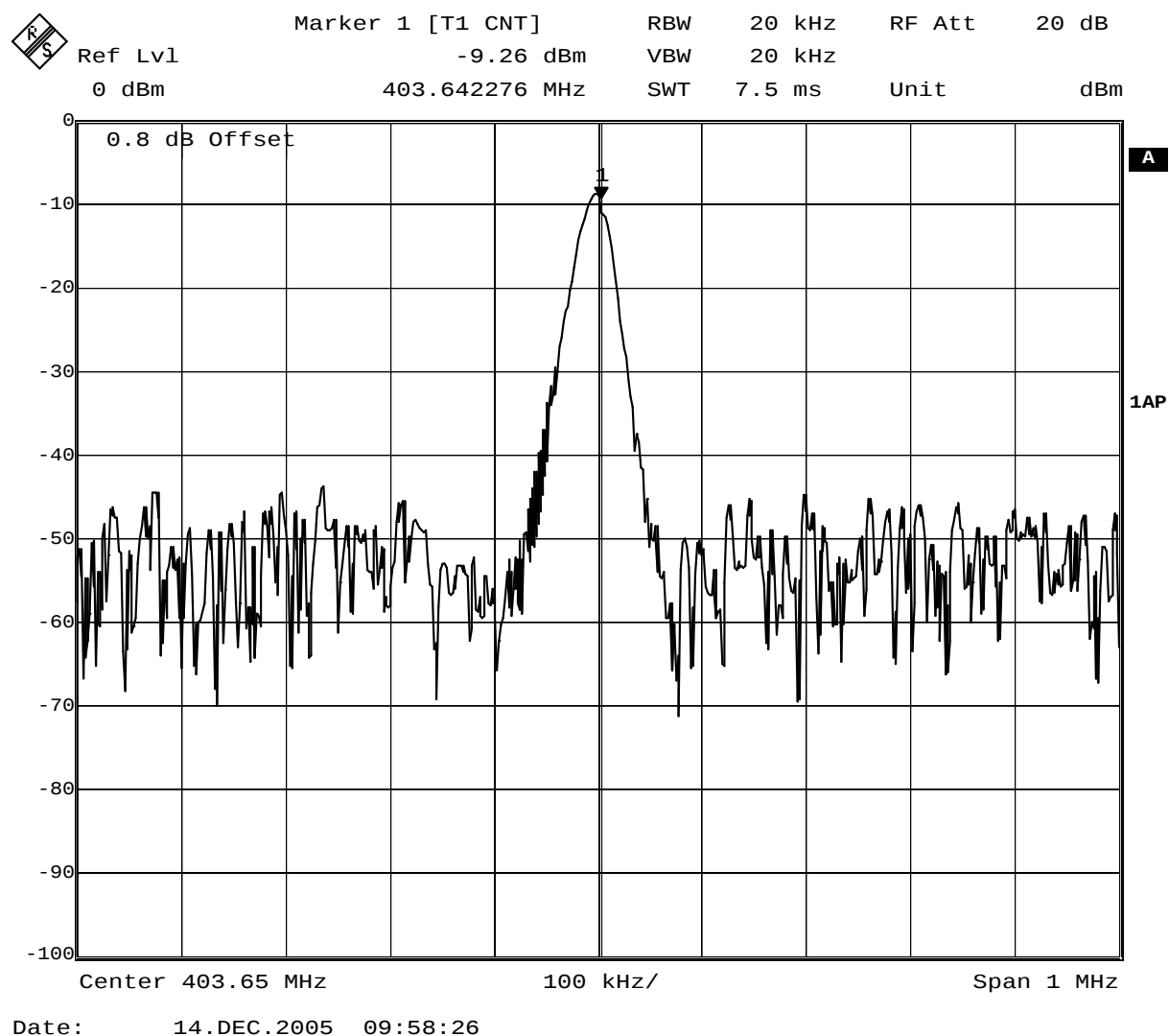


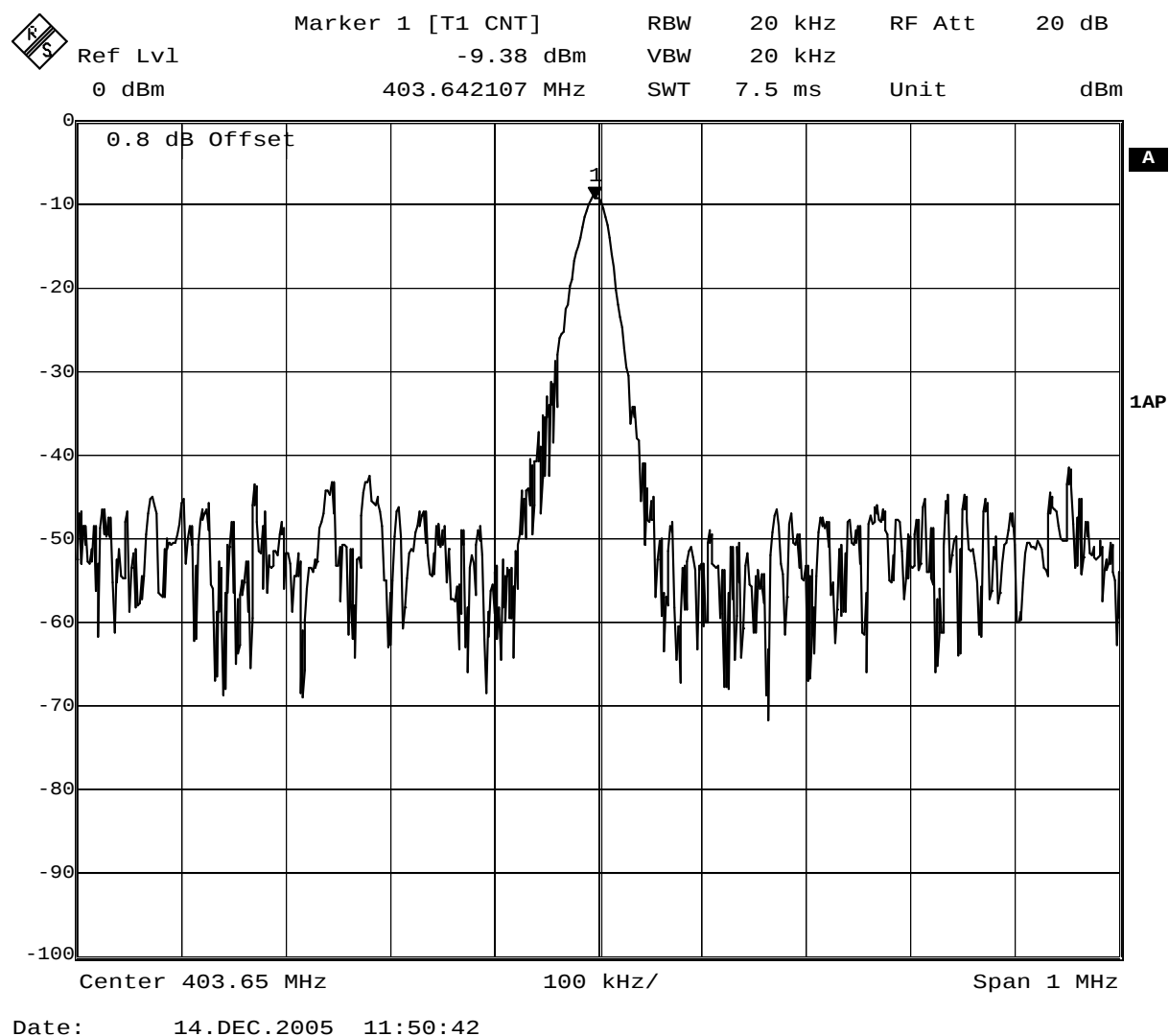
Annex

Measurement diagrams "Frequency Error"

EUT Model	Cardiomessenger II
Approval Holder	Telex III
Temperature / Voltage	Biotronik GmbH
Test Site / Operator	25°C / Unom: 3.7 V DC
Test Specification	ETS
Test Case	FCC Part 95.628 e / EN 301 839-1 8.1
Comment 1	Frequency Error (signal count function of analyzer)
Comment 2	f: 403.642276 MHz
	reference @ normal condition

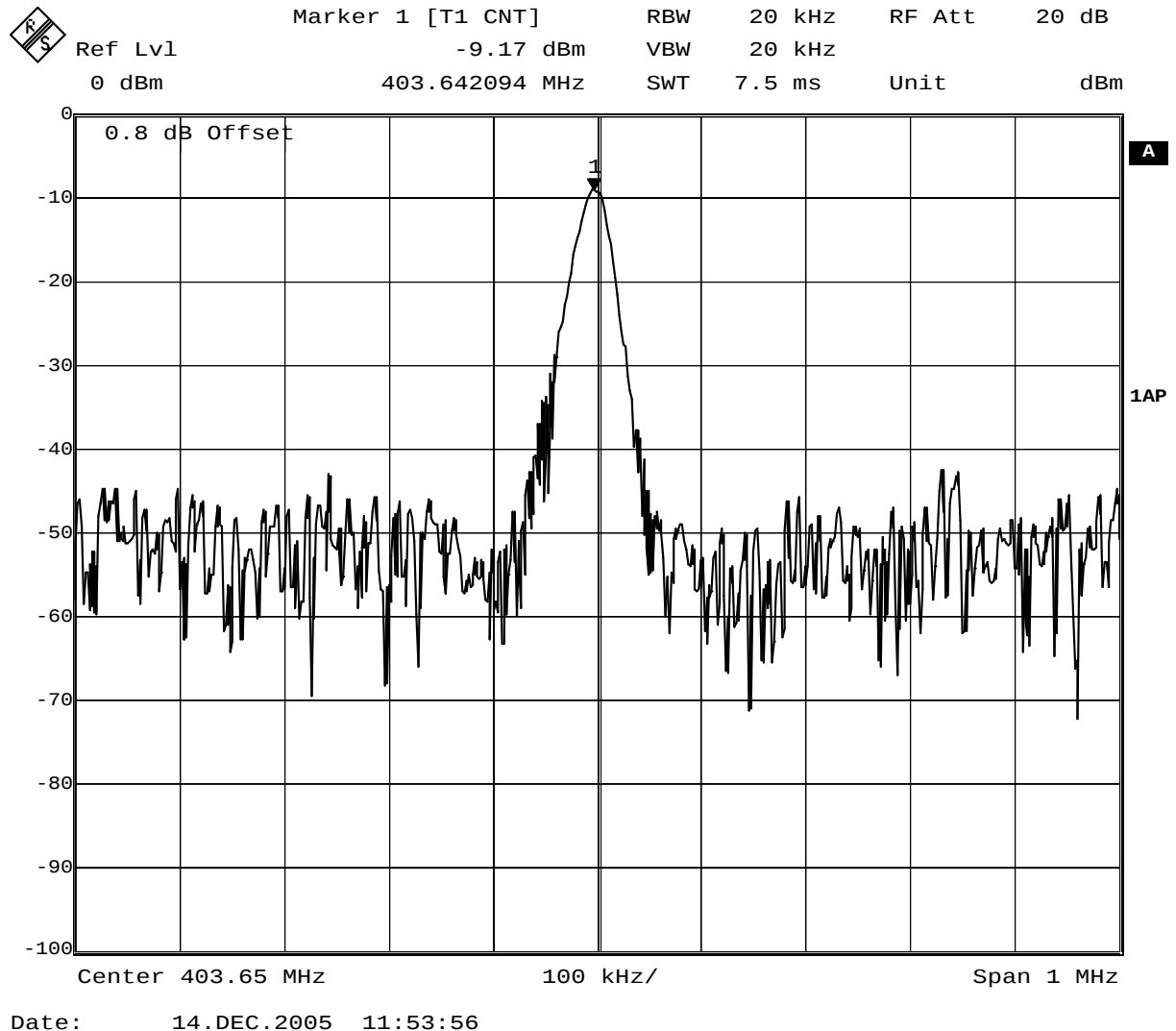


EUT Model	Cardiomessenger II
Approval Holder	Telex III
Temperature / Voltage	Biotronik GmbH
Test Site / Operator	-10°C / Umin: 3.15 V DC
Test Specification	ETS
Test Case	FCC Part 95.628 e / EN 301 839-1 8.1
Comment 1	Frequency Error (signal count function of analyzer)
Comment 2	f: 403.642107 MHz
	Limit +/-100 ppm (+/-40.36KHz)



FCC Part 95.628 (09.12.2005) / EN 301 839 v1.1.1 (2002-06)
Frequency Error

EUT	Cardiomessenger II
Model	Telex III
Approval Holder	Biotronik GmbH
Temperature / Voltage	-10°C / Umax: 3.7 V DC
Test Site / Operator	ETS
Test Specification	FCC Part 95.628 e / EN 301 839-1 8.1
Test Case	Frequency Error (signal count function of analyzer)
Comment 1	f: 403.642094 MHz
Comment 2	Limit +/-100 ppm (+/-40.36KHz)



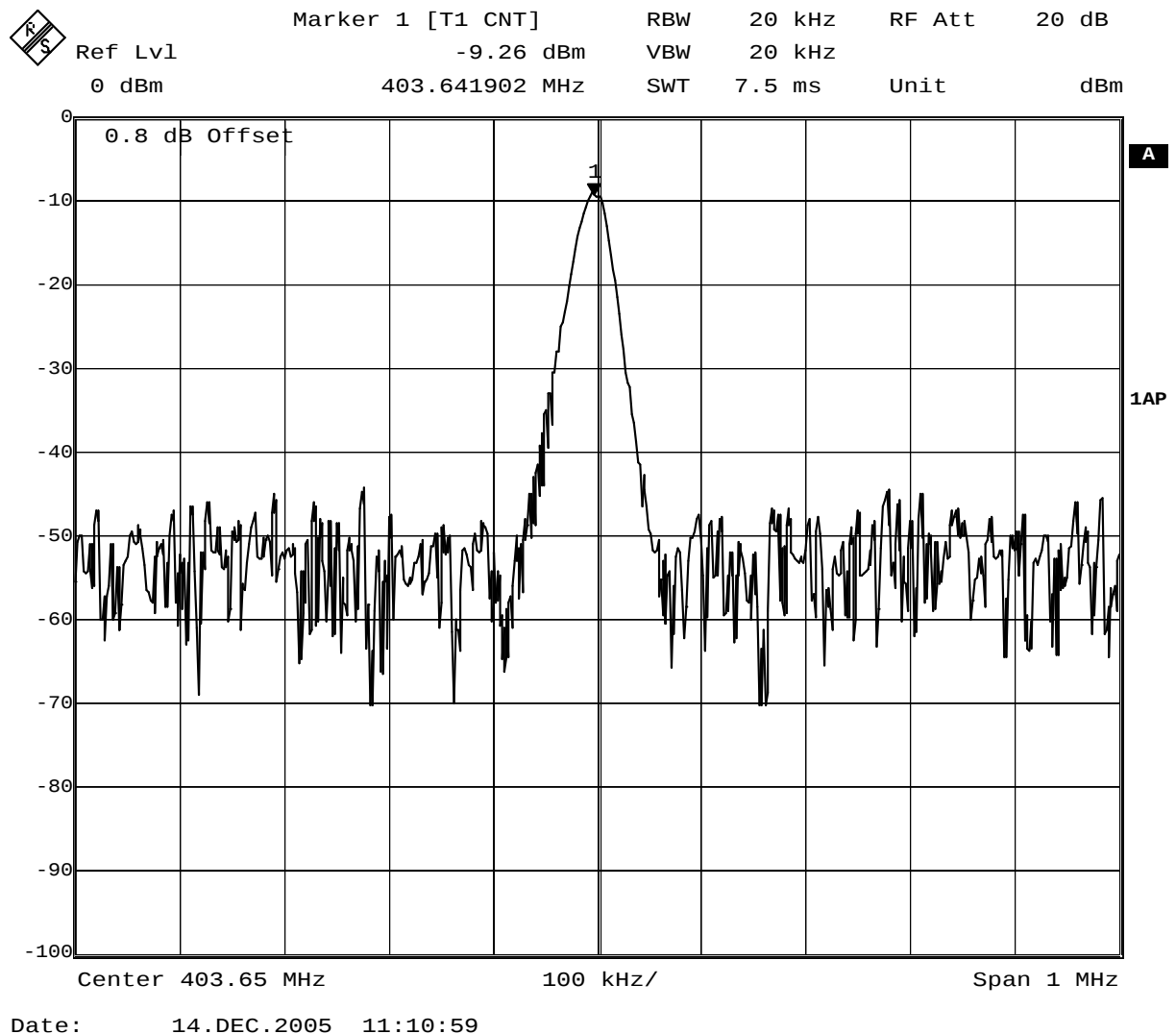
Measurement diagram

EUT Model	Cardiomessenger II
Approval Holder	Telex III
Temperature / Voltage	Biotronik GmbH
Test Site / Operator	55°C / Umin: 3.15 V DC
Test Specification	ETS
Test Case	FCC Part 95.628 e / EN 301 839-1 8.1
Comment 1	Frequency Error (signal count function of analyzer)
Comment 2	f: 403.641900 MHz
	Limit +/-100 ppm (+/-40.36KHz)



FCC Part 95.628 (09.12.2005) / EN 301 839 v1.1.1 (2002-06)
Frequency Error

EUT	Cardiomessenger II
Model	Telex III
Approval Holder	Biotronik GmbH
Temperature / Voltage	55°C / Umax: 3.7 V DC
Test Site / Operator	ETS
Test Specification	FCC Part 95.628 e / EN 301 839-1 8.1
Test Case	Frequency Error (signal count function of analyzer)
Comment 1	f: 403.641902 MHz
Comment 2	Limit +/-100 ppm (+/-40.36KHz)



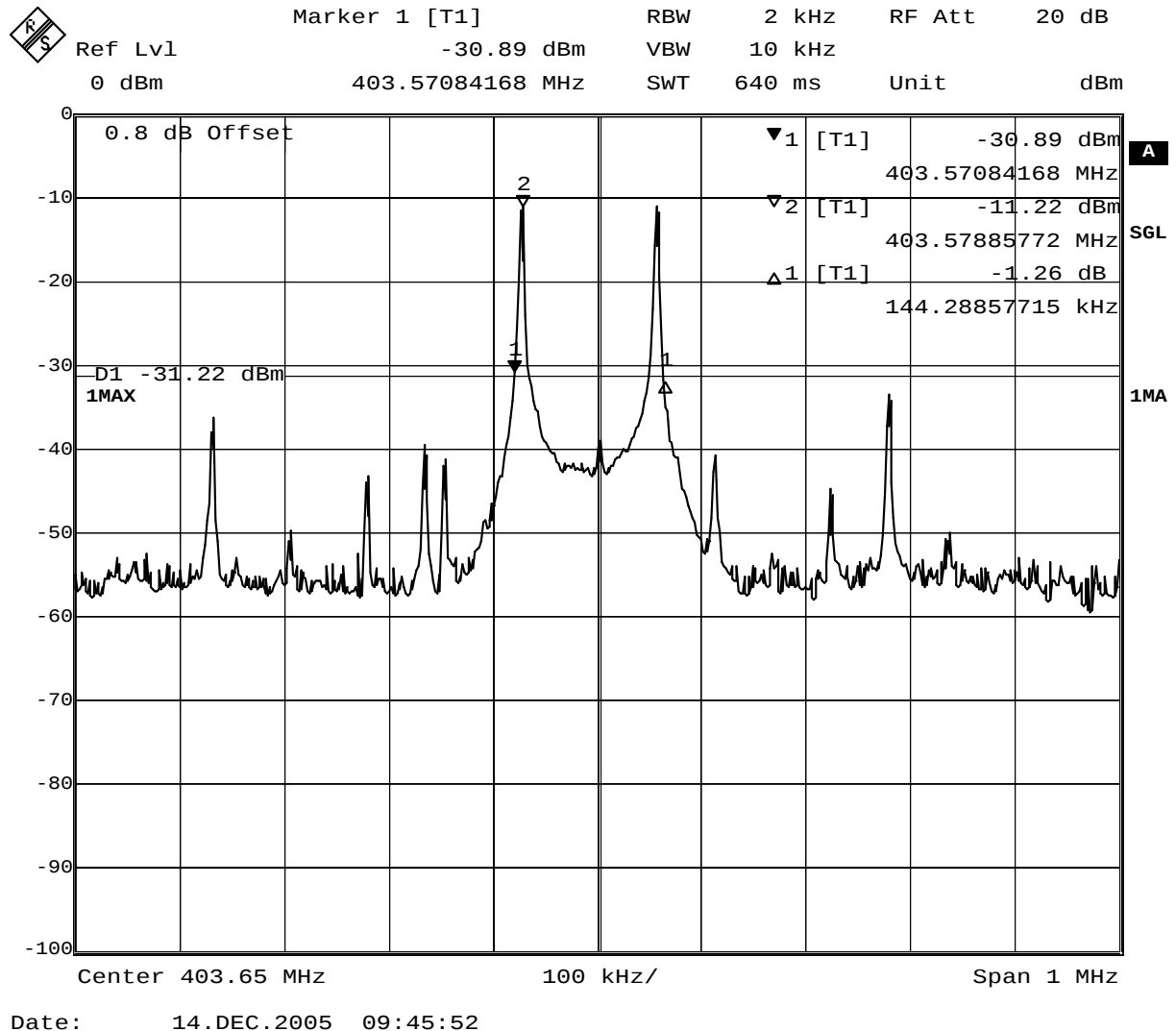
Measurement diagram

Annex

Measurement diagrams “20dB Emission bandwidth”

FCC Part 95.633 (09.12.2005) / EN 301 839 v1.1.1 (2002-06)
Emission bandwidth

EUT	Cardiomessenger II
Model	Telex III
Approval Holder	Biotronik GmbH
Temperature / Voltage	24°C / Unom: 3.7 V Dc
Test Site / Operator	ETS
Test Specification	FCC Part 95.633 e / EN 301 839-1 8.2
Test Case	20 dB Emission bandwidth
Comment 1	f high-flow Bandwidth: 144.29 KHz
Comment 2	Limit 300KHz



Measurement diagram

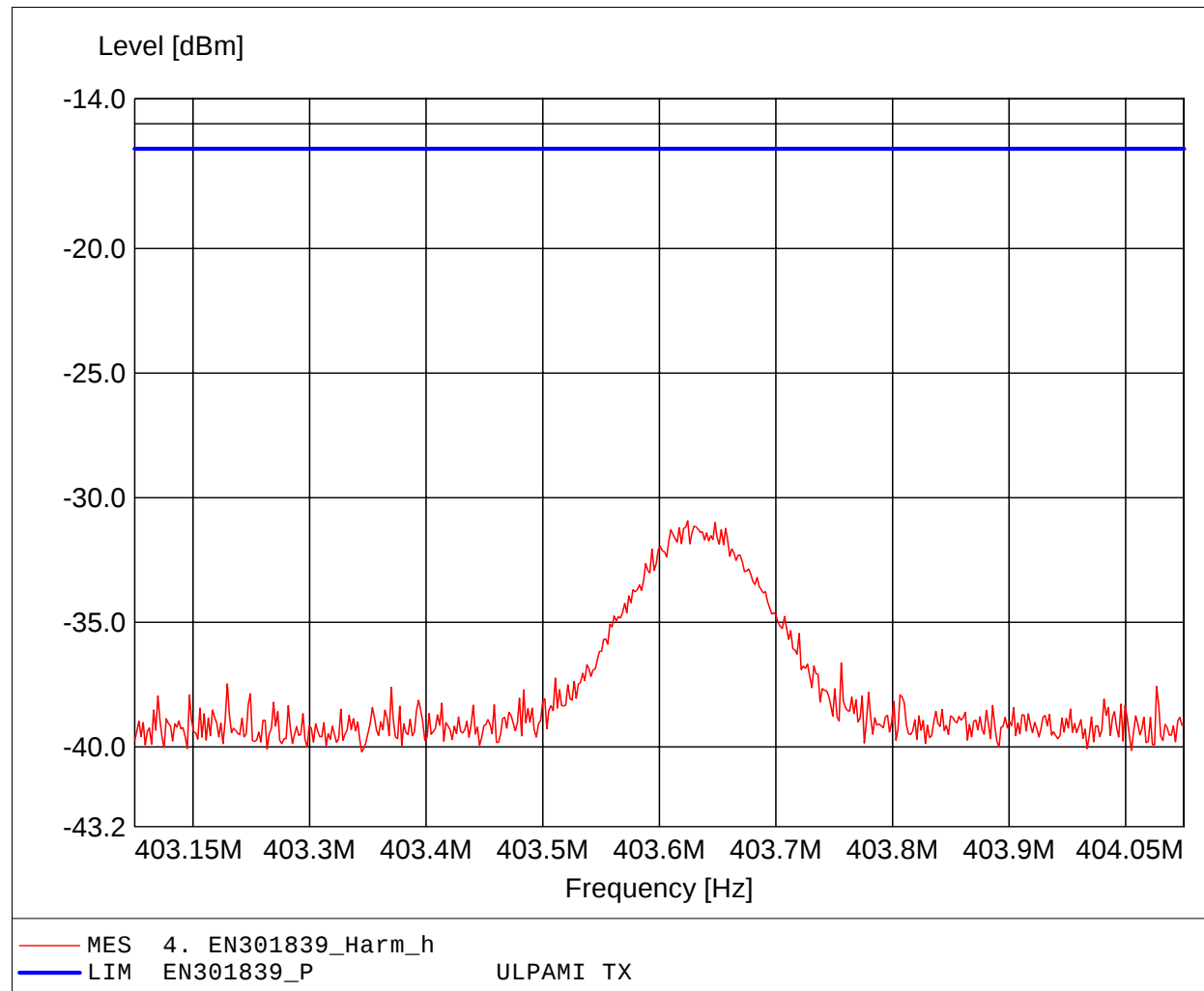
Annex

Measurement diagrams “Radiated Power under normal conditions”

Radiated power under normal conditions

ULPAMI in accordance to the EN 301 839

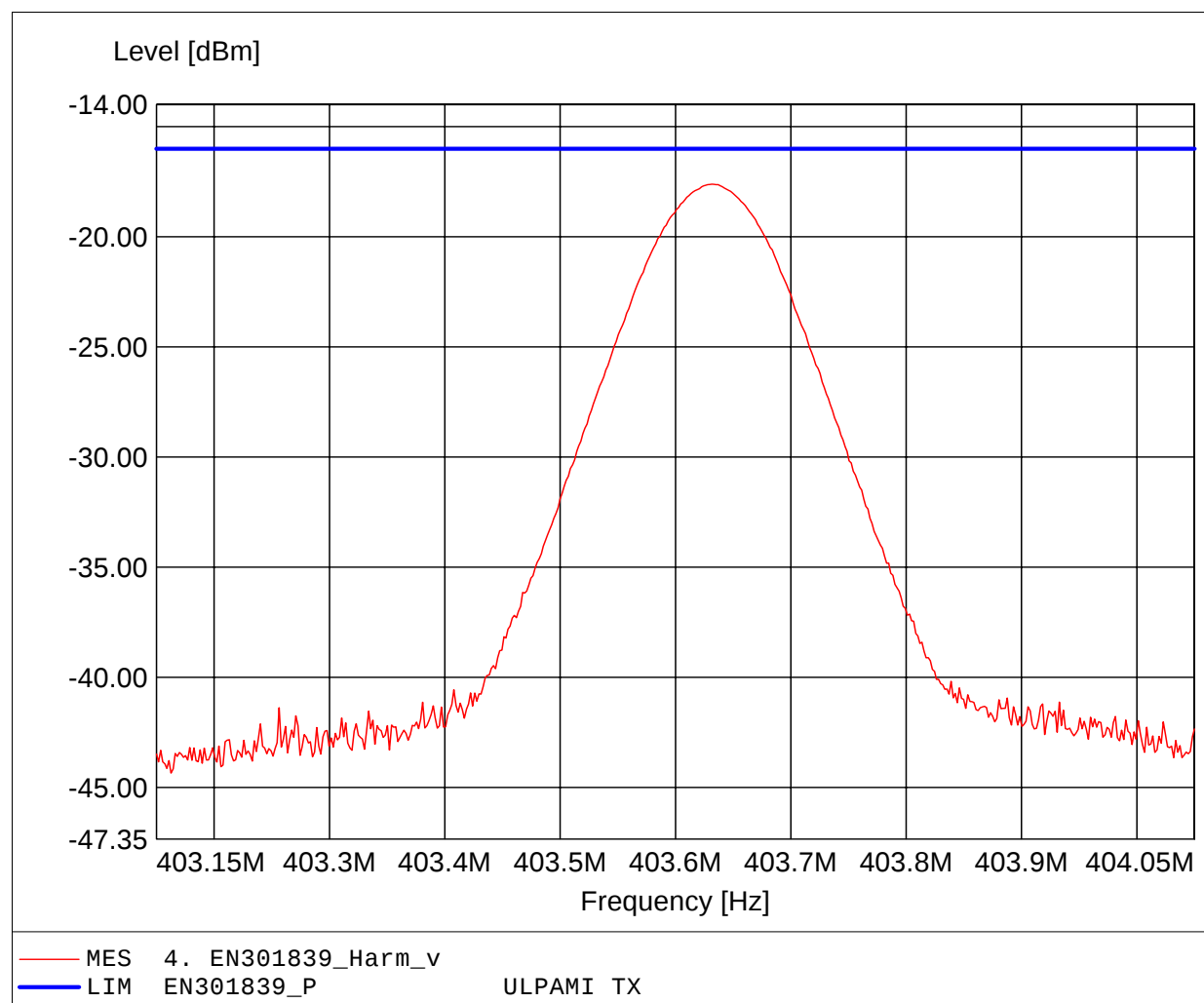
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna top, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq:403.624MHz Pmax:-30.92dBm RBW: 10 MHz



Radiated power under normal conditions

ULPAMI in accordance to the EN 301 839

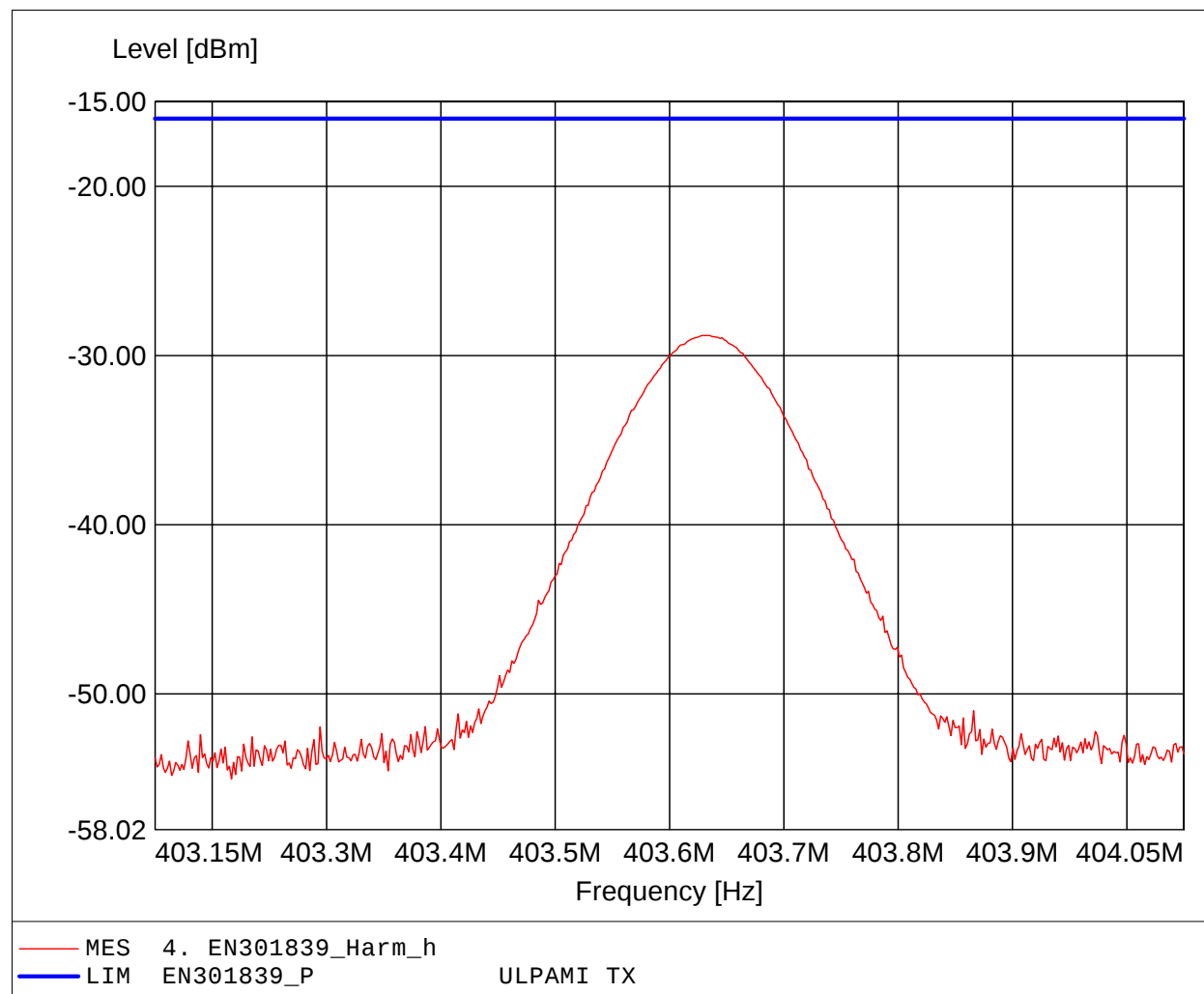
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna top, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq:403.632MHz Pmax:-17.61dBm RBW: 10 MHz



Radiated power under normal conditions

ULPAMI in accordance to the EN 301 839

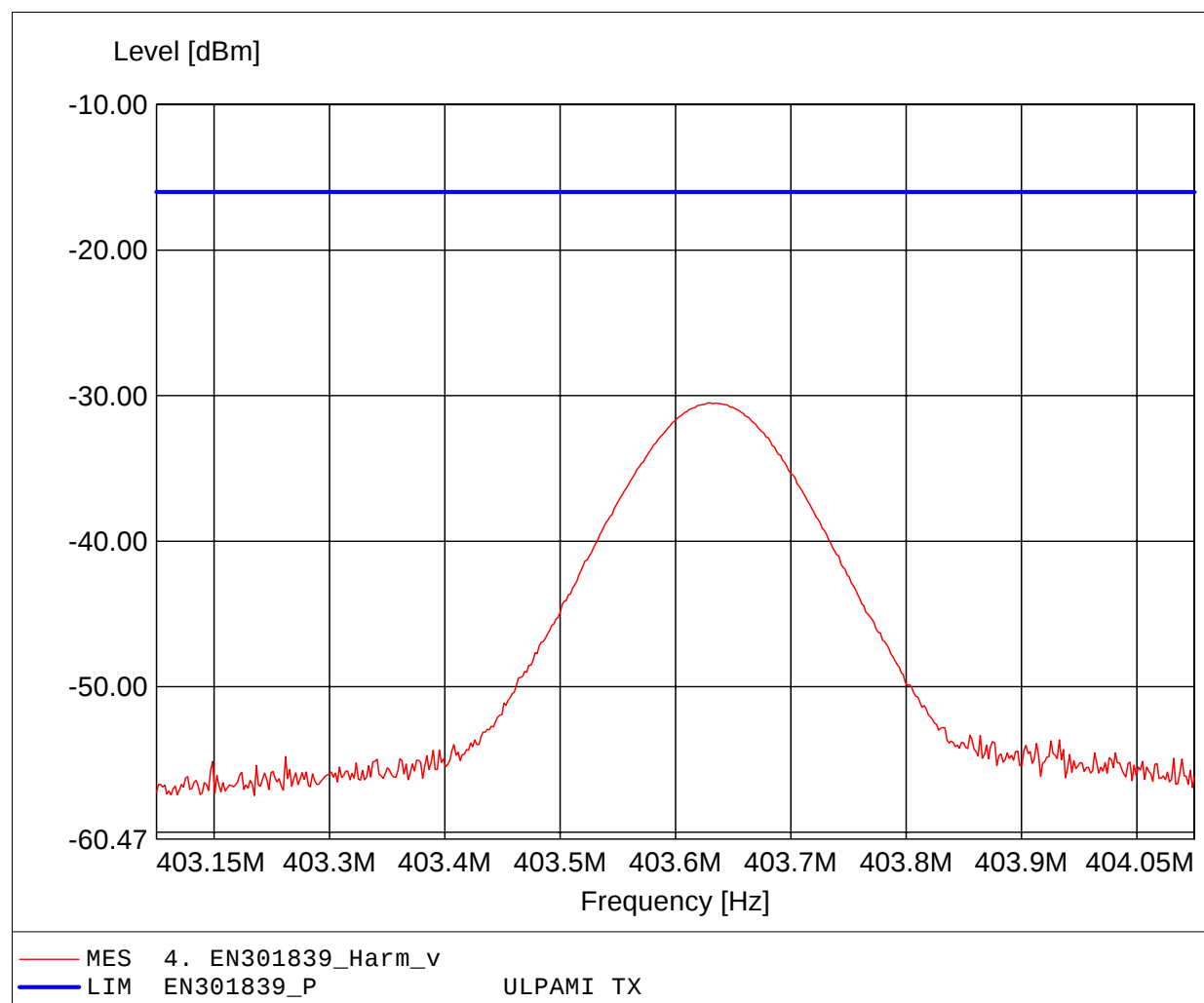
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna bottom, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:403.632MHz Pmax:-28.82dBm RBW: 10 MHz



Radiated power under normal conditions

ULPAMI in accordance to the EN 301 839

Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna bottom, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:403.628MHz Pmax:-30.49dBm RBW: 10 MHz



