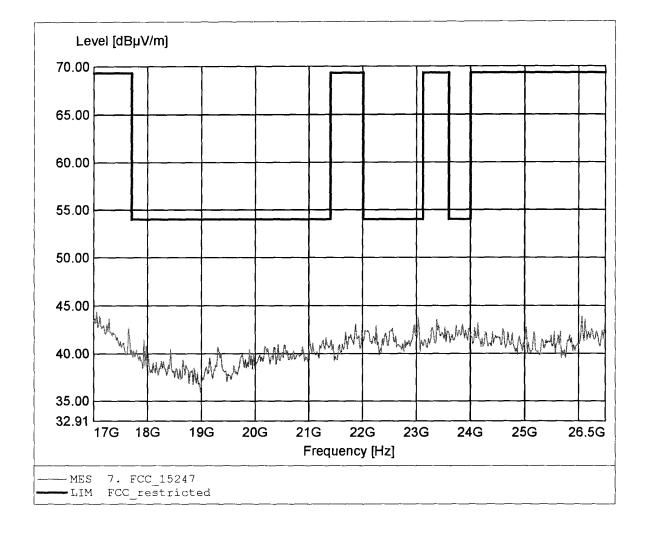
Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247, peak detector

Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2: Freq: 17.057GHz, Emax: 44.38dBµV/m, RBW: 1MHz



FCC RULES PART 15, SUBPART C

Approval Holder: MIR Medical International Research

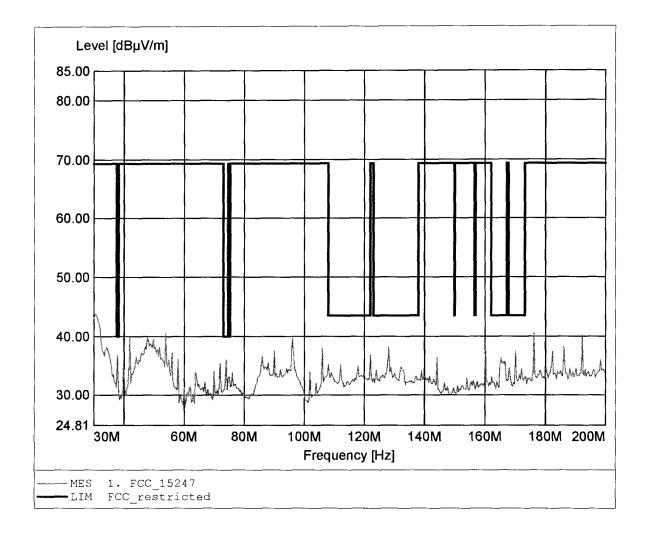
EUT / Medical device / 2480 Ch.:

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HK 116

Dist.: 3m, Ant.: нк 110 Freq: 30.681MHz, Emax: 43.79dBµV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

EUT / Ch.: Medical device / 2480

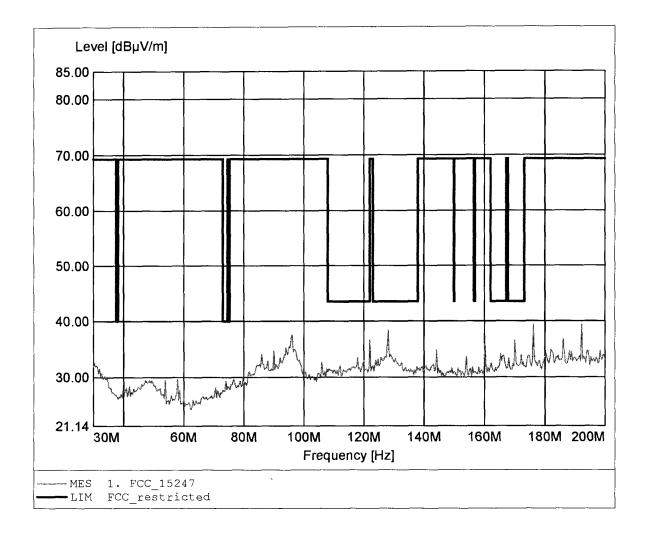
Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247

