

Appendix B

Appendix B

ETS Product Service AG

RF power output conducted



Appendix C

RF power output radiated (EIRP)



Appendix D

Appendix D

ETS Product Service AG

6 dB bandwidth; Occupied bandwidth (99% BW)



FCC part 15.247 (a)2 Minimum 6 dB Bandwidth

EUT

Mobile Panel for Industry Automation

Model

Mobile Panel 277 Wireless

Approval Holder

Siemens AG

Temperature / Voltage

23°C / Vnom

Test Site / Operator

ETS Product Service AG / Mr. Treffke

Test Specification

FCC part 15.247 (a)2

Comment 1

Minimum 6 dB Bandwidth

Comment 2 Comment 3 Css modulation Chirp only

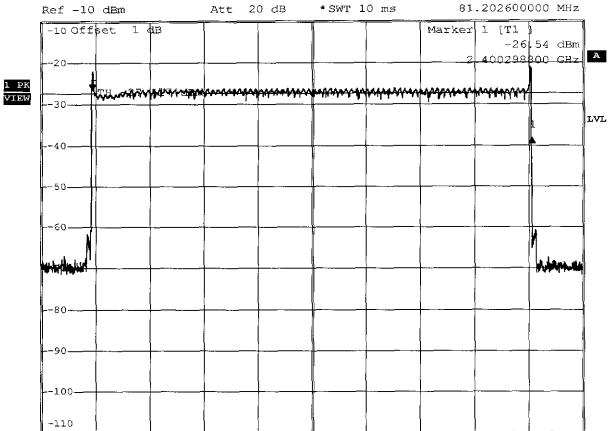


*RBW 100 kHz Delta 1 [T1]

*VBW 300 kHz

-11.57 dB

Span 100 MHz



Comment: 6 dB bandwidth: 81202.6 KHz > 500 KHz; verdict: PASS

28.AUG.2007 11:15:59

Center 2.441 GHz

Date:

Measurement diagram

10 MHz/



RSS Gen Occupied Bandwidth

EUT

Mobile Panel for Industry Automation

Model

Mobile Panel 277 Wireless

Approval Holder

Siemens AG

Temperature / Voltage

23°C / Vnom

Test Site / Operator

ETS Product Service AG / Mr. Treffke

Test Specification

4.4.1 Occupied Bandwidth

Comment 1

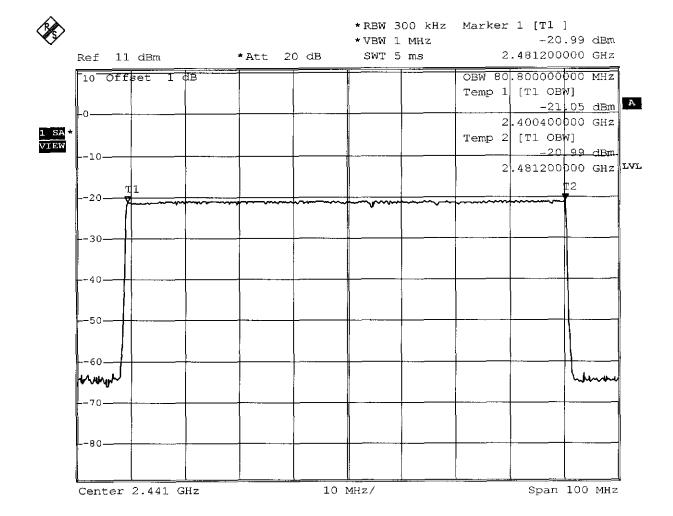
CSS modulation

Comment 2

A spectrum analyzer with an integrated 99% power bandwidth function is used

Comment 3

Mode: Chirp only



Comment: Occupied bandwidth: 80800 KHz

Date:

28.AUG.2007 11:28:50



Appendix E

Peak power spectral density



FCC part 15.247 (d) Power spectral density (PSD)

EUT Mobile Panel for Industry Automation

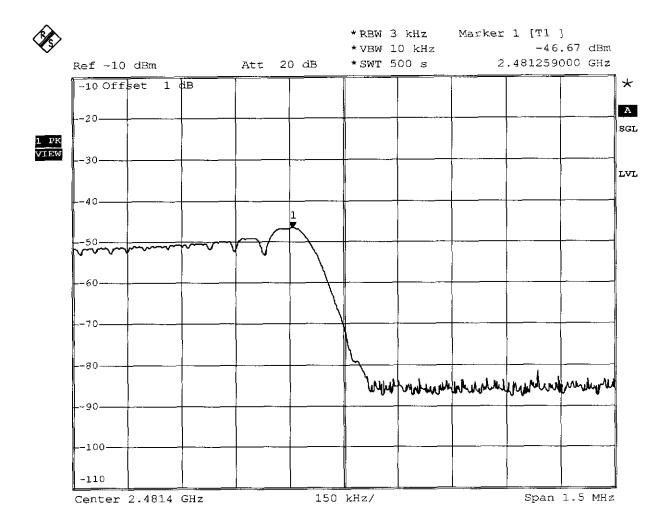
Model Mobile Panel 277 Wireless

Approval Holder Siemens AG
Temperature / Voltage 23°C / Vnom

Test Site / Operator
Test Specification
Comment 1

ETS Product Service AG / Mr. Treffke
FCC part 15.247 (d) (PSD Option1)
Power spectral density conducted

Comment 2 CSS modulation
Comment 3 Mode: Chirp only



Date:

28.AUG.2007 10:39:29



Appendix F

Spurious emissions conducted



Appendix G

Spurious emissions radiated

Registration number: G0M20706-1478-C-2 Appendix G

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

Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

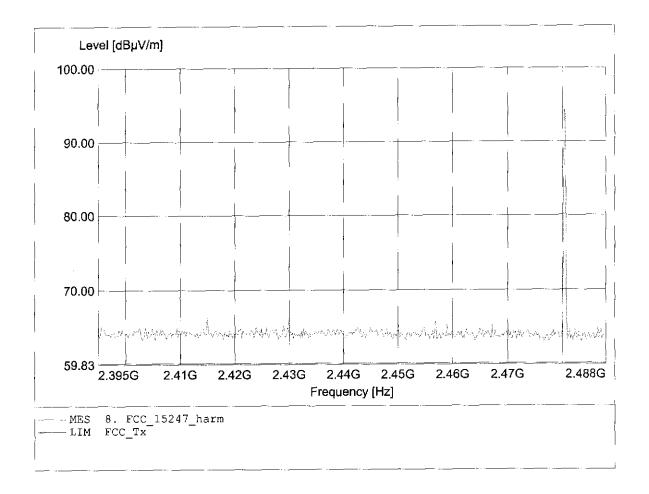
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1: Comment 2:

Dist.: 3m, Ant.: HL025 Freq: 2.480GHz, Emax: 94.31dBpV/m, RBW: 100kHz



Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

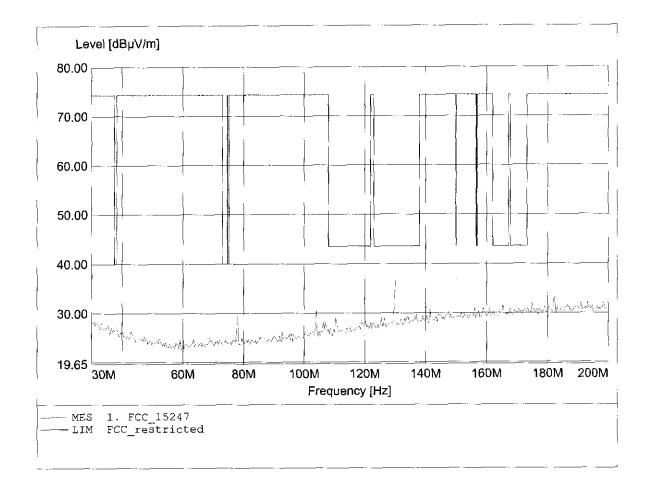
Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Dist.: 3m, Ant.: HK 116

Comment 1: Comment 2:

Freq: 130.160MHz, Emax: 36.53dBpV/m, RBW: 100kHz



Approval Holder: Siemens AG A&D SE RD 51

EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

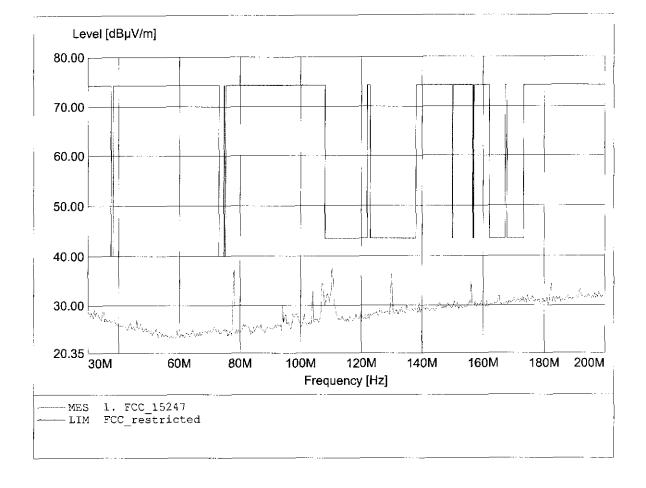
Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

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

Comment 2: Freq: 110.401MHz, Emax: 37.53dBµV/m, RBW: 100kHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps

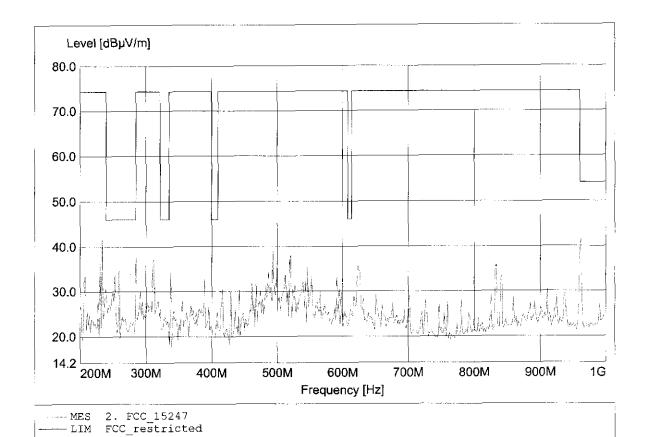
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 233.667MHz, Emax: 41.75dBµV/m, RBW: 100kHz



Approval Holder: Siemens AG A&D SE RD 51

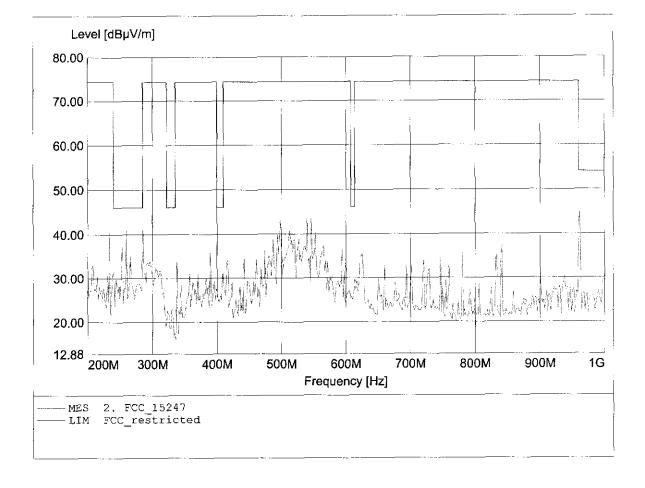
Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Dist.: 3m, Ant.: RE 223, ampire. Freq: 961.523MHz, Emax: 44.70dBpV/m, RBW: 100kHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

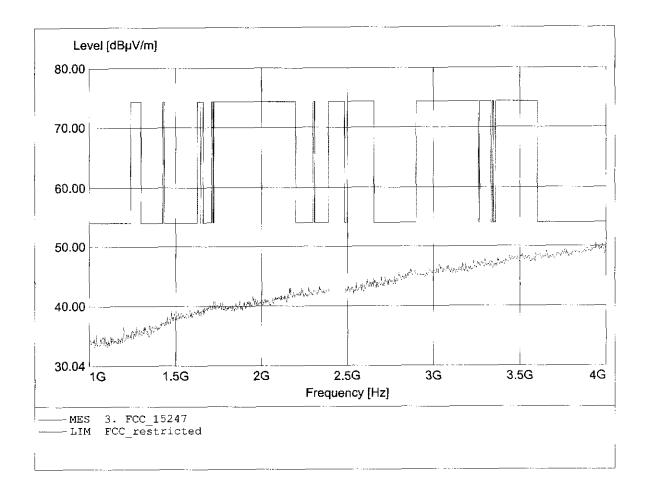
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.939GHz, Emax: 50.51dBuV/m, RBW: 1MHz



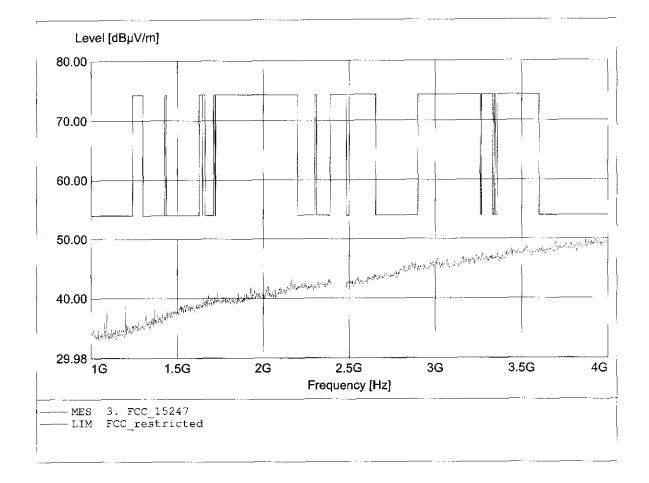
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 3.927GHz, Emax: 49.85dBpV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

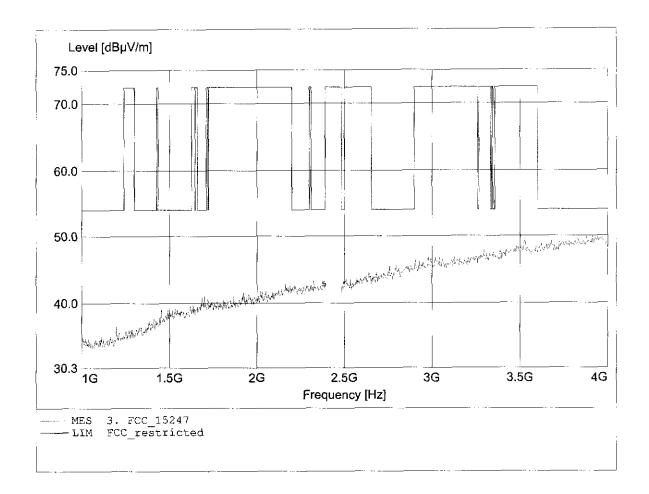
EUT: Model: Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to §15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.878GHz, Emax: 50.25dBpV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