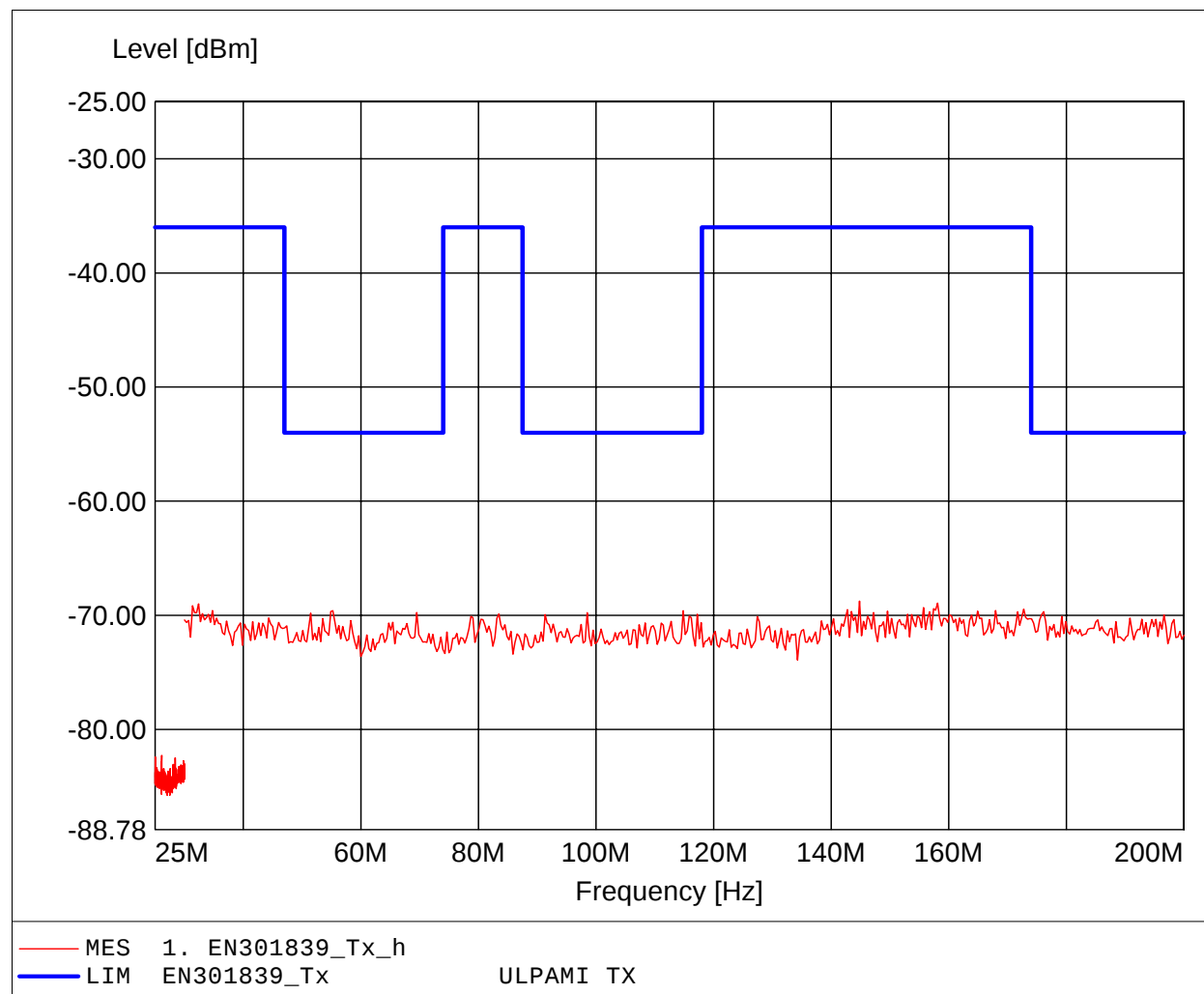
Annex

Measurement diagrams “Spurious Radiation mode: TX

Spurious radiation

ULPAMI in accordance to the EN 301 839

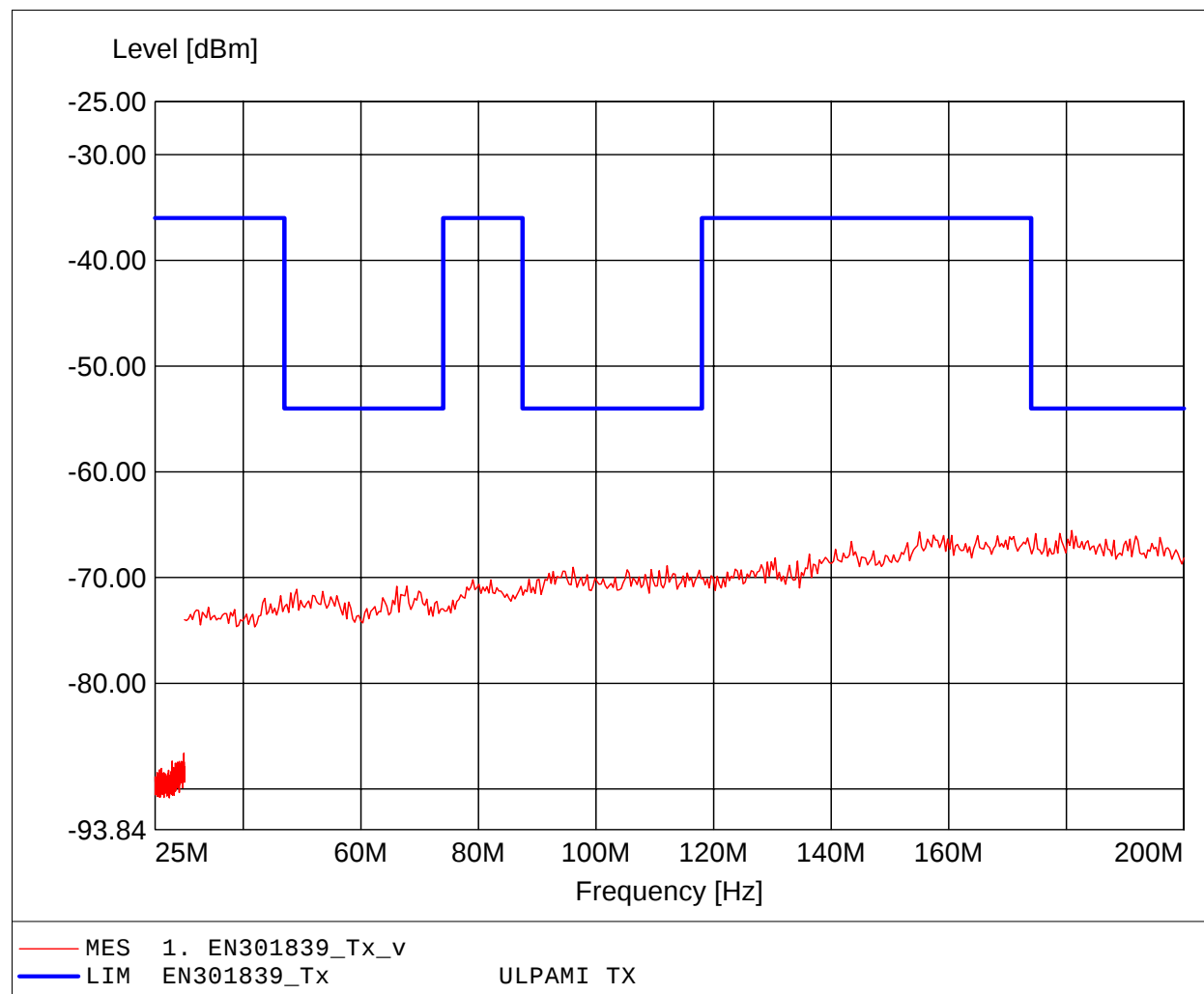
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna top, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:144.810MHz Pmax:-68.76dBm RBW: 10/100 kHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

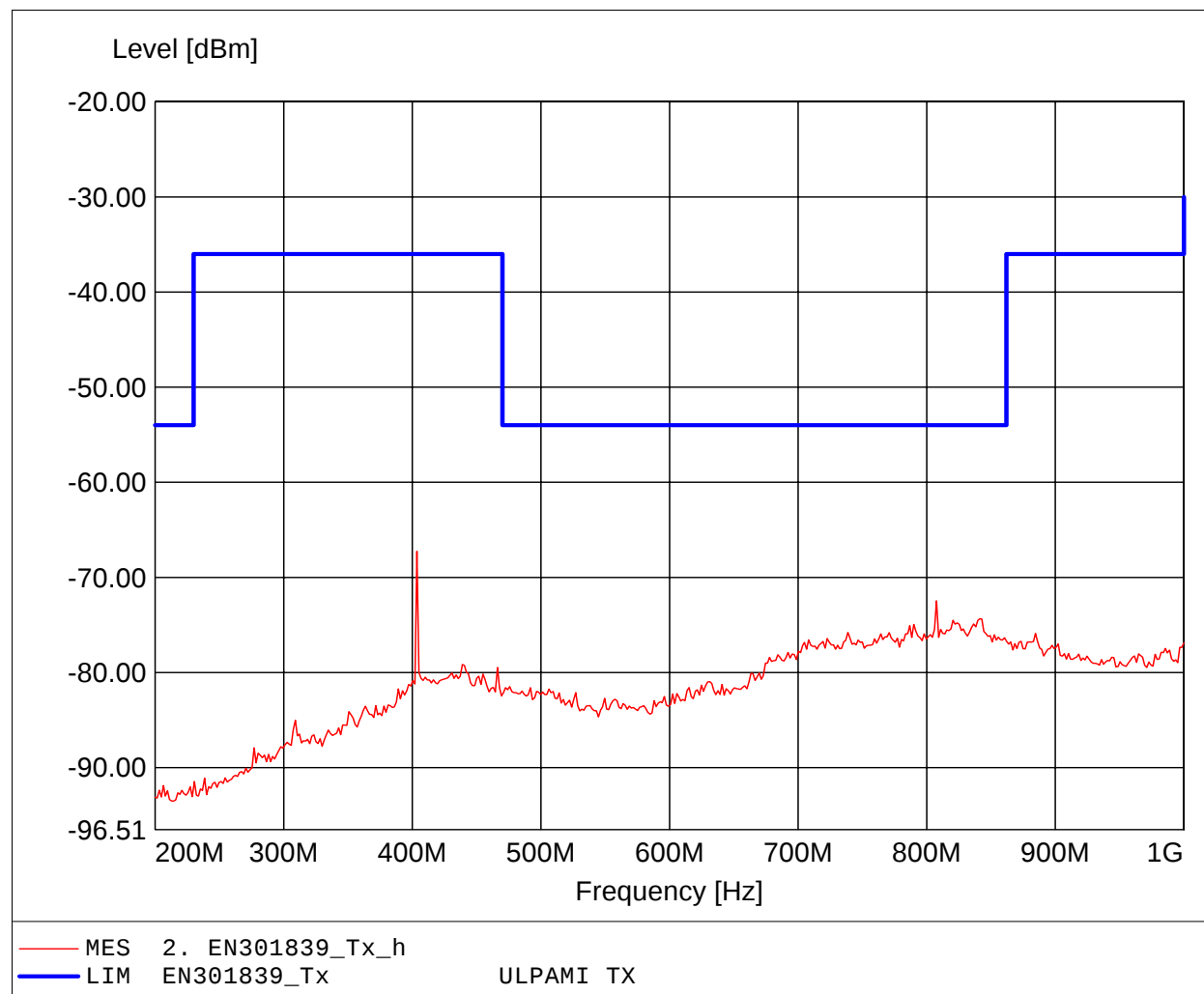
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna top, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:180.922MHz Pmax:-65.54dBm RBW: 10/100 kHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

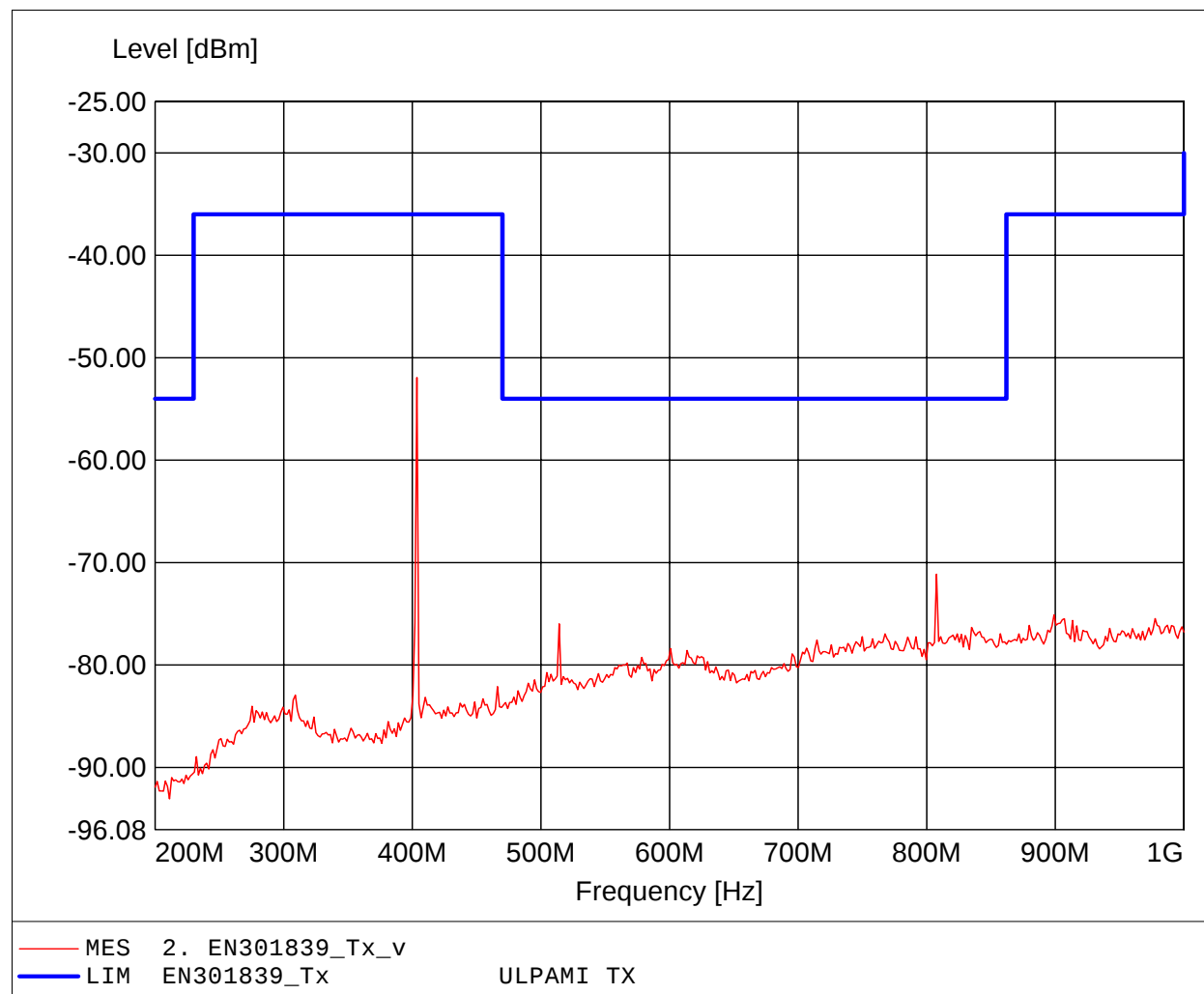
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna top, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, notch-filter, ampl.: 0.2-1 GHz
Comment 2: Freq:403.607MHz Pmax:-67.26dBm RBW: 100 kHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

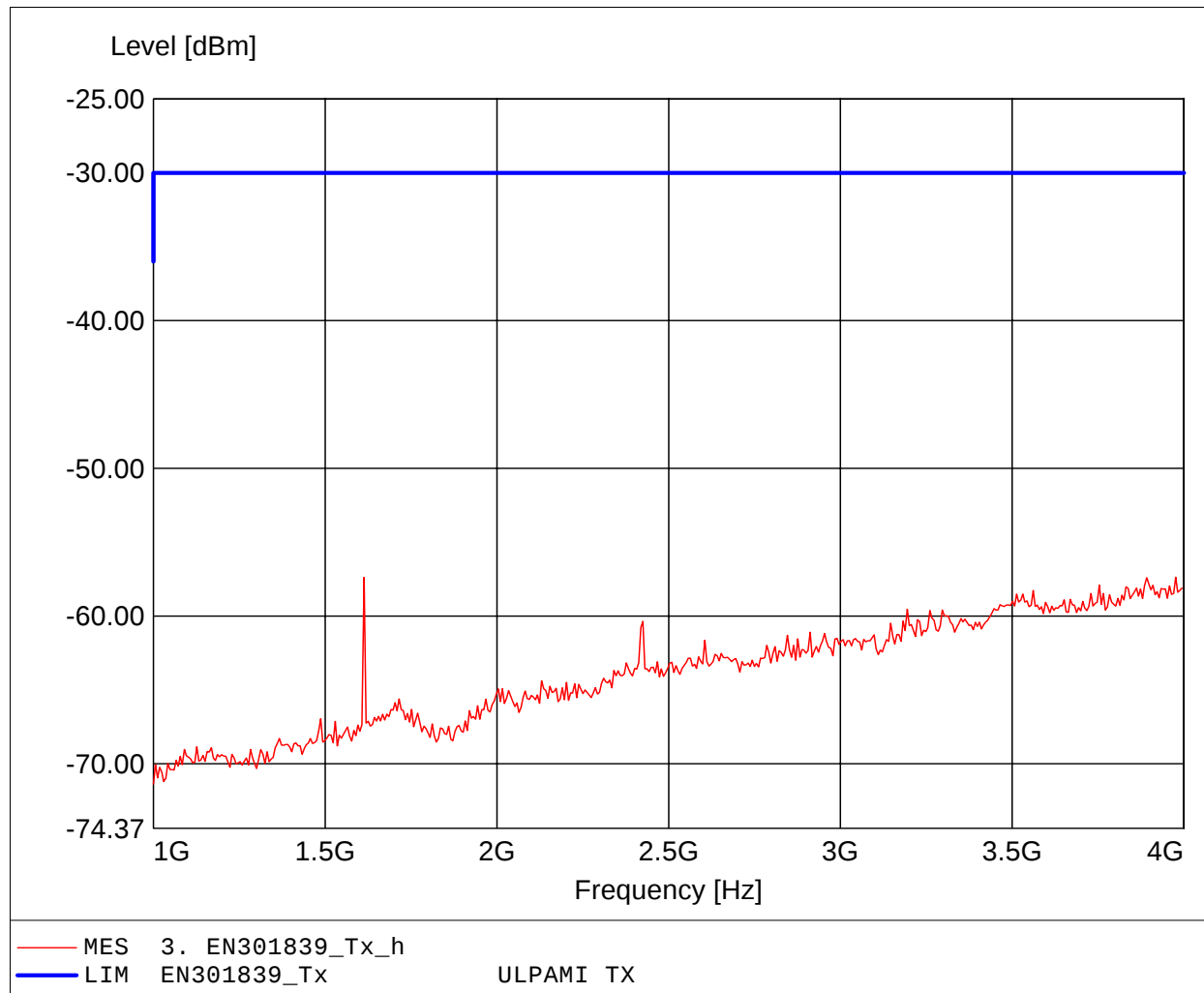
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna top, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, notch-filter, ampl.: 0.2-1 GHz
Comment 2: Freq:403.607MHz Pmax:-51.93dBm RBW: 100 kHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

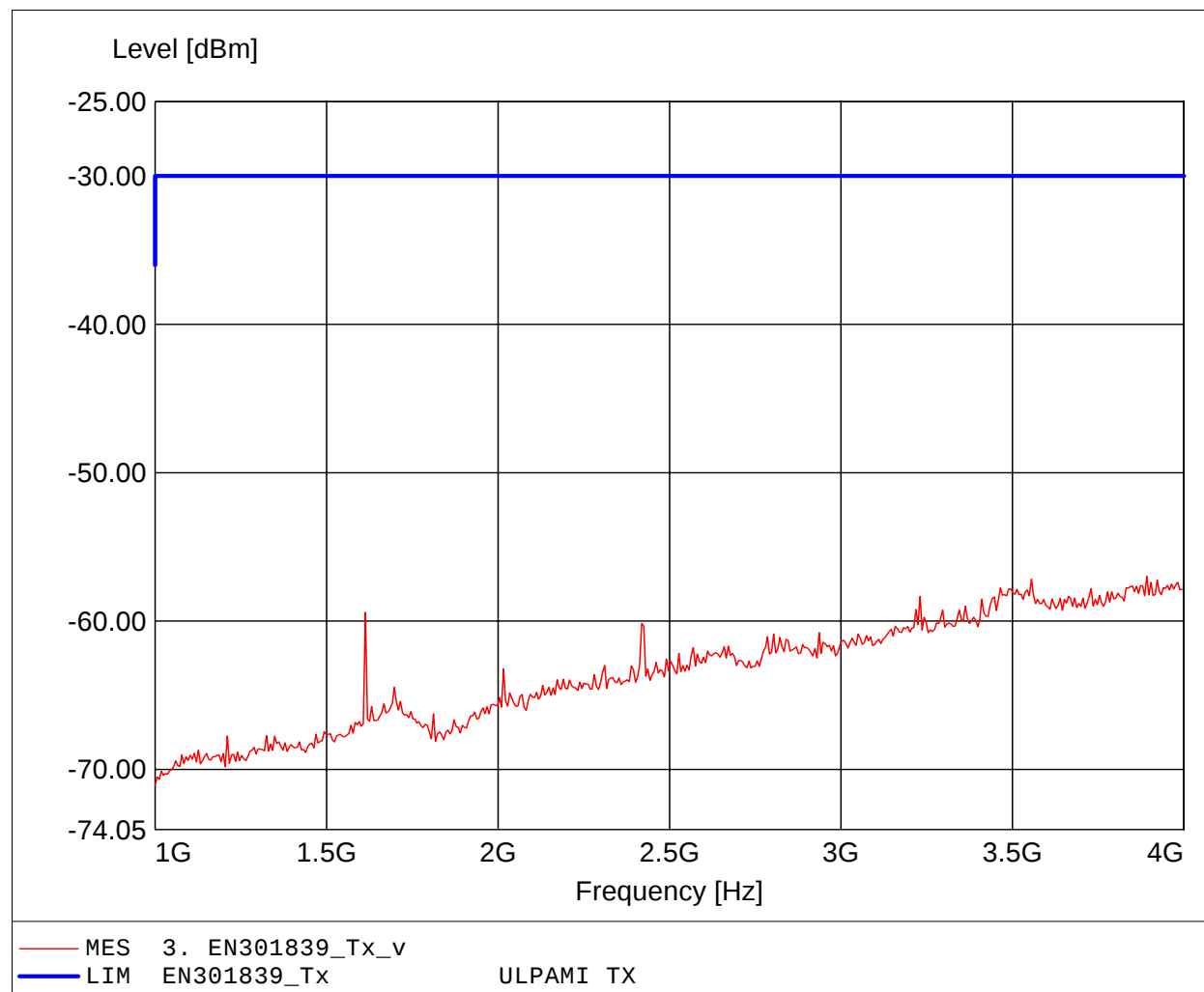
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna top, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 1-4 GHz
Comment 2: Freq:3.976GHz Pmax:-57.37dBm RBW: 1 MHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

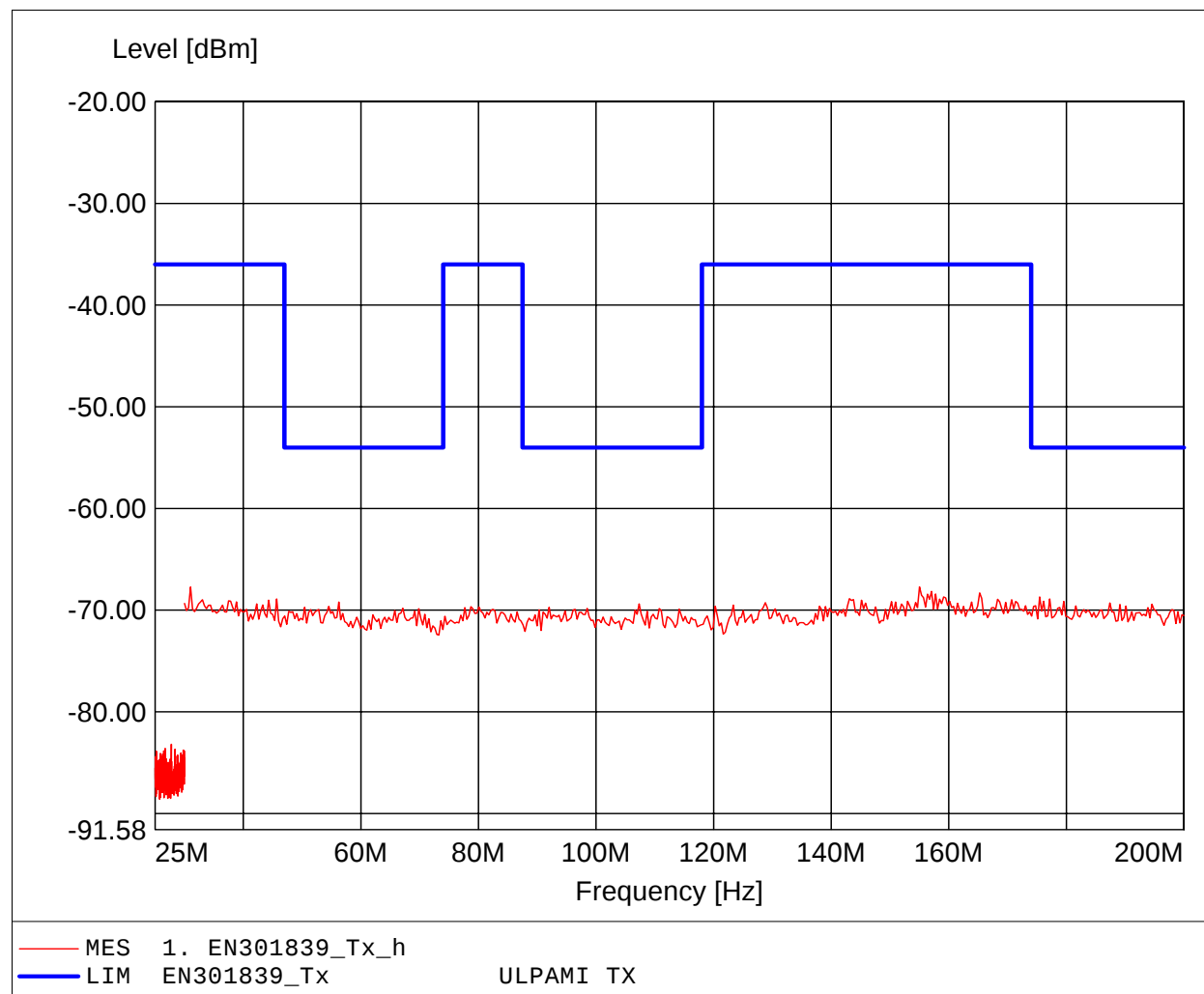
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna top, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 1-4 GHz
Comment 2: Freq:3.892GHz Pmax:-56.99dBm RBW: 1 MHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

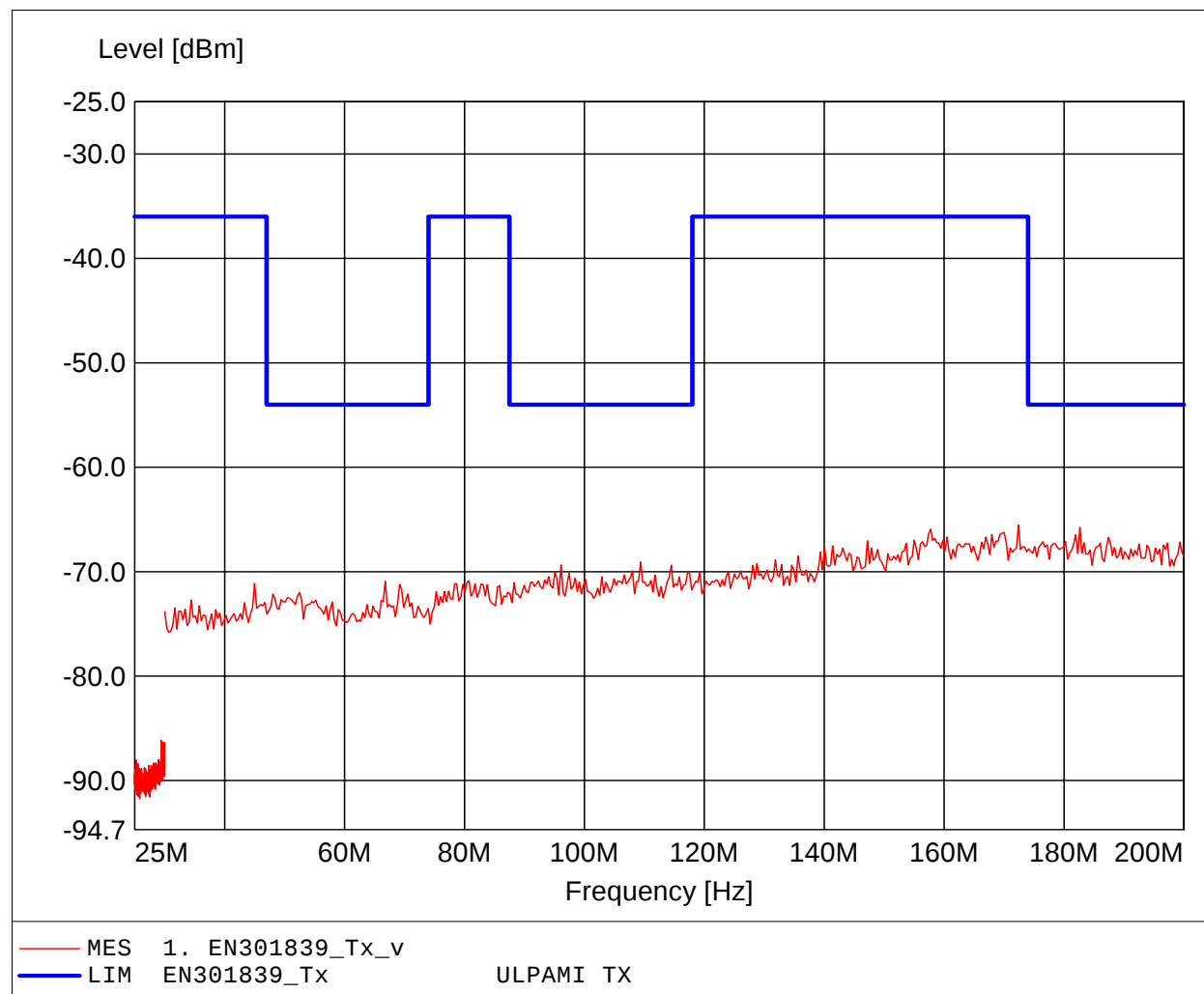
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna bottom, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:155.030MHz Pmax:-67.71dBm RBW: 10/100 kHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

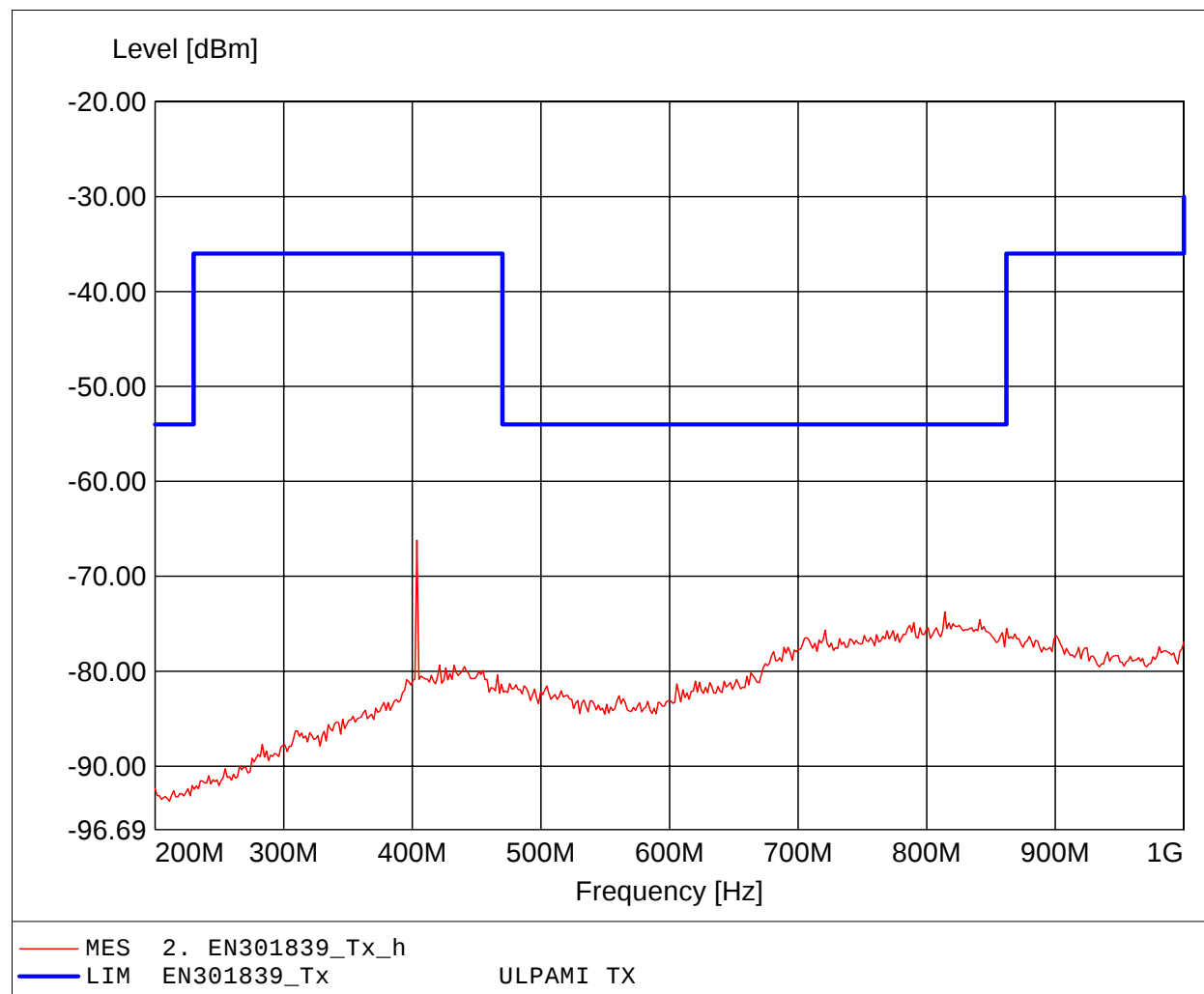
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna bottom, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:172.405MHz Pmax:-65.54dBm RBW: 10/100 kHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

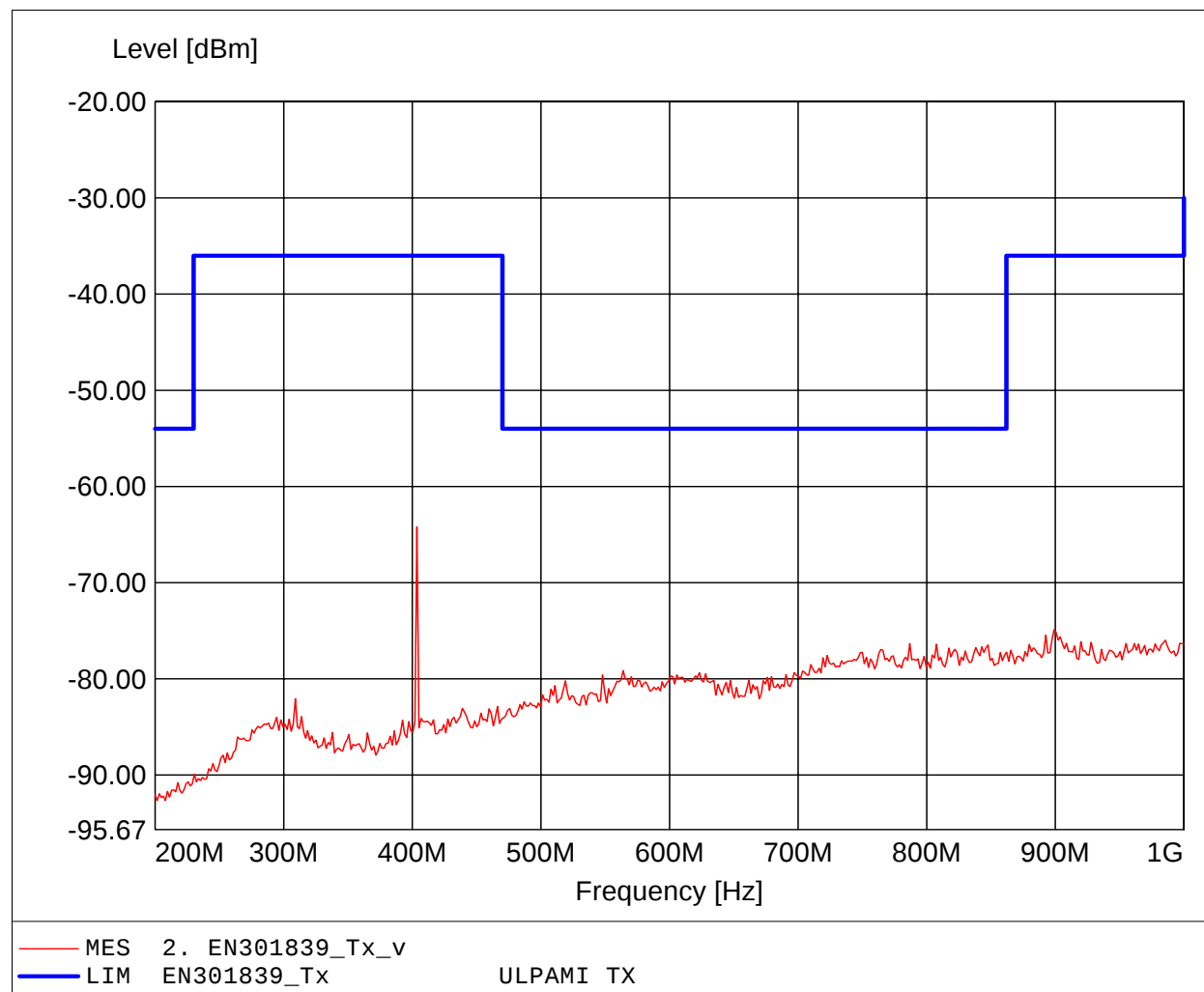
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna bottom, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, notch-filter, ampl.: 0.2-1 GHz
Comment 2: Freq:403.607MHz Pmax:-66.19dBm RBW: 100 kHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

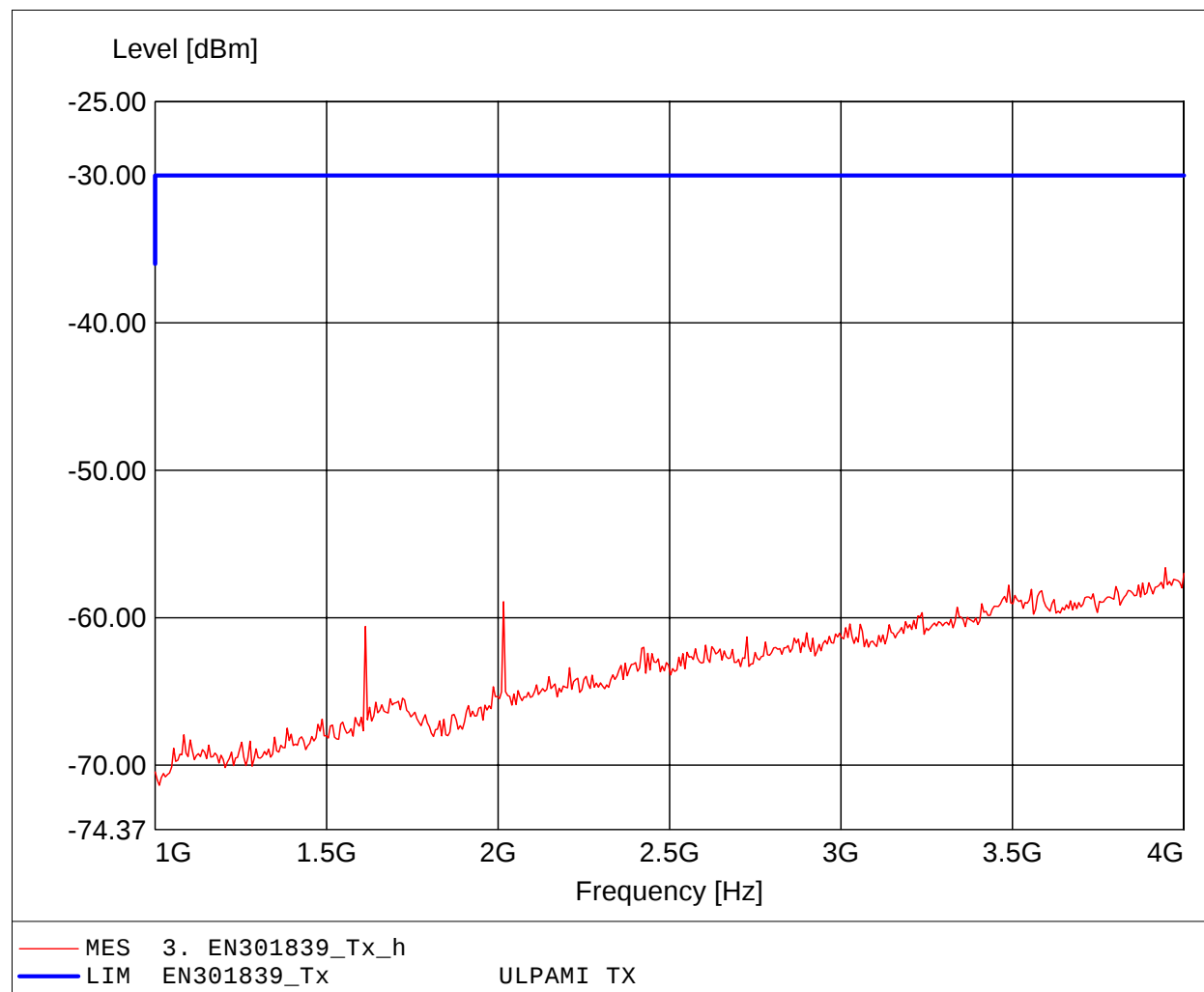
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna bottom, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, notch-filter, ampl.: 0.2-1 GHz
Comment 2: Freq: 403.607 MHz Pmax: -64.21 dBm RBW: 100 kHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