Dist.: 3m, Ant.: HK 116 Comment 1:

Dist.: 3m, Ant.: HK 110
Freq: 192.164MHz, Emax: 39.39dBµV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

EUT / Ch.: Medical device / 2480

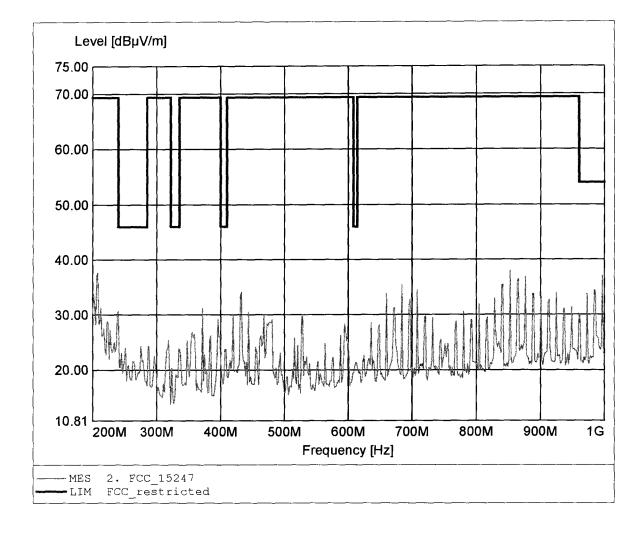
Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247

Comment 1:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 852.505MHz, Emax: 37.95dBµV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

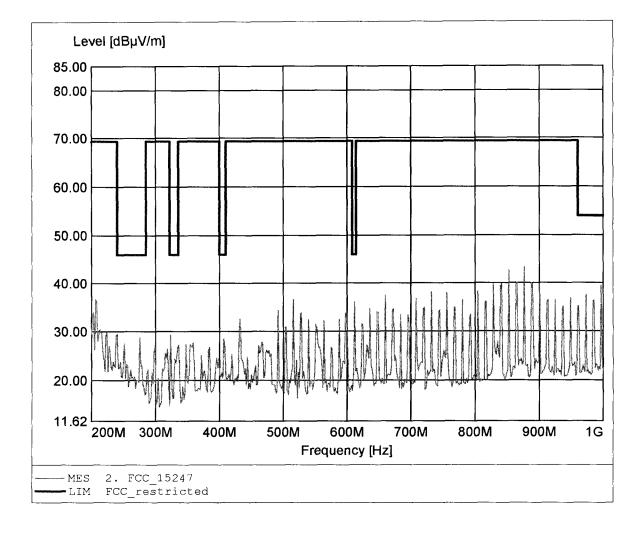
Ch.: EUT / Medical device / 2480

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Comment 1:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 876.553MHz, Emax: 43.36dBpV/m, RBW: 100kHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

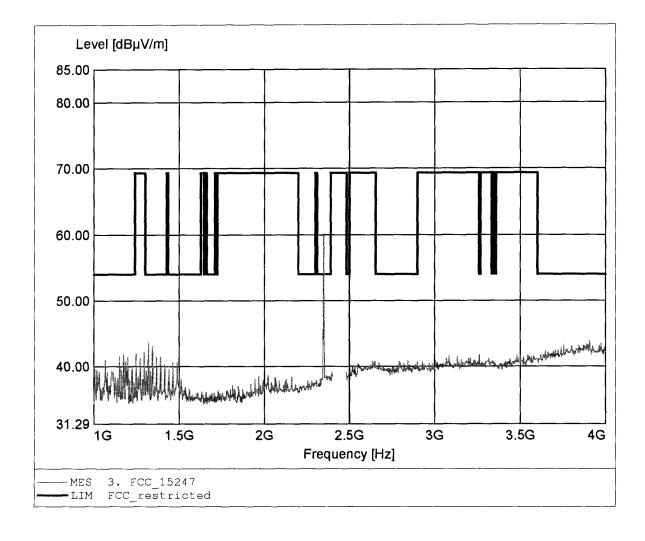
EUT / Ch.: Medical device / 2480

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector

Dist.: 3m, Ant.: BBHA9120D, amplif. Comment 1:

Freq: 2.349GHz, Emax: 60.14dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

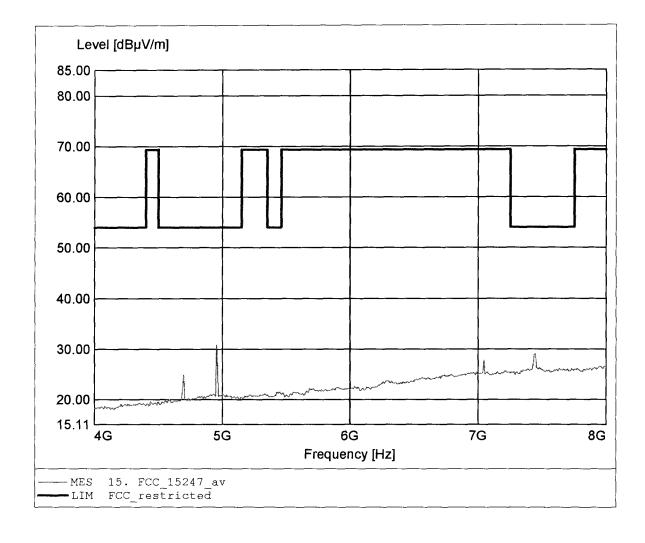
MIR Medical International Research Approval Holder:

Medical device / 2480 EUT / Ch.:

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, average detector Test Specification: Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.954GHz, Emax: 30.90dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

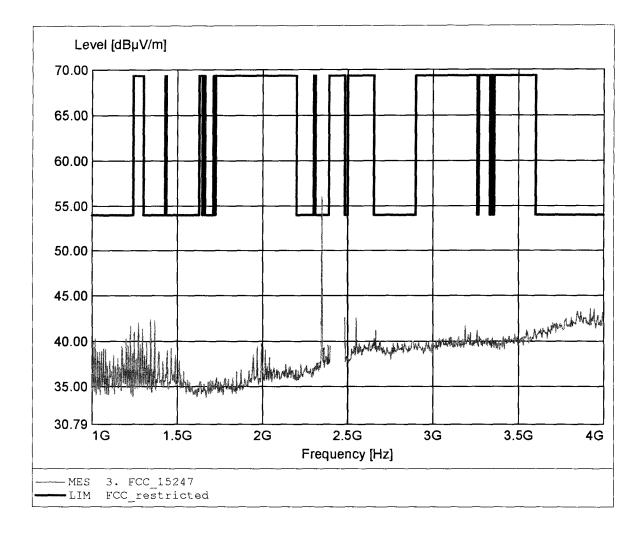
MIR Medical International Research Approval Holder:

Ch.: Medical device / 2480

EUT / Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Test Condition:
Test Specification:
Comment 1:
Comment 2:

according to \$15.24/, peak decection
Dist.: 3m, Ant.: BBHA9120D, amplif.
Freq: 2.349GHz, Emax: 56.02dBµV/m, RBW: 1MHz



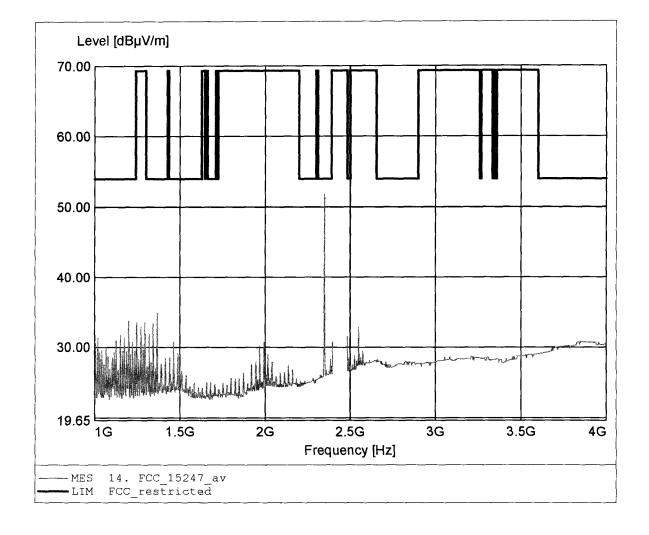
FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