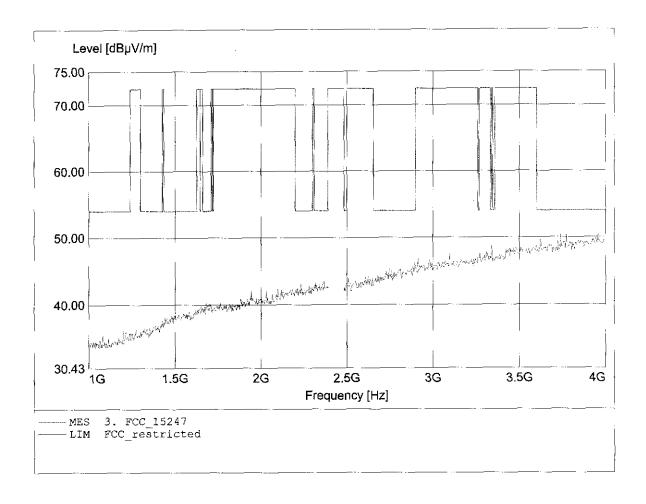
EUT: Model: Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.957GHz, Emax: 50.50dBuV/m, RBW: 1MHz



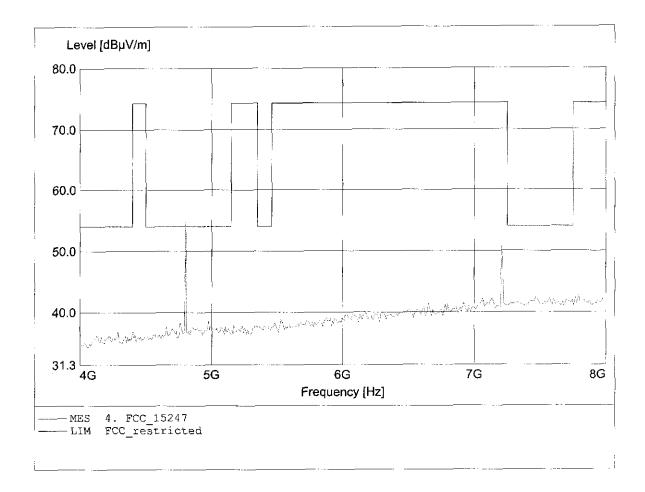
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Freq: 4.802GHz, Emax: 54.70dBµV/m, RBW: 1MHz Comment 2:



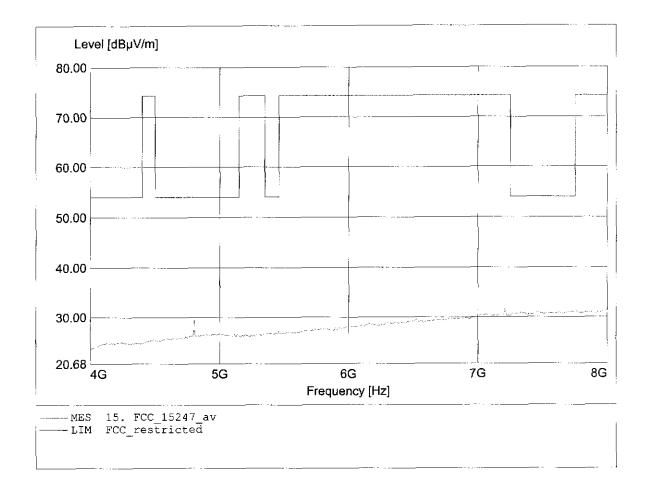
Siemens AG A&D SE RD 51 Approval Holder:

EUT: Mobile Panel

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.206GHz, Emax: 31.61dBµV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

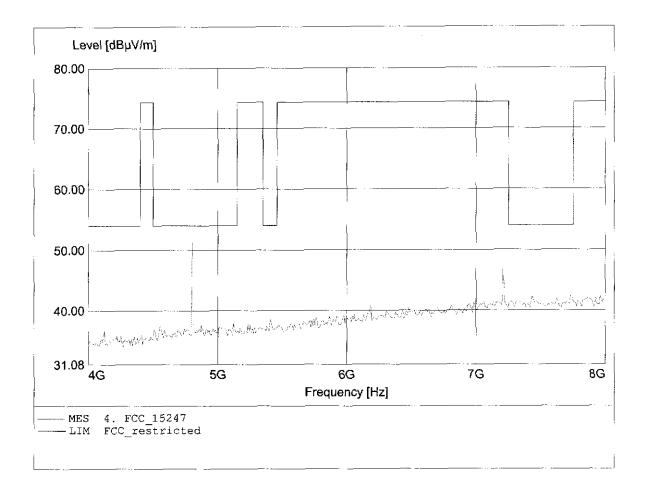
Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

Freq: 4.802GHz, Emax: 52.63dBpV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

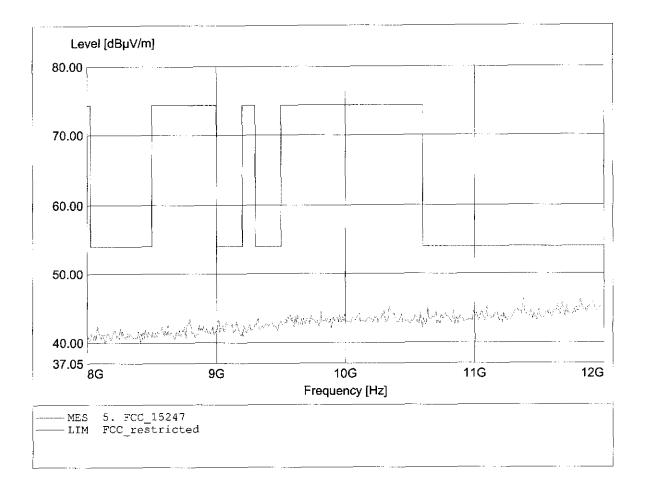
Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

Freq: 11.816GHz, Emax: 46.59dBpV/m, RBW: 1MHz

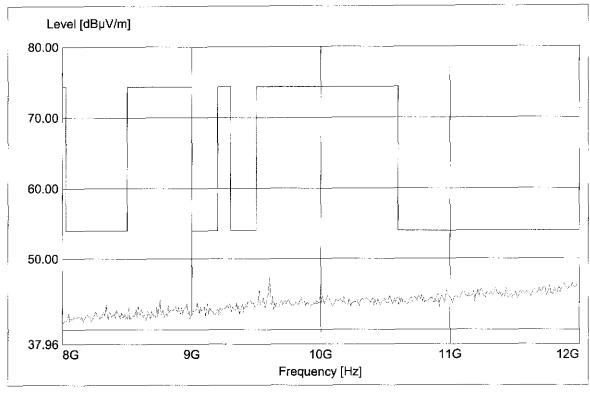


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 9.603GHz, Emax: 47.36dBpV/m, RBW: 1MHz



MES 5. FCC_15247
—— LIM FCC_restricted

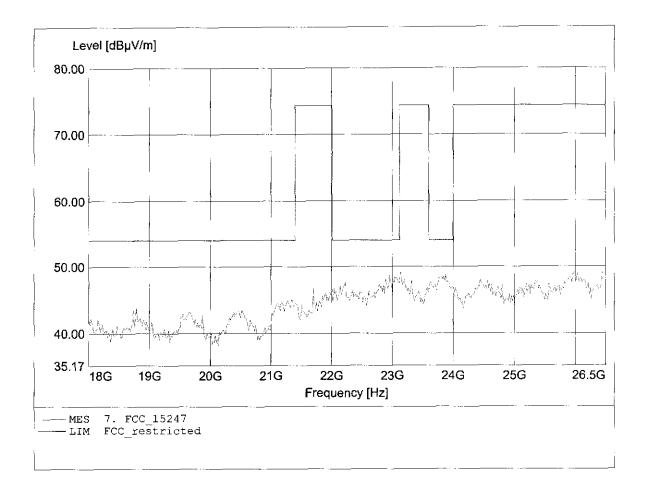
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 25.989GHz, Emax: 49.18dBμV/m, RBW: 1MHz Comment 2:

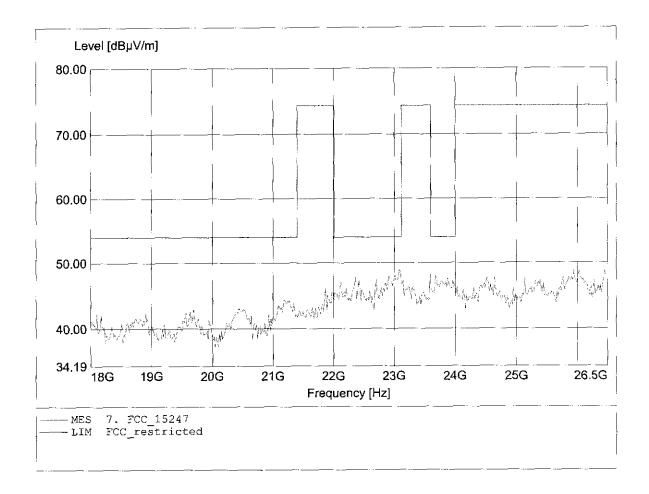


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 23.093GHz, Emax: 48.96dBµV/m, RBW: 1MHz



Approval Holder: Siemens AG A&D SE RD 51

EUT: Mobile Panel

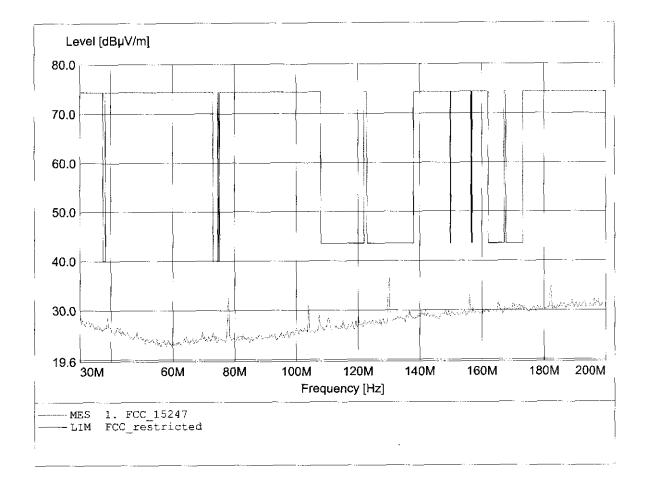
Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

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

Comment 2: Freq: 130.160MHz, Emax: 36.48dBµV/m, RBW: 100kHz



Approval Holder: Siemens AG A&D SE RD 51

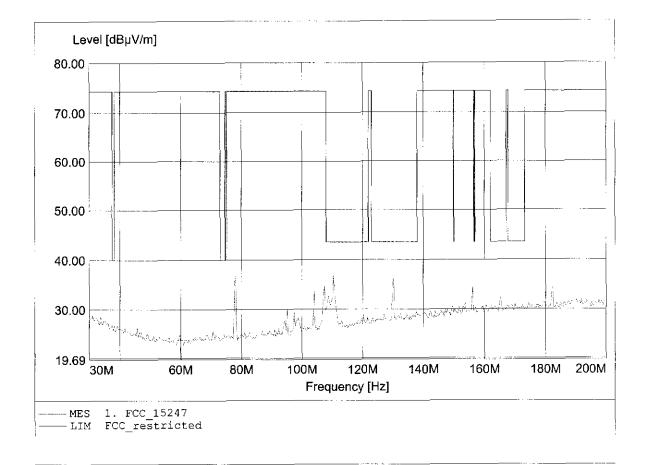
Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247 Comment 1:

Dist.: 3m, Ant.: HK 116 Freq: 110.401MHz, Emax: 37.32dBµV/m, RBW: 100kHz Comment 2:



Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

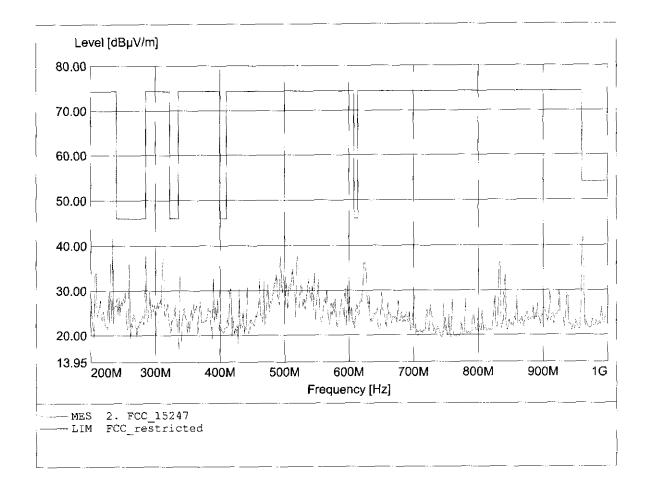
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 961.523MHz, Emax: 41.88dBµV/m, RBW: 100kHz Comment 2:



Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

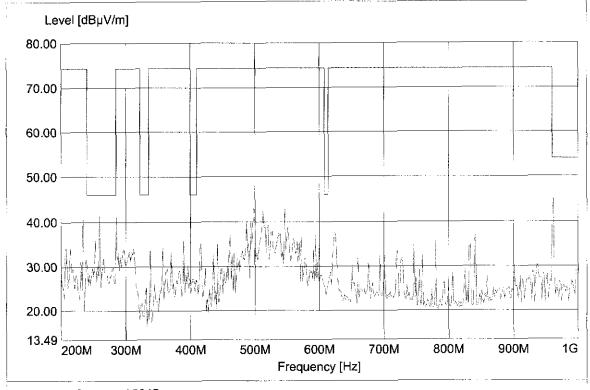
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

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

Dist.: 3m, Ant.: nb 223, amp411.
Freq: 961.523MHz, Emax: 44.93dBµV/m, RBW: 100kHz Comment 2:



--- MES 2. FCC_15247 --- LIM FCC_restricted

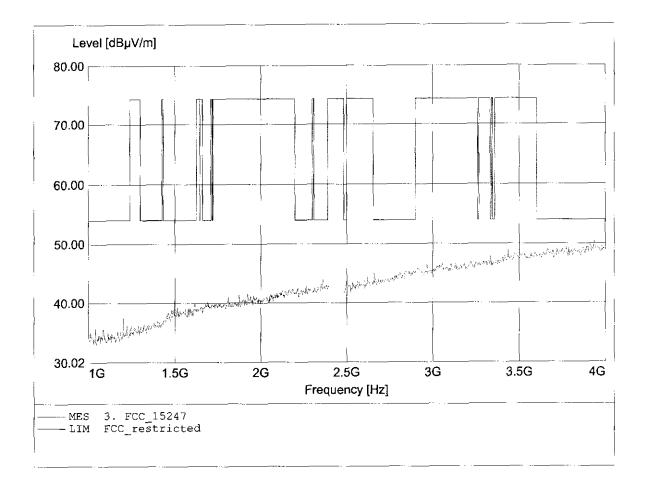
Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 3.933GHz, Emax: 50.47dBuV/m, RBW: 1MHz Comment 2:



Approval Holder: Siemens AG A&D SE RD 51

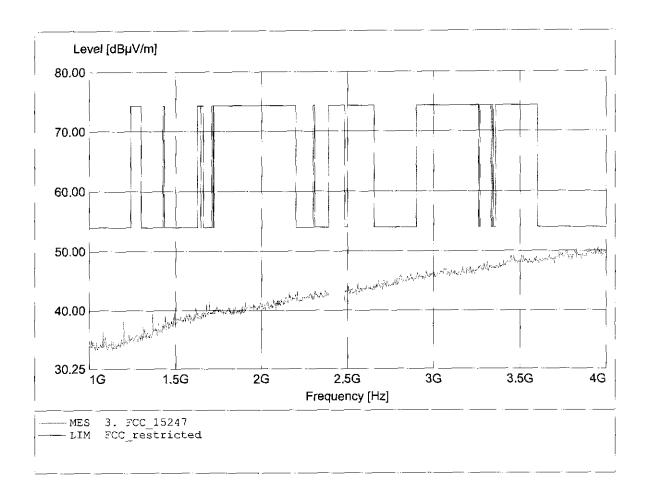
EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2: Freq: 3.951GHz, Emax: 50.76dBpV/m, RBW: 1MHz

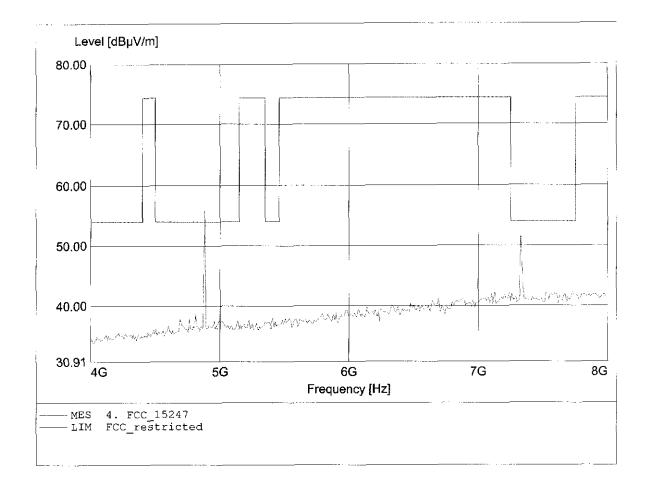


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 55.83dBµV/m, RBW: 1MHz

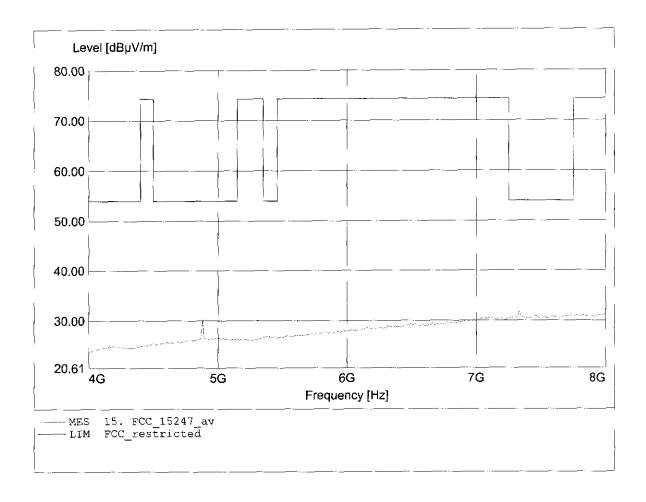


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:l / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.327GHz, Emax: 31.89dBpV/m, RBW: 1MHz



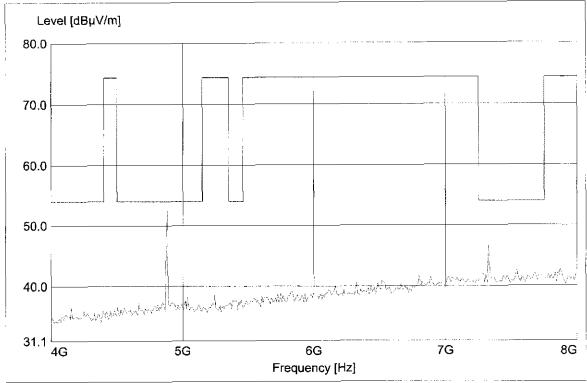
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 52.57dBµV/m, RBW: 1MHz



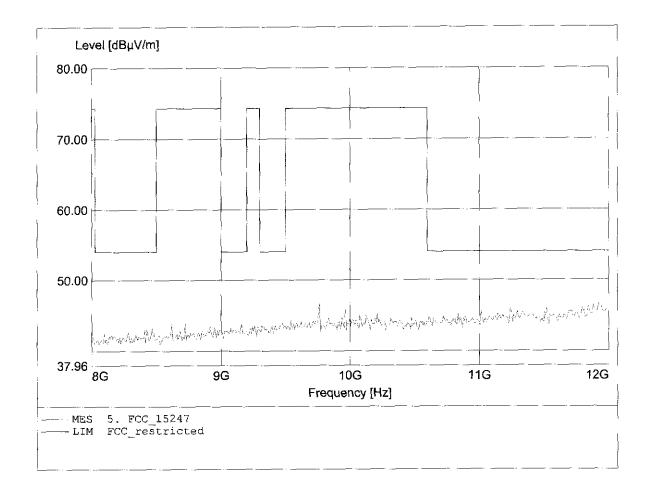
---- MES 4. FCC_15247 ---- LIM FCC_restricted

Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 9.764GHz, Emax: 46.92dBpV/m, RBW: 1MHz



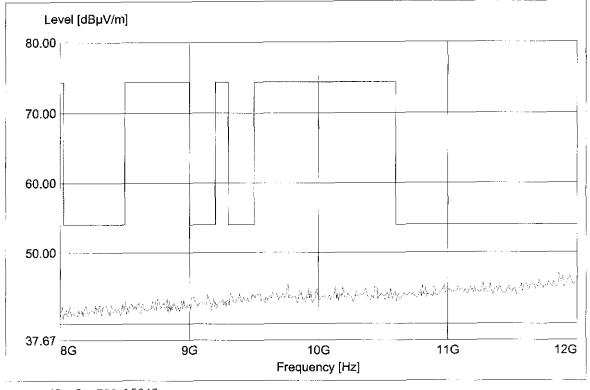
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Freq: 11.856GHz, Emax: 47.03dBμV/m, RBW: 1MHz Comment 2:



-MES 5. FCC_15247 -LIM FCC_restricted

Approval Holder: Siemens AG A&D SE RD 51

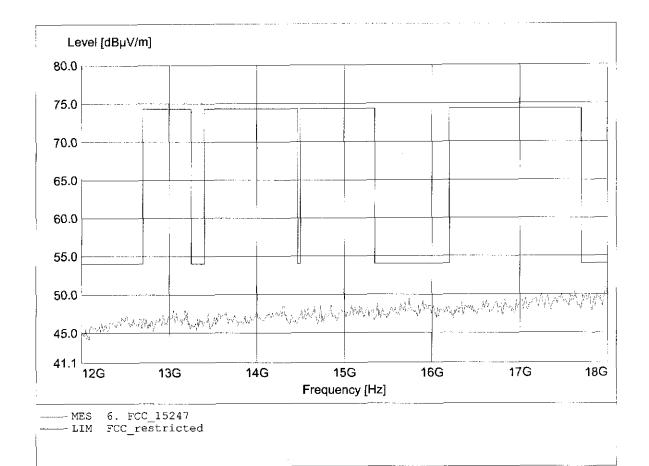
Mobile Panel

EUT: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Freq: 17.976GHz, Emax: 50.85dBμV/m, RBW: 1MHz Comment 2:

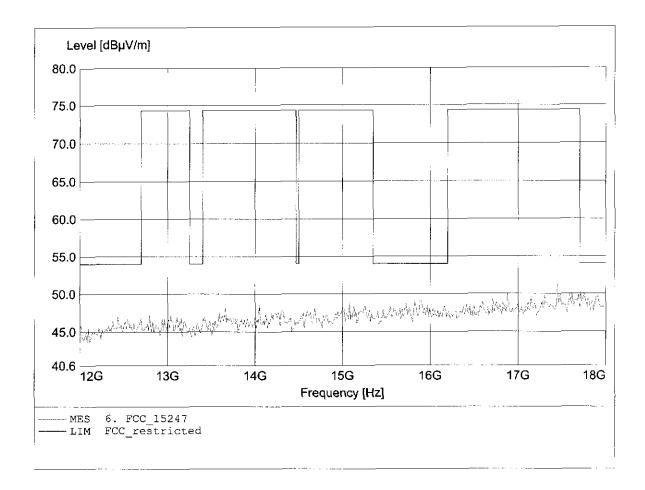


Siemens AG A&D SE RD 51 Approval Holder:

EUT: Mobile Panel

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

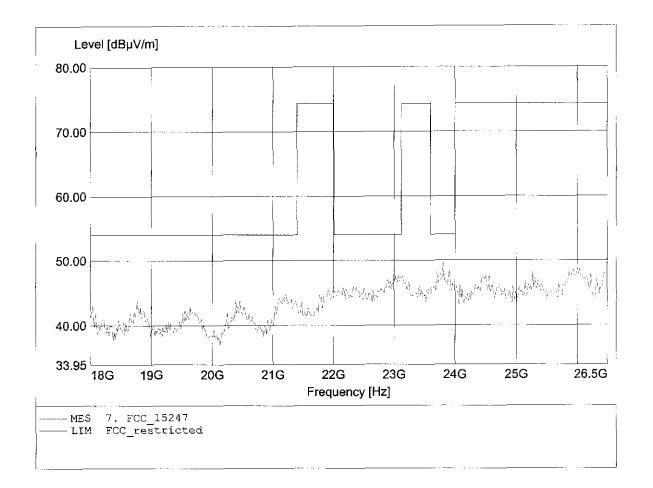
Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Dist.: 3m, Ant.: HL025, ampl.+HP. Freq: 17.447GHz, Emax: 51.29dBpV/m, RBW: 1MHz Comment 1: Comment 2:



Siemens AG A&D SE RD 51 Approval Holder:

EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 23.809GHz, Emax: 49.67dBpV/m, RBW: 1MHz

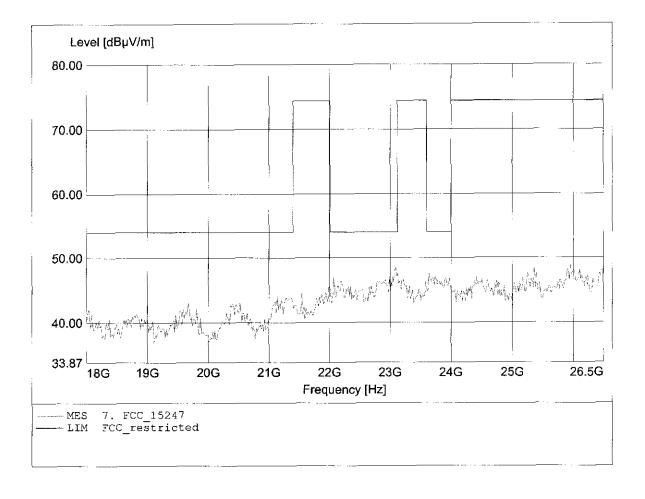


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.955GHz, Emax: 48.88dBpV/m, RBW: 1MHz



Siemens AG A&D SE RD 51 Approval Holder:

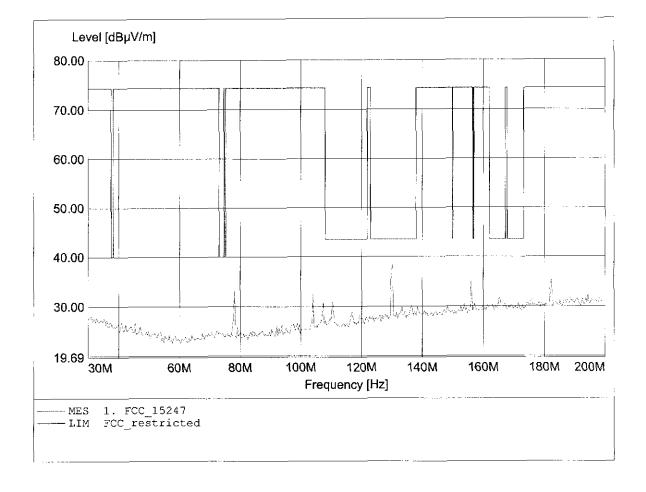
EUT: Mobile Panel

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

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

Dist.: 3m, Anc.: na 110 Freq: 130.160MHz, Emax: 38.36dBpV/m, RBW: 100kHz Comment 2:



Siemens AG A&D SE RD 51 Approval Holder:

EUT:

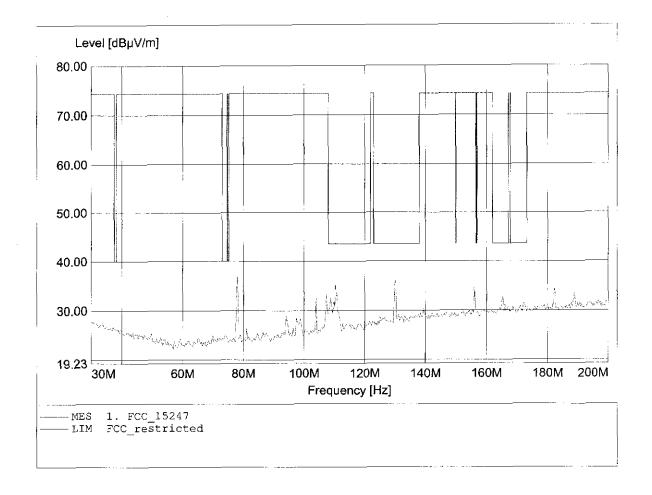
Mobile Panel
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1: Comment 2:

Dist.: 3m, Ant.: HK 116 Freq: 78.036MHz, Emax: 36.92dBpV/m, RBW: 100kHz



Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

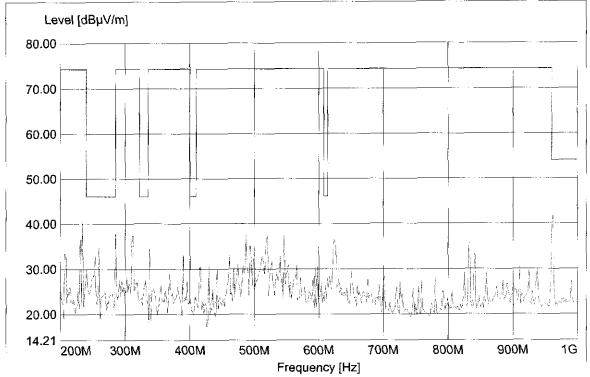
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

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

Dist.: 3m, Ant.: nL 223, ampite. Freq: 233.667MHz, Emax: 41.86dBpV/m, RBW: 100kHz Comment 2:



- MES 2. FCC_15247 -- LIM FCC_restricted

Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

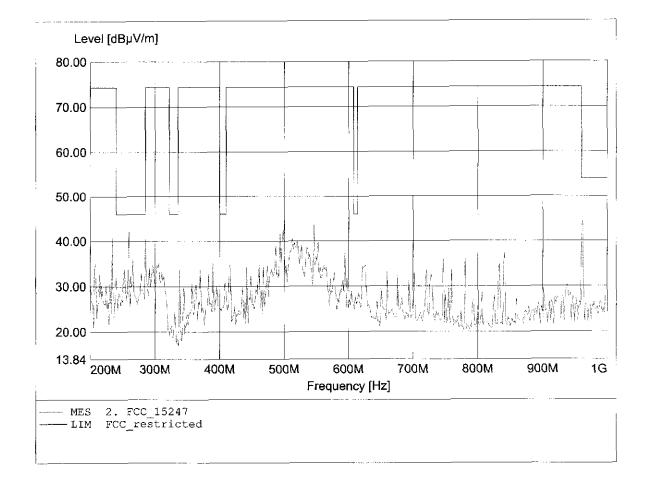
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

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

Dist.: 3m, Ant.: nh 223, αμφέρες. Freq: 961.523MHz, Emax: 45.00dBμV/m, RBW: 100kHz Comment 2:



Approval Holder: Siemens AG A&D SE RD 51

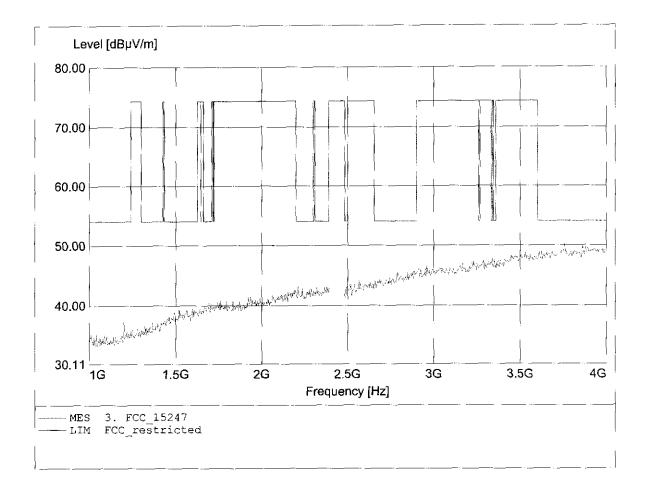
EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2: Freq: 3.754GHz, Emax: 50.19dBµV/m, RBW: 1MHz



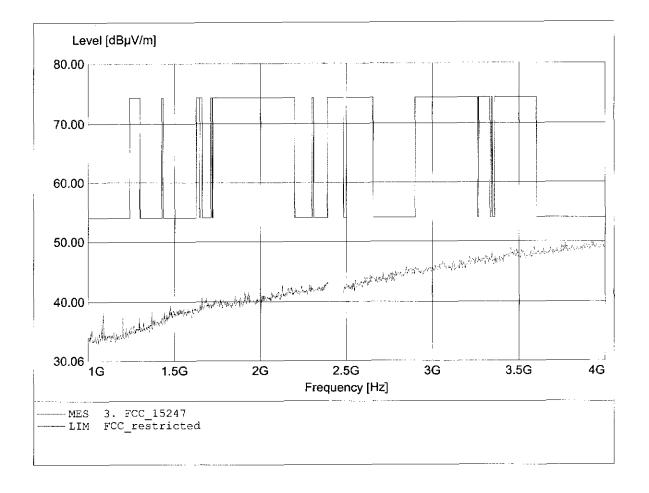
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 3.930GHz, Emax: 49.92dBpV/m, RBW: 1MHz Comment 2:



Approval Holder: Siemens AG A&D SE RD 51

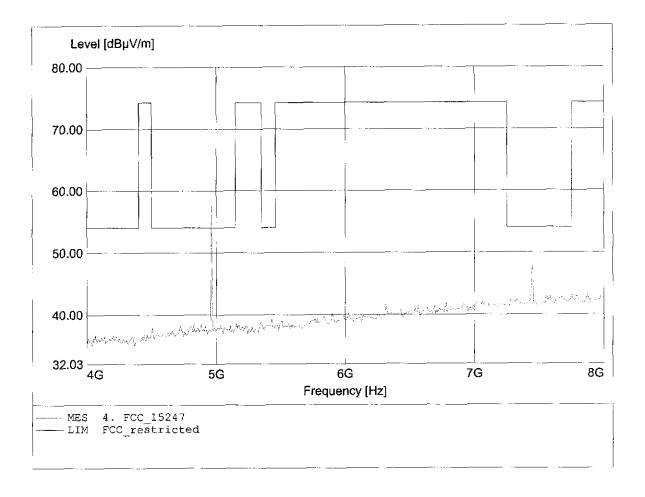
EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:l / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2: Freq: 4.962GHz, Emax: 57.60dBpV/m, RBW: 1MHz



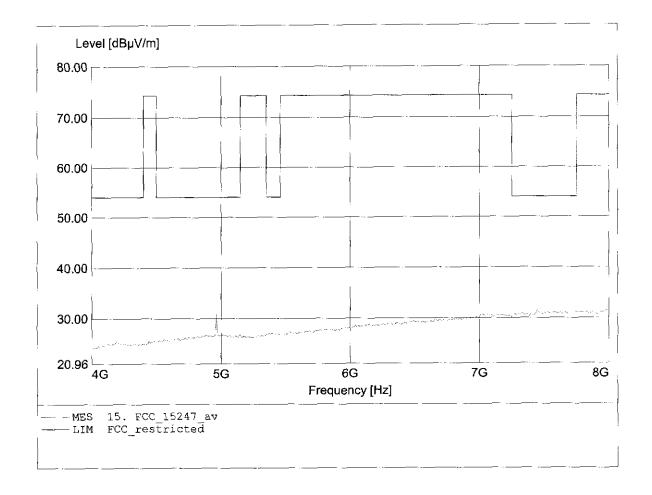
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, average detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Freq: 7.447GHz, Emax: 31.64dBpV/m, RBW: 1MHz Comment 2:

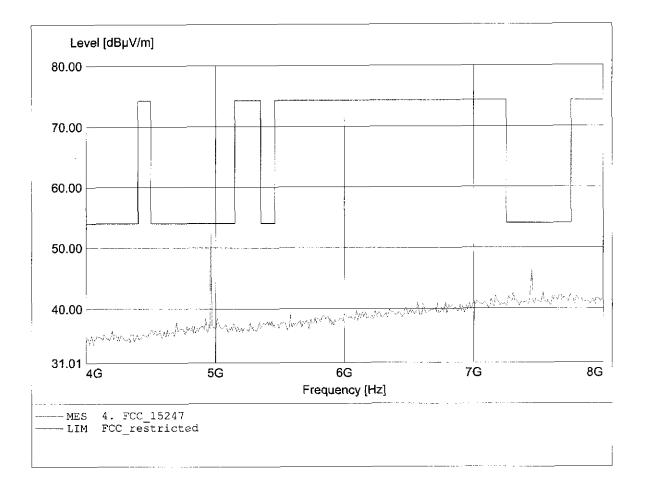


Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 53.29dBpV/m, RBW: 1MHz

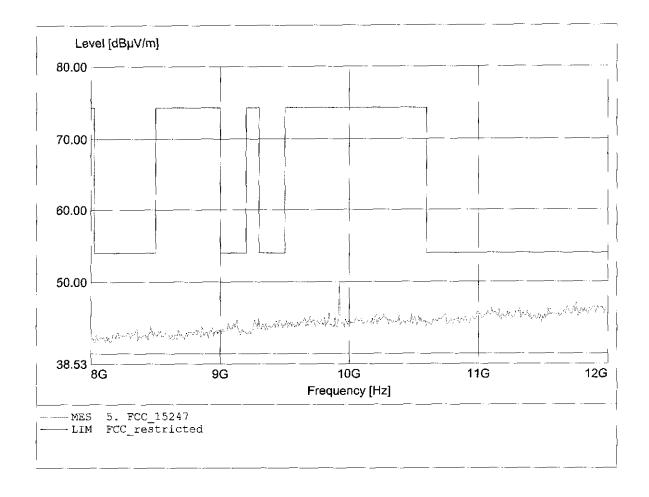


Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 9.924GHz, Emax: 49.72dBµV/m, RBW: 1MHz



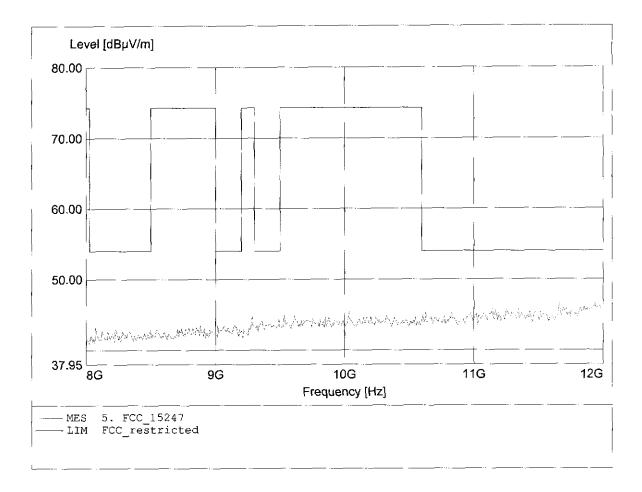
Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Art.: HL025, ampl.+HP.

Comment 2: Freq: 11.655GHz, Emax: 46.63dBuV/m, RBW: 1MHz



Approval Holder: Siemens AG A&D SE RD 51

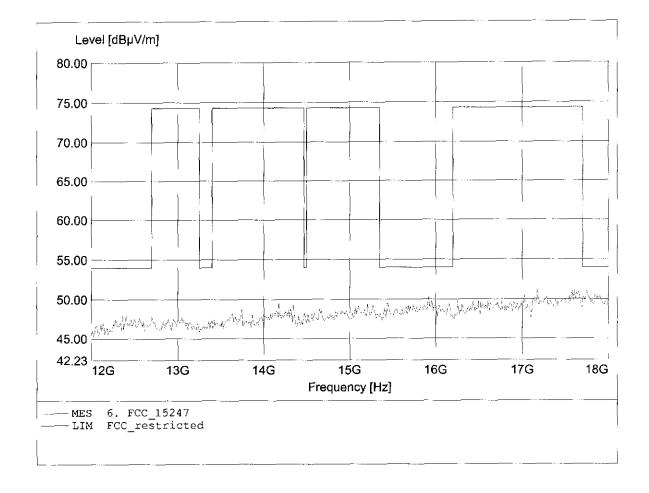
EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2: Freq: 17.170GHz, Emax: 51.13dBpV/m, RBW: 1MHz



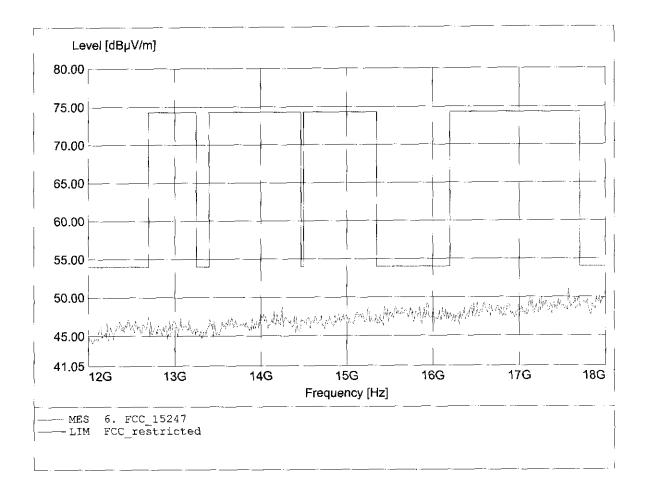
Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Freq: 17.567GHz, Emax: 51.14dBpV/m, RBW: 1MHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

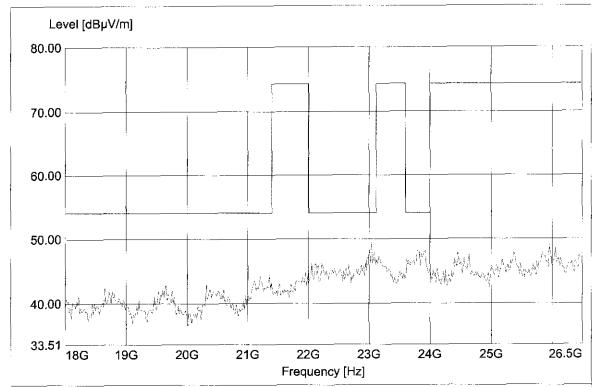
Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 23.042GHz, Emax: 49.36dBμV/m, RBW: 1MHz



--- MES 7. FCC_15247 --- LIM FCC_restricted

Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

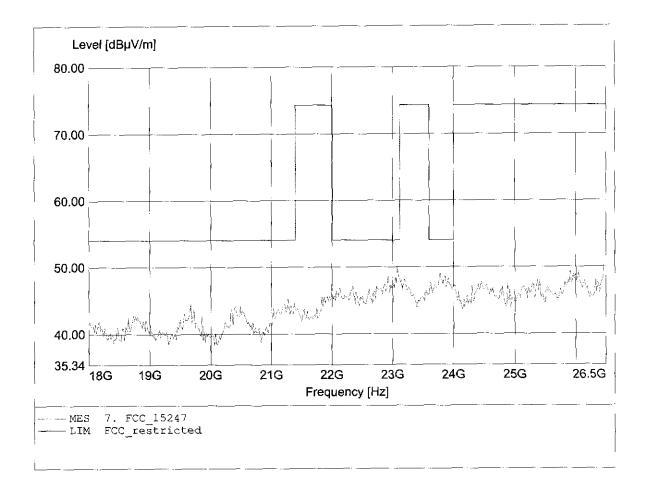
Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Dist.: 3m, Ant.. n2020, amp222. Freq: 26.466GHz, Emax: 50.38dBpV/m, RBW: 1MHz