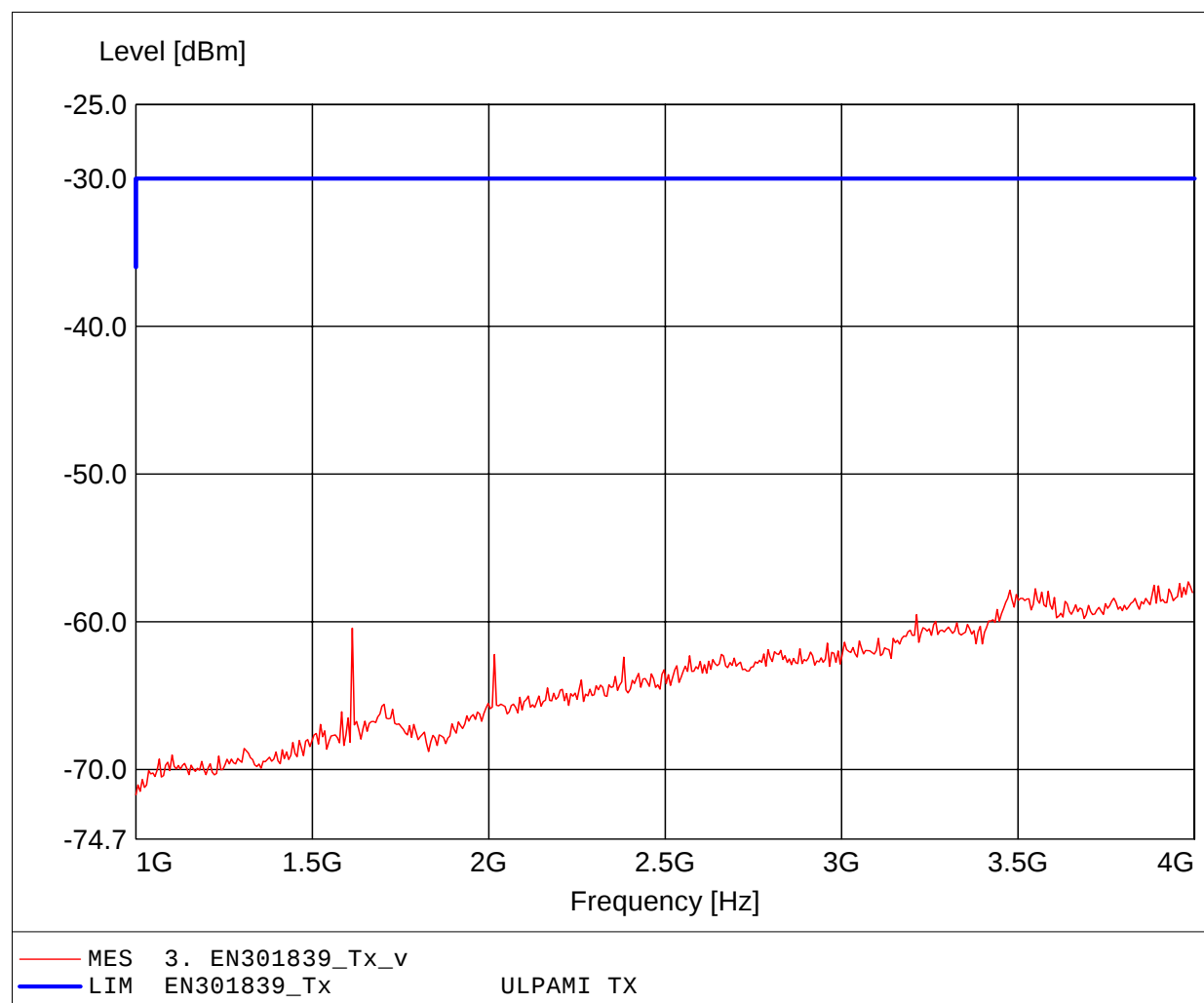
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna bottom, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 1-4 GHz
Comment 2: Freq:3.946GHz Pmax:-56.61dBm RBW: 1 MHz



Spurious radiation

ULPAMI in accordance to the EN 301 839

Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna bottom, Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 1-4 GHz
Comment 2: Freq:3.982GHz Pmax:-57.29dBm RBW: 1 MHz



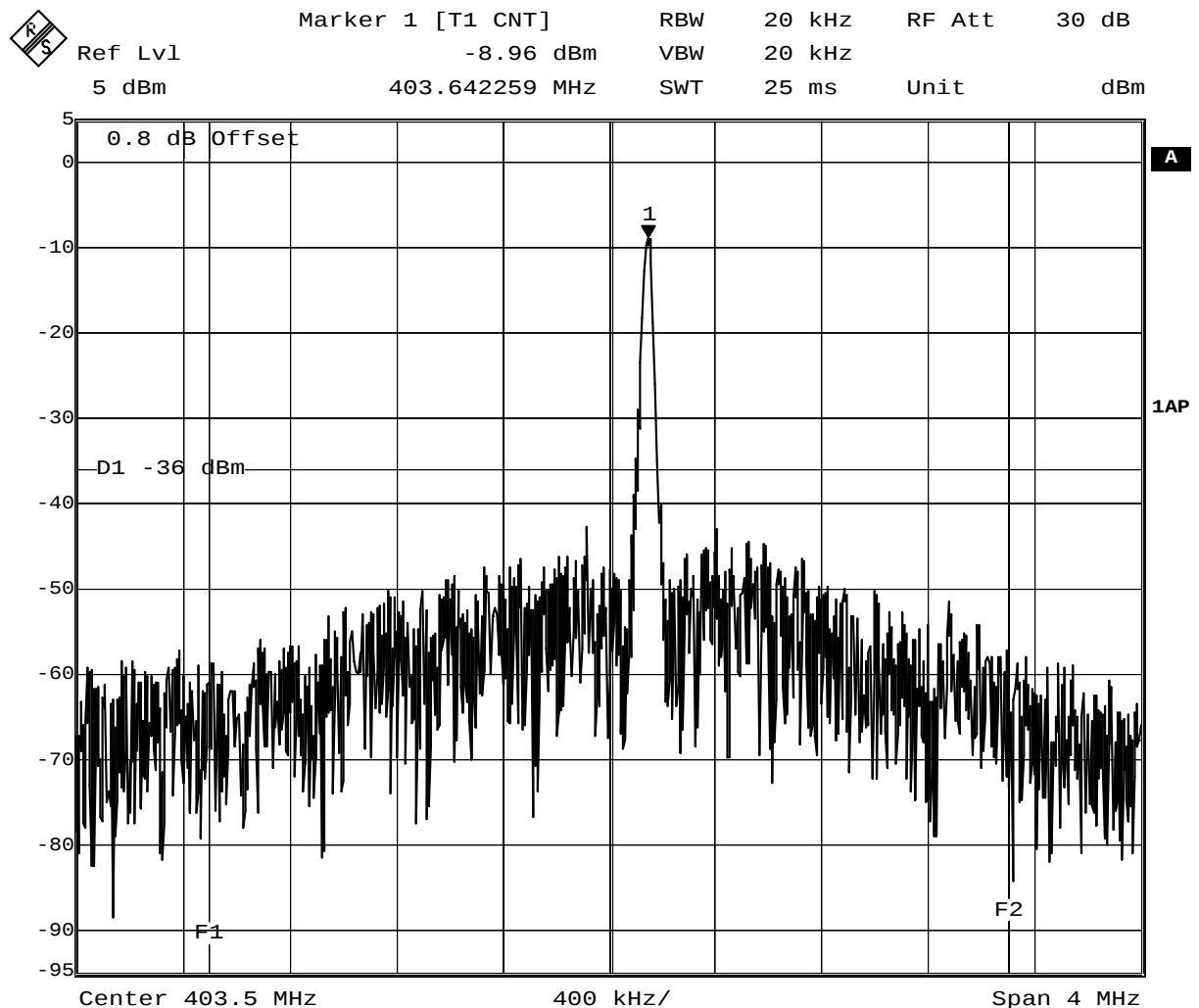
Annex

Measurement diagram “ Frequency stability under low voltage condition”

EN 301 839 v1.1.1 (2002-06)

Frequency stability under low voltage conditions

EUT	Cardiomessenger II
Model	Telex III
Approval Holder	Biotronik GmbH
Temperature / Voltage	25°C / Unom: 3.0 V Dc
Test Site / Operator	ETS
Test Specification	EN 301 839-1 8.2
Test Case	EN 301 839 8.5 Frequency stability under low voltage conditions
Comment 1	f: 403.642259
Comment 2	Limit: +/- 100 ppm above -36 dBm (lower 3.0V Tx switch off)



Date: 14.DEC.2005 10:16:29

Measurement diagram

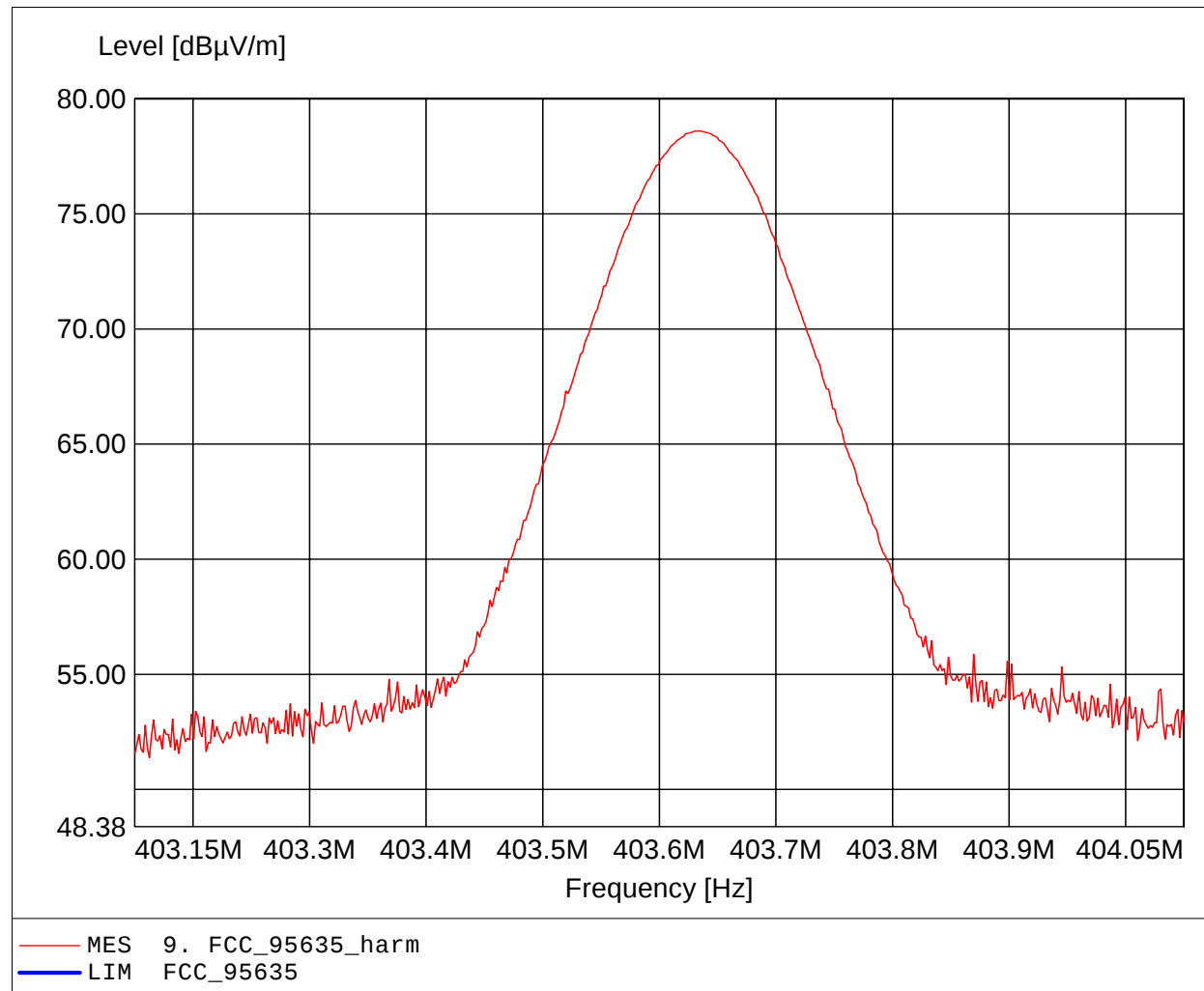
Annex

Measurement diagrams “ Unwanted radiations FCC RULES Part 95”

Carrier power (dBµV/m)

FCC RULES PART 95, SUBPART I

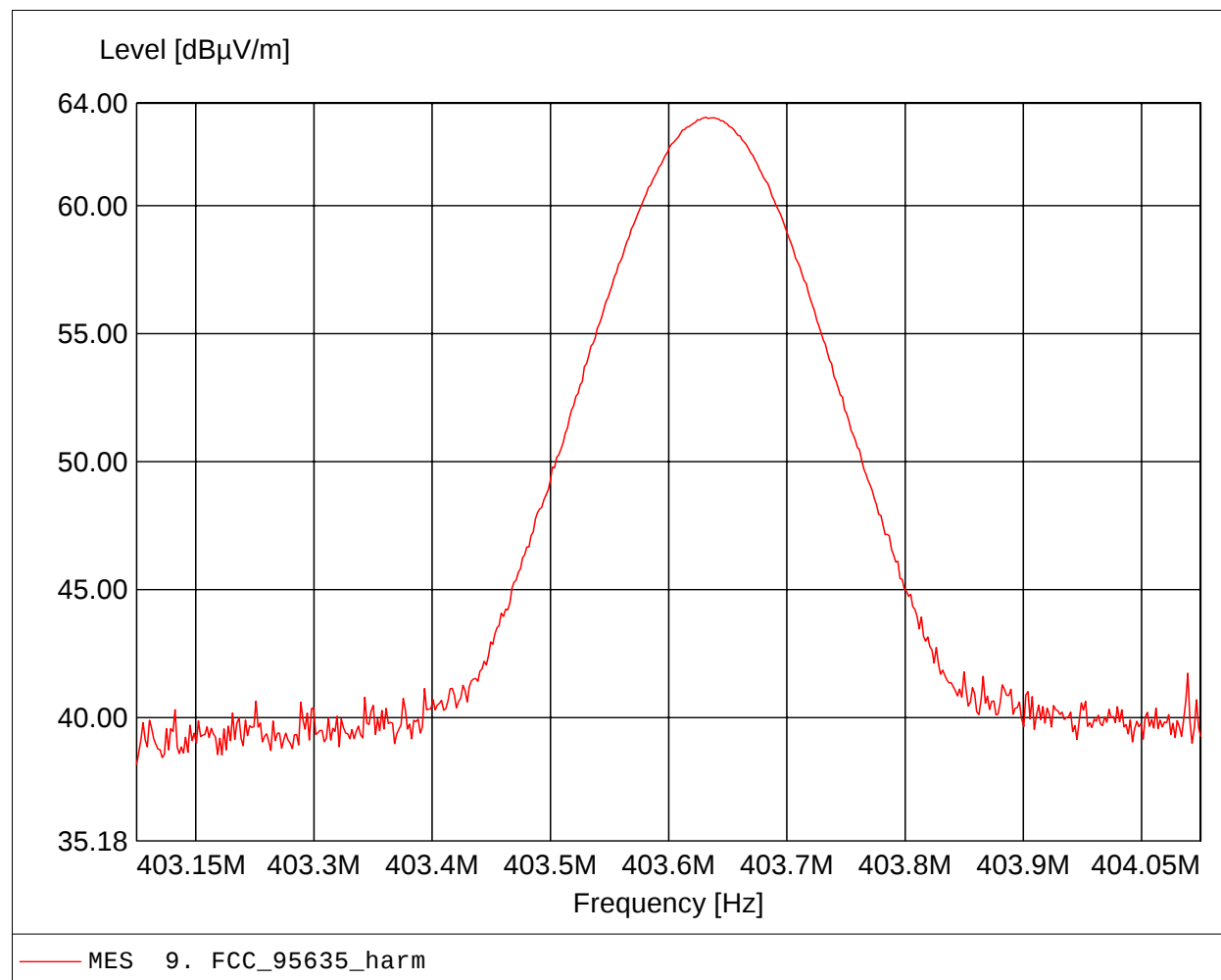
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 403.635MHz, Emax: 78.61dBµV/m, RBW: 100kHz



Carrier power (dBµV/m)

FCC RULES PART 95, SUBPART I

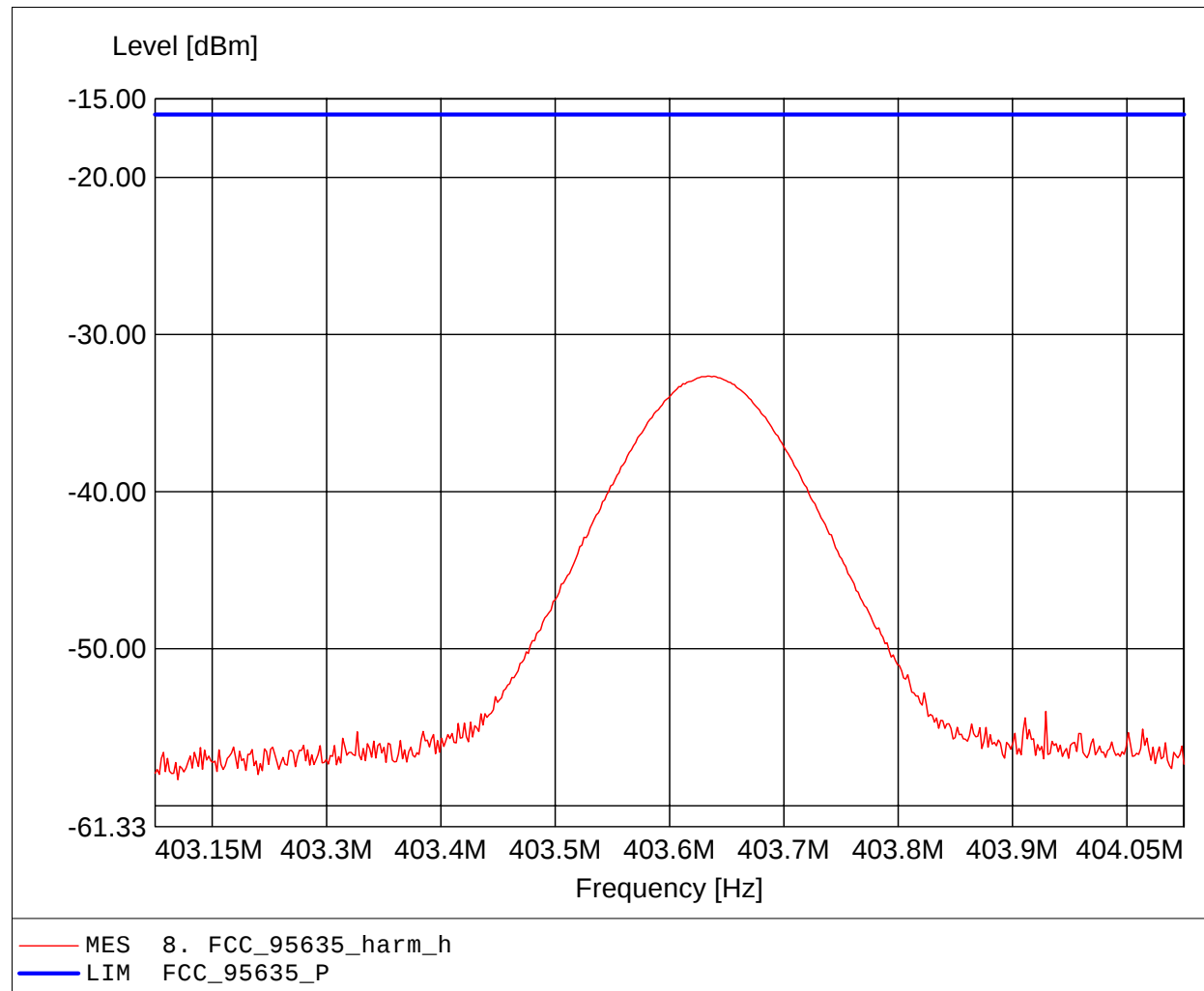
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 403.632MHz, Emax: 63.46dBµV/m, RBW: 100kHz



Carrier power (dBm)

FCC RULES PART 95, SUBPART I

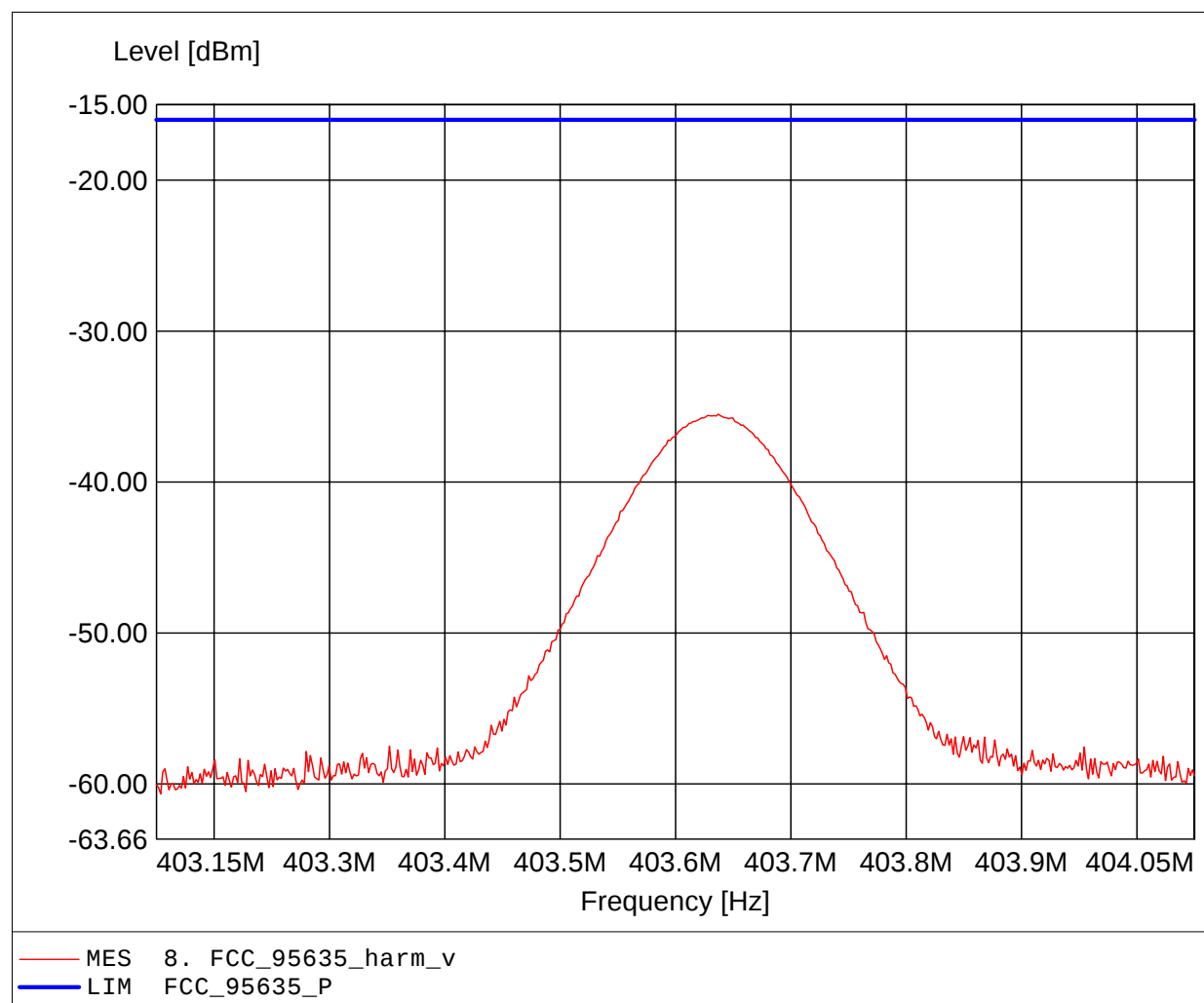
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.639, peak detector
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 403.633MHz, Pmax: -32.65dBm, RBW: 100KHz



Carrier power (dBm)

FCC RULES PART 95, SUBPART I

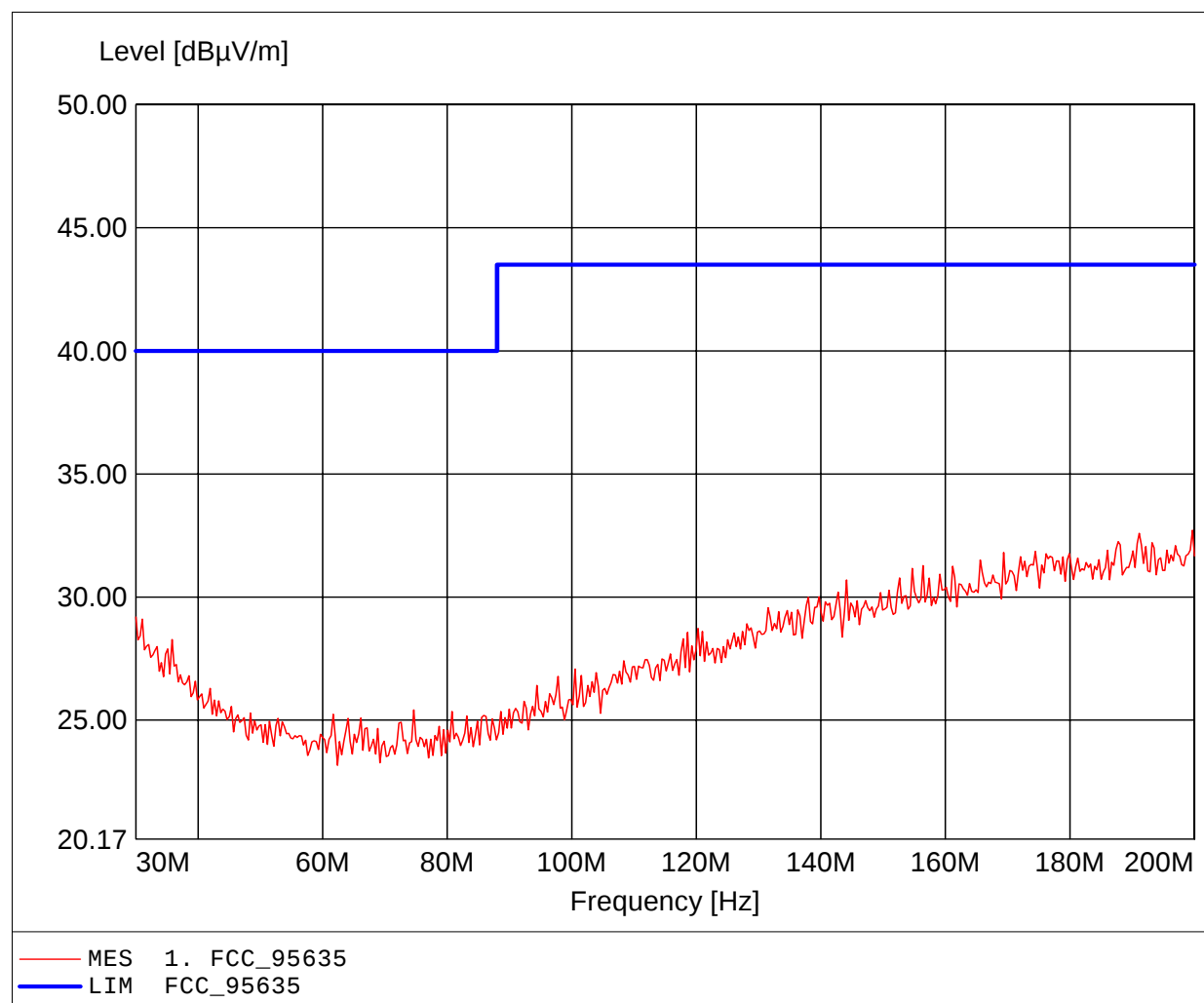
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.639, peak detector
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 403.637MHz, Pmax: -35.51dBm, RBW: 100KHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

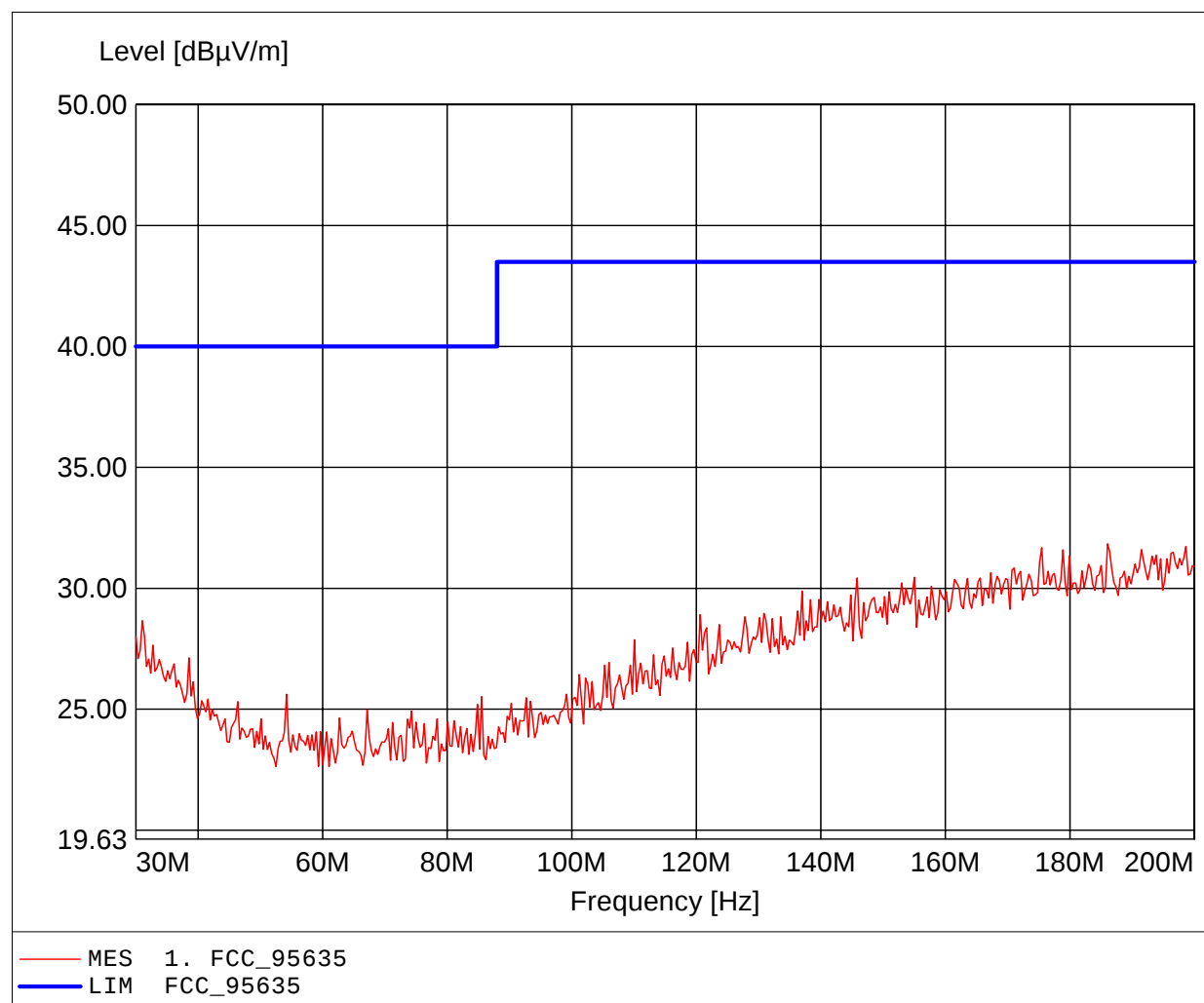
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 199.659MHz, Emax: 32.72dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

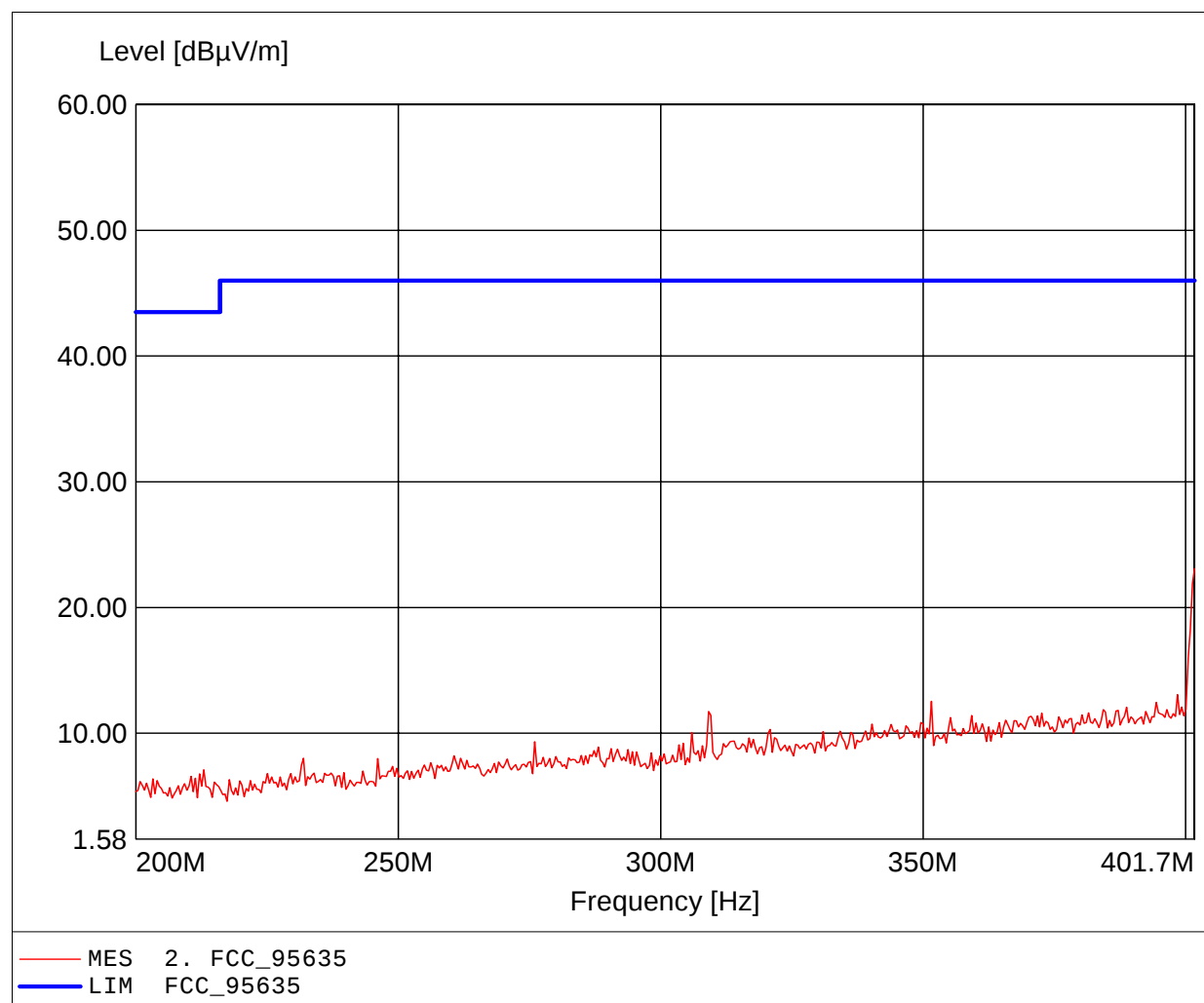
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 186.032MHz, Emax: 31.84dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

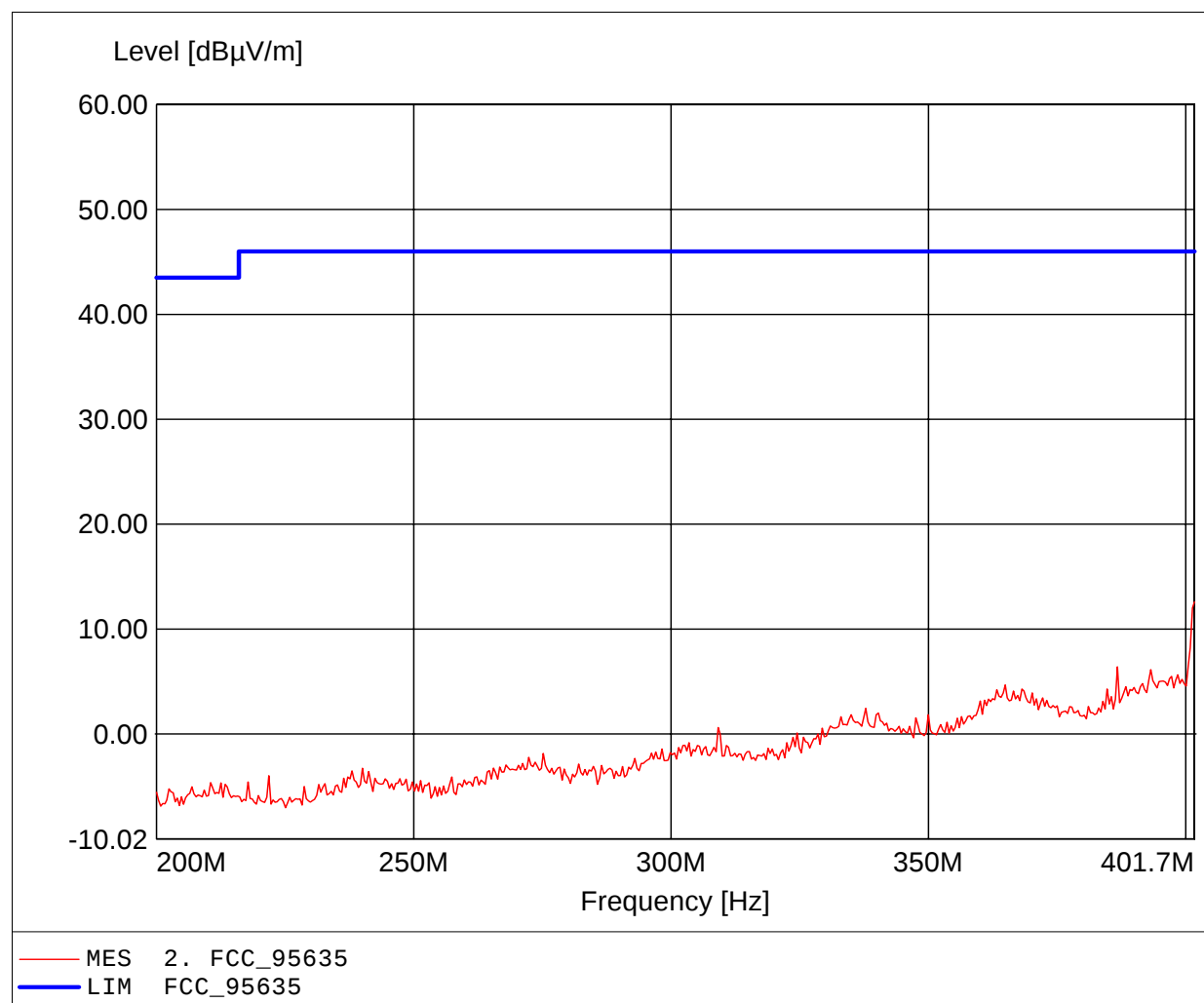
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 401.700MHz, Emax: 23.09dBμV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