Medical device / 2480 EUT /

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, average detector Test Condition:
Test Specification: according to \$15.24/, average decellar
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Freq: 2.349GHz, Emax: 51.78dBµV/m, RBW: 1MHz



FCC RULES PART 15, SUBPART C

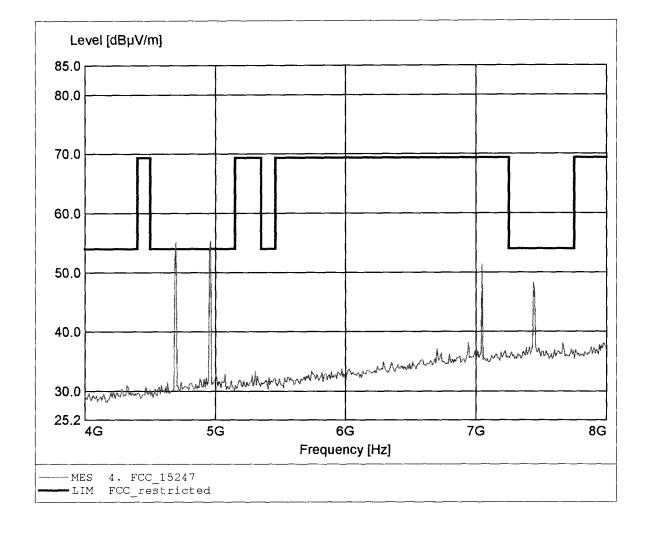
MIR Medical International Research Approval Holder:

EUT / Ch.: Medical device / 2480

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 4.962GHz, Emax: 55.26dBuV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

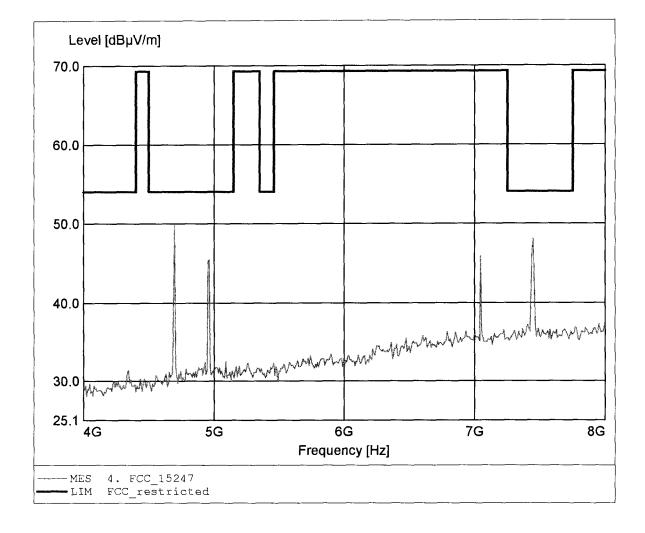
Approval Holder: MIR Medical International Research

EUT / Medical device / 2480 Ch.:

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 4.697GHz, Emax: 49.79dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

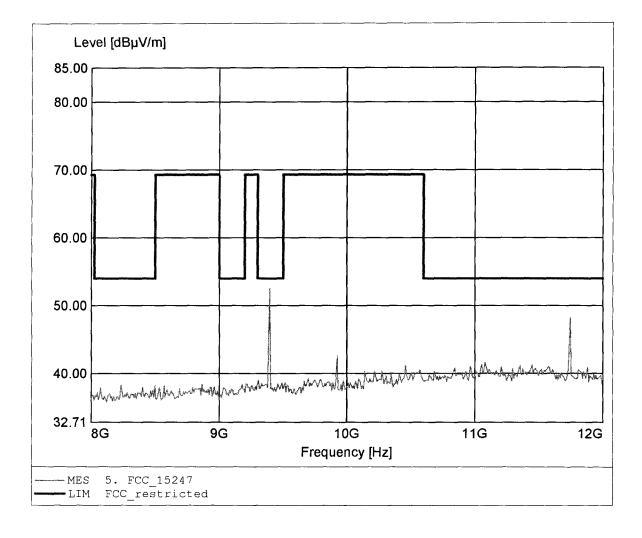
MIR Medical International Research Approval Holder:

EUT / Medical device / 2480 Ch.:

Model: Spirolab III

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 9.395GHz, Emax: 52.51dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

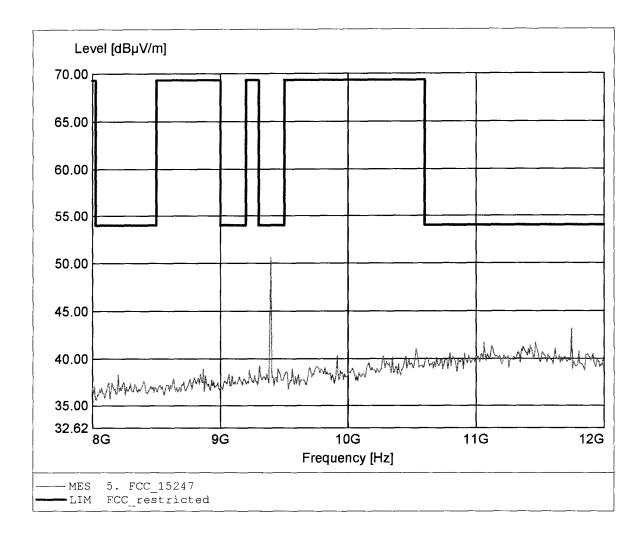
MIR Medical International Research Approval Holder:

Medical device / 2480 EUT / Ch.:

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 9.395GHz, Emax: 50.58dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

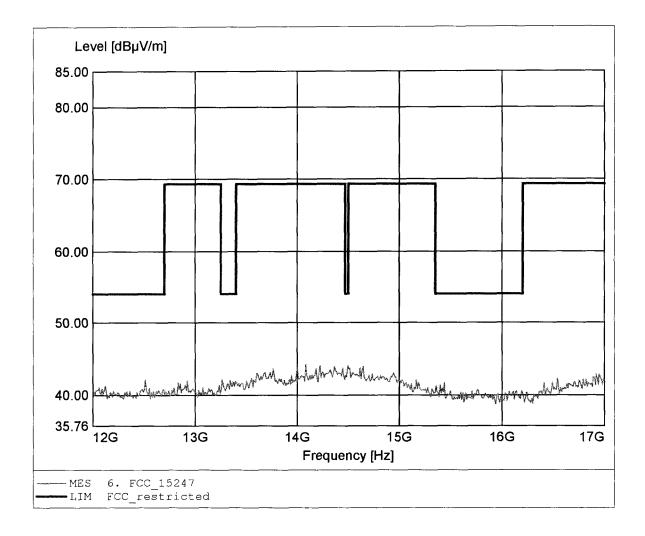
MIR Medical International Research Approval Holder:

EUT / Ch.: Medical device / 2480

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 14.084GHz, Emax: 44.20dBµV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

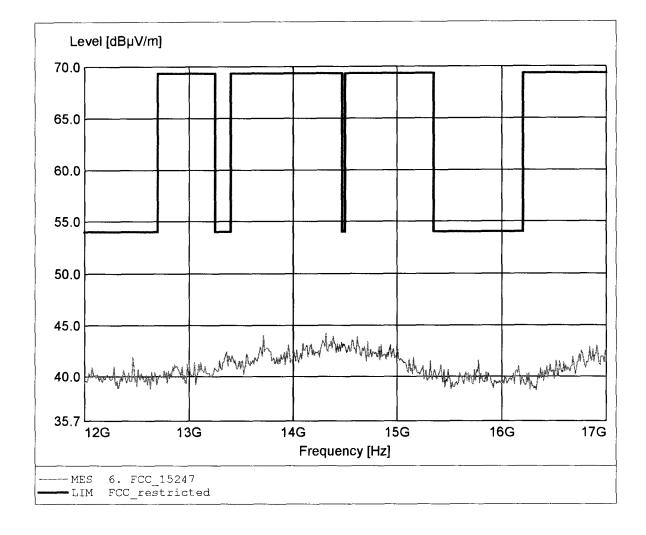
MIR Medical International Research Approval Holder:

Medical device / 2480 EUT / Ch.:

Spirolab III Model:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Comment 1: Dist.: 3m, Ant.: βΒΠΑΣΙΣΟΒ, απορίτου. Freq: 14.315GHz, Emax: 44.24dBμV/m, RBW: 1MHz Comment 2:



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

EUT / Medical device / 2480 Ch.:

Model: Spirolab III

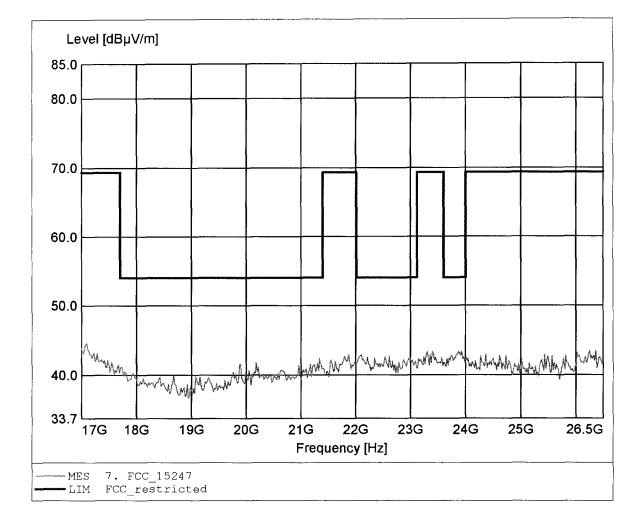
Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)

Test Specification: according to \$15.247, peak detector

Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2: Freq: 17.095GHz, Emax: 44.55dBµV/m, RBW: 1MHz



FCC RULES PART 15, SUBPART C

MIR Medical International Research Approval Holder:

Ch.: EUT / Medical device / 2480

Spirolab III Model:

33.47

--- MES

17G

18G

7. FCC_15247

-LIM FCC restricted

19G

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom: 120 V AC (AC/DC-adapter)
Test Specification: according to \$15.247, peak detector

Test Condition:
Test Specification:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: HL025, amplif.
Freq: 17.019GHz, Emax: 45.59dBµV/m, RBW: 1MHz

Level [dBµV/m] 70.00 p 65.00 60.00 55.00 50.00 45.00 40.00

20G

21G

22G

Frequency [Hz]

23G

24G

25G

26.5G



Appendix J

Band-edge compliance



FCC part 15.247

Band-edge compliance of RF conducted emissions

EUT

Medical device

Model

Spirolab III

Approval Holder

MIR Medical International Research

Temperature / Voltage

25°C

Test Site / Operator Test Specification

ETS Dr. Genz GmbH FCC part 15 section 247(c)

Test Case

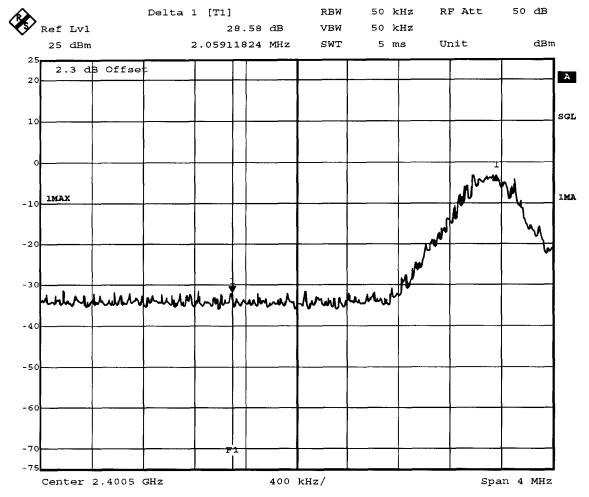
Band-edge compliance

Comment 1

Channel.: 0 / 2402 MHz

Single frequency mode





Date:

28.APR.2006 11:52:11



FCC part 15.247 Band-edge compliance of RF conducted emissions

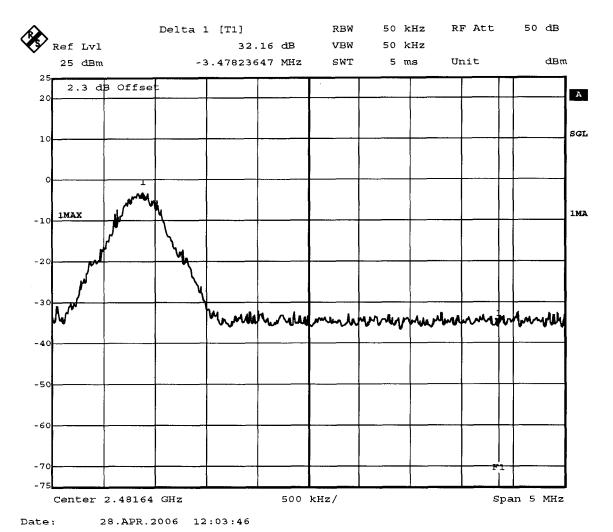
EUT Medical device Model Spirolab III

Approval Holder MIR Medical International Research

Temperature / Voltage 25°C

Test Site / Operator
Test Specification
Test Case
Comment 1
Comment 2

ETS Dr. Genz GmbH
FCC part 15 section 247(c)
Band-edge compliance
Channel.: 78 / 2480 MHz
Single frequency mode





FCC part 15.247

Band-edge compliance of RF conducted emissions

EUT

Medical device

Model

Spirolab III

Approval Holder

MIR Medical International Research

Temperature / Voltage

25°C

Test Site / Operator

ETS Dr. Genz GmbH

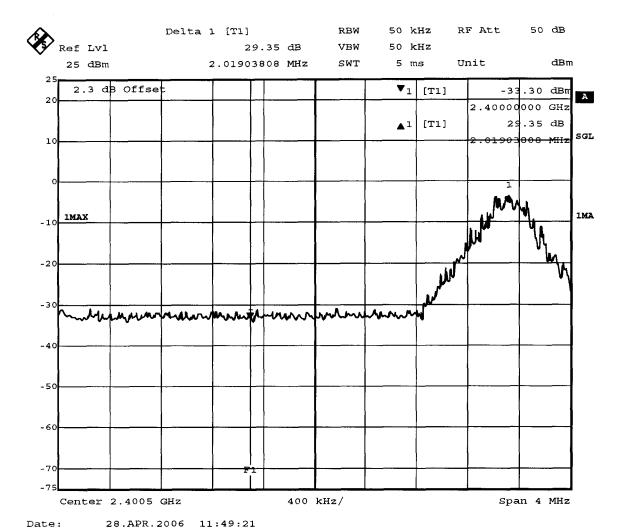
Test Specification Test Case FCC part 15 section 247(c) Band-edge compliance

Comment 1

Channel.: 0 / 2402 MHz

Comment 2

Hopping mode





FCC part 15.247 Band-edge compliance of RF conducted emissions

EUT Medical device Model Spirolab III

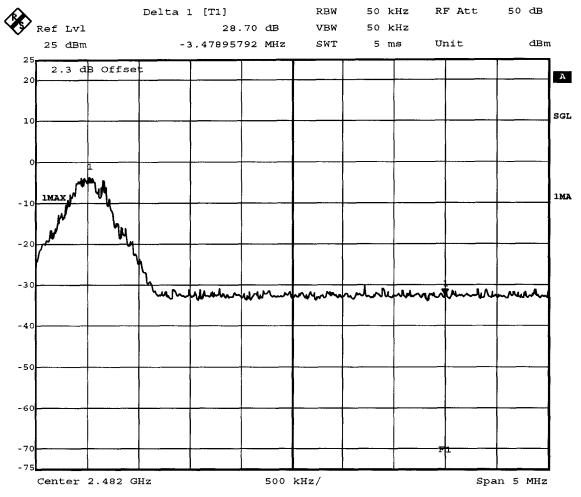
Approval Holder MIR Medical International Research