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

Approval Holder: Siemens AG A&D SE RD 51

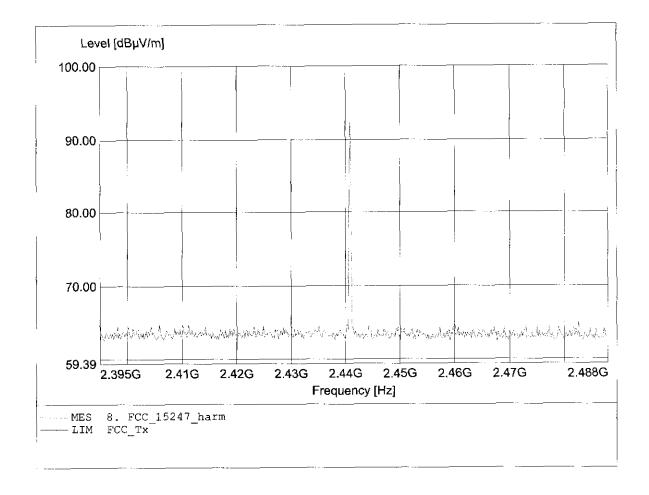
Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Mid EUT:

Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247 Comment 1: Dist.: 3m, Ant.: HL025

Dist.: 3m, Anc.: hbo25 Freq: 2.441GHz, Emax: 92.42dBpV/m, RBW: 100kHz Comment 2:



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

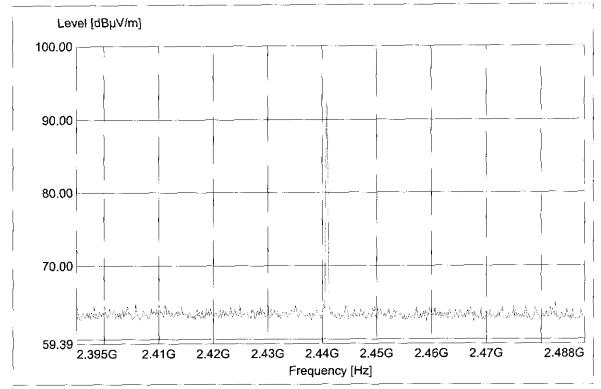
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Mid EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247 Comment 1: Dist.: 3m, Ant.: HL025

Dist.: 3m, Anc.: nbo25 Freq: 2.441GHz, Emax: 92.42dBpV/m, RBW: 100kHz Comment 2:



MES 8. FCC_15247_harm
LIM FCC_Tx

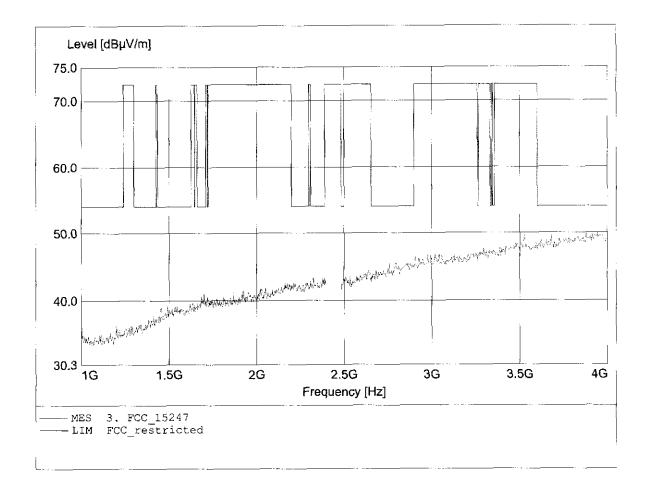
Approval Holder: Siemens AG A&D SE RD 51

EUT: Mobile Panel / ant.: 2 / worst case Model: Mobile Panel 277 / WLAN / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2: Freq: 3.878GHz, Emax: 50.25dBuV/m, RBW: 1MHz

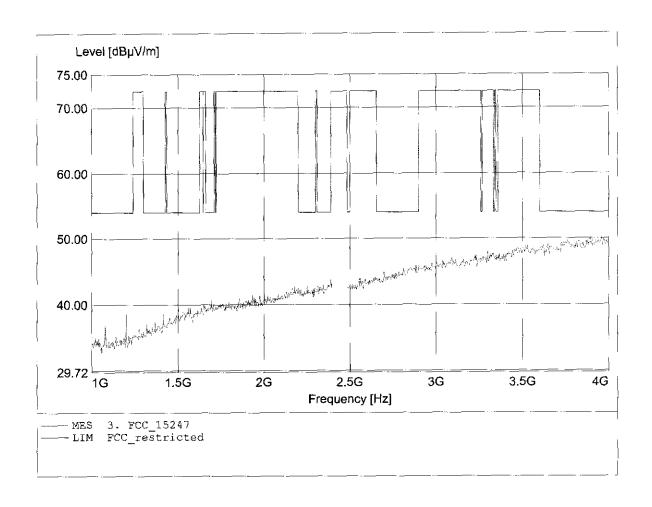


Approval Holder:

Siemens AG A&D SE RD 51 Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Low EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 3.960GHz, Emax: 50.17dBpV/m, RBW: 1MHz Comment 2:



Approval Holder:

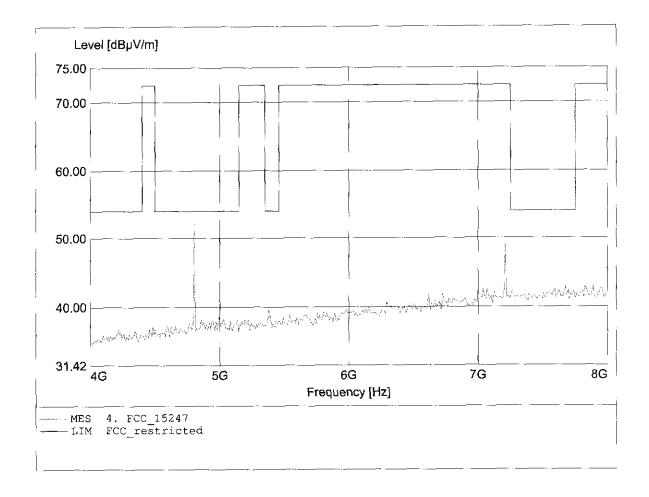
Siemens AG A&D SE RD 51

EUT: Model: Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

Freq: 4.802GHz, Emax: 52.19dBpV/m, RBW: 1MHz

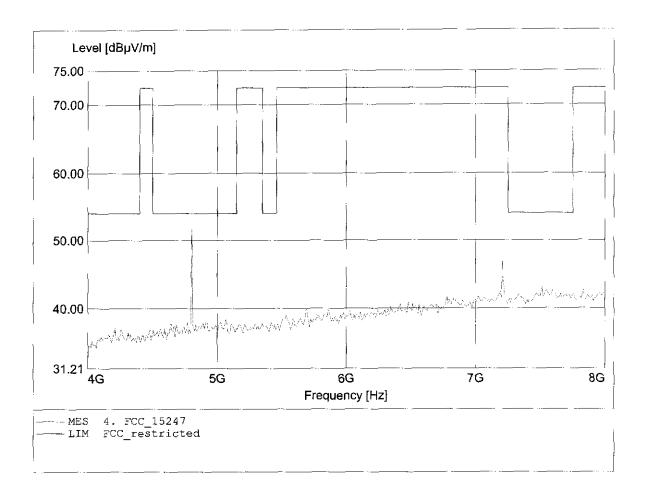


Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Low EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Freq: 4.802GHz, Emax: 51.72dBpV/m, RBW: 1MHz Comment 2:



Approval Holder:

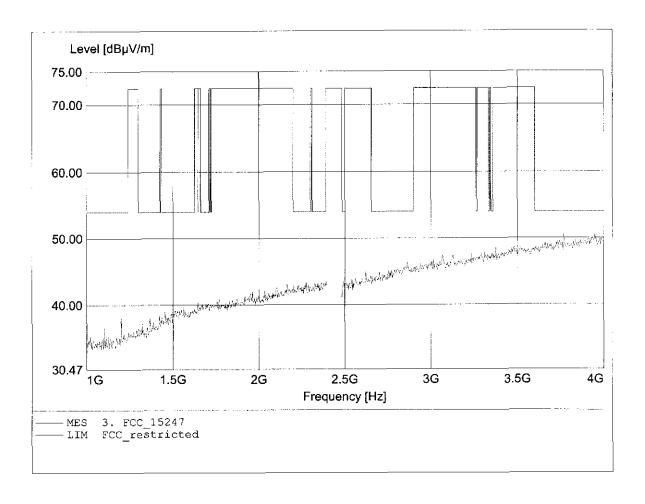
Siemens AG A&D SE RD 51

EUT: Model: Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.766GHz, Emax: 50.59dBpV/m, RBW: 1MHz

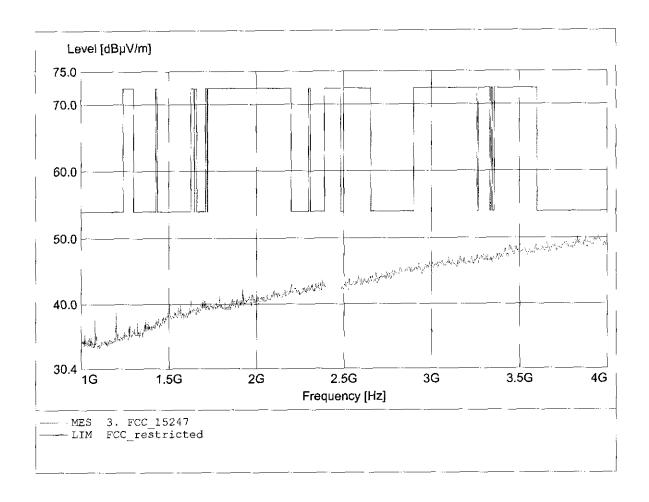


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Mid EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 3.830GHz, Emax: 50.53dBpV/m, RBW: 1MHz

Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

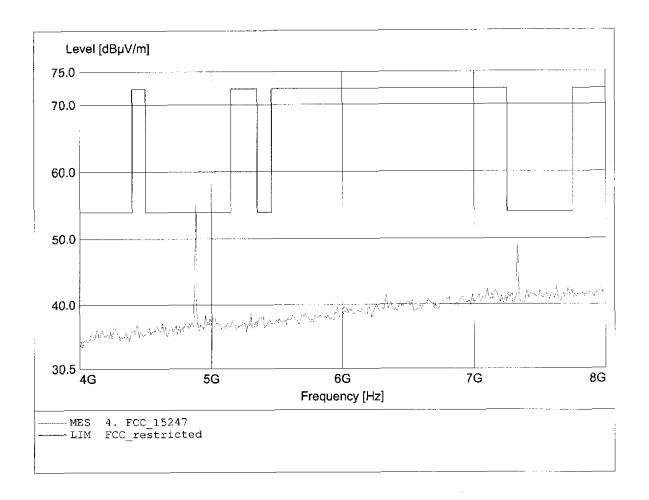
EUT: Model: Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

Freq: 4.882GHz, Emax: 55.00dBpV/m, RBW: 1MHz

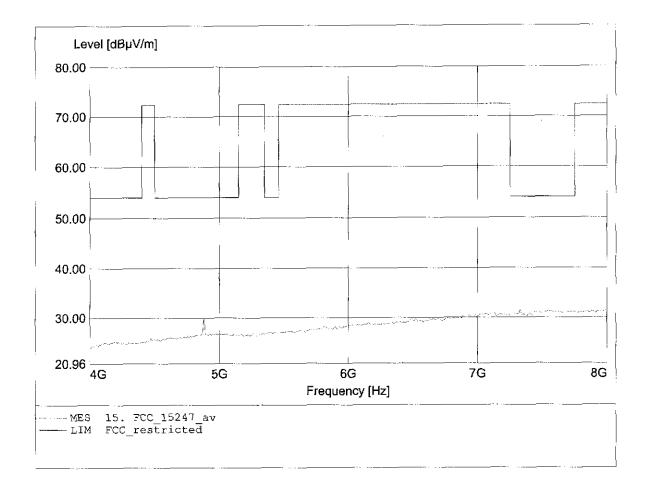


Approval Holder:

Siemens AG A&D SE RD 51 Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Mid EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, average detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

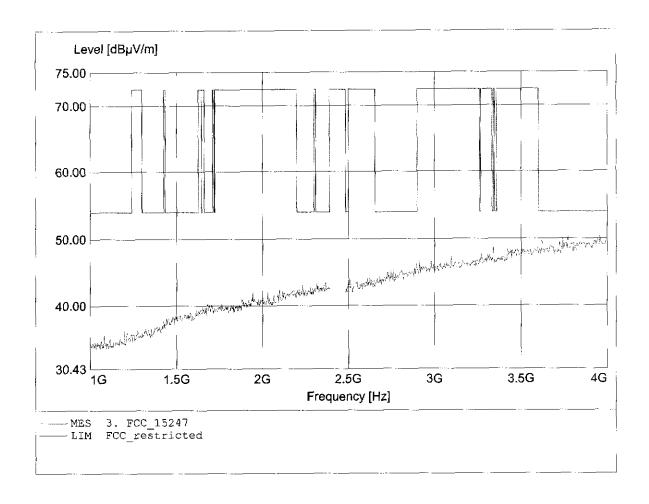
Freq: 7.327GHz, Emax: 31.50dBpV/m, RBW: 1MHz Comment 2:



Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: High EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 3.957GHz, Emax: 50.50dBpV/m, RBW: 1MHz

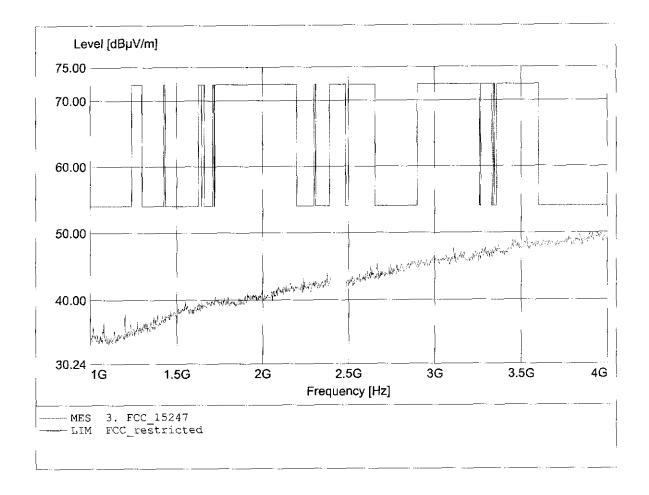


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: High EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 3.900GHz, Emax: 50.07dBμV/m, RBW: 1MHz Comment 2:



Approval Holder:

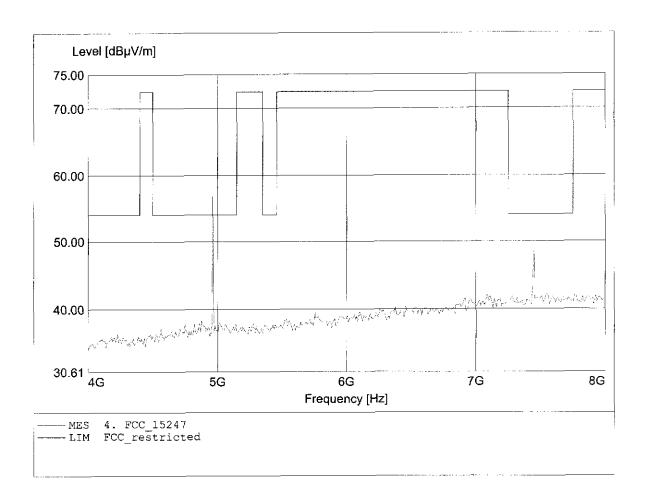
EUT: Model: Siemens AG A&D SE RD 51 Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

Freq: 4.962GHz, Emax: 56.80dBuV/m, RBW: 1MHz

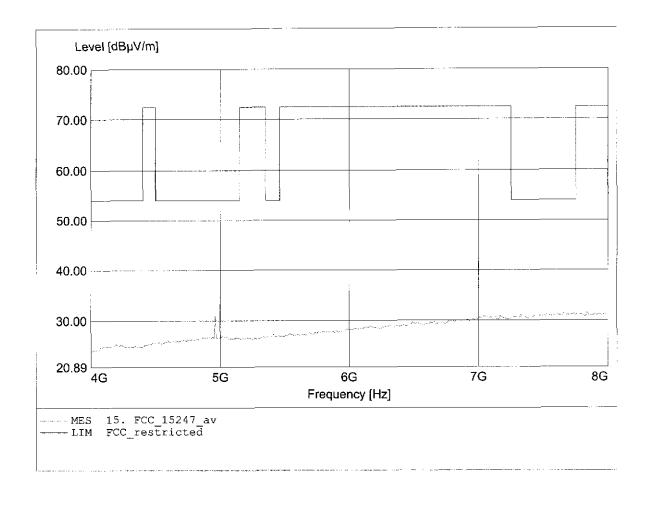


Approval Holder:

Siemens AG A&D SE RD 51

EUT: Model: Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: High

Model: Mobile Panel 277 / WLAN / Chilp / Chil.
Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.840GHz, Emax: 31.61dBµV/m, RBW: 1MHz





Appendix H

AC power line conducted emissions

Registration number: G0M20706-1478-C-2 Appendix H

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

EUT:

Mobile Panel 277 I WLAN

Manufacturer:

Siemens AG A&D SE RD 51

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

Test Site:

ETS Mr. Marquardt

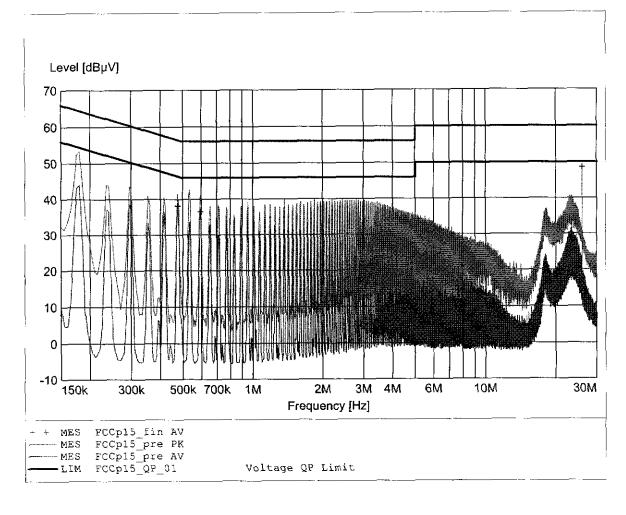
Operator:

Test Specification: V-Network: ESH2-Z5 (L1)

Comment:

model: 6AV6645-0DC01-0AX0

mode: charging



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

EUT: Manufacturer: Mobile Panel 277 I WLAN Siemens AG A&D SE RD 51

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

Test Site:

ETS

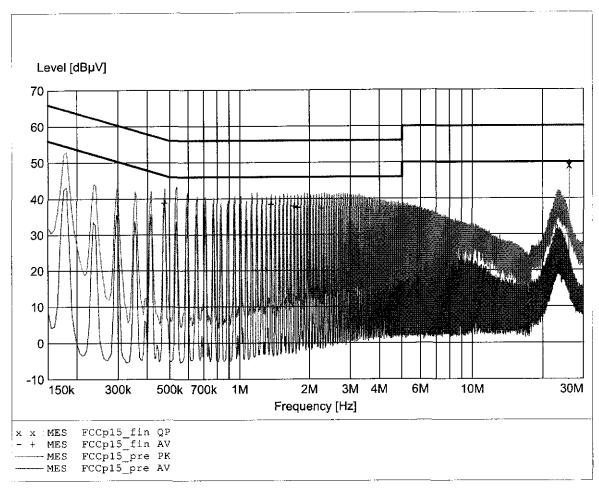
Operator:

Mr. Marquardt

Comment:

Test Specification: V-Network: ESH2-Z5 (N/L1) model: 6AV6645-0DC01-0AX0

mode: charging





Appendix I

Receiver spurious emissions

Registration number: G0M20706-1478-C-2 Appendix I

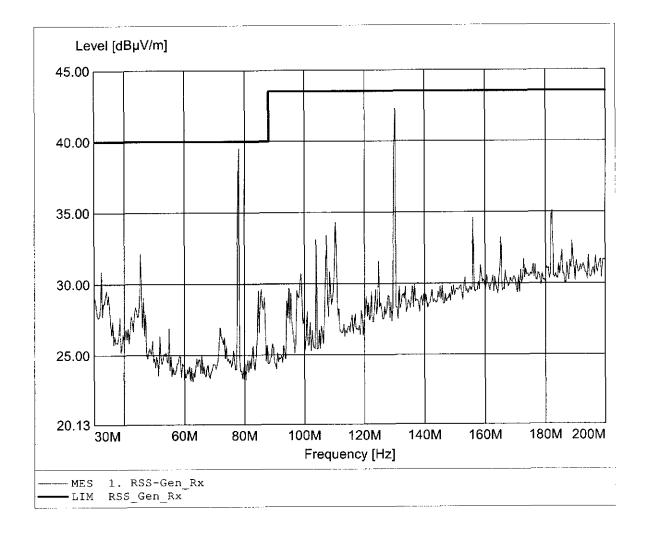
Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:130.160MHz Emax: 42.30dBµV/m RBW: 100 kHz



Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

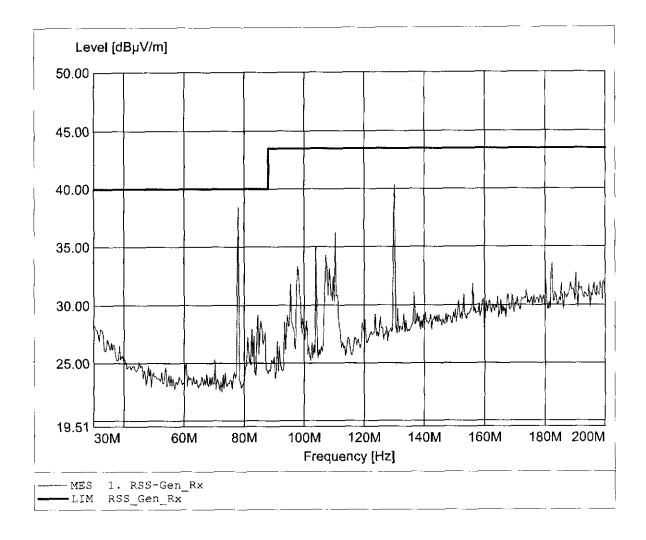
Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Specification: according to RSS-Gen Issue 1

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

Freq:130.160MHz Emax:40.33dBuV/m RBW: 100 kHz Comment 2:



Standards Industry Canada, RSS-GEN

Approval Holder:

Siemens AG A&D SE RD 51

EUT:

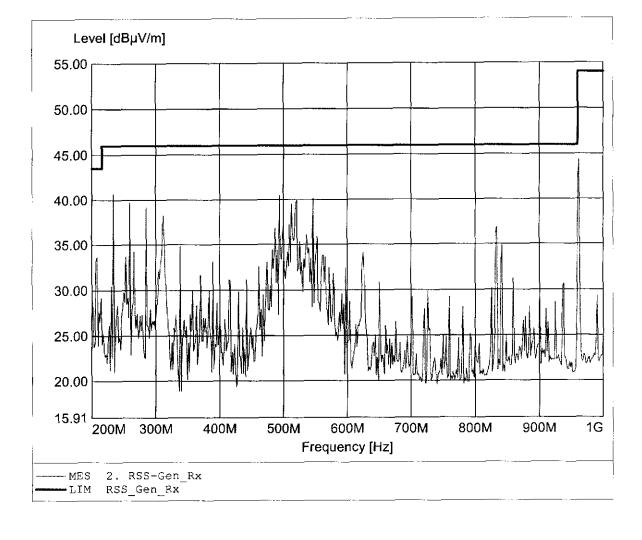
Mobile Panel

Model:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Condition:
Test Specification:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: HL 223, ampl.
Freq:961.523MHz Emax:44.35dBµV/m RBW: 100 kHz



Standards Industry Canada, RSS-GEN

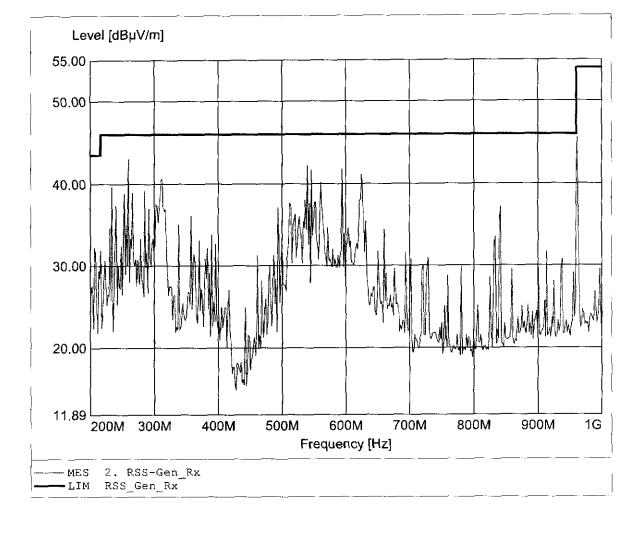
Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Condition:
Test Specification:
Comment 1:
Dist.: 3m, Ant.: HL 223, ampl.
Freq:961.523MHz Emax:45.60dBµV/m RBW: 100 kHz



Standards Industry Canada, RSS-GEN

Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid

Test Condition:

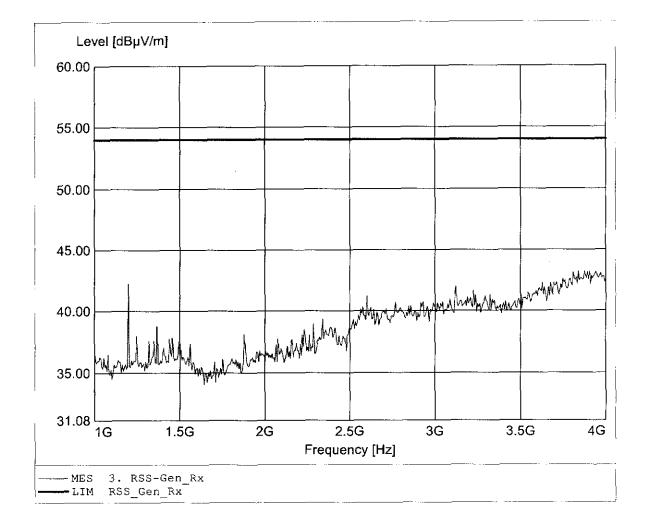
Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor) / notch filter

Test Specification:

according to RSS-Gen Issue 1

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl. Freq:3.838GHz Emax:43.22dBpV/m RBW: 1 MHz



Standards Industry Canada, RSS-GEN

Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

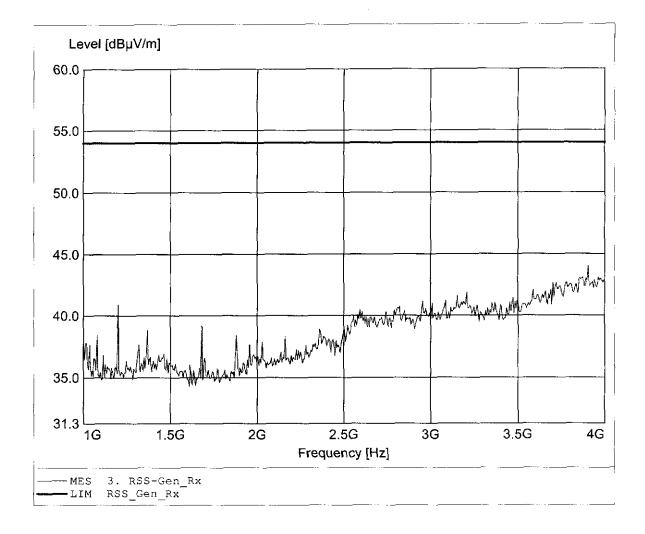
Model: Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor) / notch filter

according to RSS-Gen Issue 1 Test Specification:

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

Freq:3.904GHz Emax:44.03dBpV/m RBW: 1 MHz Comment 2:



Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

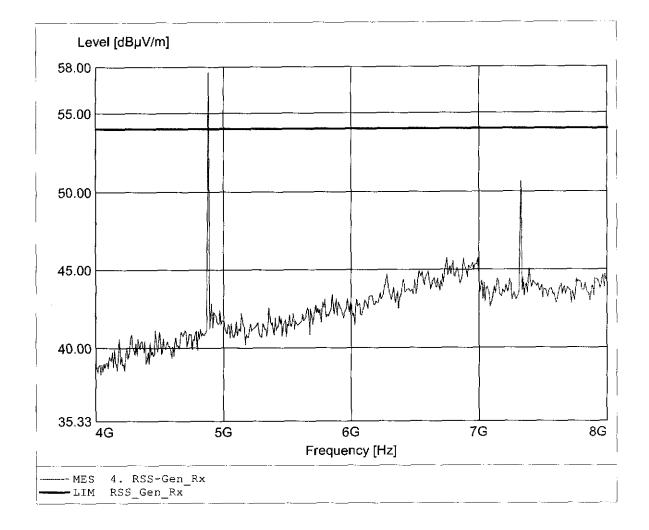
Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC Test Condition: (AC/DC-adaptor)

according to RSS-Gen Issue 1 Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.