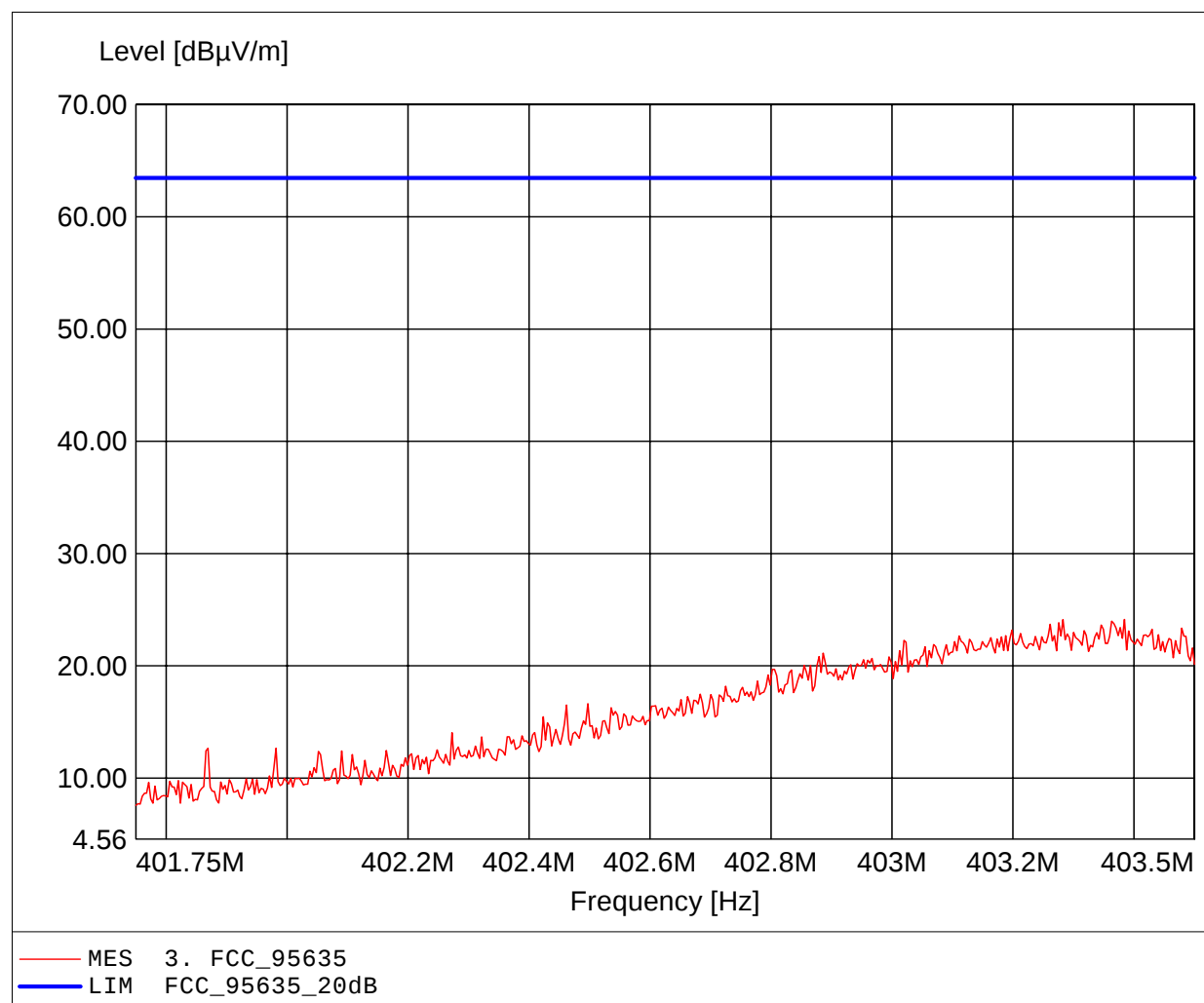
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 401.700MHz, Emax: 12.60dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

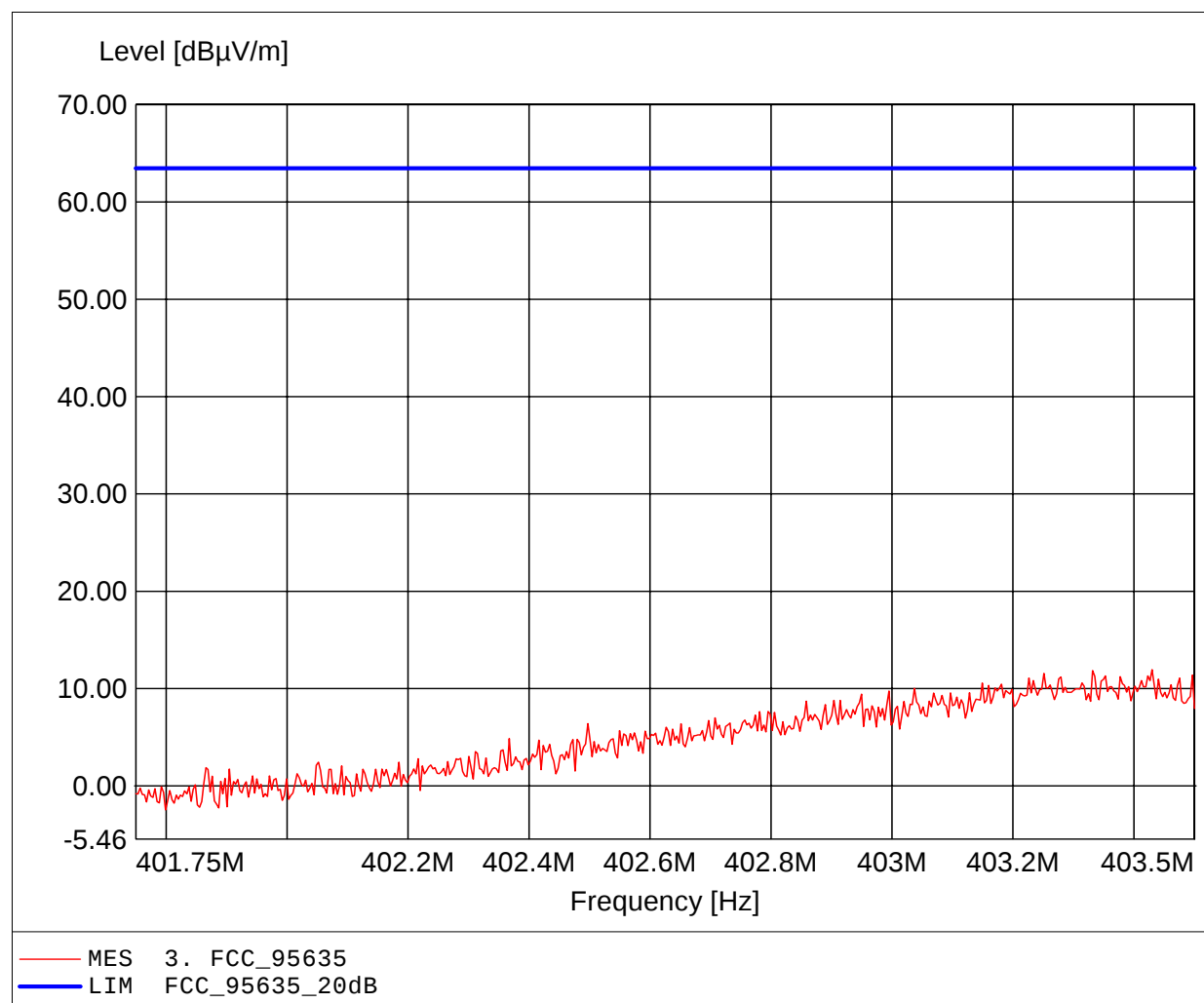
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.384MHz, Emax: 24.13dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

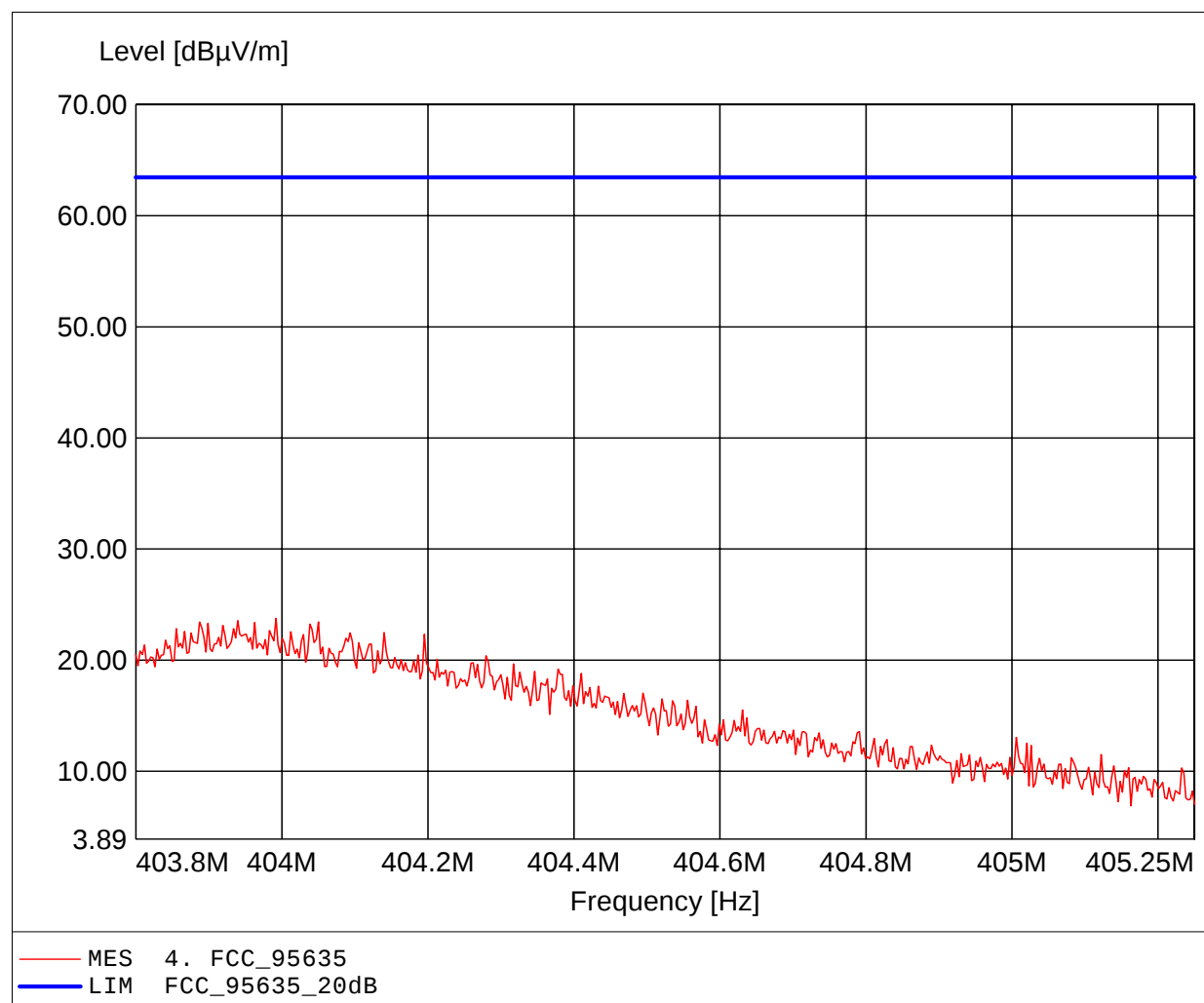
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.430MHz, Emax: 11.95dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

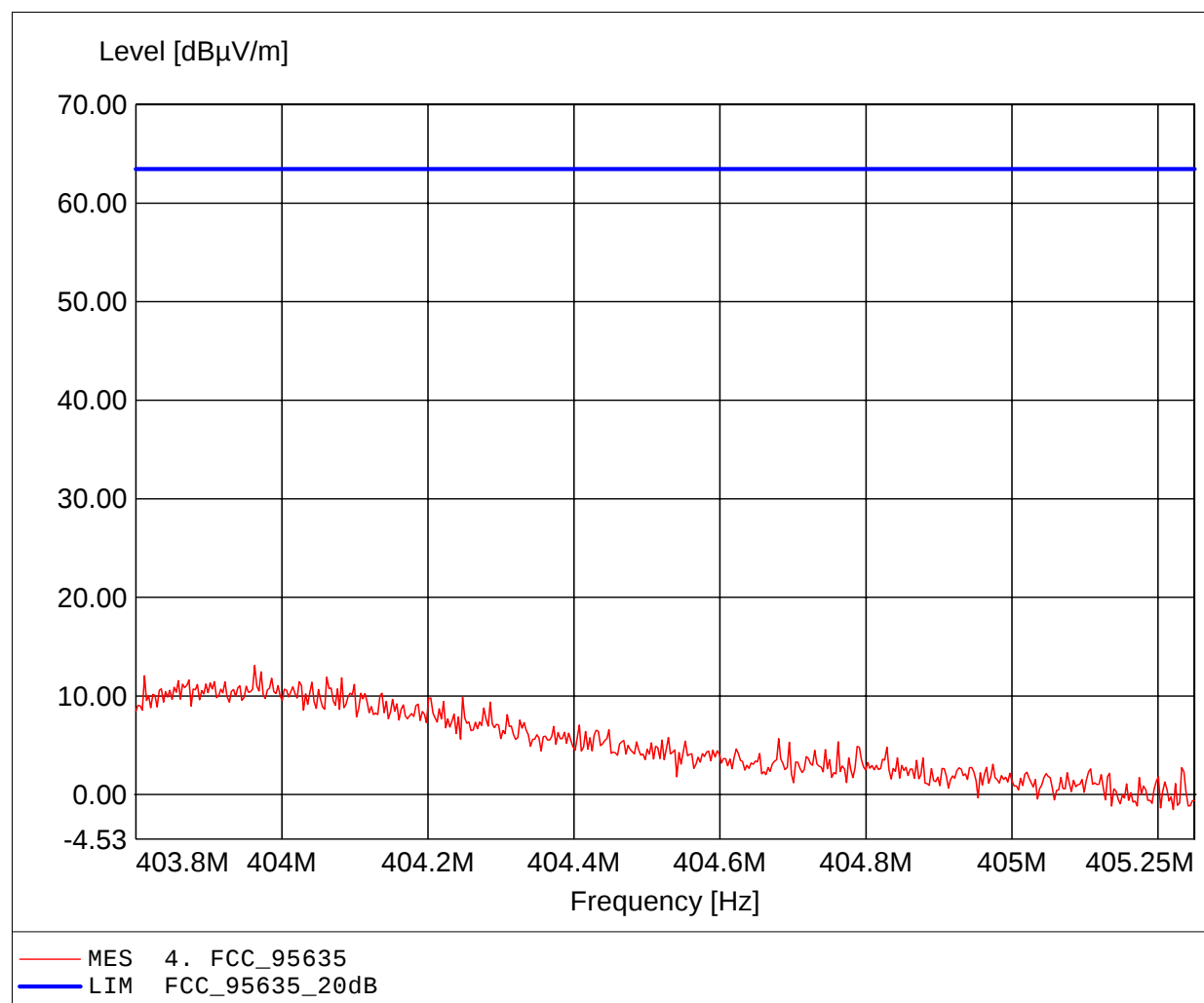
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.992MHz, Emax: 23.76dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

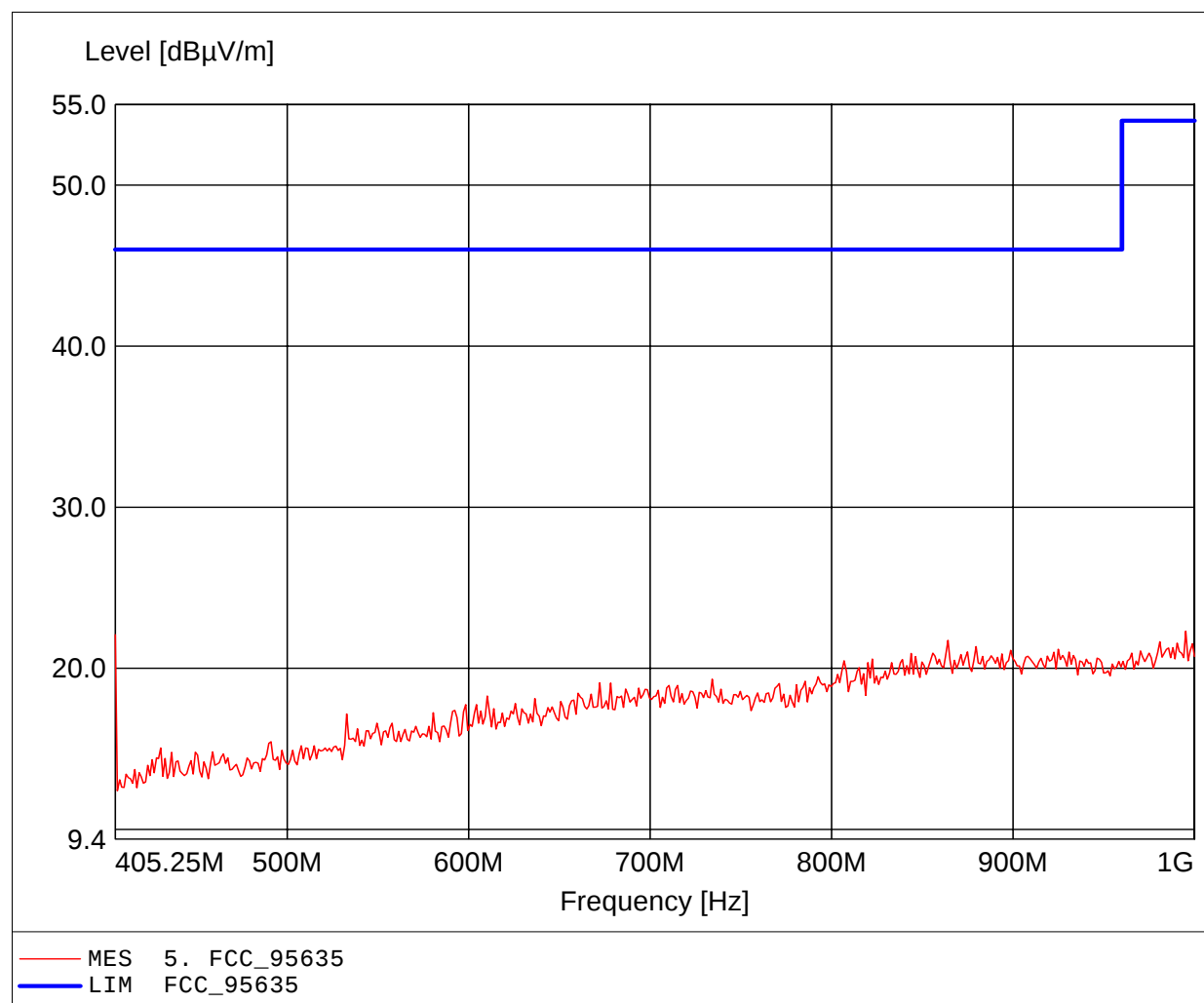
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.963MHz, Emax: 13.09dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

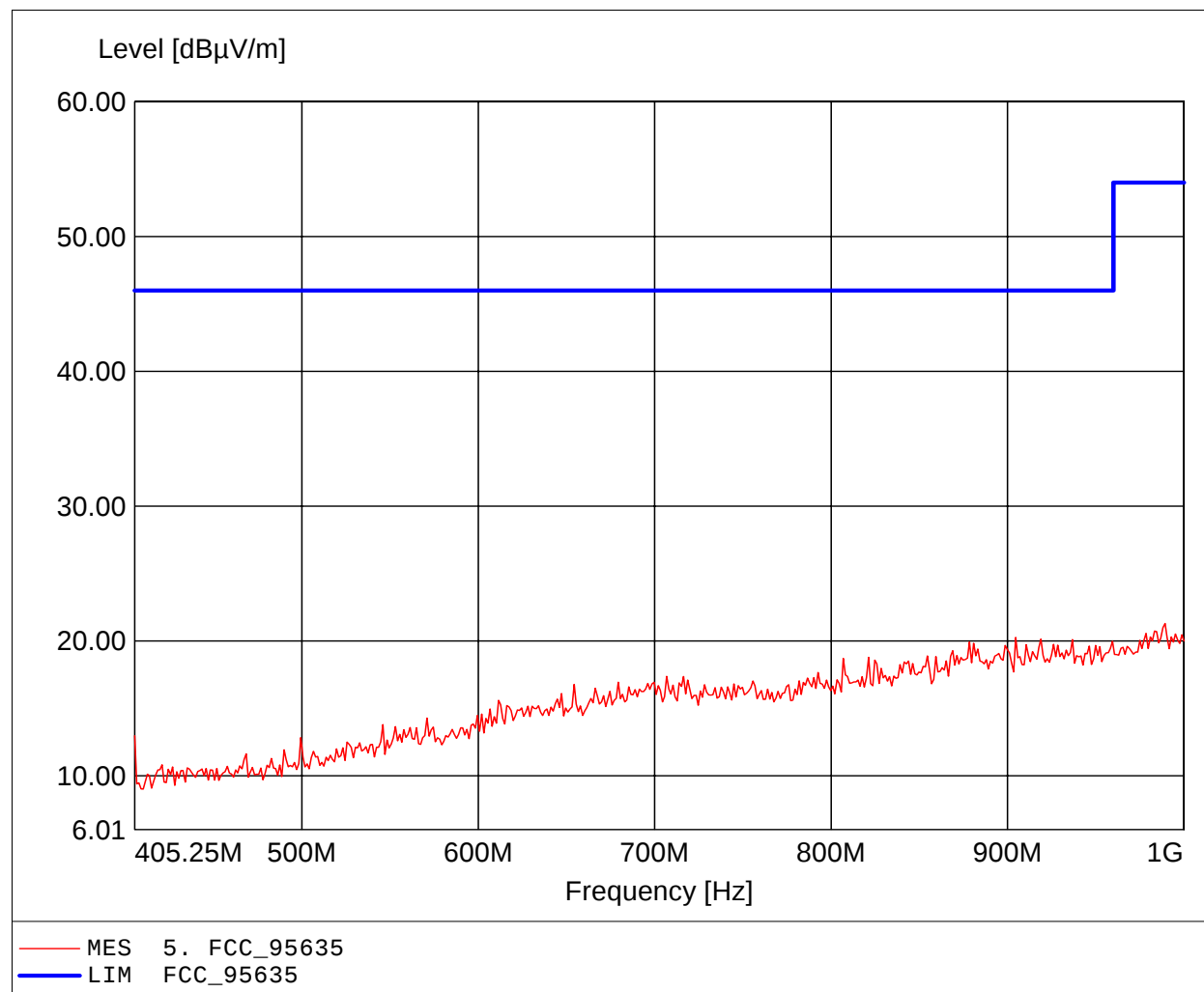
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 995.232MHz, Emax: 22.32dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

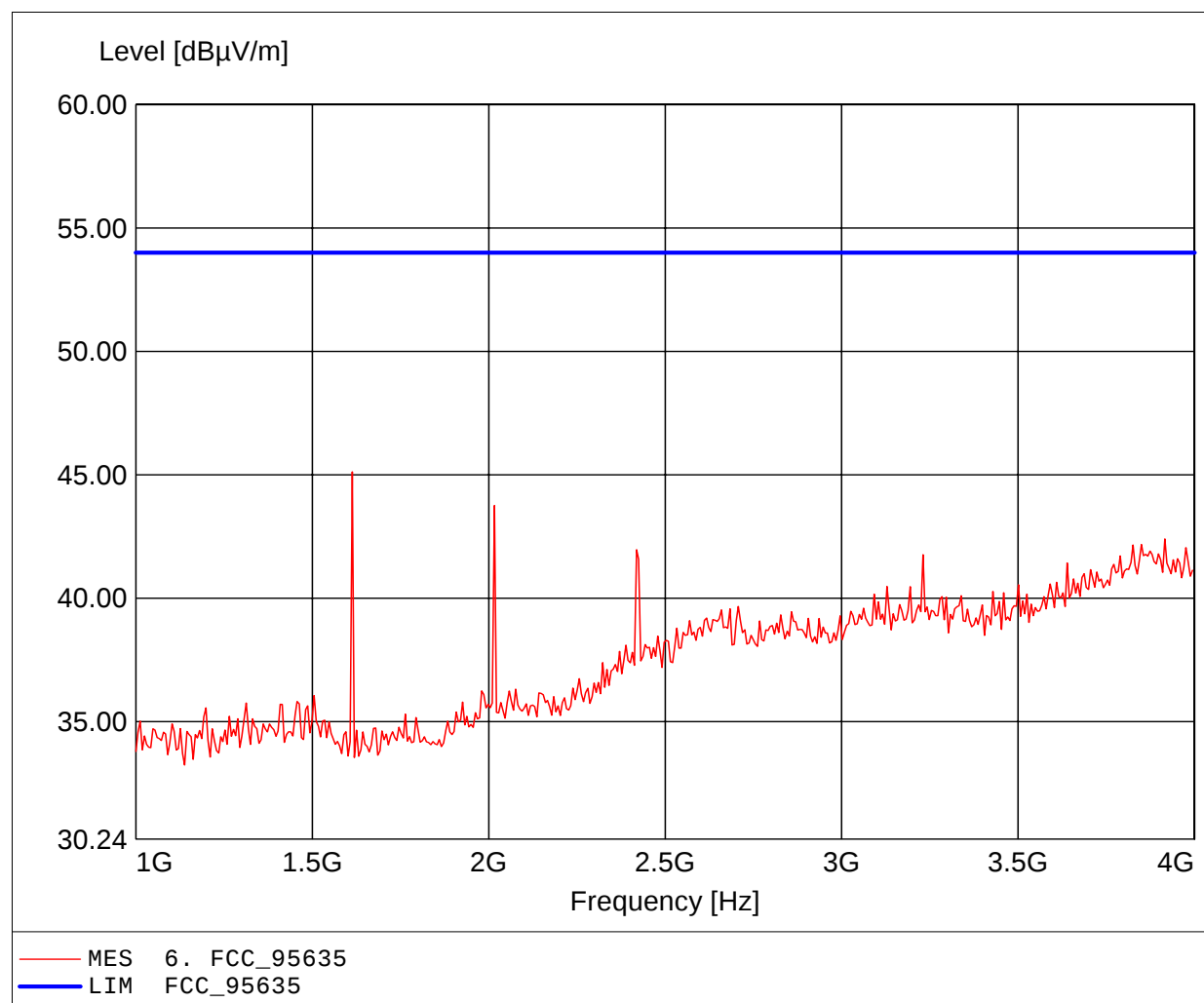
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 989.273MHz, Emax: 21.29dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

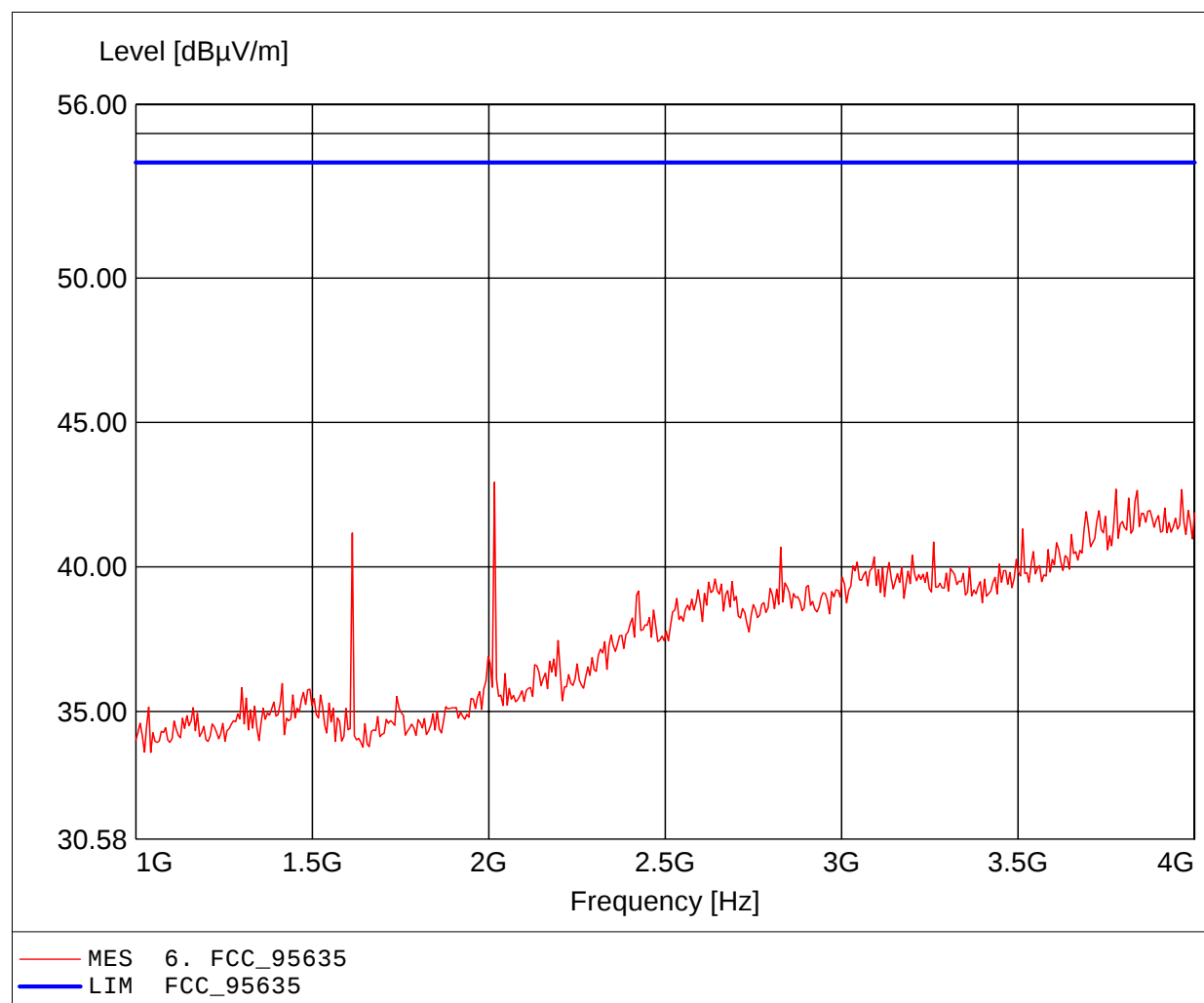
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 1.613GHz, Emax: 45.12dBμV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

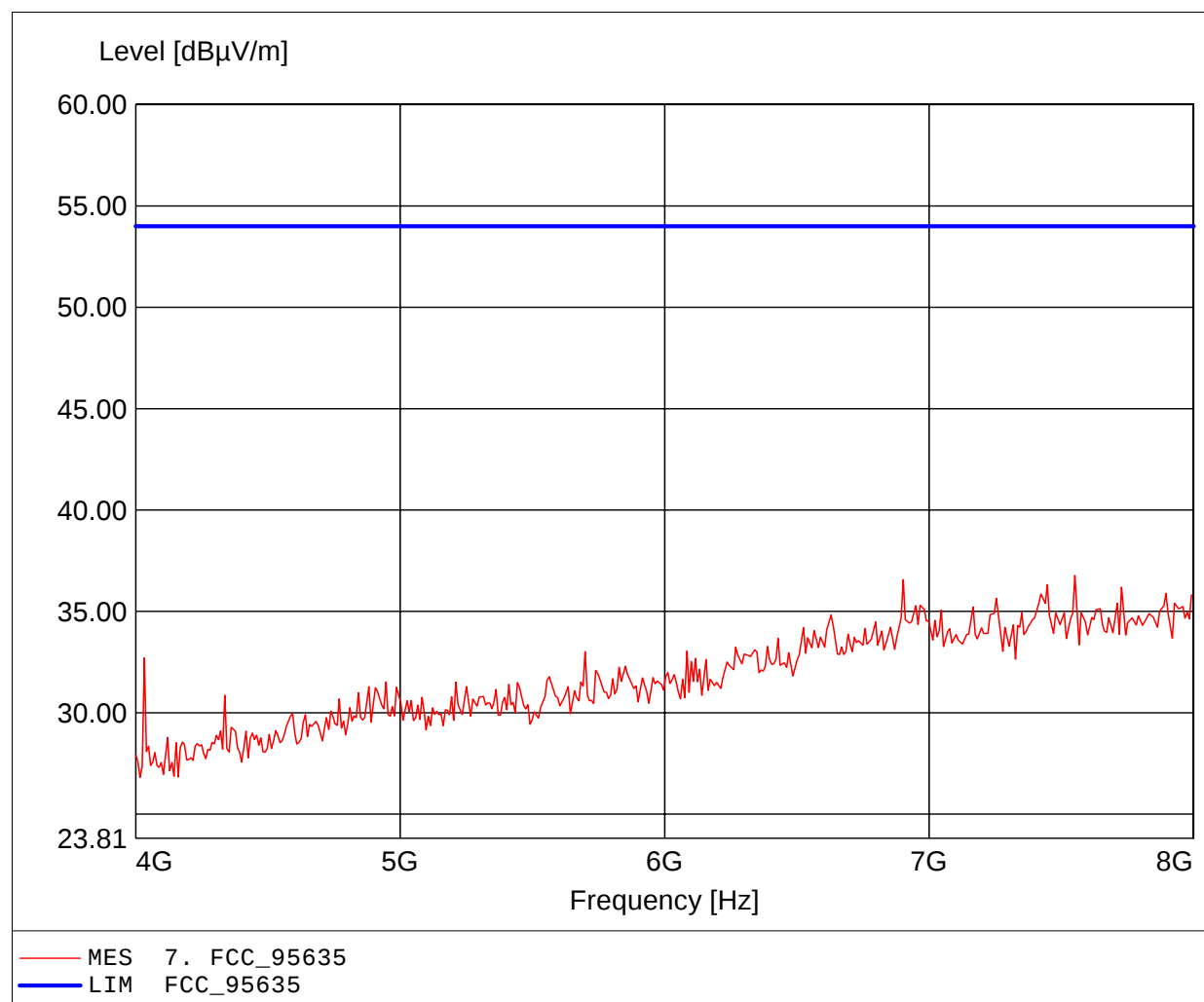
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 2.016GHz, Emax: 42.94dBμV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

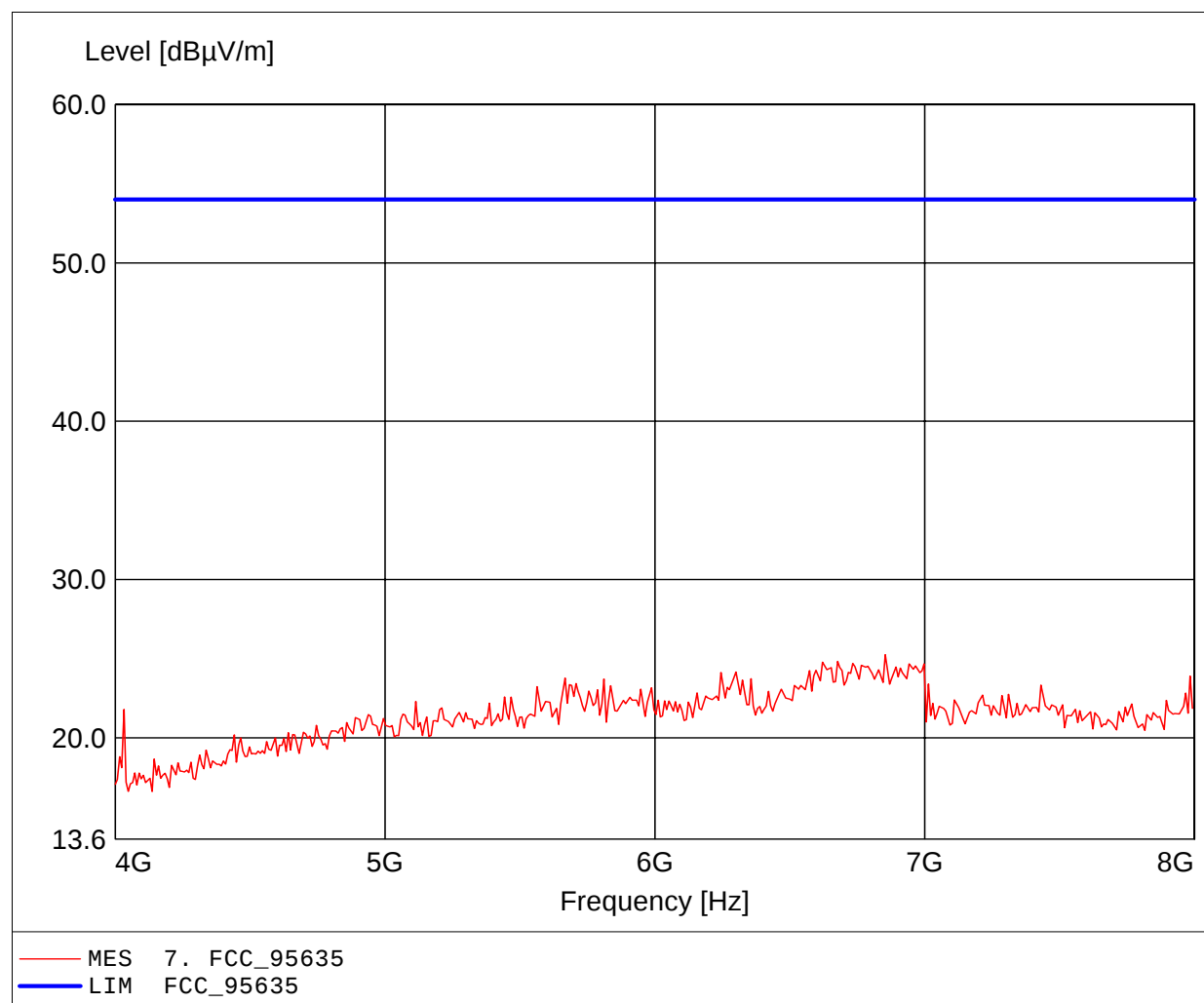
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 7.551GHz, Emax: 36.77dBµV/m, RBW: 1MHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

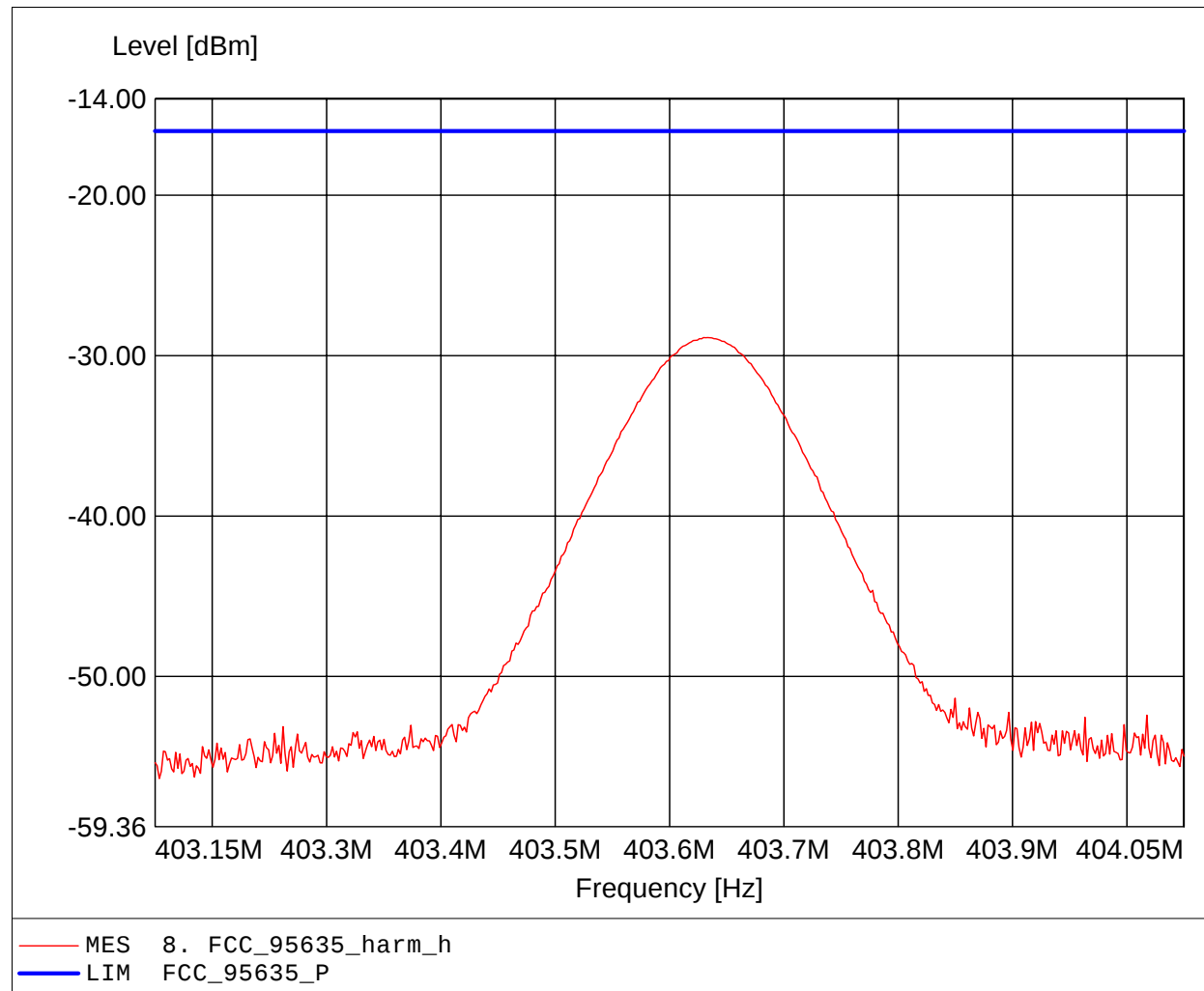
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 6.854GHz, Emax: 25.25dBµV/m, RBW: 1MHz