Temperature / Voltage 25°C

Test Site / Operator
Test Specification
Test Case
Comment 1

ETS Dr. Genz GmbH
FCC part 15 section 247(c)
Band-edge compliance
Channel.: 78 / 2480 MHz

Comment 2 Hopping mode



Date:

28.APR.2006 12:01:03



Appendix K

AC power line conducted emissions

EMI voltage test in the ac-mains according to FCC part 15

EUT:

Medical device

Manufacturer:

MIR Medical International Research

Operating Condition: Unom: 120 VAC (AC/DC Adaptor), Tnom: 23°C

Test Site:

ETS

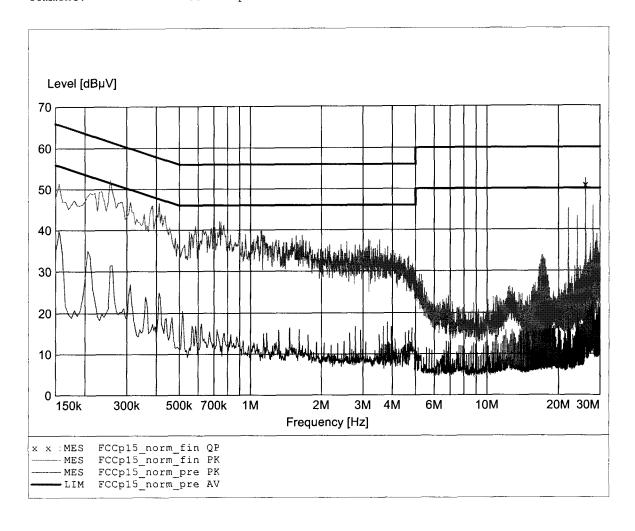
Operator:

Mr. Pflug

Test Specification: V-Network: ESH3-Z5 (L1)

Comment:

model: Spirolab III mode: Bluetooth



EMI voltage test in the ac-mains according to FCC part 15

EUT:

Medical device

Manufacturer:

MIR Medical International Research

Operating Condition: Unom: 120 VAC (AC/DC Adaptor), Tnom: 23°C

Test Site:

ETS

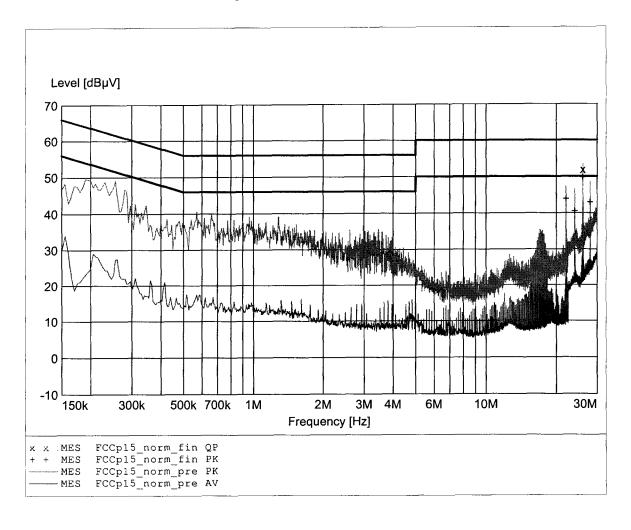
Operator:

Mr. Pflug

Test Specification: V-Network: ESH3-Z5 (N)

Comment:

model: Spirolab III mode: Bluetooth





Appendix L

Receiver radiated emissions

ETS Dr. Genz GmbH, Germany

Registration number: G0M20604-0435-P-15