Carrier power (dBm)

FCC RULES PART 95, SUBPART I

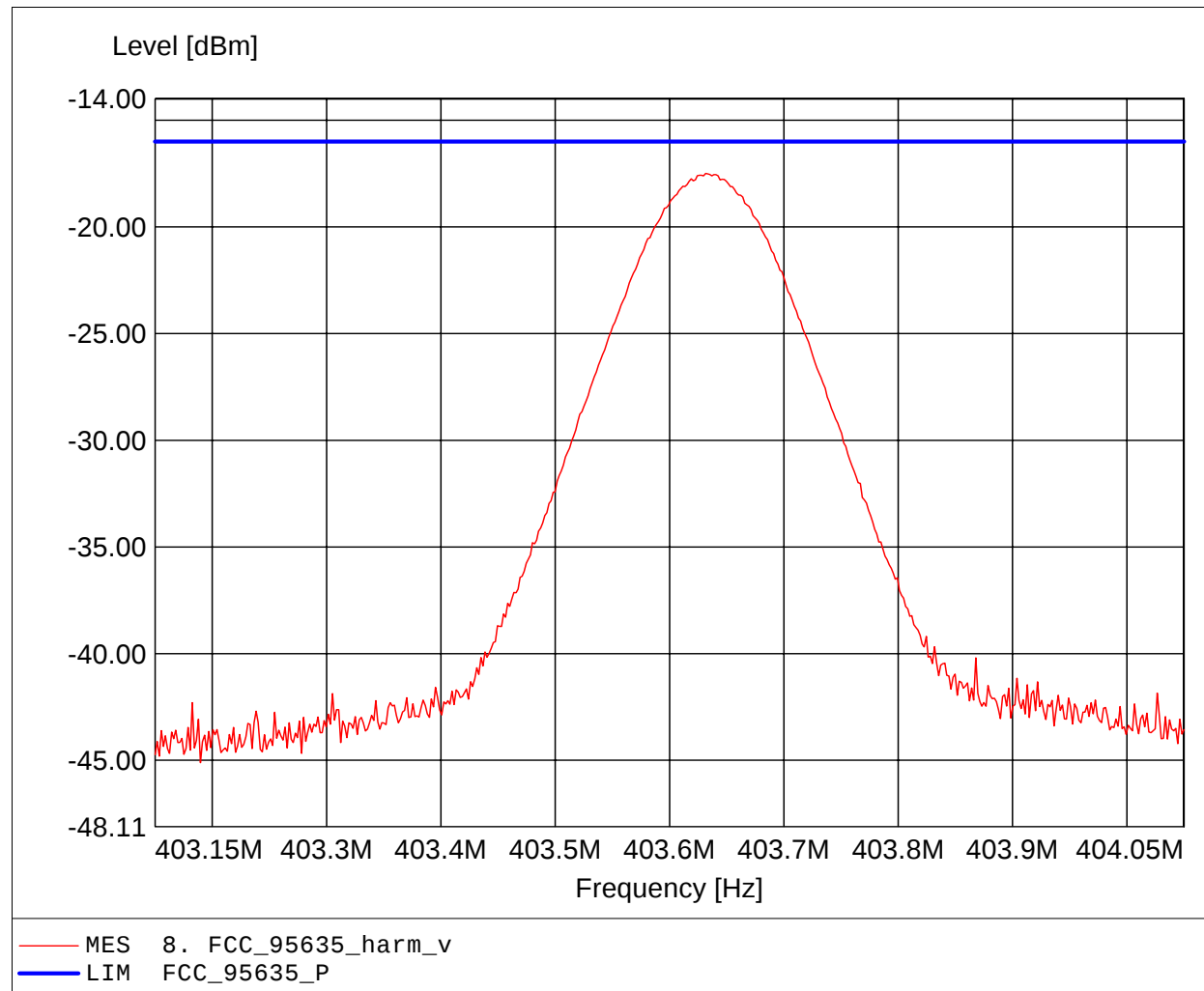
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.639, peak detector
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 403.633MHz, Pmax: -28.87dBm, RBW: 100KHz



Carrier power (dBm)

FCC RULES PART 95, SUBPART I

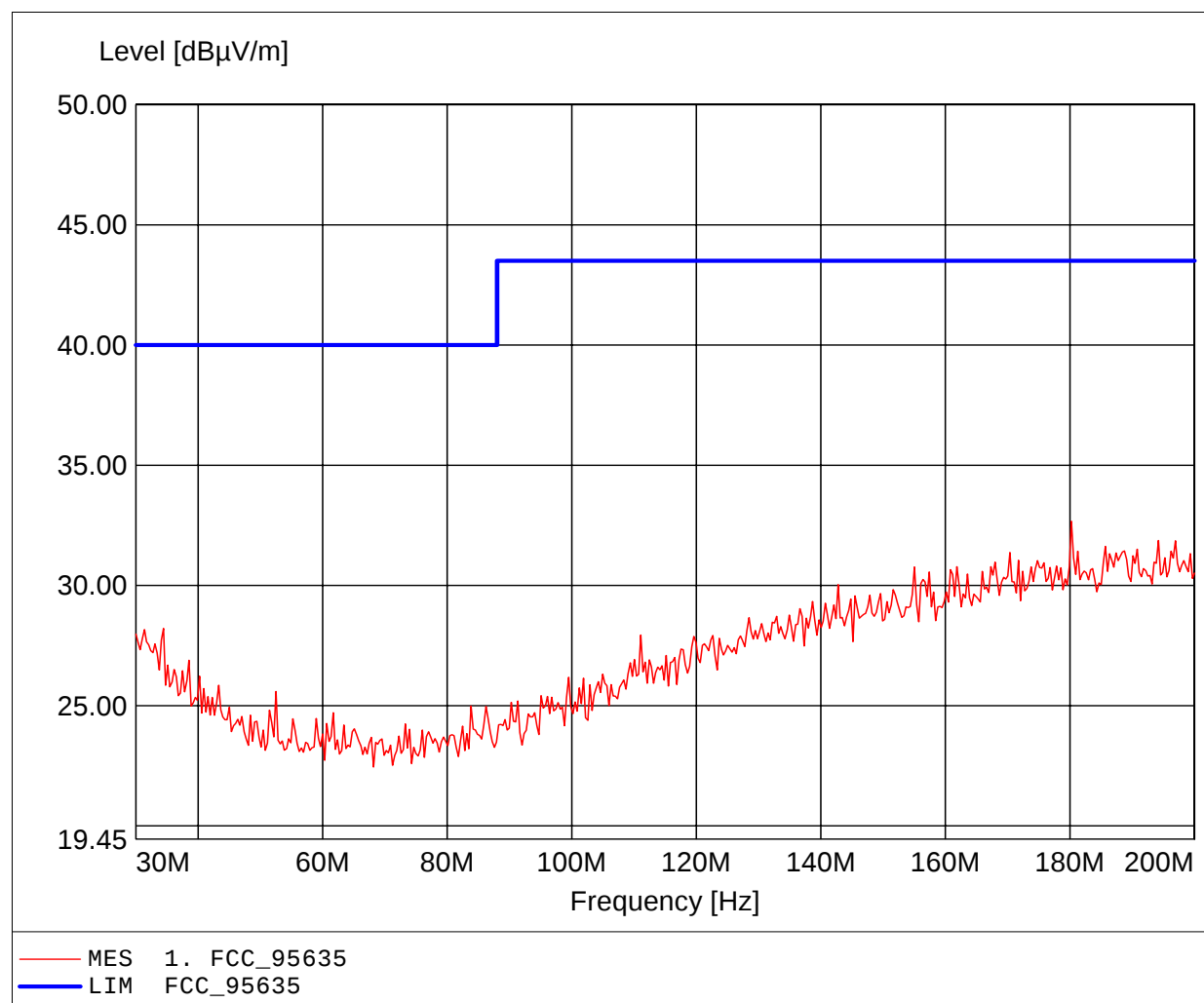
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.639, peak detector
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 403.632MHz, Pmax: -17.50dBm, RBW: 100KHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

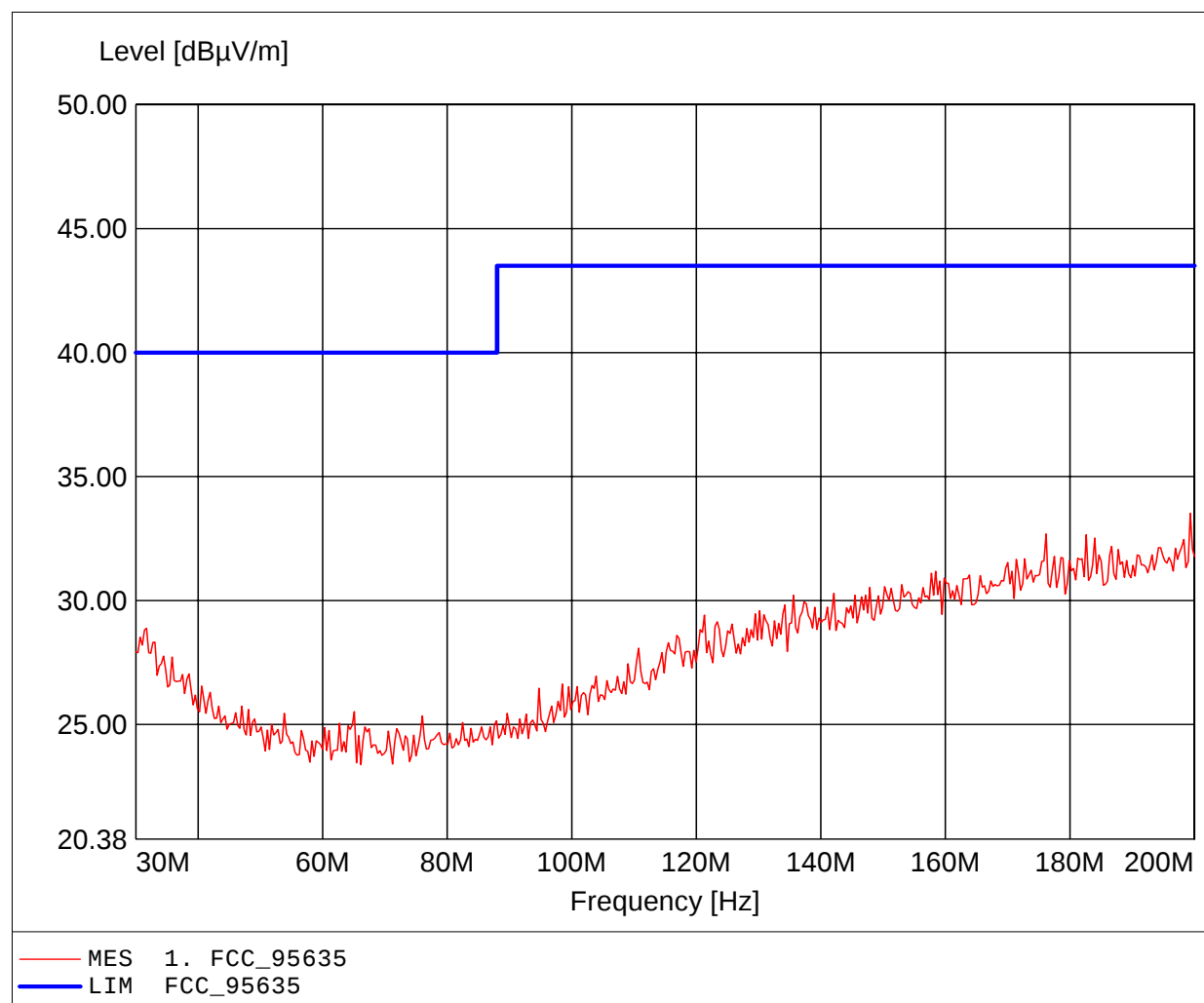
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 180.240MHz, Emax: 32.67dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

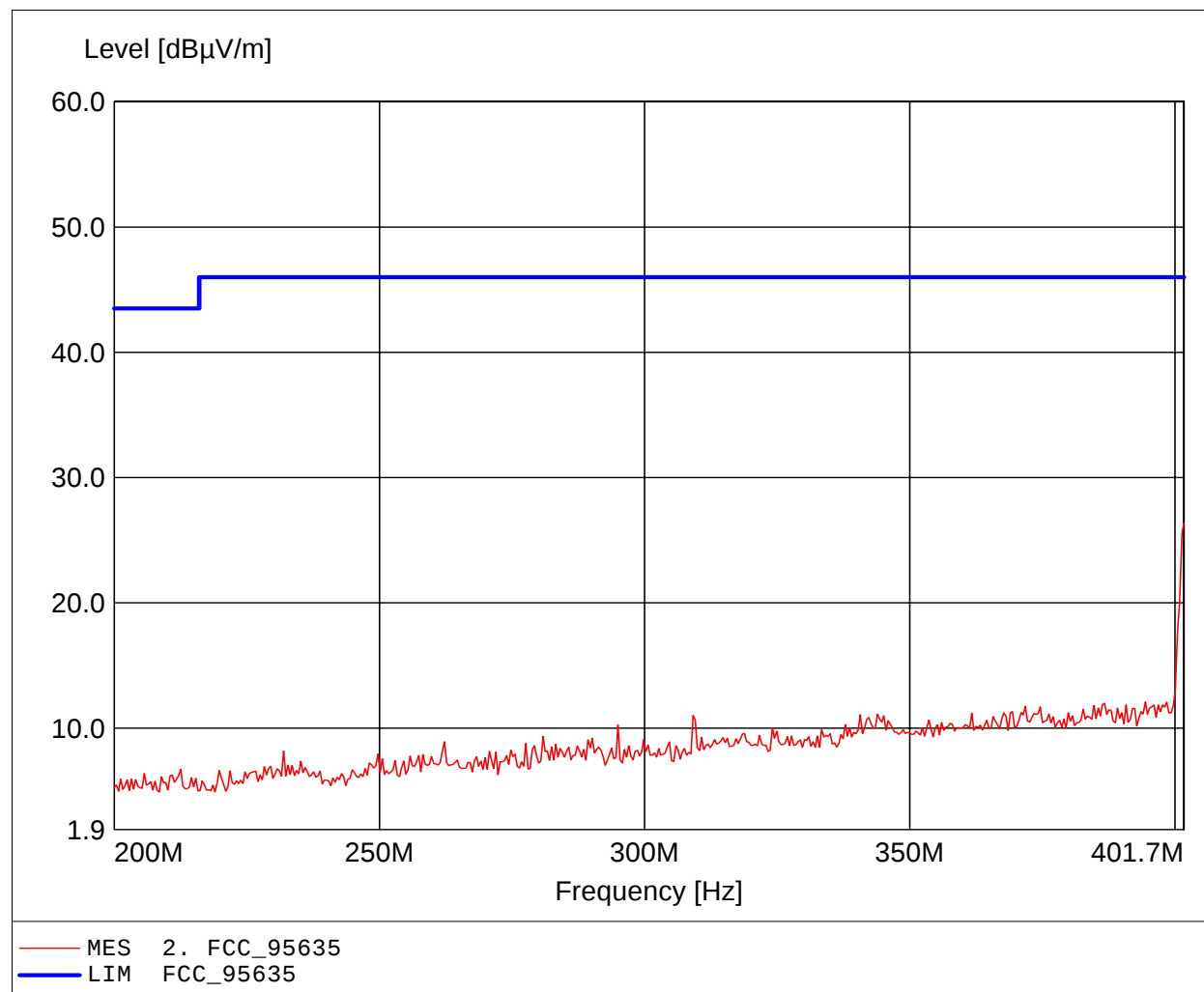
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 199.319MHz, Emax: 33.52dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

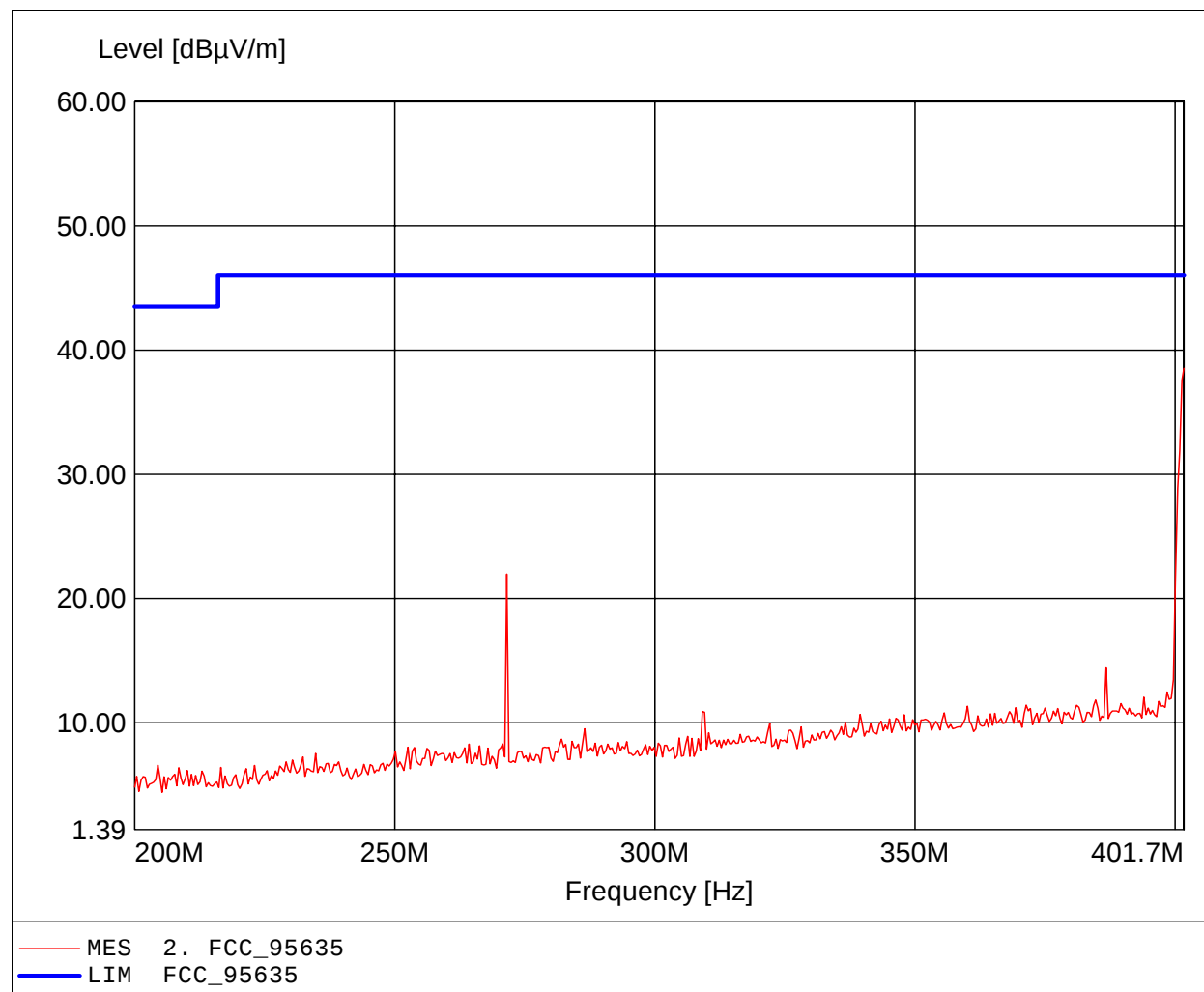
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 401.700MHz, Emax: 26.39dBμV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

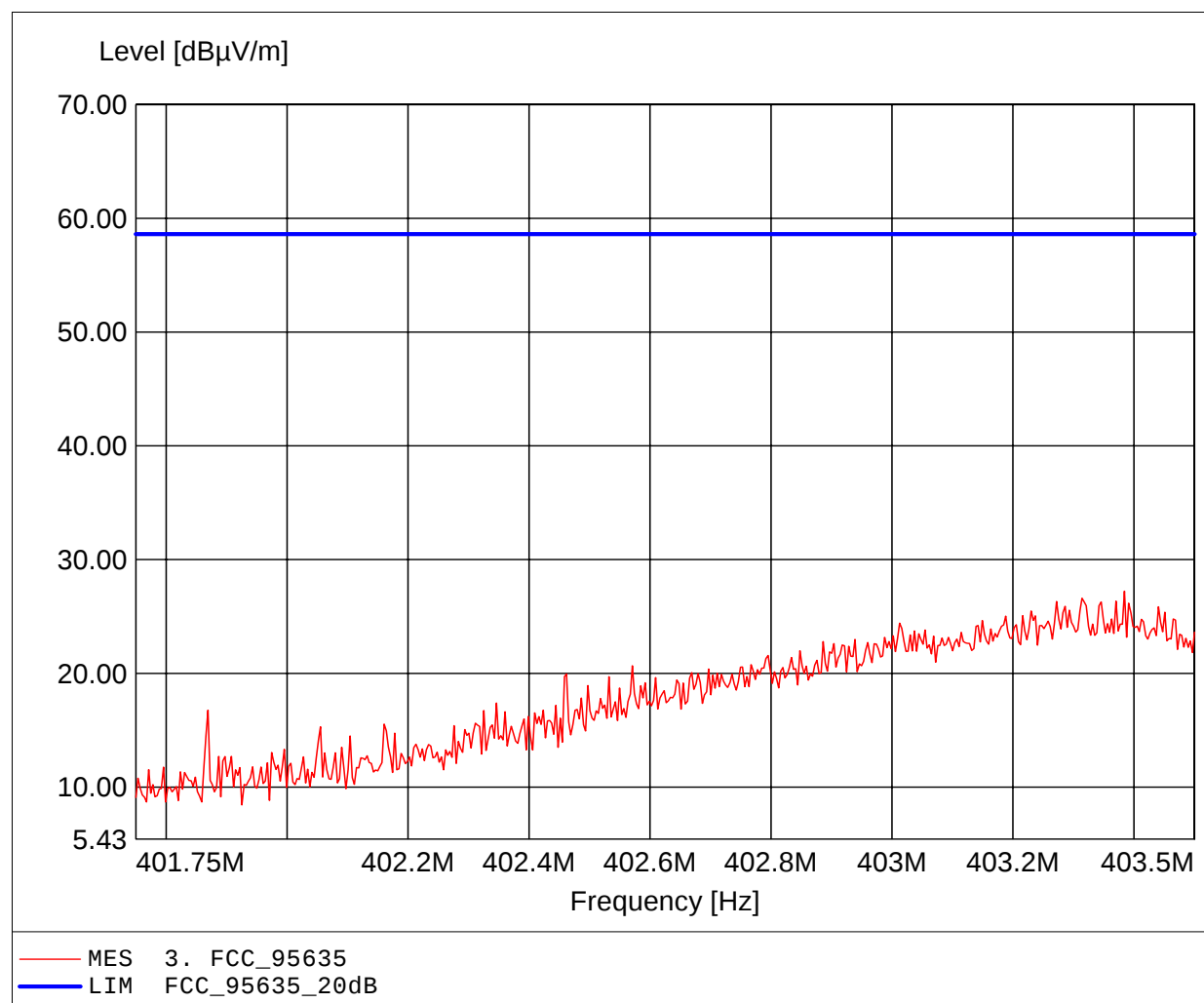
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 401.700MHz, Emax: 38.54dBμV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

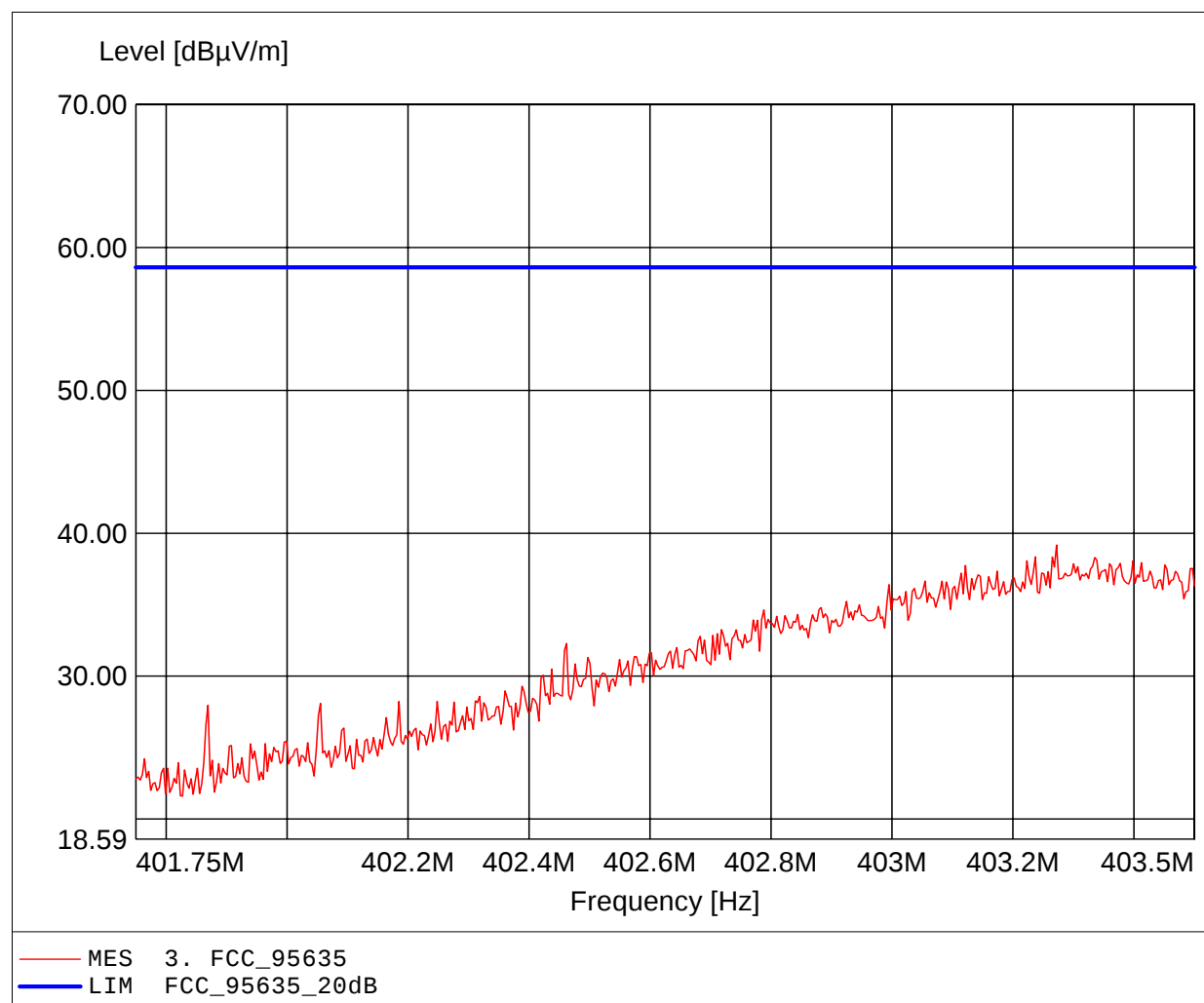
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.384MHz, Emax: 27.22dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

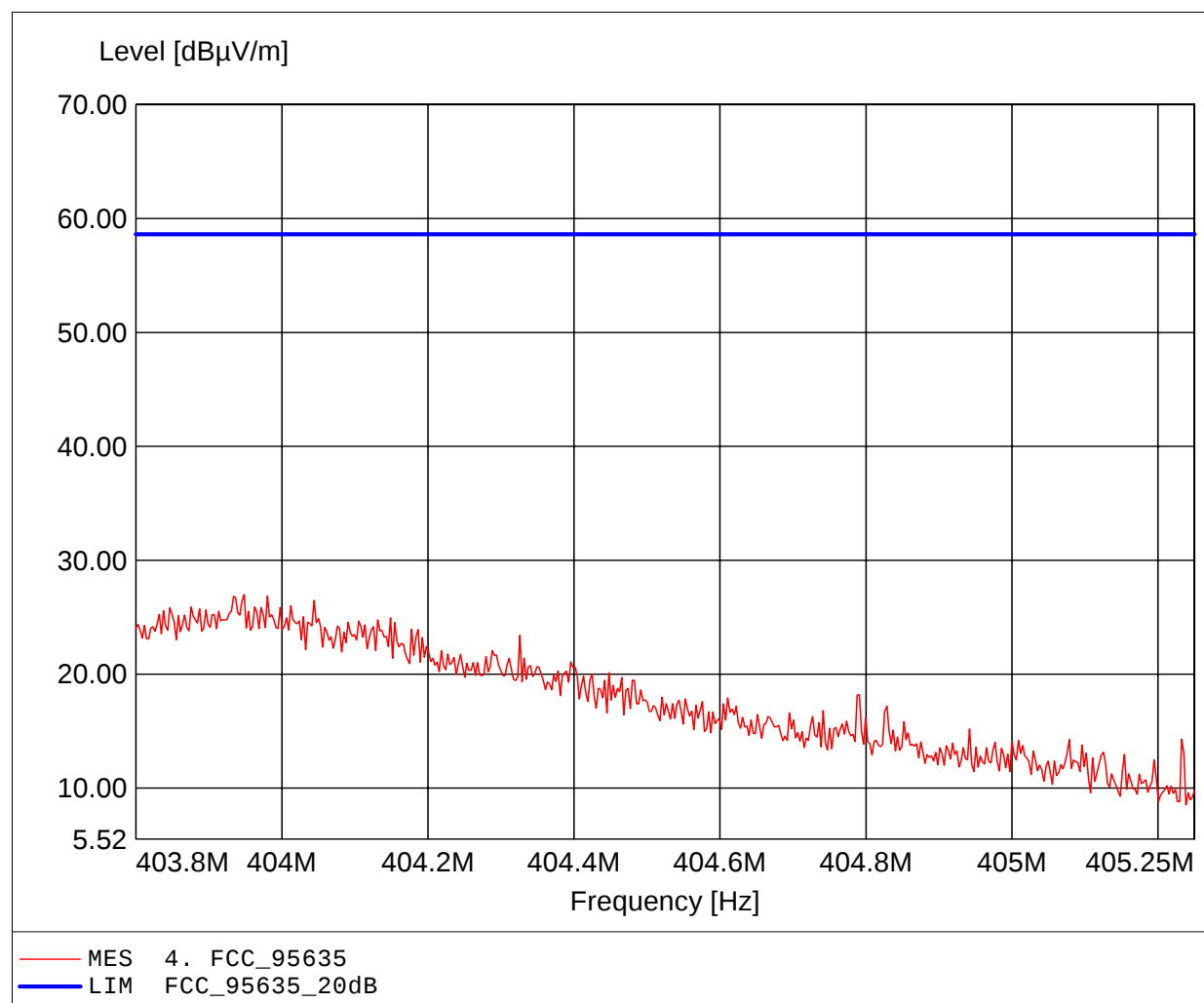
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.272MHz, Emax: 39.17dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

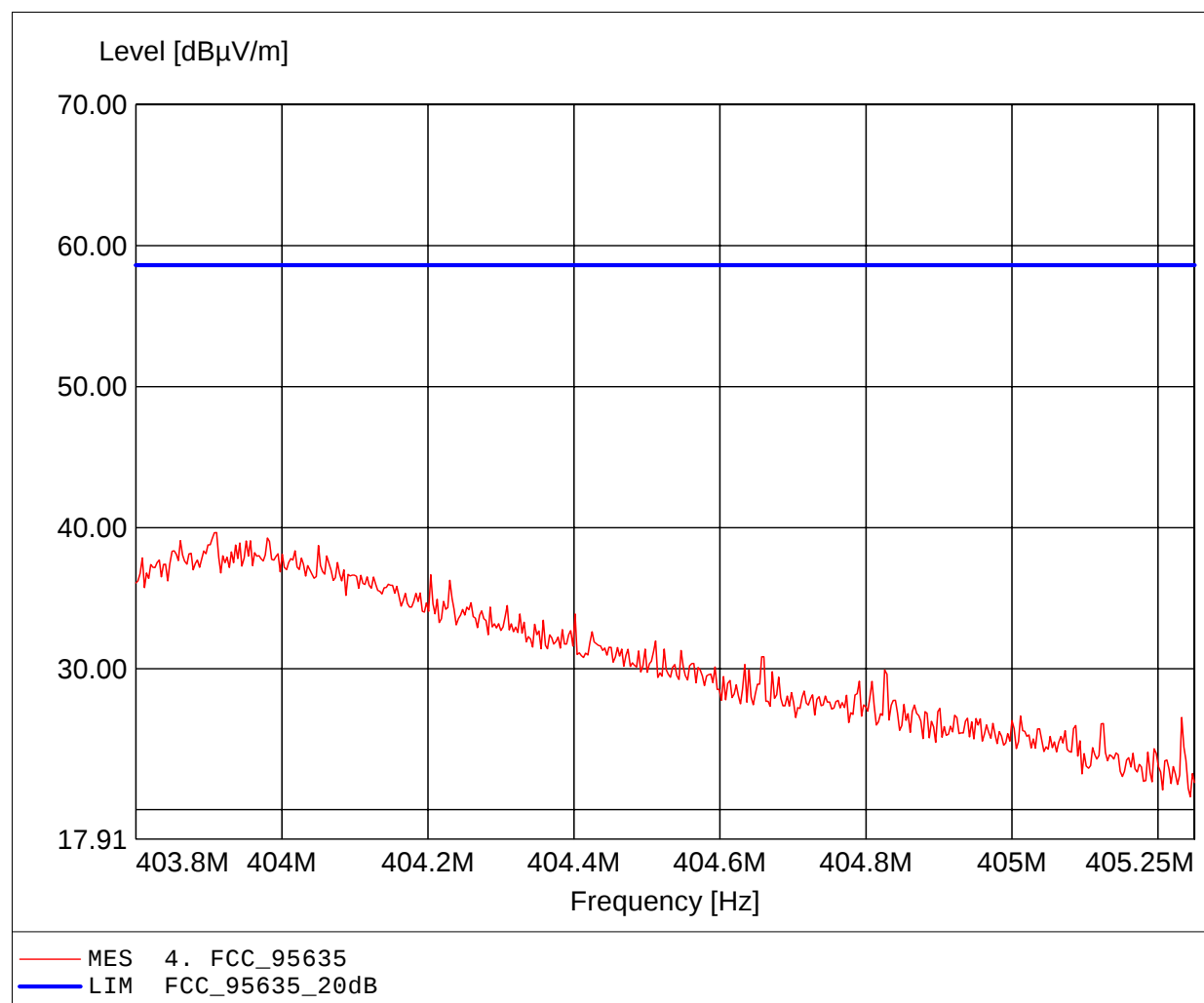
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.948MHz, Emax: 27.00dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

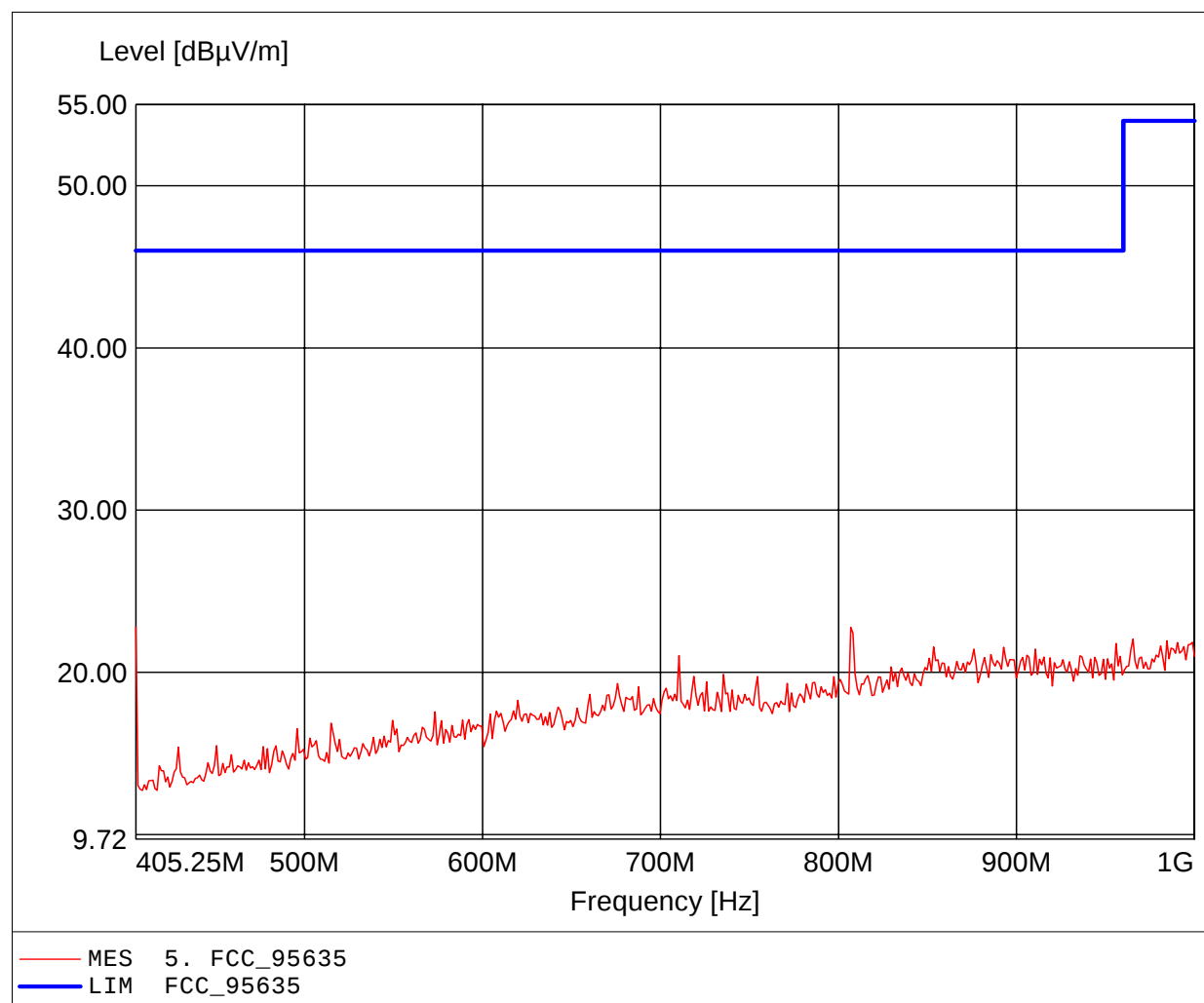
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.910MHz, Emax: 39.65dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

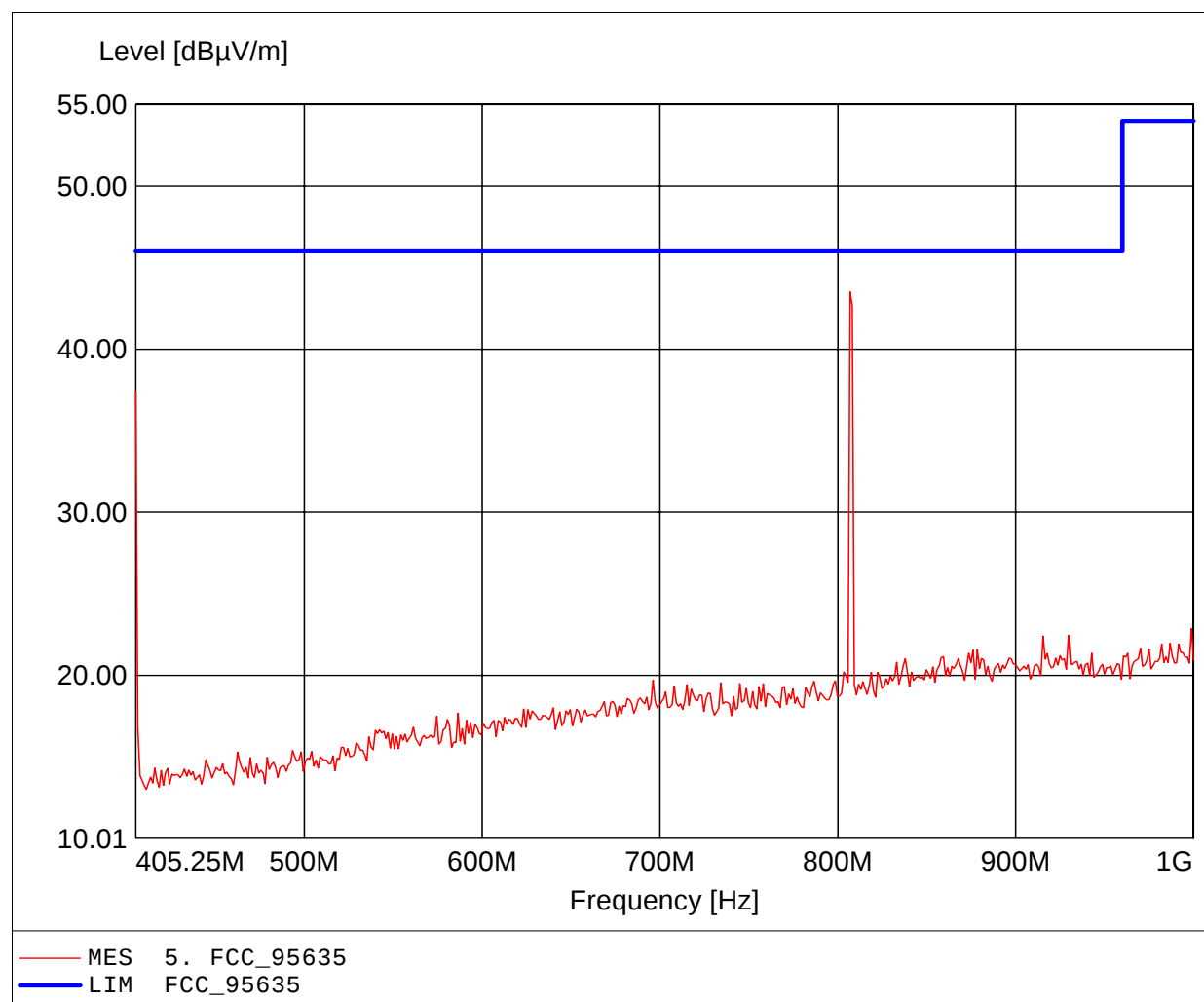
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 405.250MHz, Emax: 22.79dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

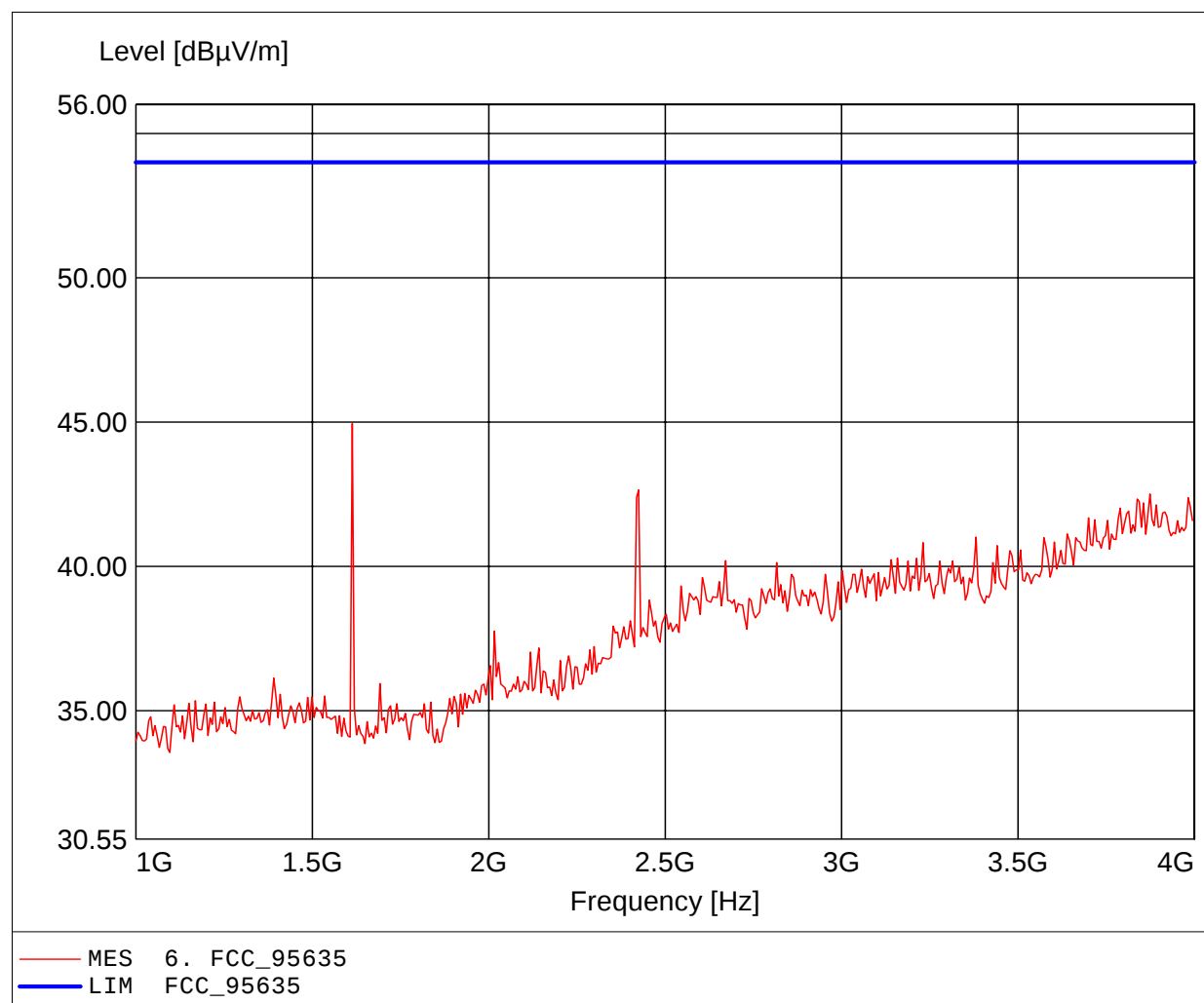
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 806.915MHz, Emax: 43.51dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

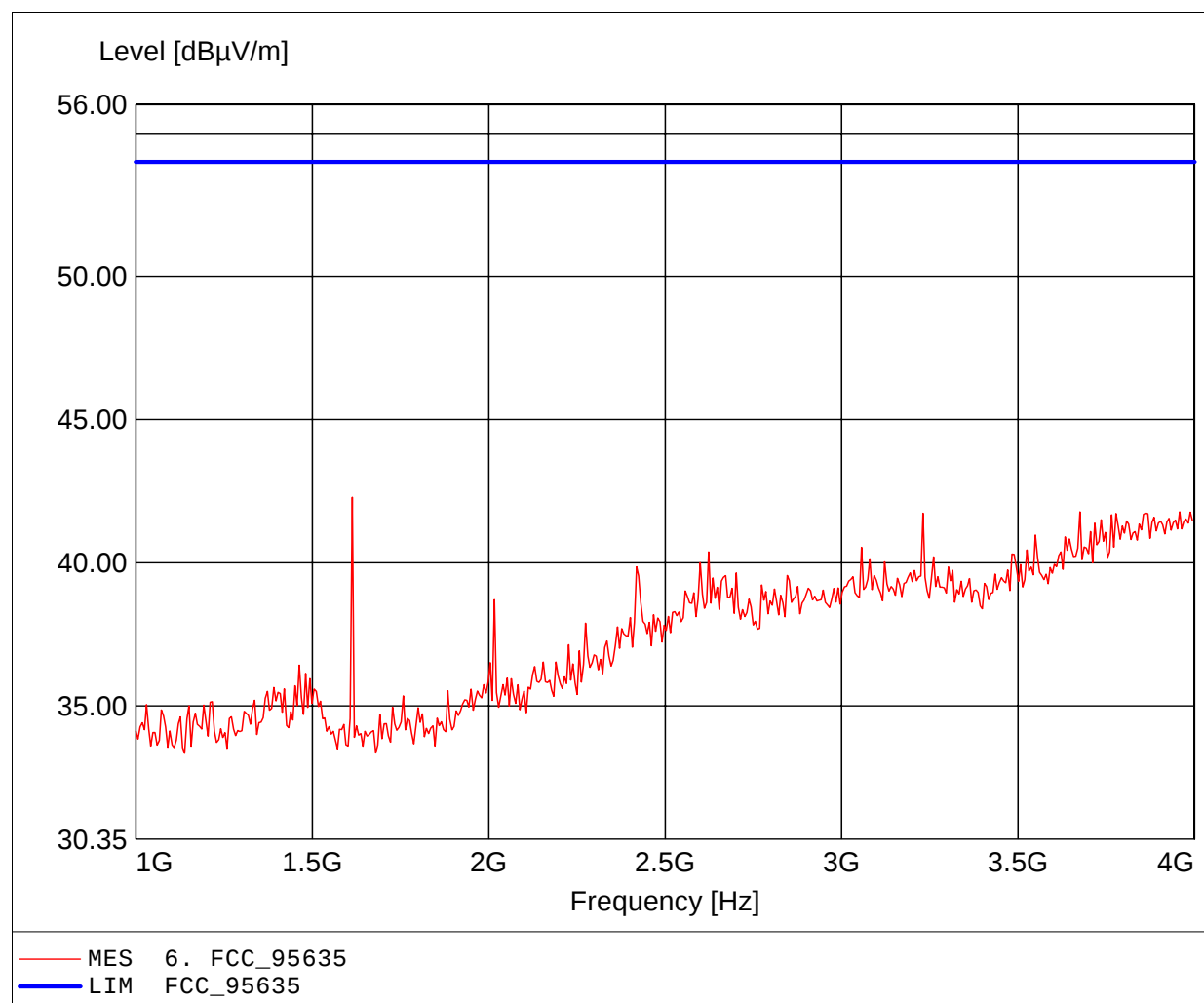
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 1.613GHz, Emax: 44.95dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

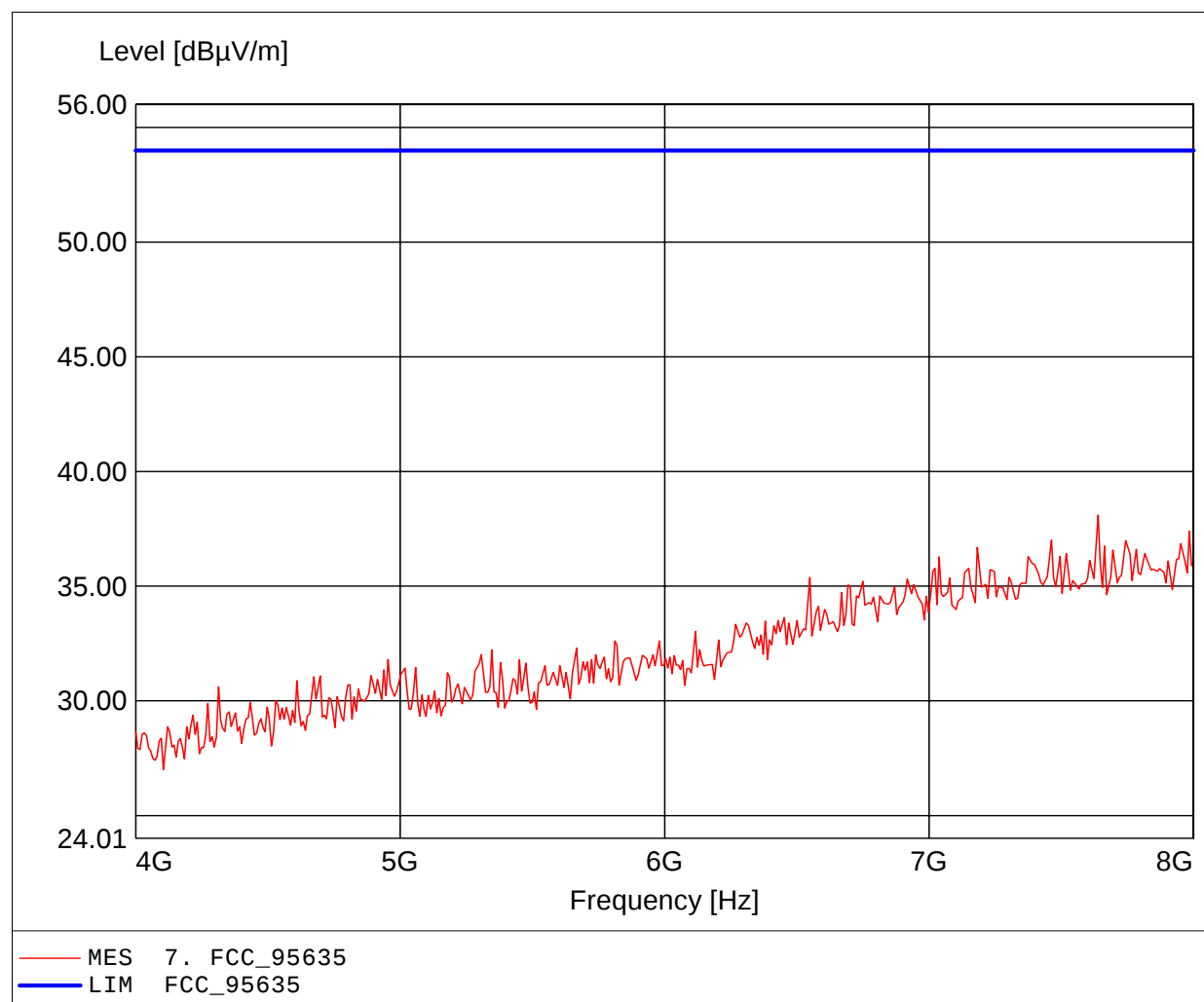
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 1.613GHz, Emax: 42.29dBµV/m, RBW: 100kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

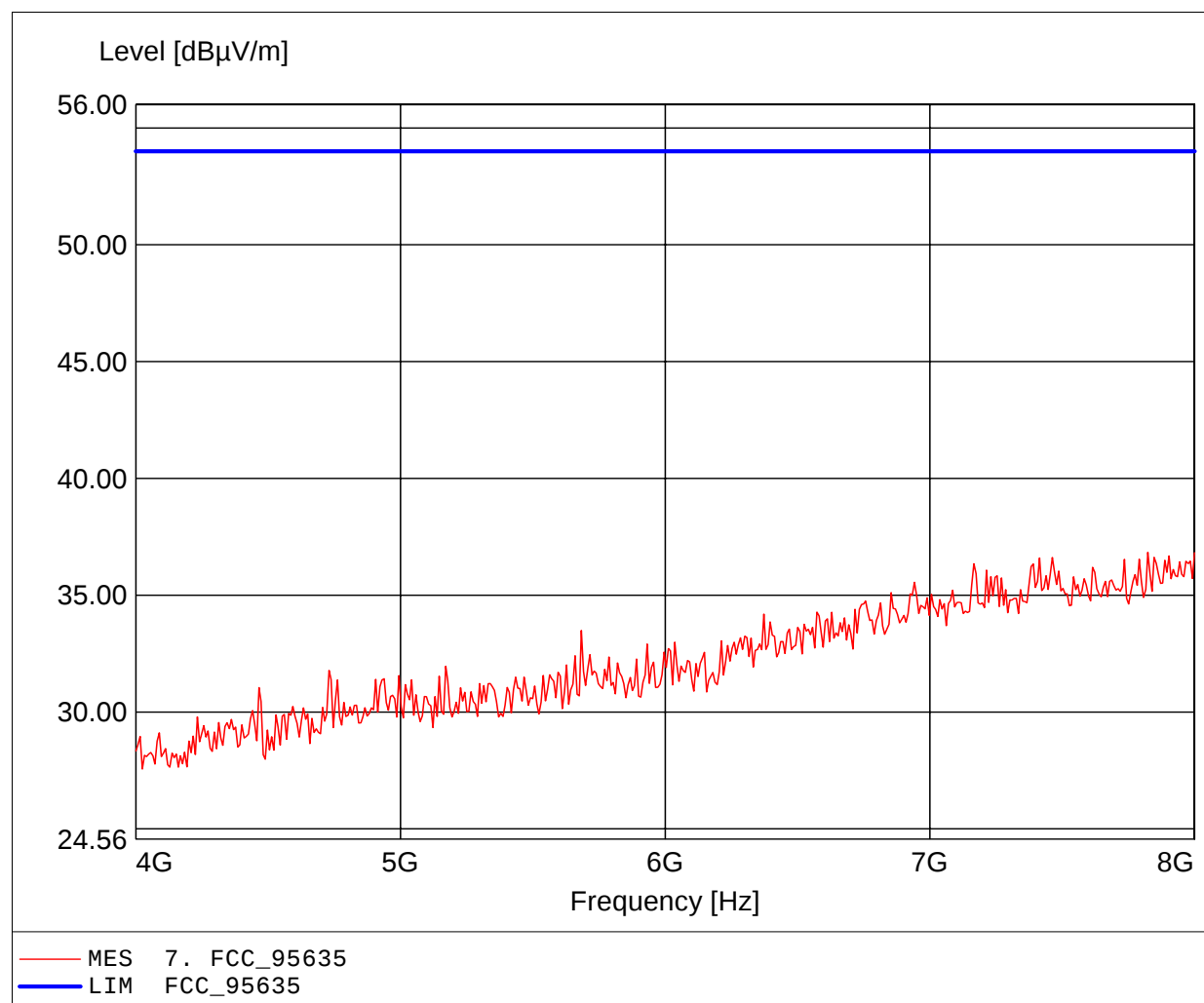
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 7.639GHz, Emax: 38.09dBµV/m, RBW: 1MHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 7.824GHz, Emax: 36.83dBμV/m, RBW: 1MHz



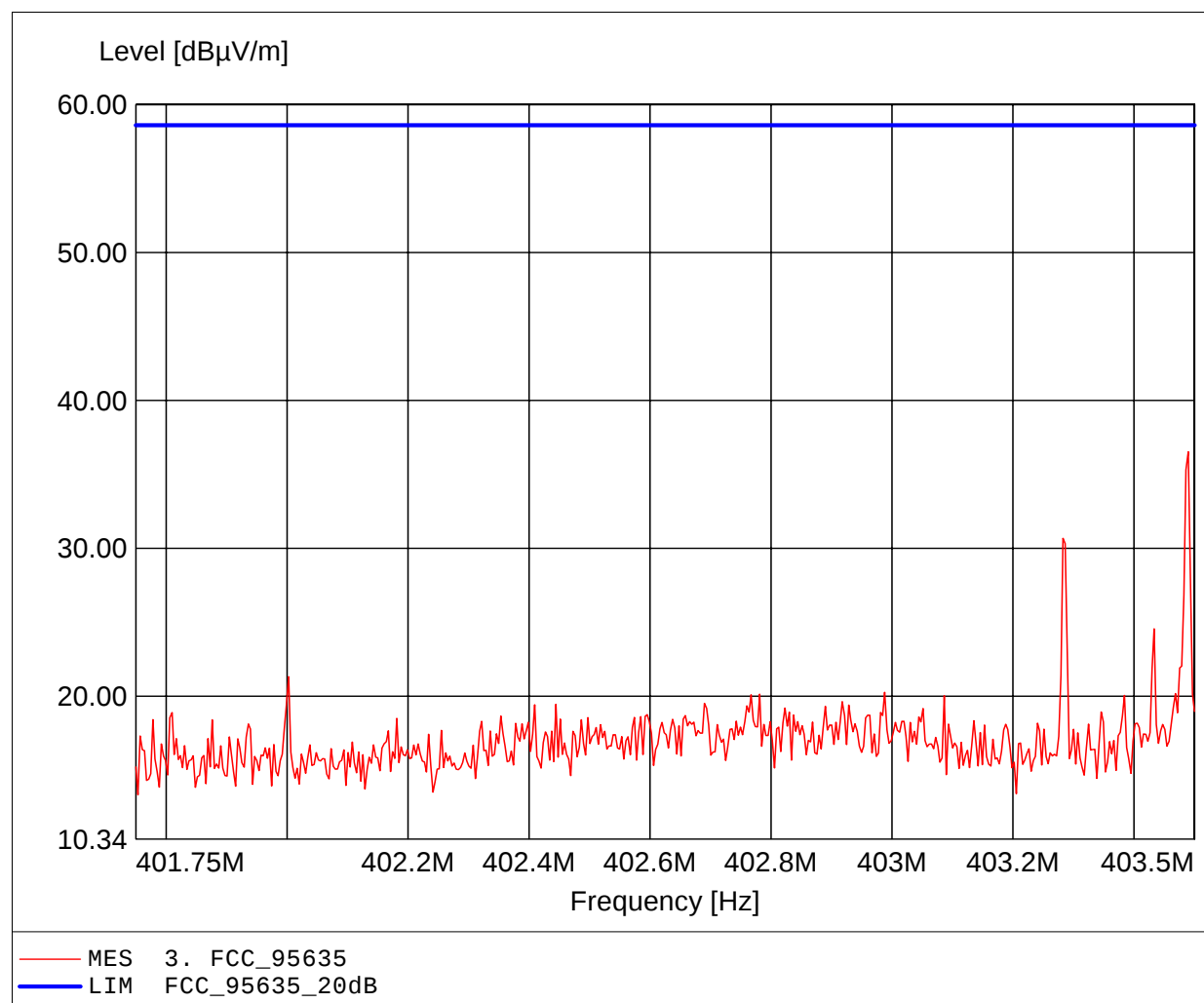
Annex

Measurement diagrams FCC RULES §95.635 (d) (4) “In-Band Emissions”

Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

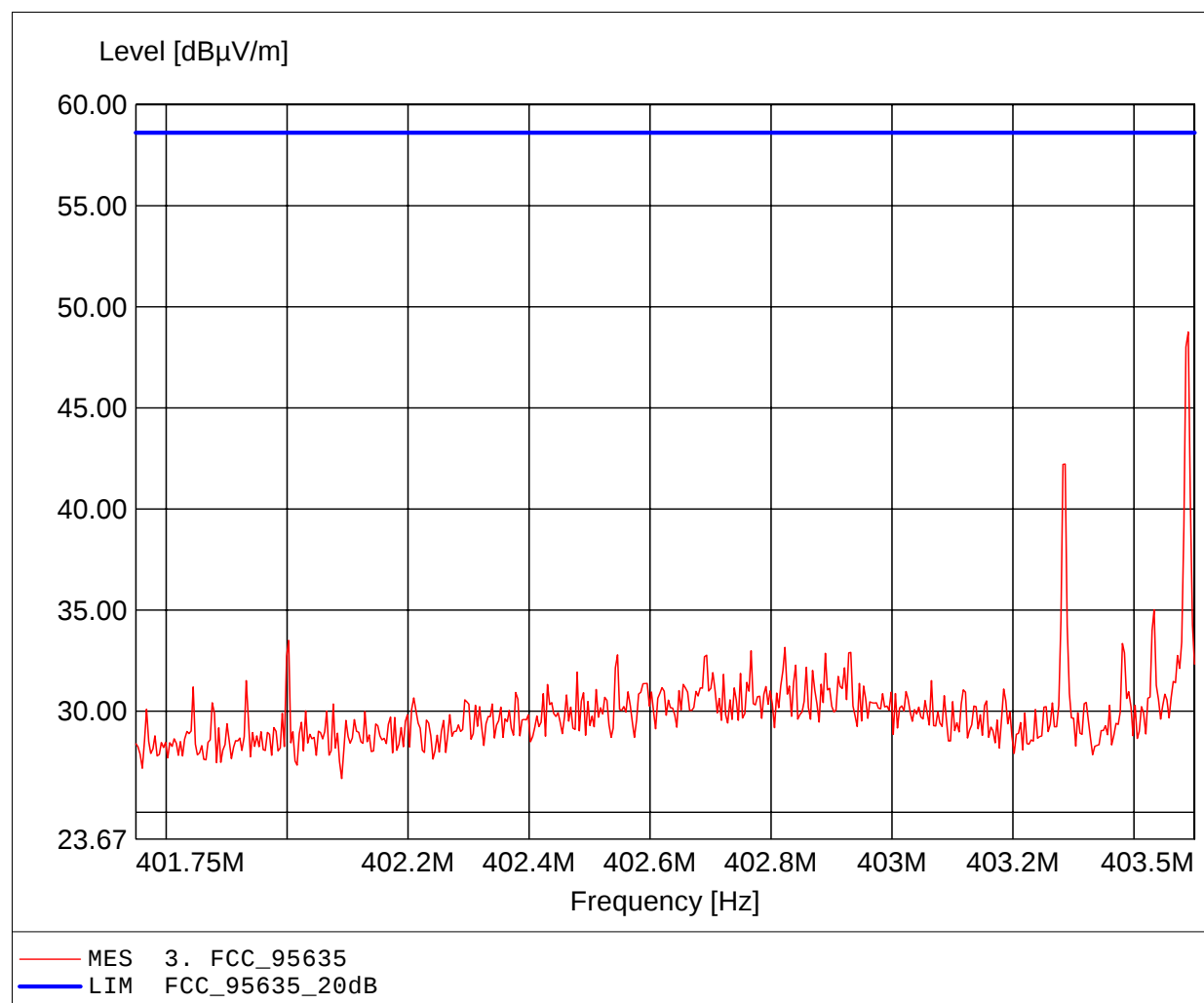
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d) (4), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.489MHz, Emax: 36.54dBμV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

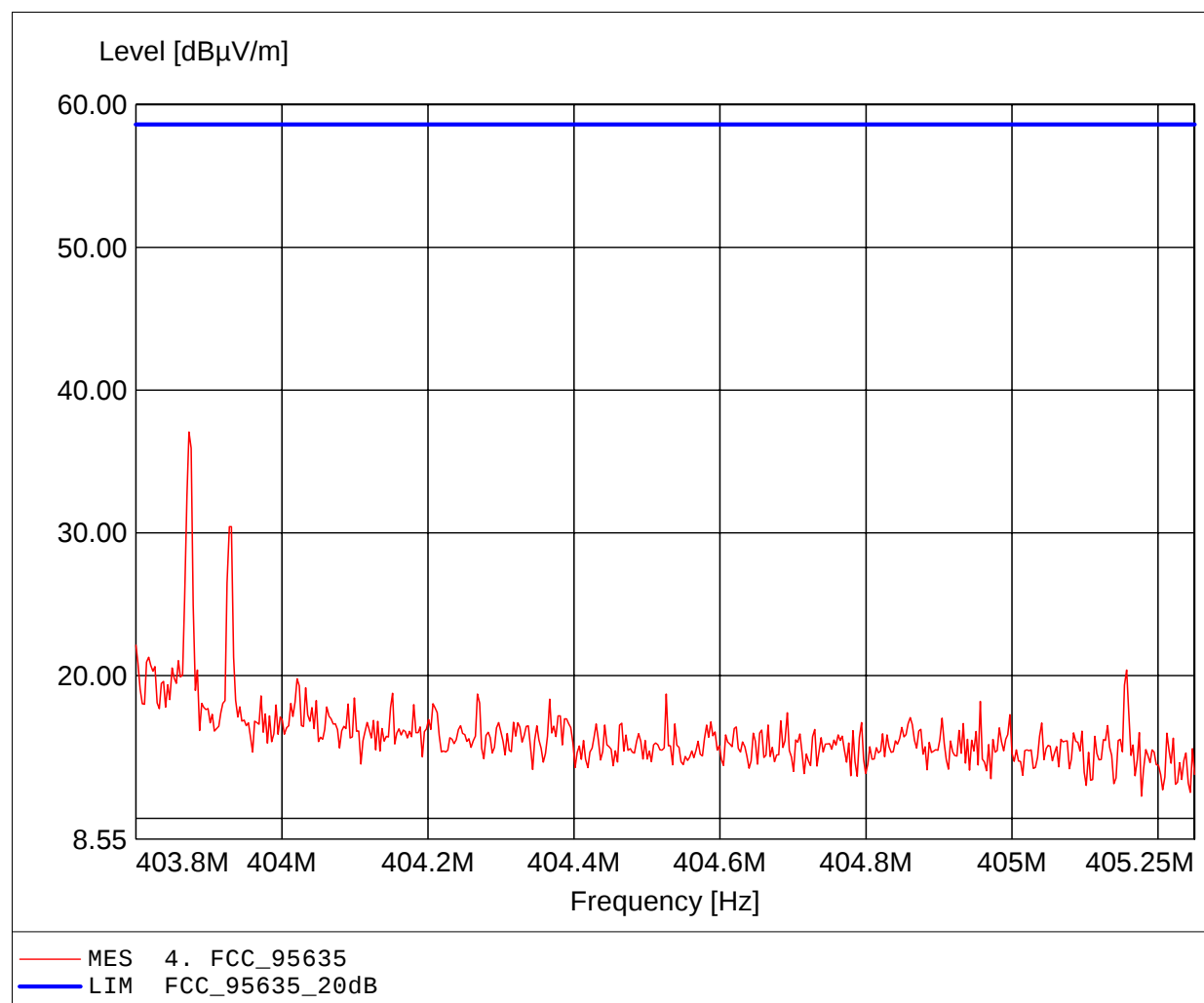
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d) (4), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.489MHz, Emax: 48.75dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

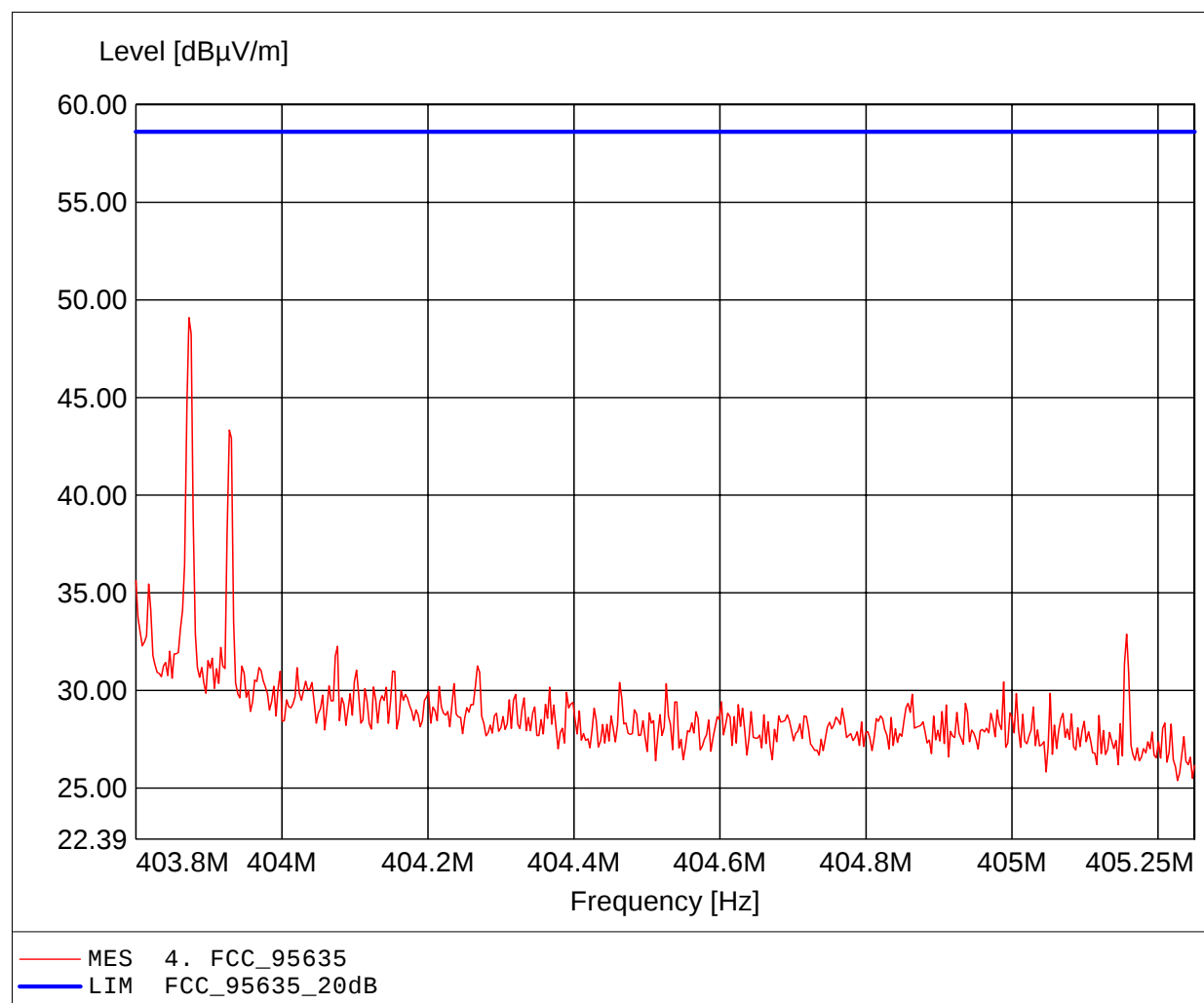
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d) (4), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.873MHz, Emax: 37.08dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

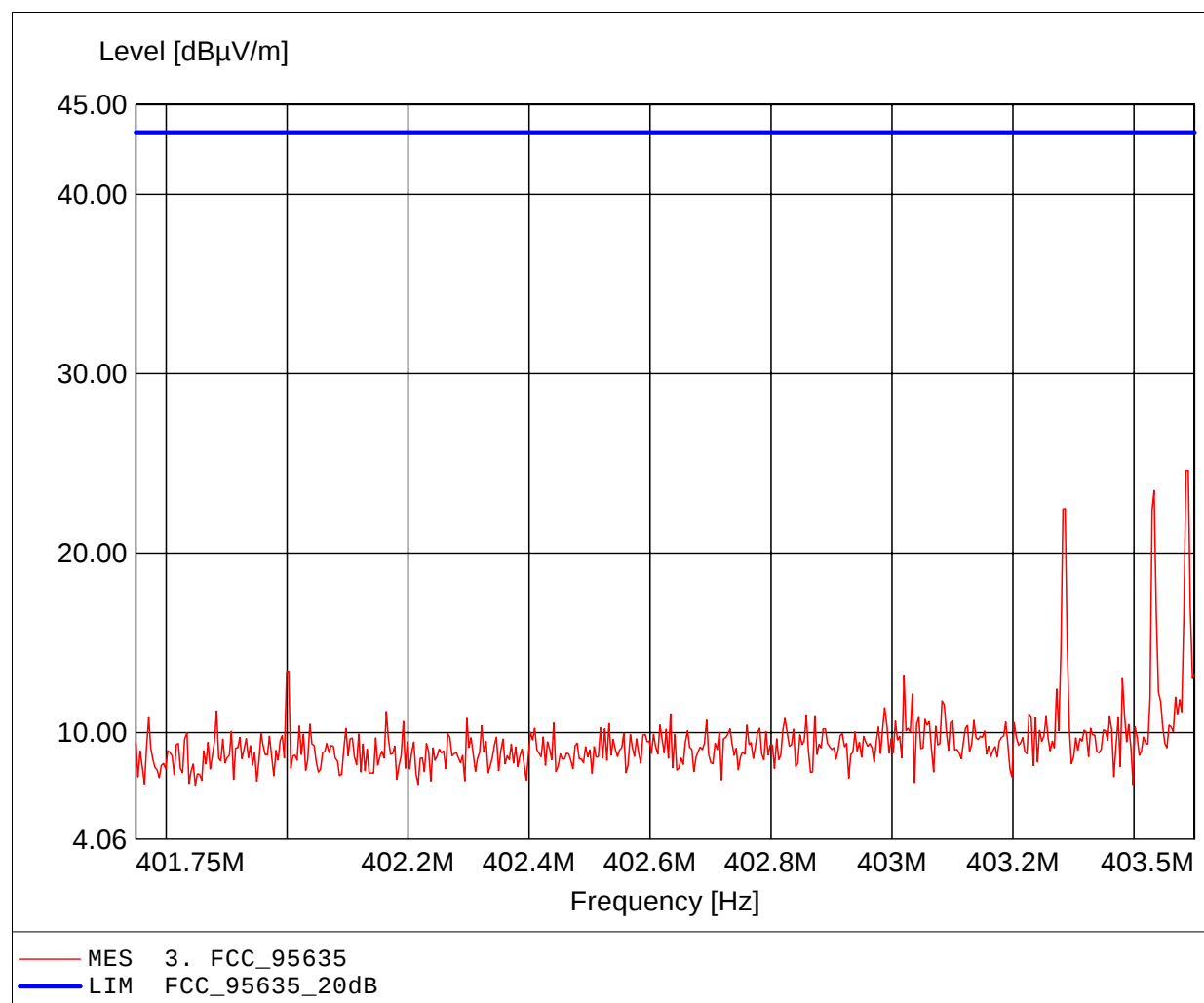
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (top), Ch.: 0
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d) (4), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.873MHz, Emax: 49.09dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

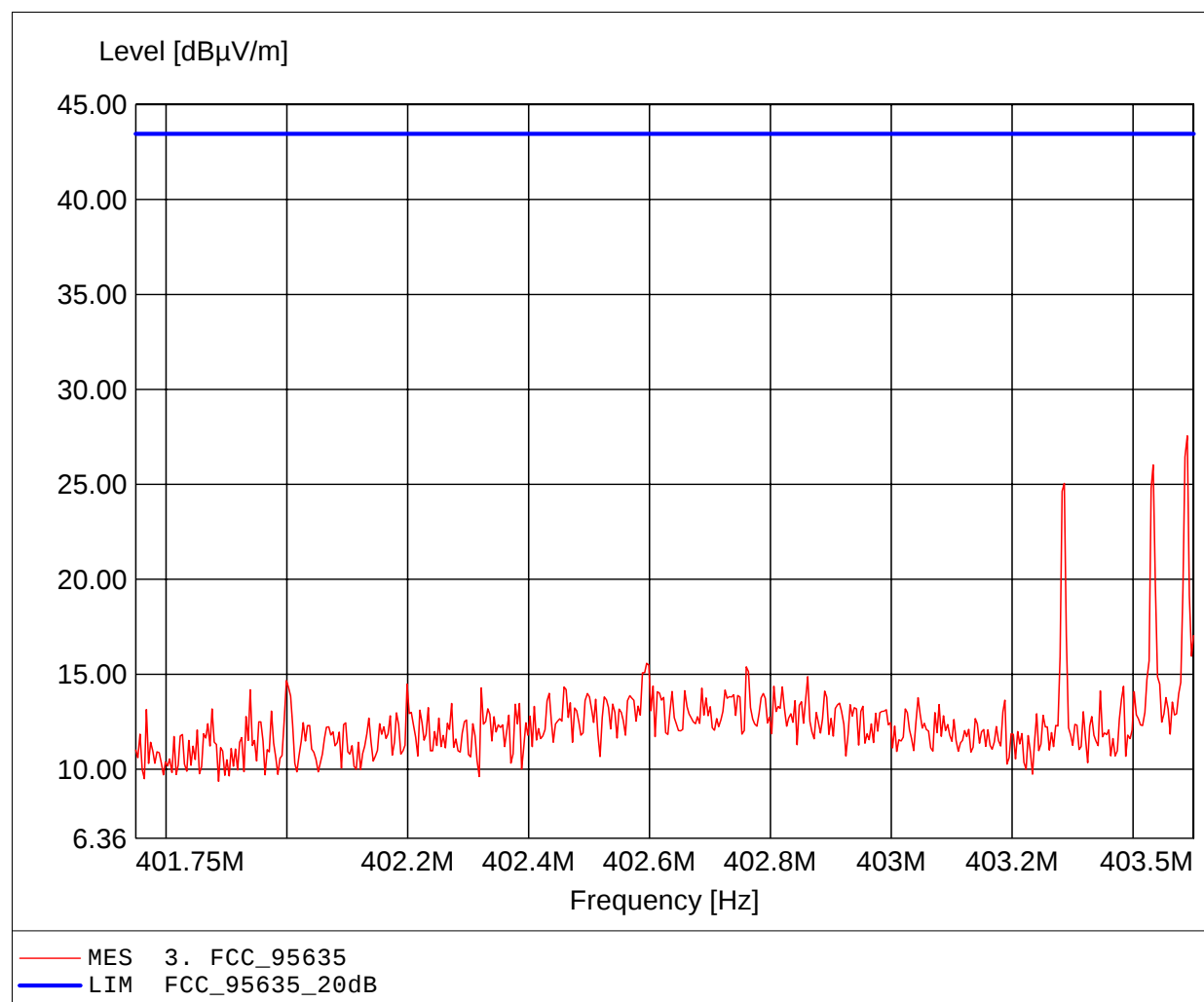
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d) (4), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.489MHz, Emax: 24.61dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

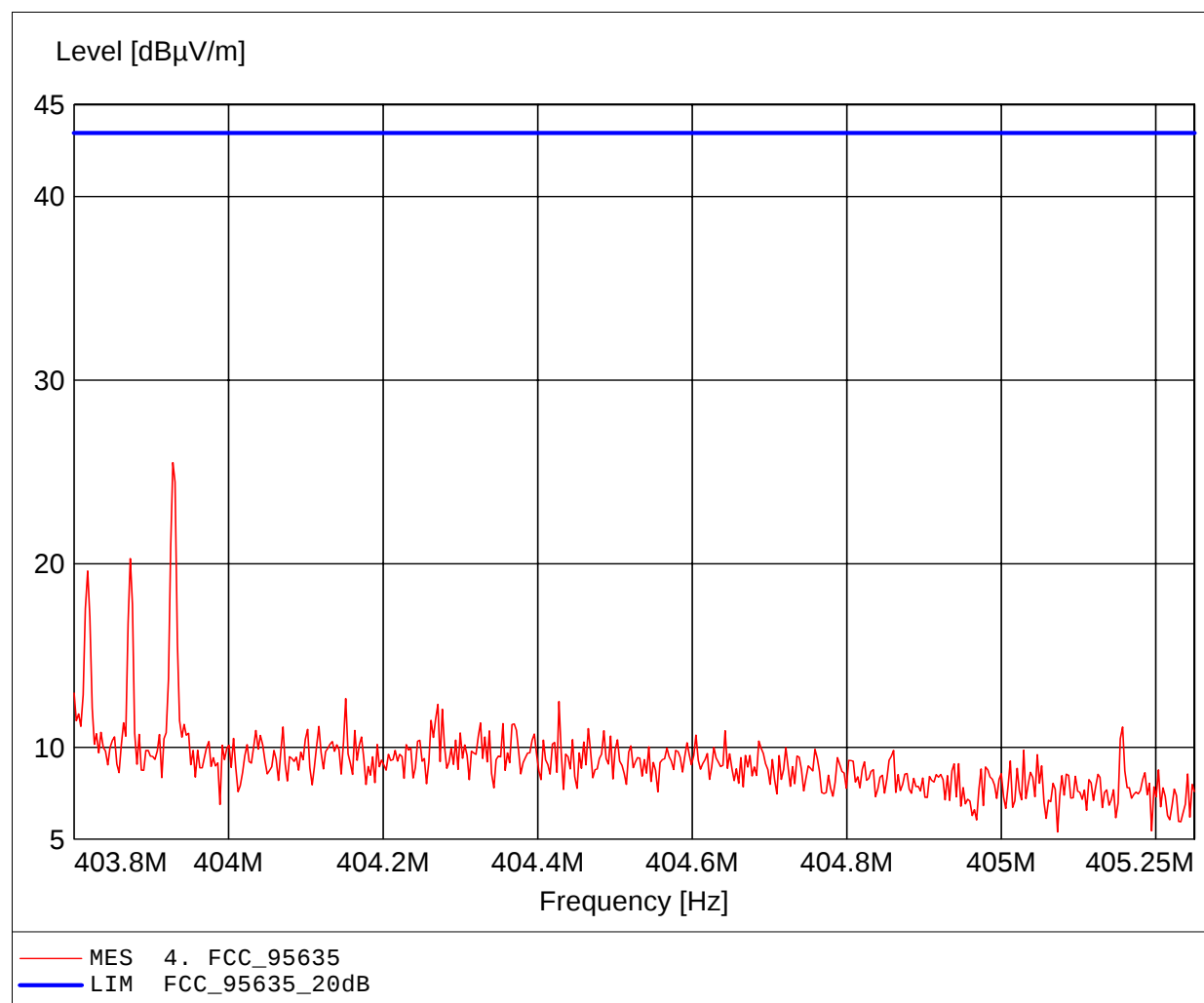
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 d) (4), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.489MHz, Emax: 27.55dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

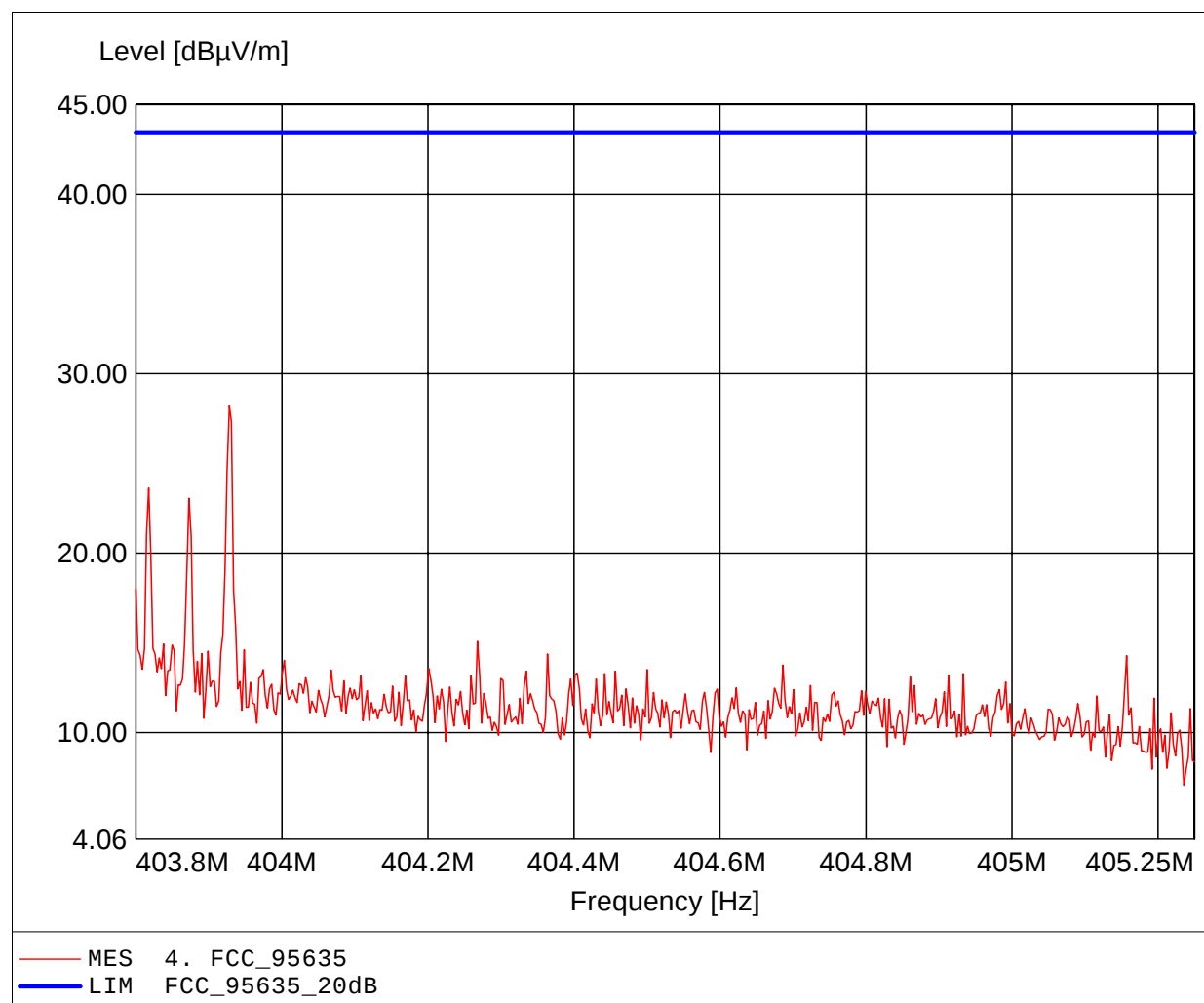
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d) (4), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.928MHz, Emax: 25.51dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 0
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d) (4), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 403.928MHz, Emax: 28.21dBµV/m, RBW: 3kHz



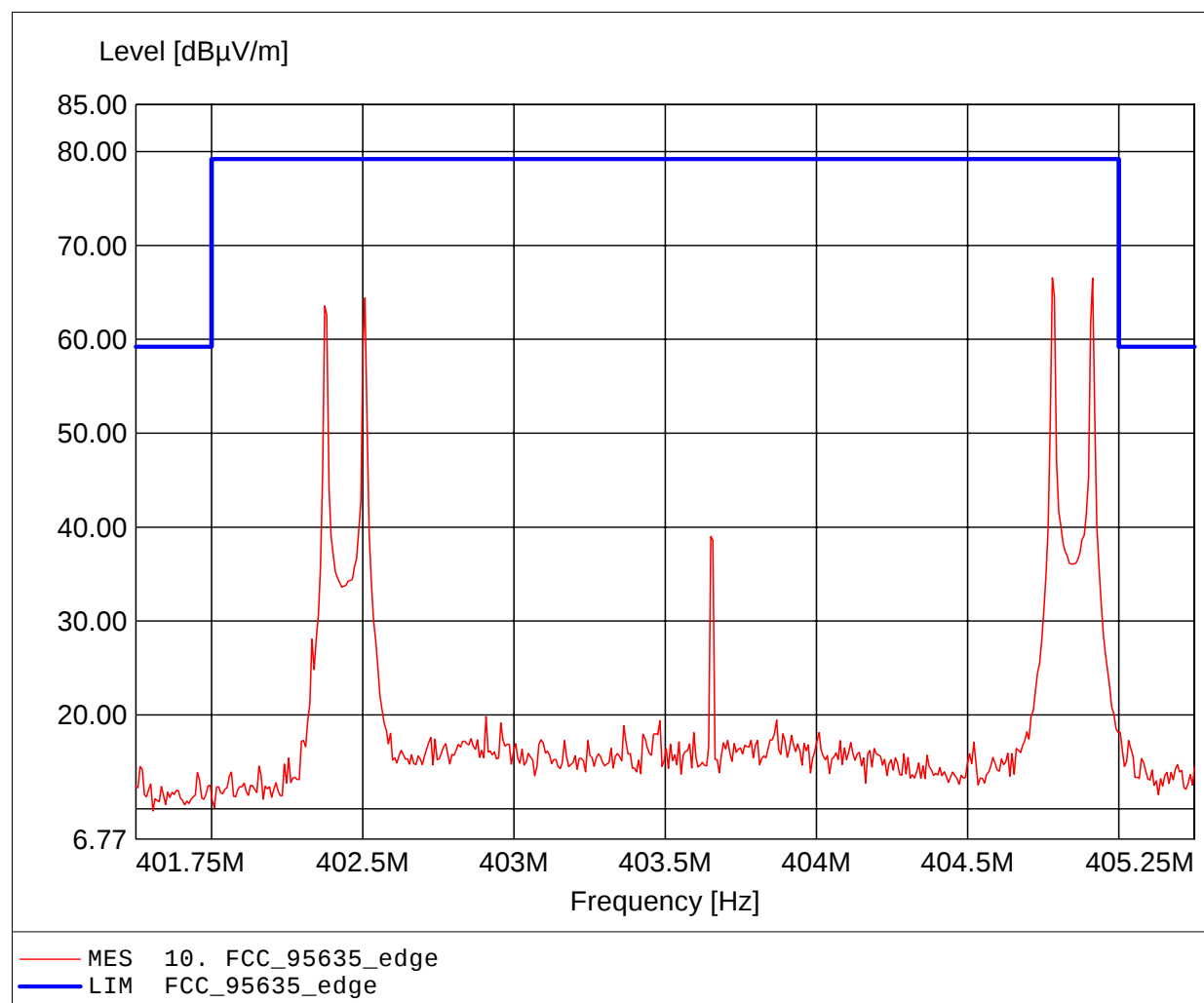
Annex

Measurement diagrams FCC RULES §95.635 (d) (5) “Band Edge Emissions”

Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

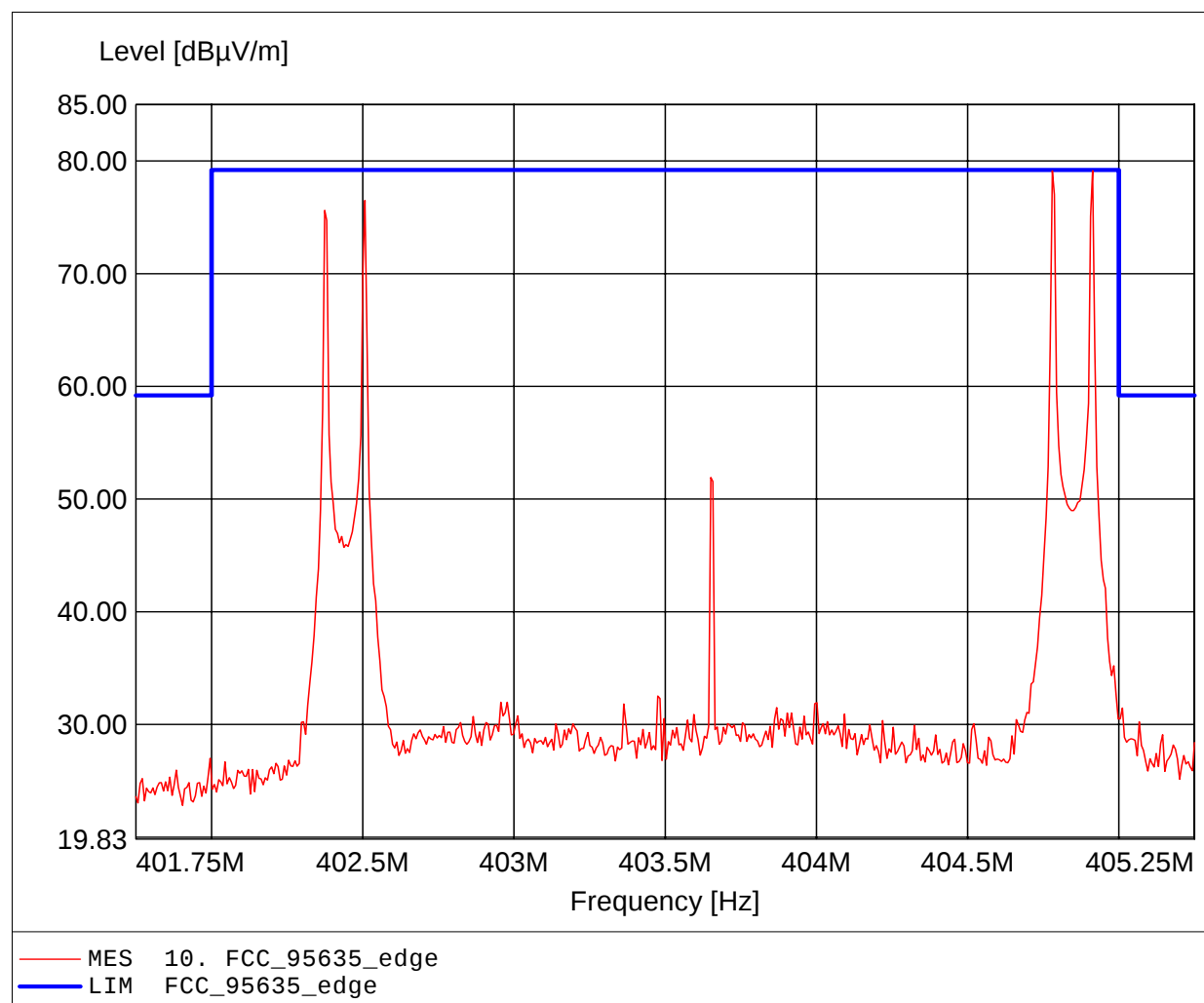
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (top), Ch.: 8 / 7
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d)(5), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 404.780MHz, Emax: 66.56dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

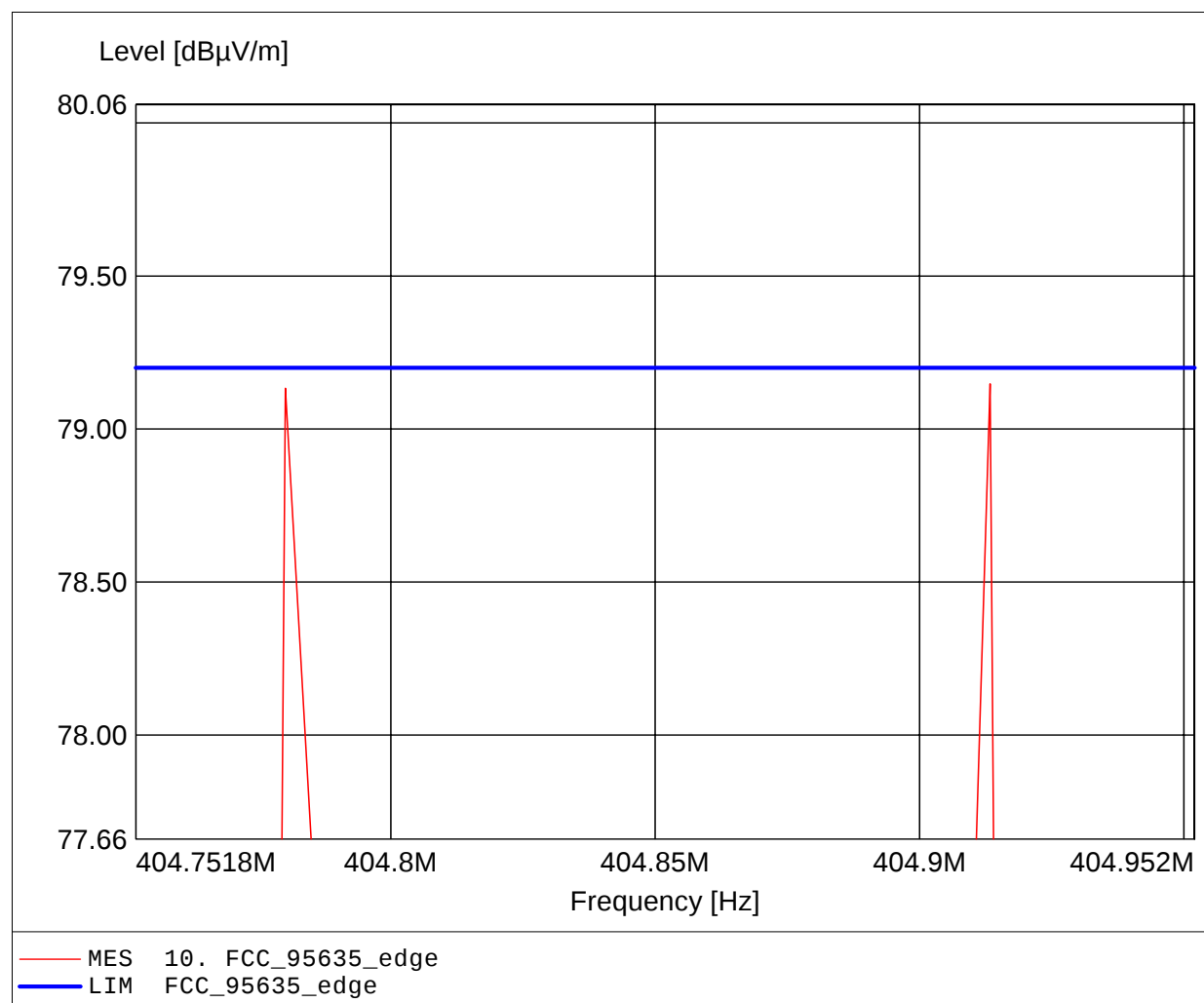
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (top), Ch.: 8 / 7
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d)(5), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 404.913MHz, Emax: 79.15dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

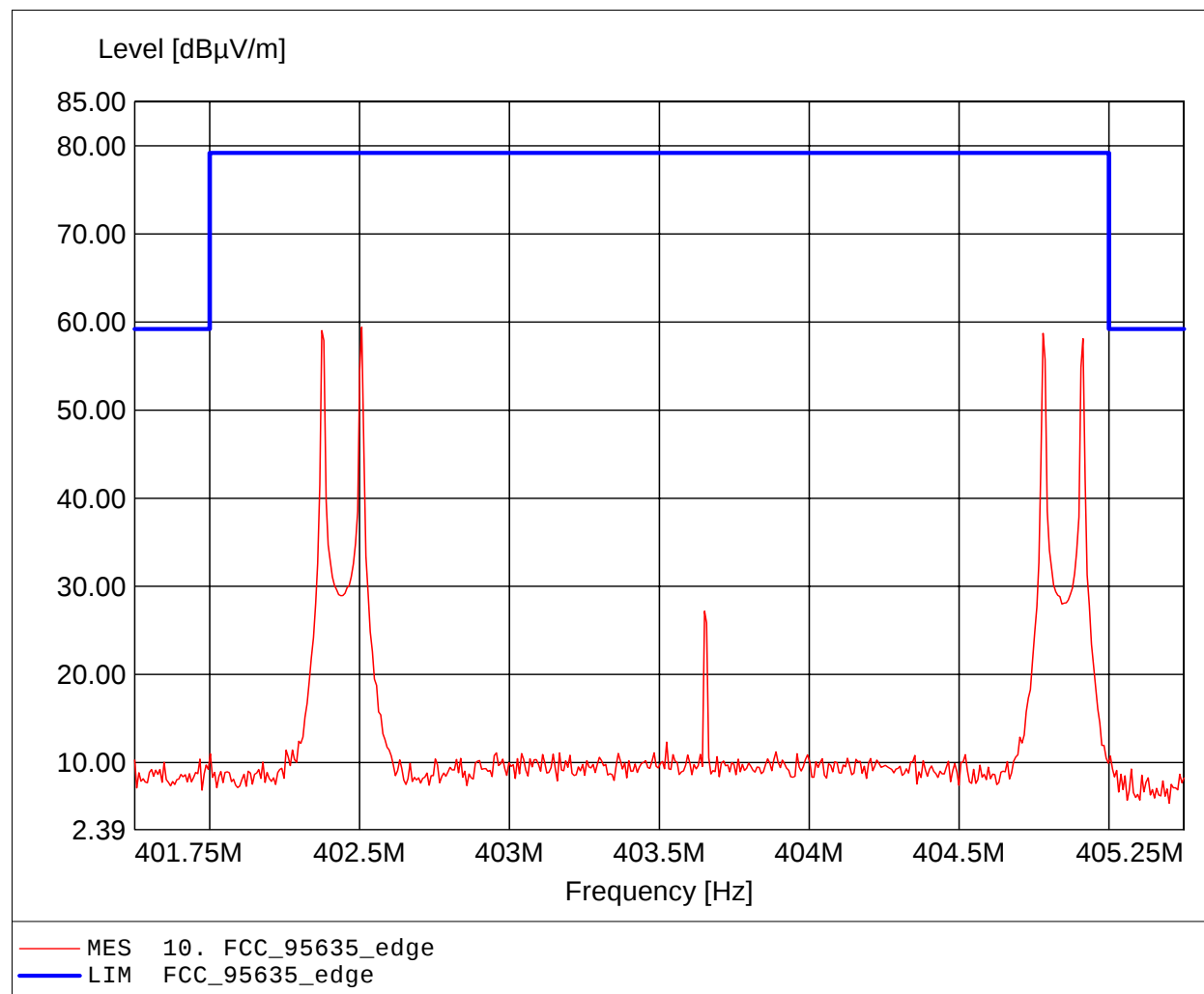
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (top), Ch.: 8 / 7
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d)(5), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 404.913MHz, Emax: 79.15dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

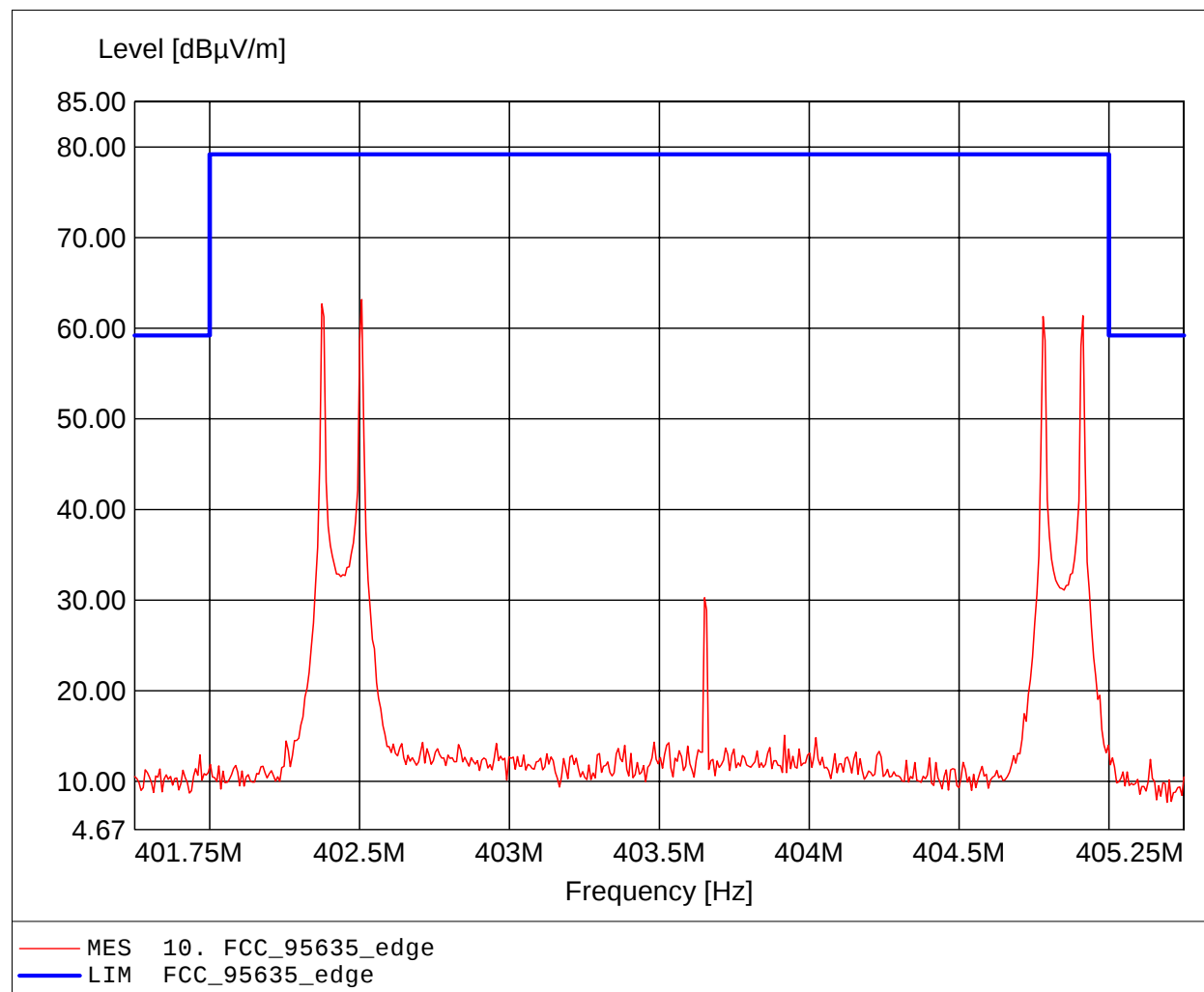
Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 8/7
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d)(5), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 402.508MHz, Emax: 59.42dBµV/m, RBW: 3kHz



Spurious emissions Field Strength Tx

FCC RULES PART 95, SUBPART D

Approval Holder: Biotronik GmbH
EUT : Cardio messenger II
Model: Telex III / antenna (bottom), Ch.: 8/7
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: according to §95.635 (d)(5), peak detector
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 402.508MHz, Emax: 63.17dBµV/m, RBW: 3kHz

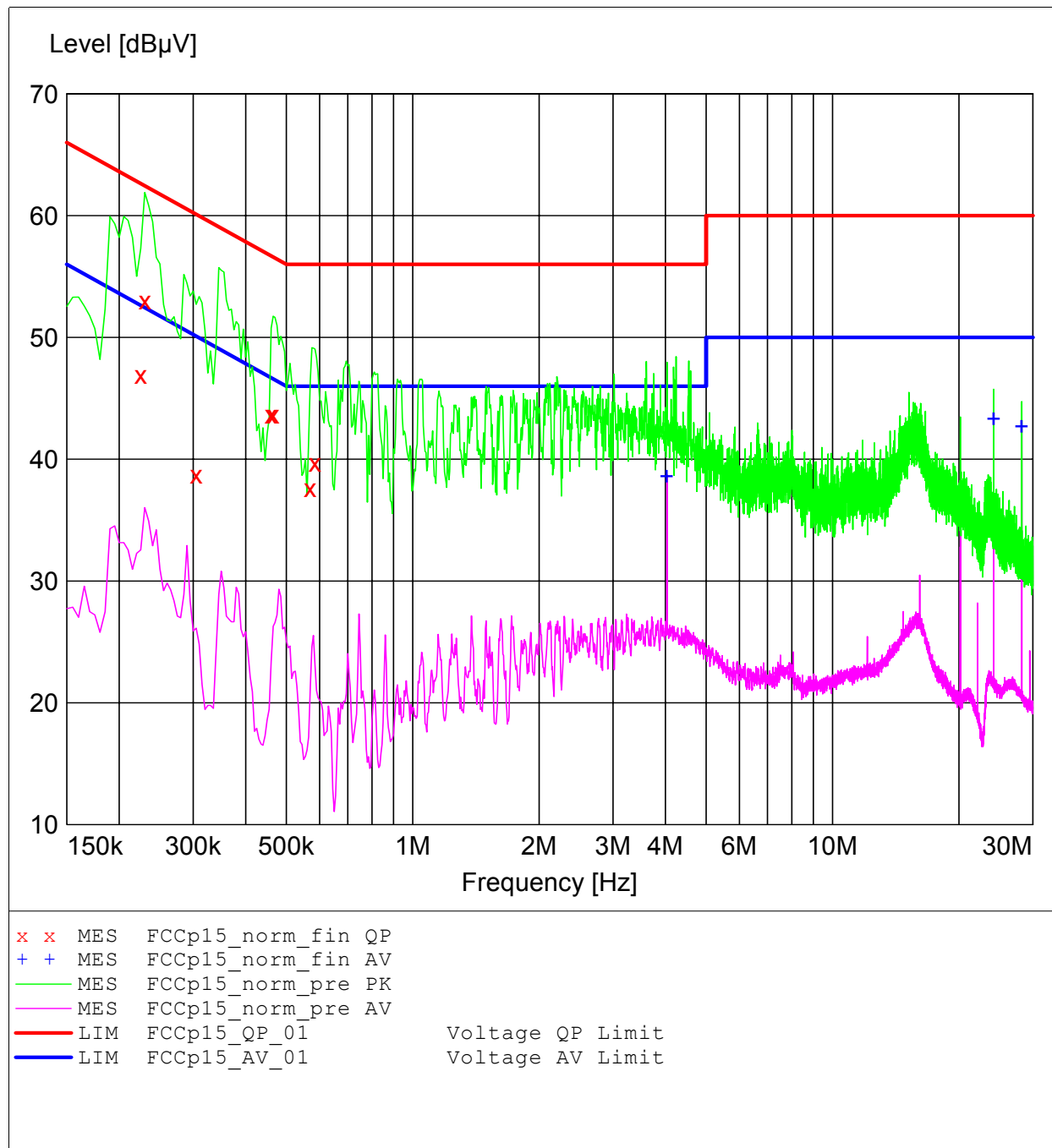


Annex

Measurement diagrams FCC Part 15.207

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

EUT: CARDIOMESSENGER II
Manufacturer: BIOTRONIK GmbH
Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: TELEX mode: GSM, PSTN, CHARGING



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

EUT: CARDIOMESSENGER II
Manufacturer: BIOTRONIK GmbH
Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: TELEX mode: GSM, PSTN, CHARGING

MEASUREMENT RESULT: "FCCp15_norm_fin QP"

15.12.2005 14:44

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.225000	46.90	10.0	63	15.7	---	---
0.230000	53.00	10.0	62	9.5	---	---
0.305000	38.70	10.0	60	21.4	---	---
0.460000	43.70	10.0	57	13.0	---	---
0.465000	43.70	10.0	57	12.9	---	---
0.570000	37.60	10.1	56	18.4	---	---
0.585000	39.70	10.1	56	16.3	---	---

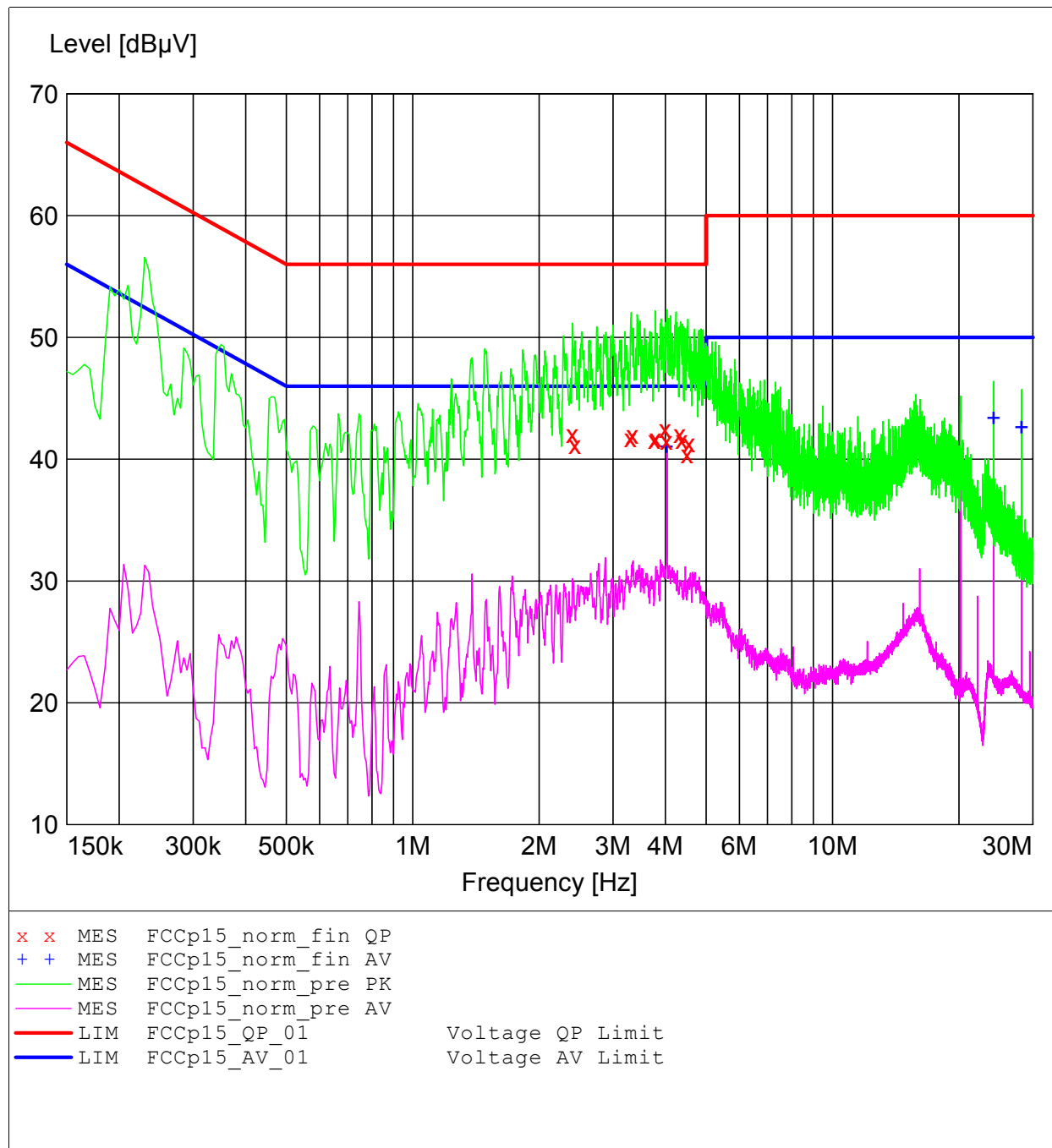
MEASUREMENT RESULT: "FCCp15_norm_fin AV"

15.12.2005 14:44

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
4.030000	38.60	10.4	46	7.4	---	---
24.190000	43.30	11.2	50	6.7	---	---
28.225000	42.70	11.3	50	7.3	---	---

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

EUT: CARDIOMESSENGER II
Manufacturer: BIOTRONIK GmbH
Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: TELEX mode: GSM, PSTN, CHARGING



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

EUT: CARDIOMESSENGER II
Manufacturer: BIOTRONIK GmbH
Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: TELEX mode: GSM, PSTN, CHARGING

MEASUREMENT RESULT: "FCCp15_norm_fin AV"

15.12.2005 14:58

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
4.030000	41.00	10.4	46	5.0	---	---
24.190000	43.40	11.2	50	6.6	---	---
28.225000	42.60	11.3	50	7.4	---	---

MEASUREMENT RESULT: "FCCp15_norm_fin QP"

15.12.2005 14:58

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
2.400000	42.10	10.3	56	13.9	---	---
2.435000	41.20	10.3	56	14.8	---	---
3.300000	41.70	10.3	56	14.3	---	---
3.335000	42.00	10.3	56	14.0	---	---
3.760000	41.60	10.3	56	14.4	---	---
3.785000	41.70	10.3	56	14.3	---	---
3.990000	42.50	10.4	56	13.5	---	---
4.020000	41.50	10.4	56	14.5	---	---
4.325000	42.10	10.4	56	13.9	---	---
4.370000	41.60	10.4	56	14.4	---	---
4.505000	40.40	10.4	56	15.6	---	---
4.555000	41.30	10.4	56	14.7	---	---

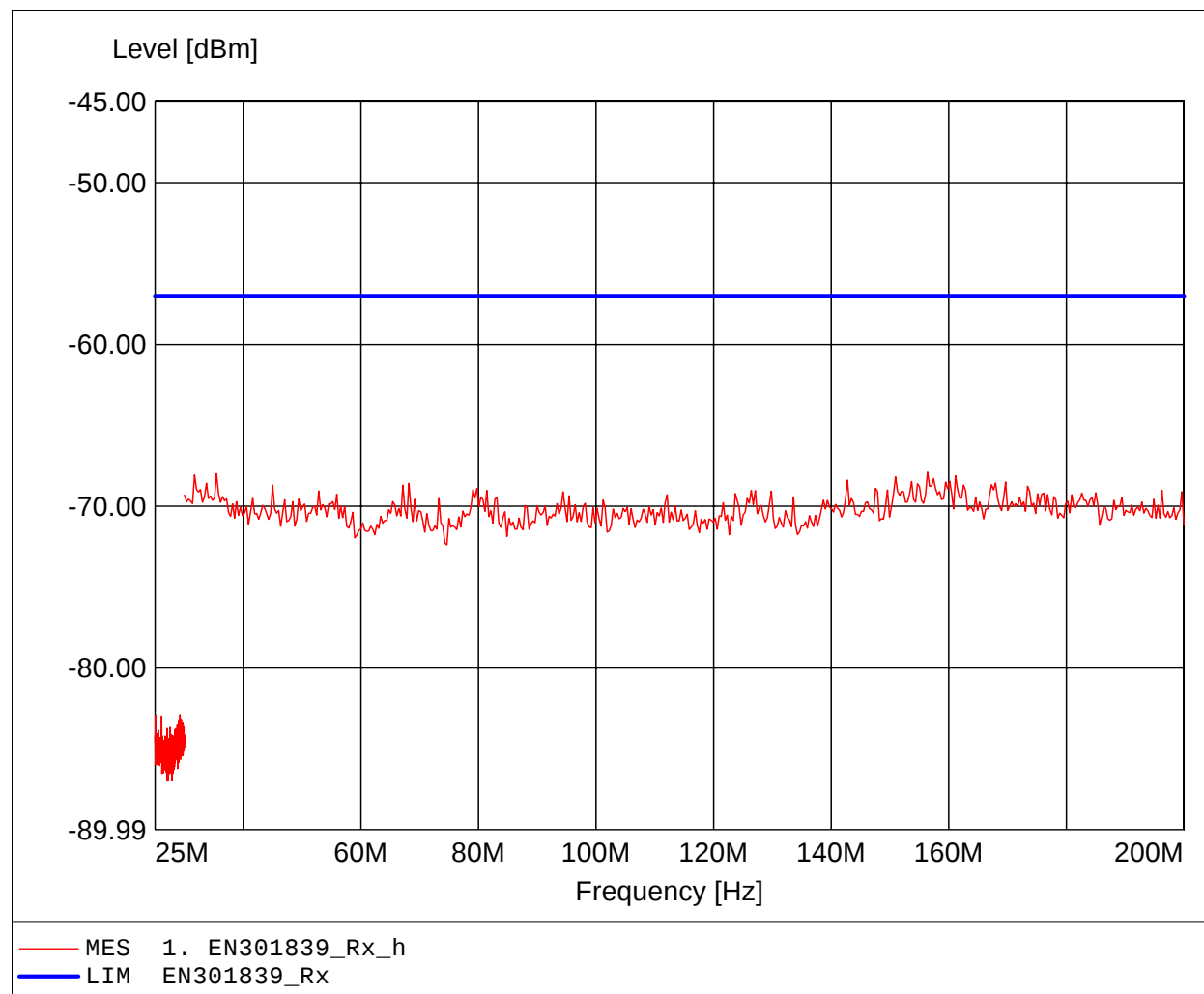
Annex

Measurement diagrams “Receiver Spurious Emissions”

Receiver spurious emissions

in accordance to the EN 301 839

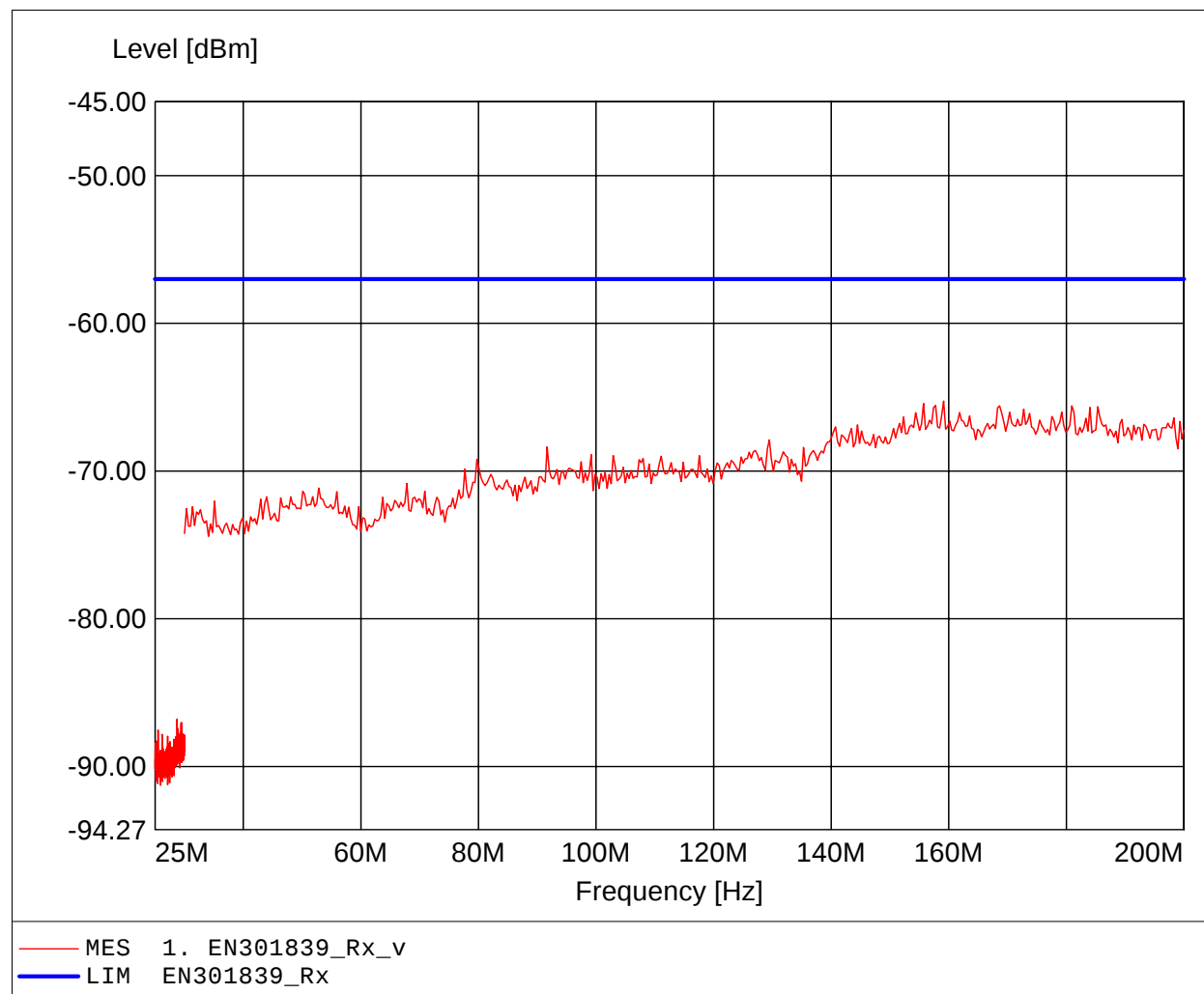
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (both, worst case), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: RX
Comment 1: Dist.: 3m, Ant.: HK 116, ampl.: None
Comment 2: Freq:156.393MHz Pmax:-67.90dBm RBW: 10/100 kHz



Receiver spurious emissions

in accordance to the EN 301 839

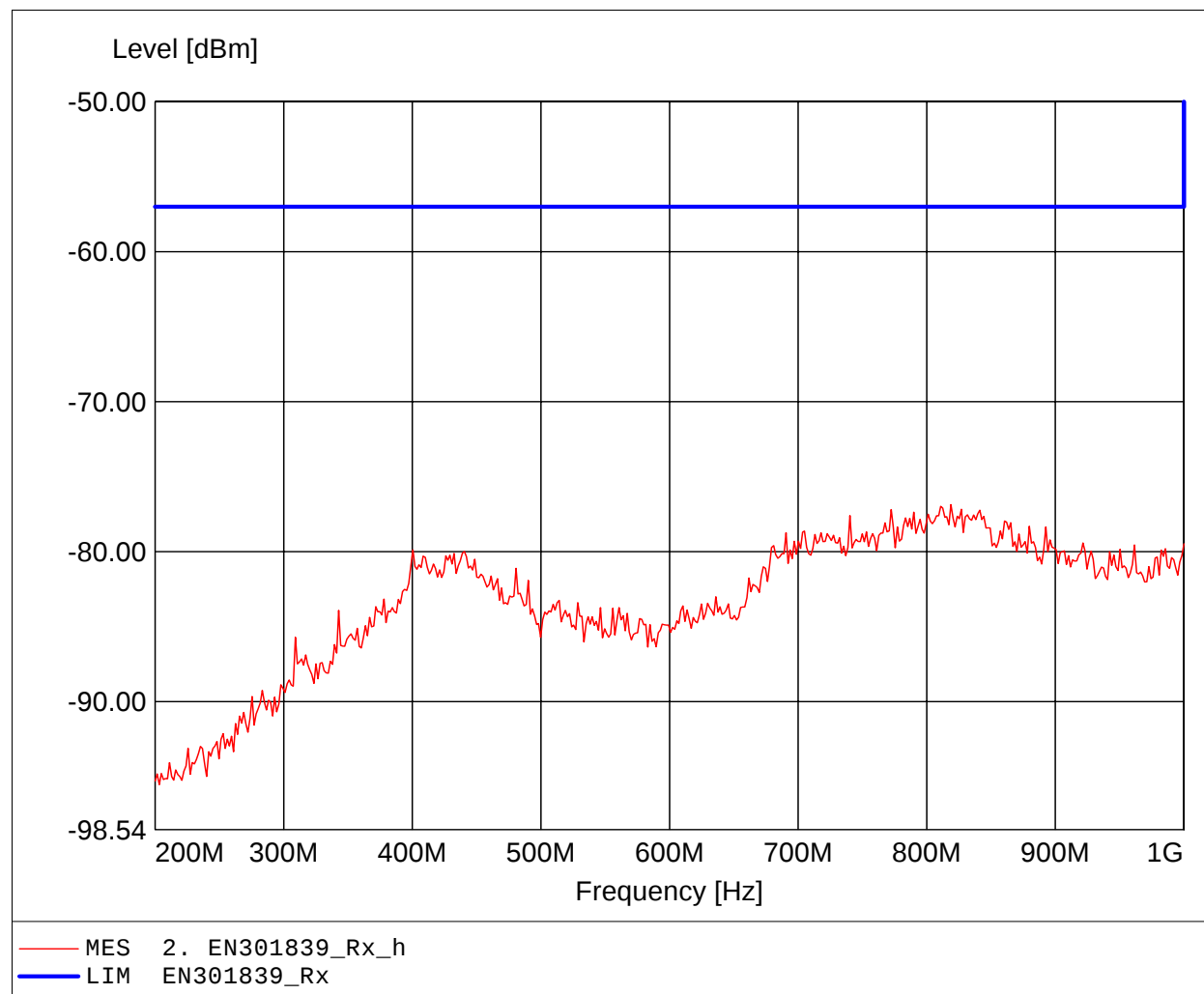
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (both, worst case), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: RX
Comment 1: Dist.: 3m, Ant.: HK 116, ampl.: None
Comment 2: Freq:159.118MHz Pmax:-65.26dBm RBW: 10/100 kHz



Receiver spurious emissions

in accordance to the EN 301 839

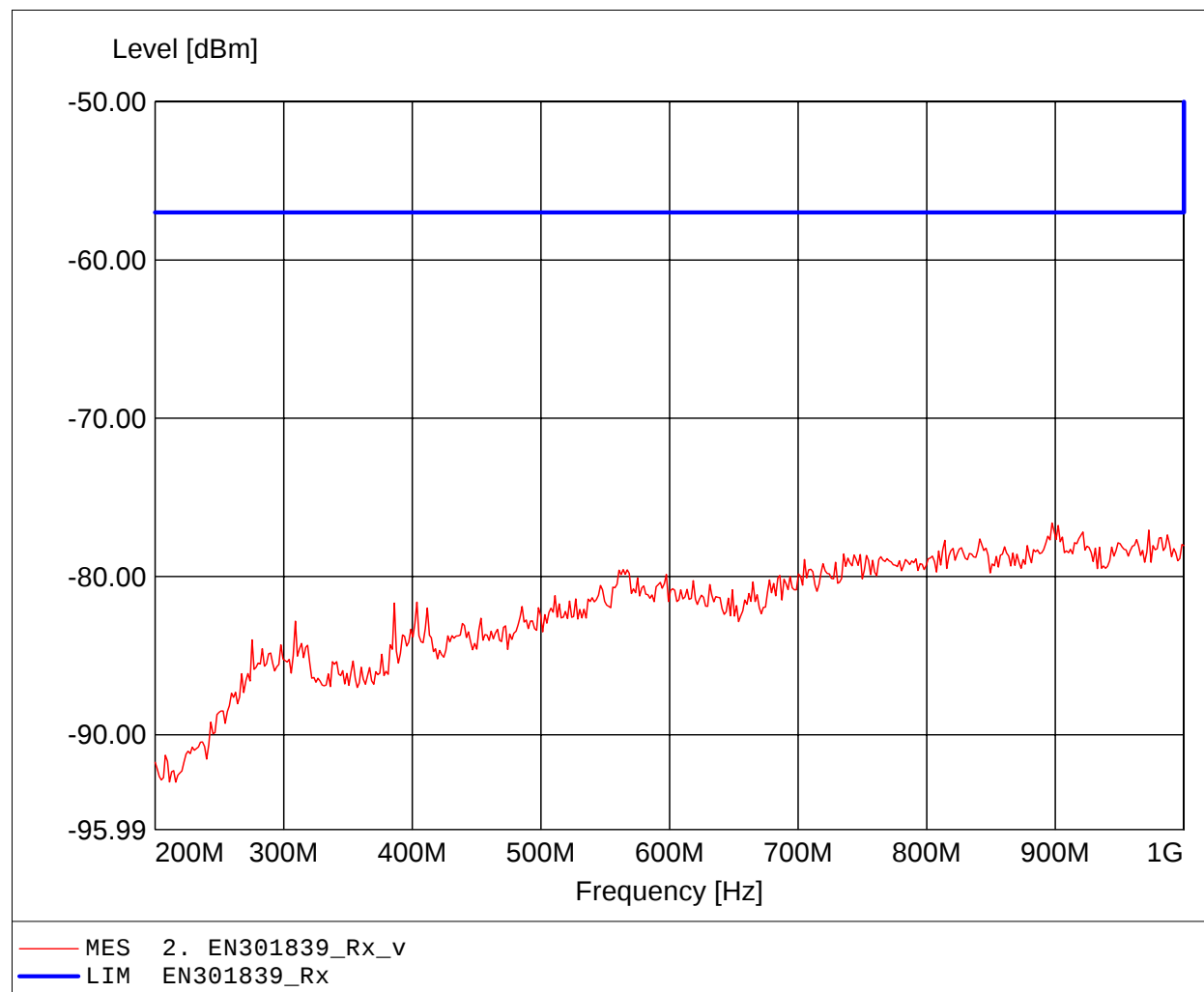
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (both, worst case), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: RX
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Comment 2: Freq:818.838MHz Pmax:-76.86dBm RBW: 100 kHz



Receiver spurious emissions

in accordance to the EN 301 839

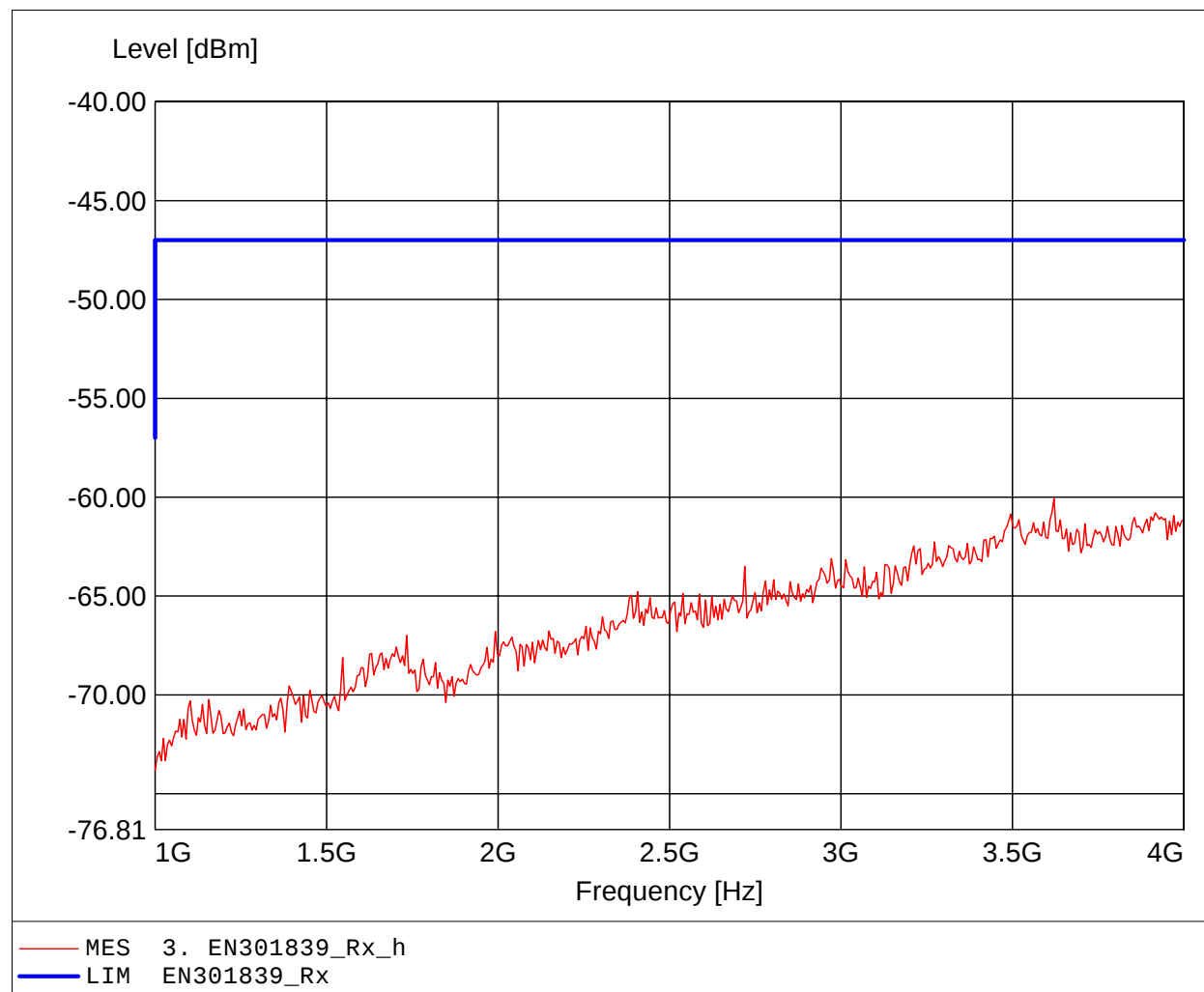
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (both, worst case), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: RX
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.: 0.1-1GHz
Comment 2: Freq:897.395MHz Pmax:-76.62dBm RBW: 100 kHz



Receiver spurious emissions

in accordance to the EN 301 839

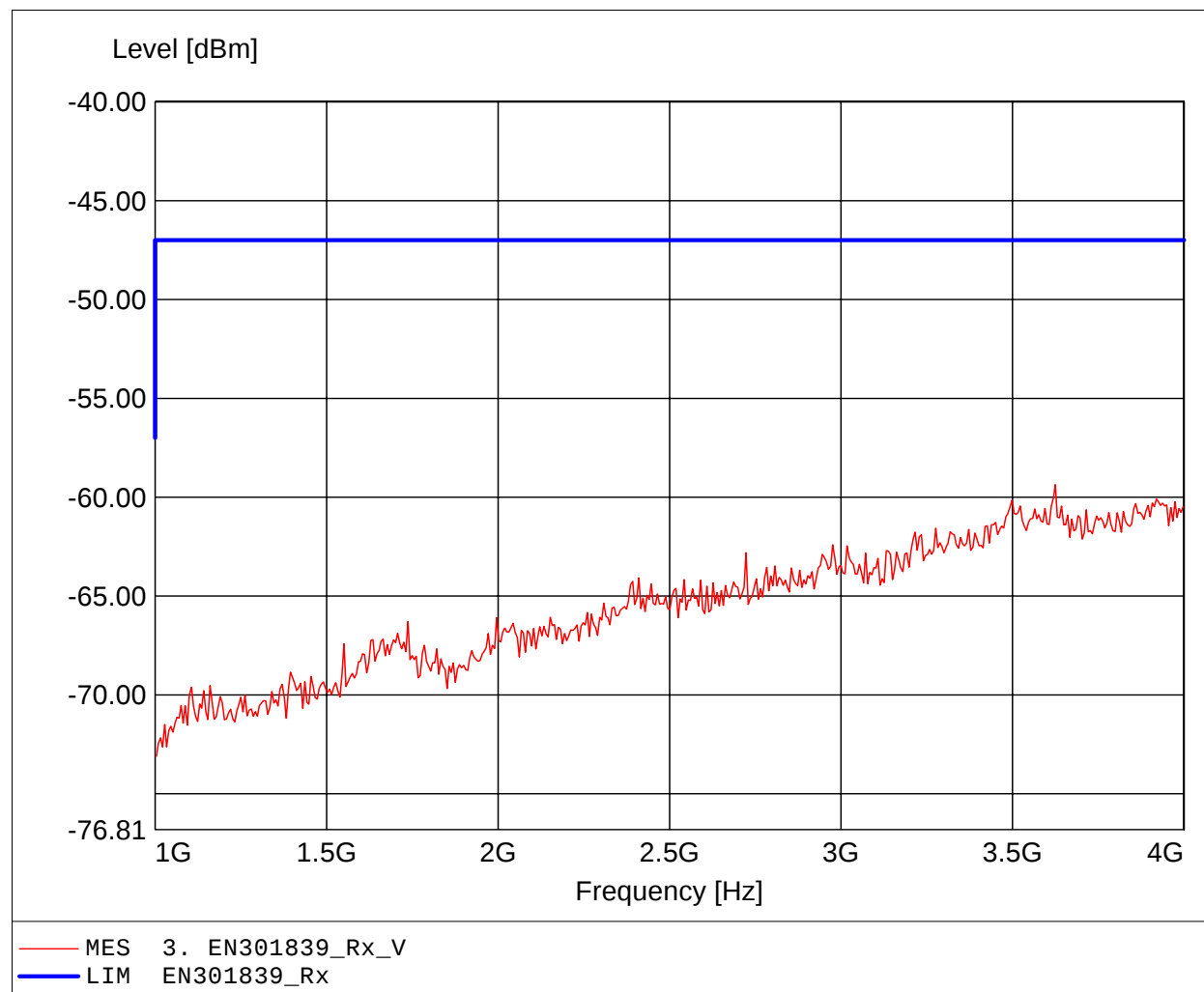
Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (both, worst case), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: RX
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 1-4GHz
Comment 2: Freq:3.621GHz Pmax:-60.07dBm RBW: 1 MHz



Receiver spurious emissions

in accordance to the EN 301 839

Approval Holder: Biotronik GmbH
EUT: Cardio messenger II
Model: Telex III / antenna (both, worst case), Ch.: 0
Test Site / Operator: ETS / Mr. Treffke
Temperature/ Voltage: 25°C / Unom: 3.7 V DC (lithium accu)
Test Specification: Fully anechoic chamber / mode: RX
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.: 1-4GHz
Comment 2: Freq:3.621GHz Pmax:-59.14dBm RBW: 1 MHz

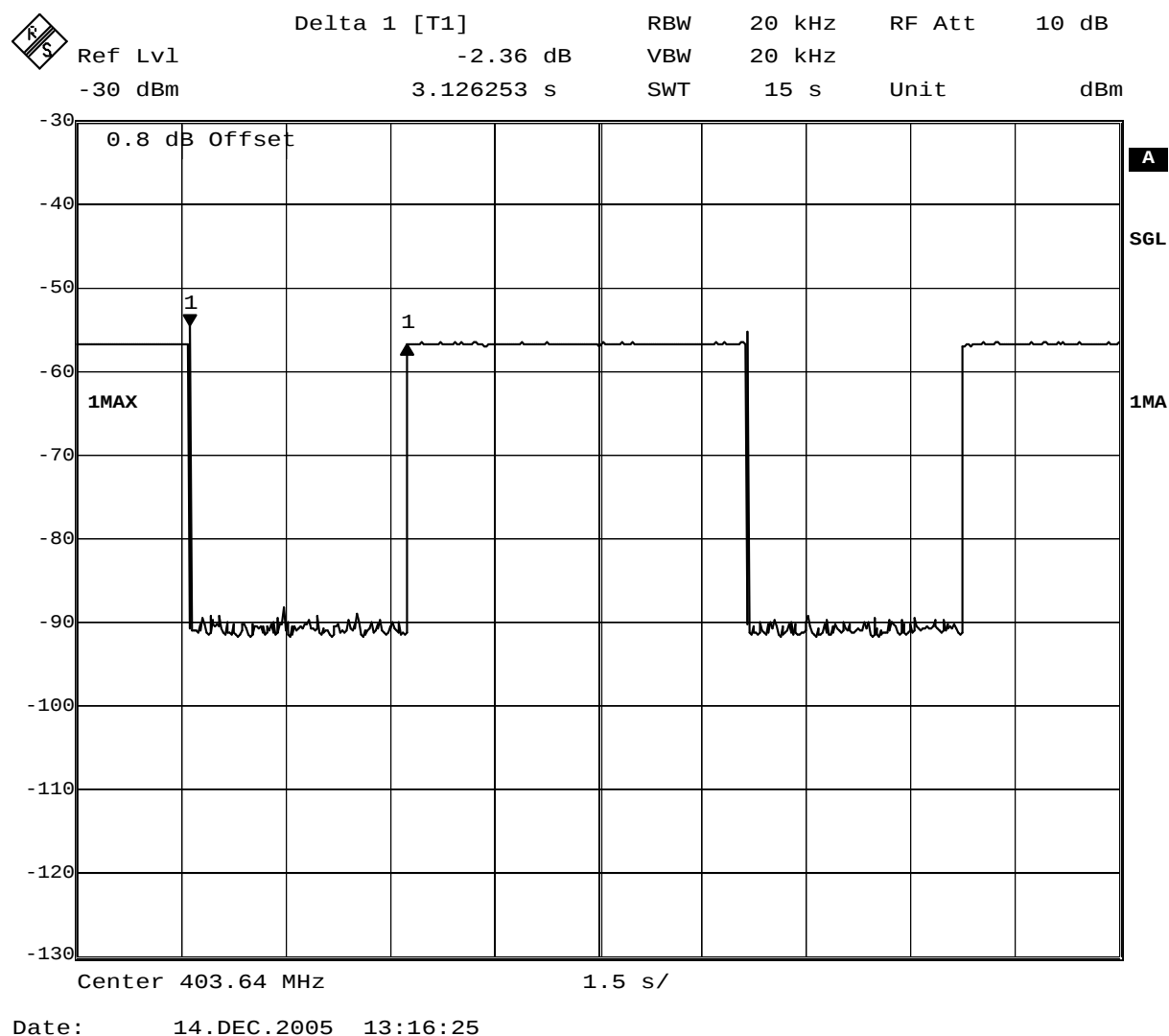


Annex

Measurement diagrams “Monitoring scan cycle time and minimum channel monitoring period”

FCC Part 95.628 (09.12.2005) / EN 301 839 v1.1.1 (2002-06)
Monitoring system scan cycle time and minimum channel monitoring period

EUT	Cardiomessenger II
Model	Telex III
Approval Holder	Biotronik GmbH
Temperature / Voltage	25°C / Unom: 3.7 V DC
Test Site / Operator	ETS
Test Specification	FCC Part 95.628 a.2 / EN 301 839-1 10.3
Test Case	Monitoring system scan cycle time
Comment 1	Result < 5 sec
Comment 2	Limit < 5 sec



Measurement diagram

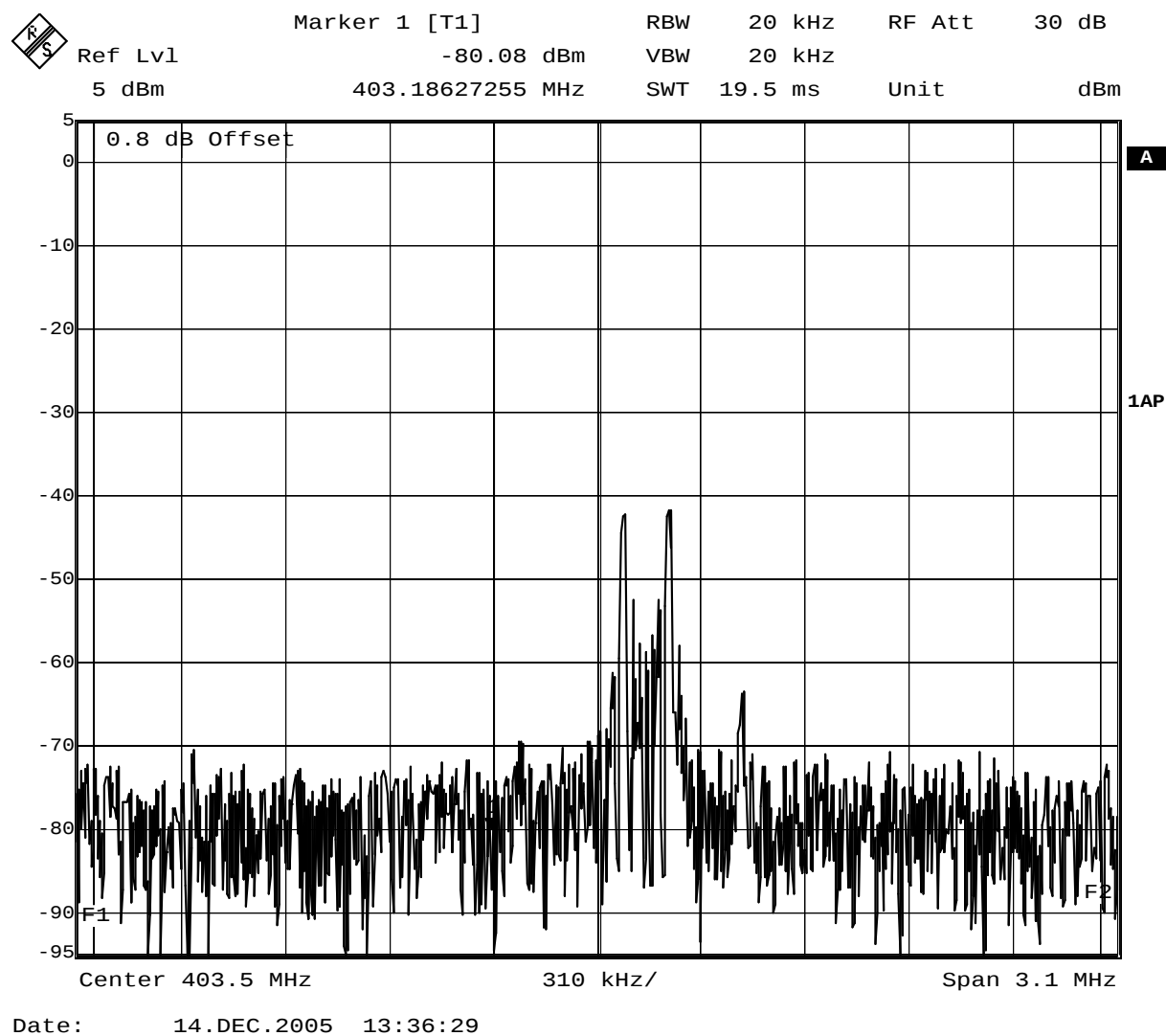
Annex

Measurement diagrams “Channel access based on ambient levels relative to the calculated access threshold level”

FCC Part 95.628 (09.12.2005) / EN 301 839 v1.1.1 (2002-06)

Channel access based on ambient levels relative to the calculated access threshold level

EUT	Cardiomessenger II
Model	Telex III
Approval Holder	Biotronik GmbH
Temperature / Voltage	25°C / Unom: 3.7 V DC
Test Site / Operator	ETS
Test Specification	FCC Part 95.628 a.4 / EN 301 839-1 10.4
Test Case	Channel access based on ambient levels relative to the calculated access threshold level
Comment 1	Interferer level: -98 dBm
Comment 2	Connection on channel 0

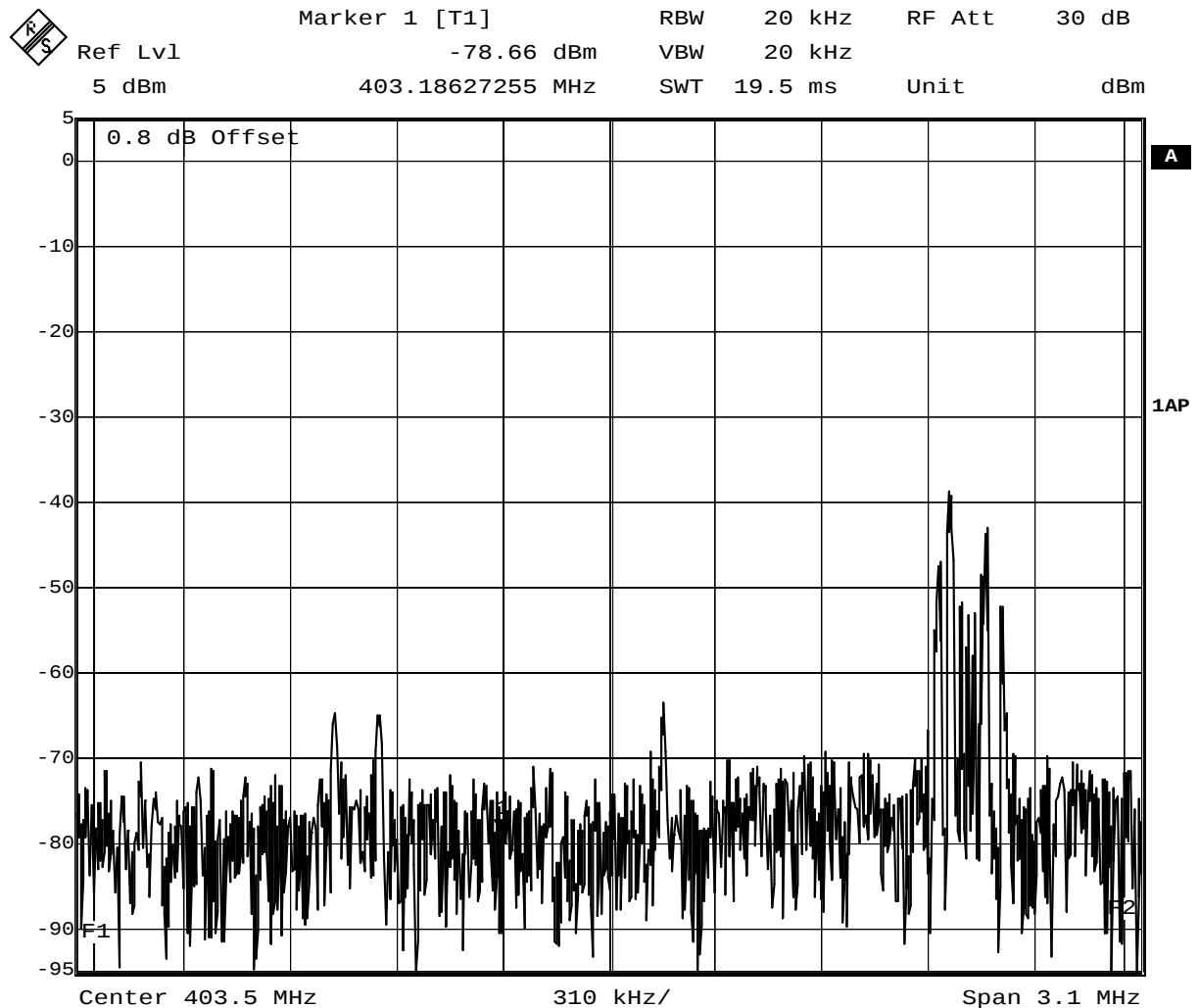


Measurement diagram

FCC Part 95.628 (09.12.2005) / EN 301 839 v1.1.1 (2002-06)

Channel access based on ambient levels relative to the calculated access threshold level

EUT	Cardiomessenger II
Model	Telex III
Approval Holder	Biotronik GmbH
Temperature / Voltage	25°C / Unom: 3.7 V DC
Test Site / Operator	ETS
Test Specification	FCC Part 95.628 a.4 / EN 301 839-1 10.4
Test Case	Channel access based on ambient levels relative to the calculated access threshold level
Comment 1	Interferer level: -92 dBm
Comment 2	Channel 0 has changed to Ch 5



Date: 14.DEC.2005 13:44:15

Measurement diagram

Annex

Measurement diagrams “ Discontinuation of MICS session if a silent period greater then or equal 5s occurs”

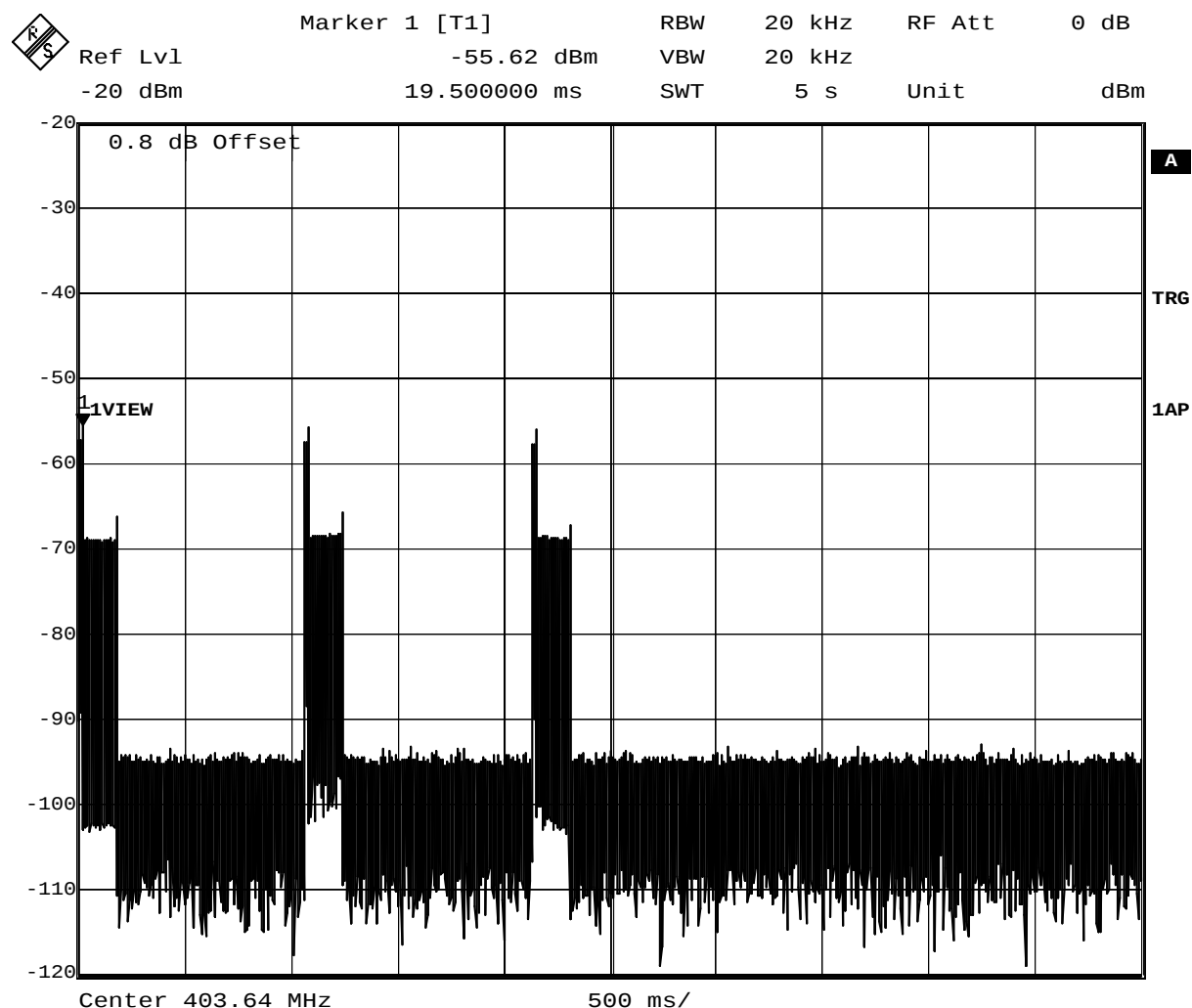
FCC Part 95.628 (09.12.2005) / EN 301 839 v1.1.1 (2002-06)

Discontinuation of MICS session if a silent period greather then or equal 5s occurs

EUT	Cardiomessenger II
Model	Telex III
Approval Holder	Biotronik GmbH
Temperature / Voltage	25°C / Unom: 3.7 V DC
Test Site / Operator	ETS
Test Specification	FCC Part 95.628 a.4 / EN 301 839-1 10.5
Test Case	Discontinuation of MICS session if a silent period greather then or equal 5s occurs

Comment 1 No communication after 5 sec silent period

Comment 2



Date: 14.DEC.2005 14:05:15

Measurement diagram