Comment 1: Freq:4.882GHz Emax:57.64dBpV/m RBW: 1 MHz Comment 2:



Standards Industry Canada, RSS-GEN

Approval Holder:

Siemens AG A&D SE RD 51 Mobile Panel EUT:

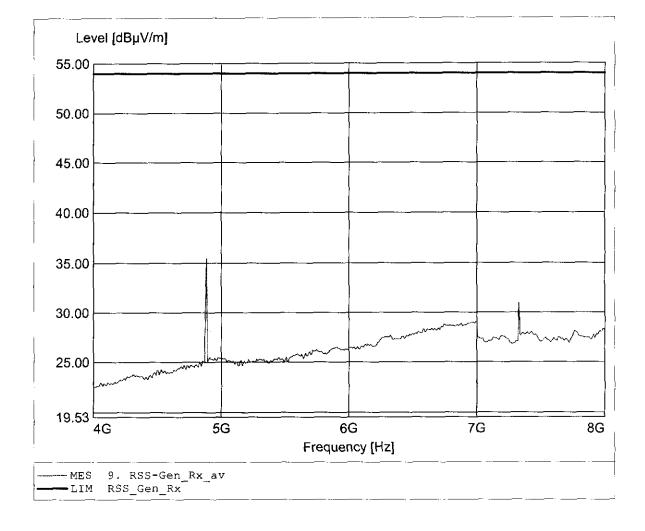
Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor) Test Condition:

according to RSS-Gen Issue 1 Test Specification:

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

Freq:4.882GHz Emax:35.46dBuV/m RBW: 1 MHz Comment 2:



Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

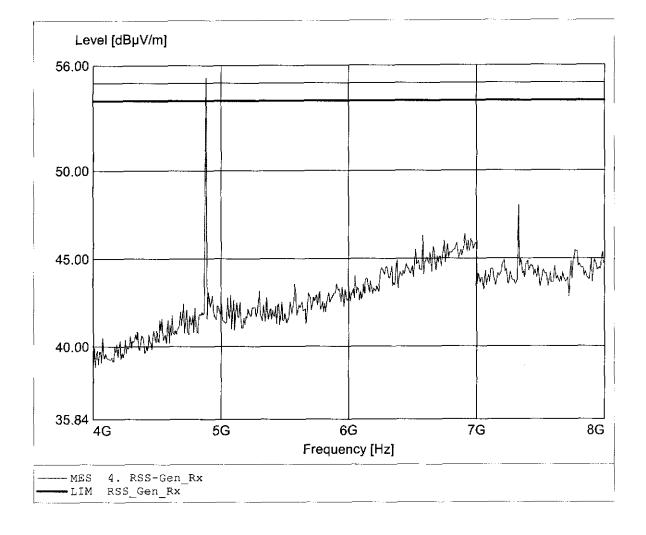
Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor) Test Condition:

according to RSS-Gen Issue 1Test Specification: Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.

Freq:4.882GHz Emax:55.29dBuV/m RBW: 1 MHz Comment 2:



Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

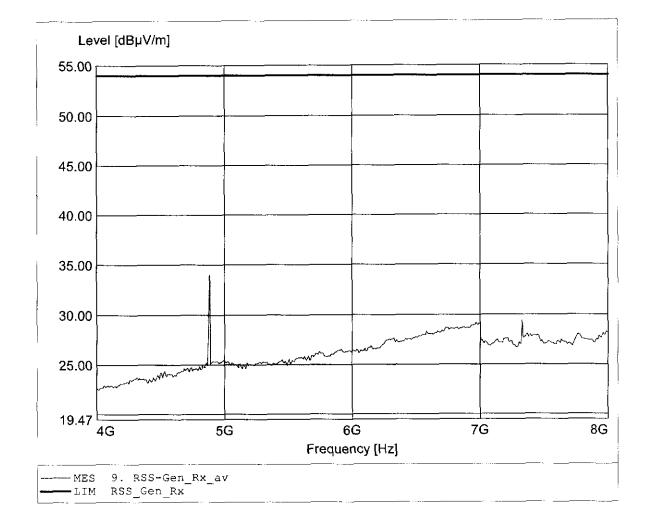
Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

according to RSS-Gen Issue 1 Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.

Comment 1: Freq:4.882GHz Emax:33.99dBpV/m RBW: 1 MHz Comment 2:



Standards Industry Canada, RSS-GEN

Approval Holder: Siemens AG A&D SE RD 51

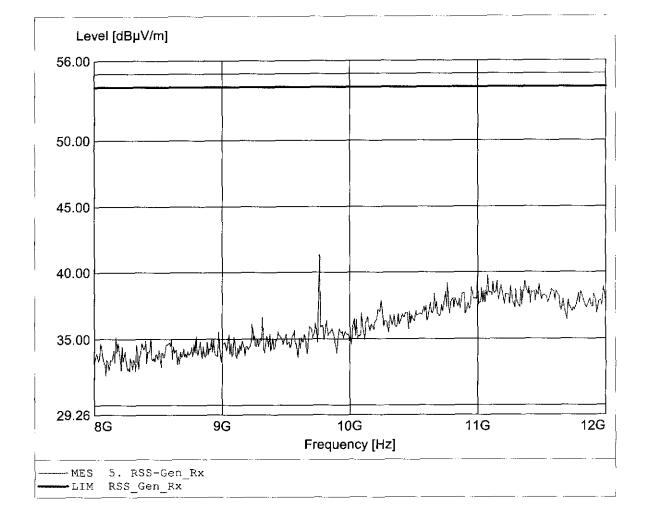
Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC Test Condition: (AC/DC-adaptor)

according to RSS-Gen Issue 1 Test Specification:

Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl. Freq:9.764GHz Emax:41.34dBuV/m RBW: 1 MHz Comment 2:



Standards Industry Canada, RSS-GEN

Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC

Test Condition:

(AC/DC-adaptor)

Test Specification:

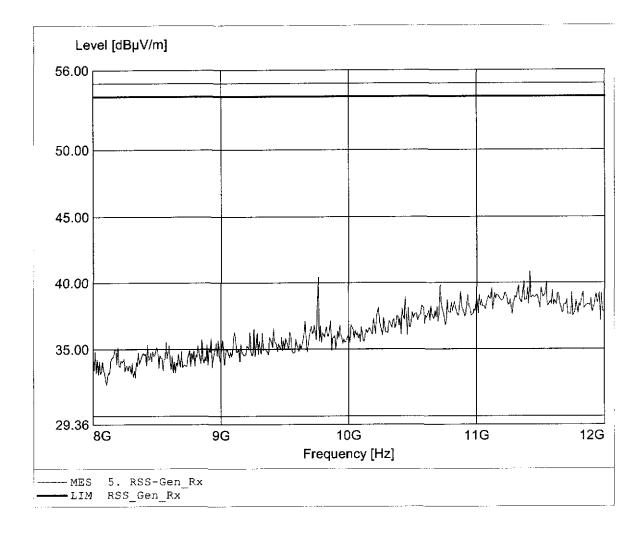
according to RSS-Gen Issue 1

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.

Comment 2:

Freq:11.415GHz Emax:40.83dBpV/m RBW: 1 MHz





Appendix B

RF power output conducted

Registration number: G0M20706-1478-C-2



Appendix C

RF power output radiated (EIRP)

Registration number: G0M20706-1478-C-2 Appendix C



Appendix D

6 dB bandwidth; Occupied bandwidth (99% BW)

Registration number: G0M20706-1478-C-2



FCC part 15.247 (a)2 Minimum 6 dB Bandwidth

EUT Mobile Panel for Industry Automation

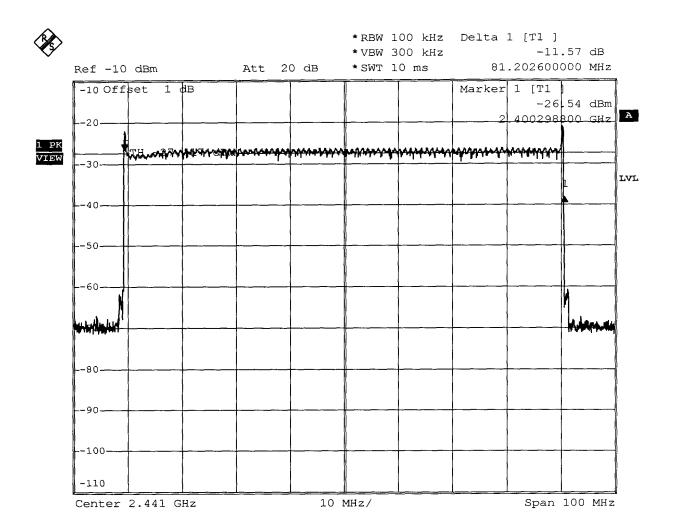
Model Mobile Panel 277 Wireless

Approval Holder Siemens AG
Temperature / Voltage 23°C / Vnom

Test Site / Operator ETS Product Service AG / Mr. Treffke

Test Specification FCC part 15.247 (a)2
Comment 1 Minimum 6 dB Bandwidth

Comment 2 Css modulation Comment 3 Chirp only



Comment: 6 dB bandwidth: 81202.6 KHz > 500 KHz; verdict: PASS

Date: 28.AUG.2007 11:15:59



RSS Gen Occupied Bandwidth

EUT

Mobile Panel for Industry Automation

Model

Mobile Panel 277 Wireless

Approval Holder

Siemens AG

Temperature / Voltage

23°C / Vnom

Test Site / Operator

ETS Product Service AG / Mr. Treffke

Test Specification

4.4.1 Occupied Bandwidth

Comment 1

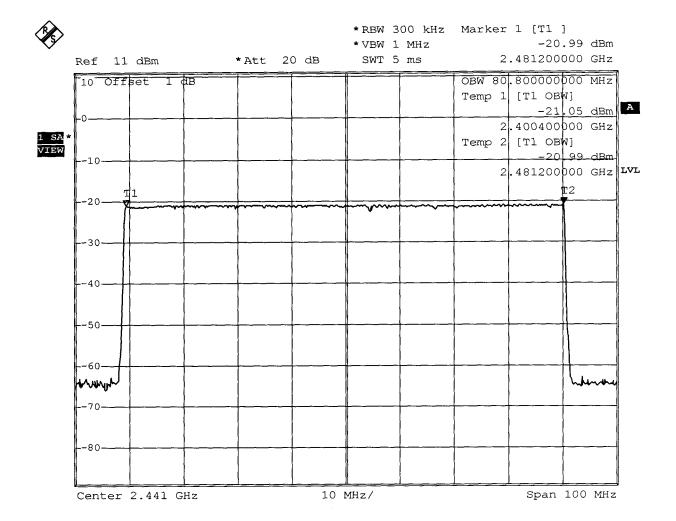
CSS modulation

Comment 2

A spectrum analyzer with an integrated 99% power bandwidth function is used

Comment 3

Mode: Chirp only



Comment: Occupied bandwidth: 80800 KHz

Date:

28.AUG.2007 11:28:50



Appendix E

Peak power spectral density

Registration number: G0M20706-1478-C-2



FCC part 15.247 (d) Power spectral density (PSD)

EUT Mobile Panel for Industry Automation

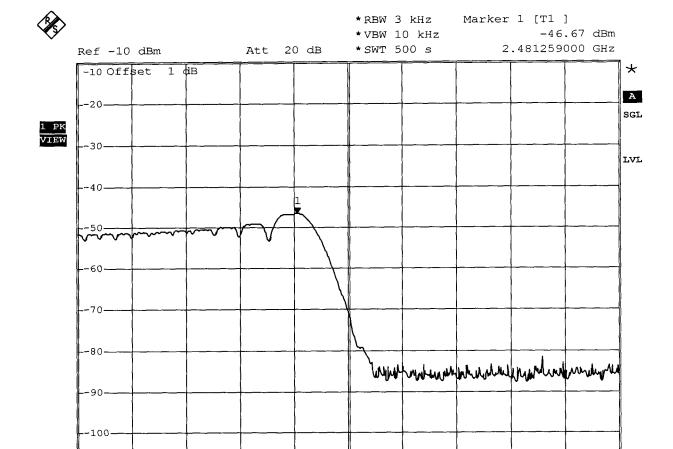
Model Mobile Panel 277 Wireless

Approval Holder Siemens AG
Temperature / Voltage 23°C / Vnom

Test Site / Operator
Test Specification
Comment 1

ETS Product Service AG / Mr. Treffke
FCC part 15.247 (d) (PSD Option1)
Power spectral density conducted

Comment 2 CSS modulation
Comment 3 Mode: Chirp only



Date: 28.AUG.2007 10:39:29

Center 2.4814 GHz

-110

150 kHz/

Span 1.5 MHz



Appendix F

Spurious emissions conducted

Registration number: G0M20706-1478-C-2 Appendix F



Appendix G

Spurious emissions radiated

Registration number: G0M20706-1478-C-2 Appendix G

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

Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

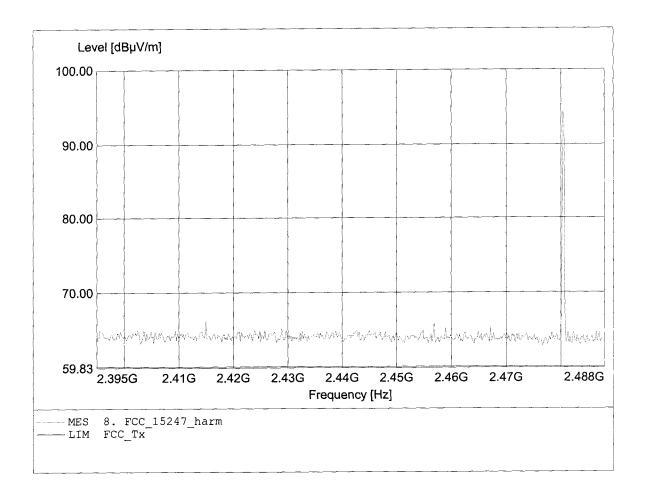
Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247 Comment 1: Dist.: 3m, Ant.: HL025

Comment 2:

Freq: 2.480GHz, Emax: 94.31dBpV/m, RBW: 100kHz



Siemens AG A&D SE RD 51 Approval Holder:

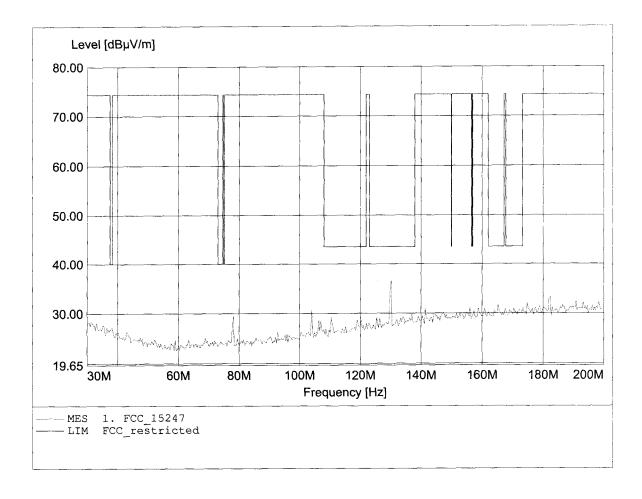
Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

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

Dist.: 3m, Ant.: hk 110
Freq: 130.160MHz, Emax: 36.53dBµV/m, RBW: 100kHz Comment 2:



Approval Holder: Siemens AG A&D SE RD 51

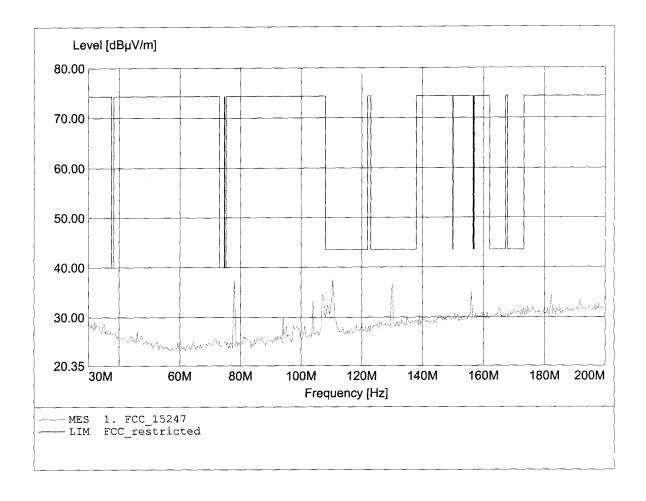
Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247

Comment 1: Comment 2:

Dist.: 3m, Ant.: HK 116 Freq: 110.401MHz, Emax: 37.53dBpV/m, RBW: 100kHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

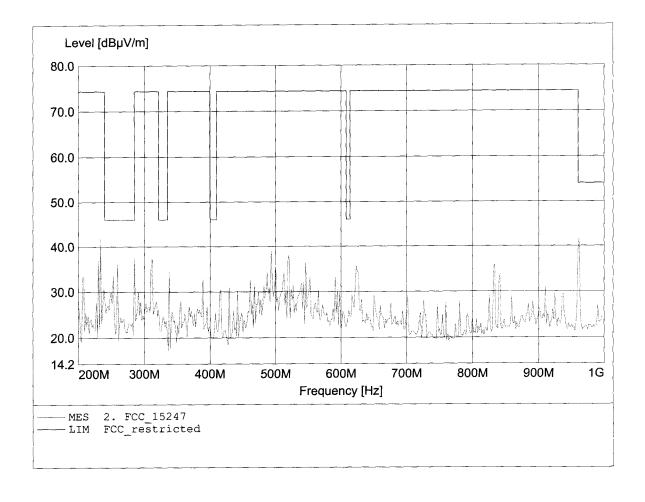
Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 233.667MHz, Emax: 41.75dBpV/m, RBW: 100kHz



Siemens AG A&D SE RD 51 Approval Holder:

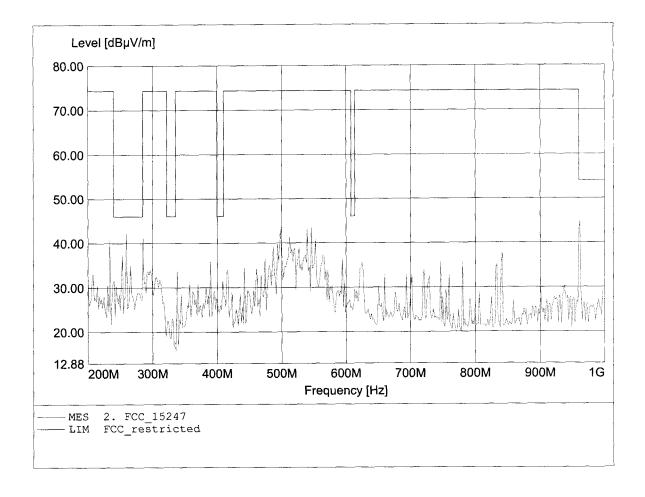
EUT:

Mobile Panel
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Dist.: 3m, Ant.: nL 223, ampile.
Freq: 961.523MHz, Emax: 44.70dBpV/m, RBW: 100kHz Comment 2:



Approval Holder: Siemens AG A&D SE RD 51

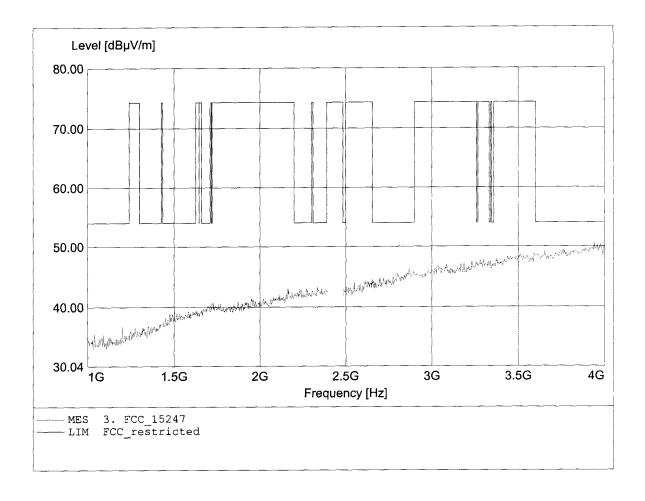
EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2: Freq: 3.939GHz, Emax: 50.51dBpV/m, RBW: 1MHz

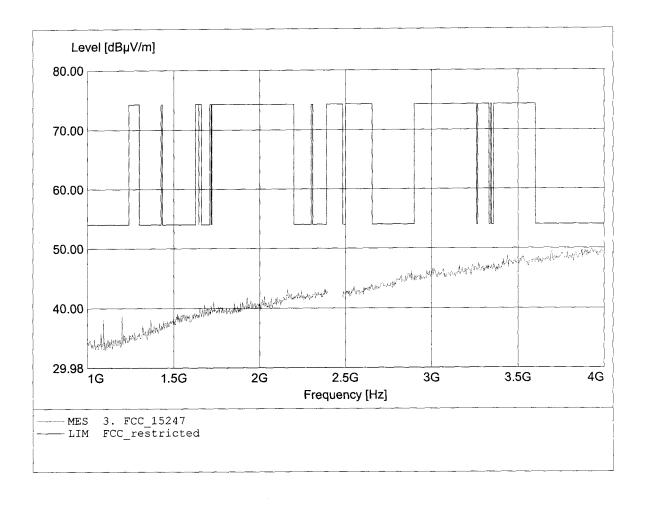


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 3.927GHz, Emax: 49.85dBpV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

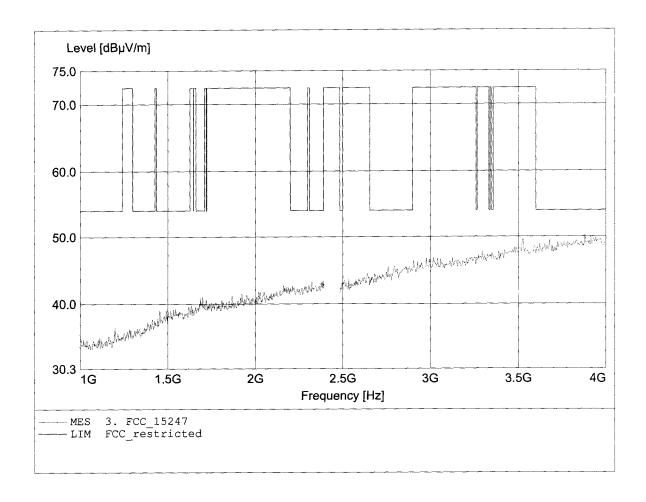
EUT: Model: Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.878GHz, Emax: 50.25dBpV/m, RBW: 1MHz

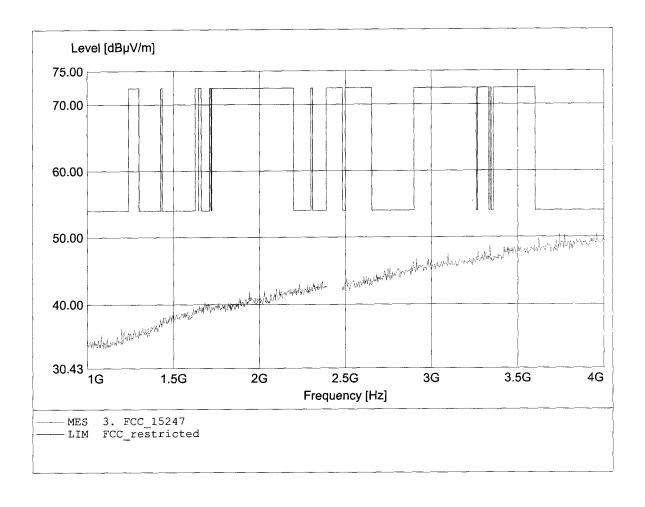


Approval Holder:

Siemens AG A&D SE RD 51 Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: High EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 3.957GHz, Emax: 50.50dBpV/m, RBW: 1MHz Comment 2:

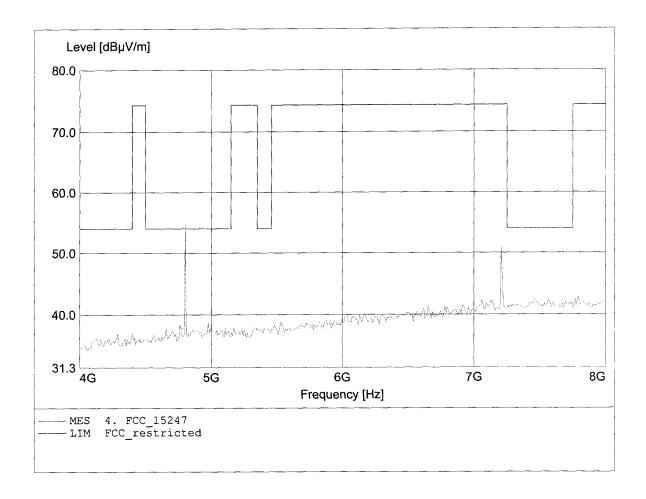


Siemens AG A&D SE RD 51 Approval Holder:

EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1:

Dist.: 3m, Ant.: HL025, ampl.+HP. Freq: 4.802GHz, Emax: 54.70dBµV/m, RBW: 1MHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

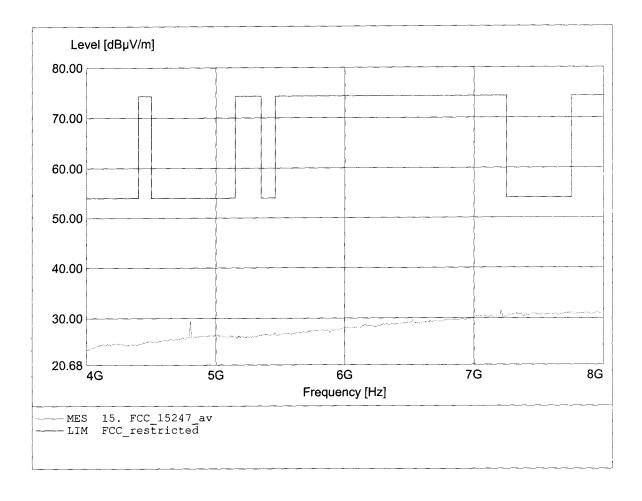
EUT:

Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.206GHz, Emax: 31.61dBpV/m, RBW: 1MHz



Approval Holder: Siemens AG A&D SE RD 51

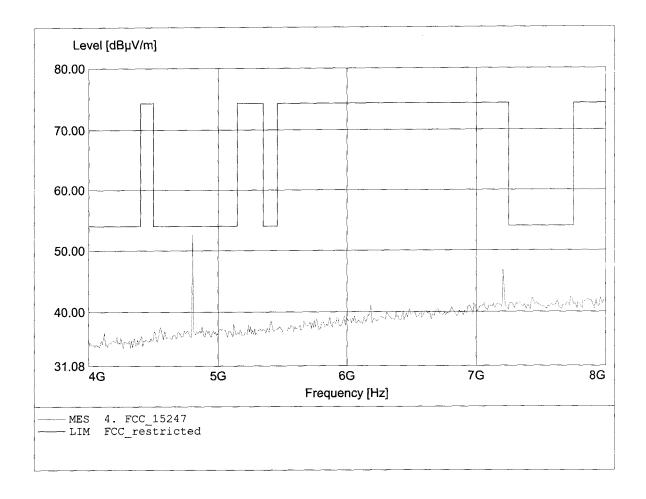
EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 1: DISC.: Sm, Anc. HB025, Gample 1. Comment 2: Freq: 4.802GHz, Emax: 52.63dBpV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

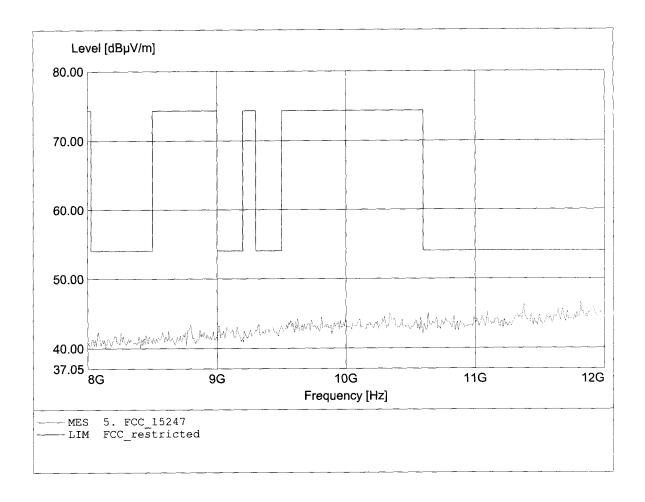
EUT:

Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.816GHz, Emax: 46.59dBµV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

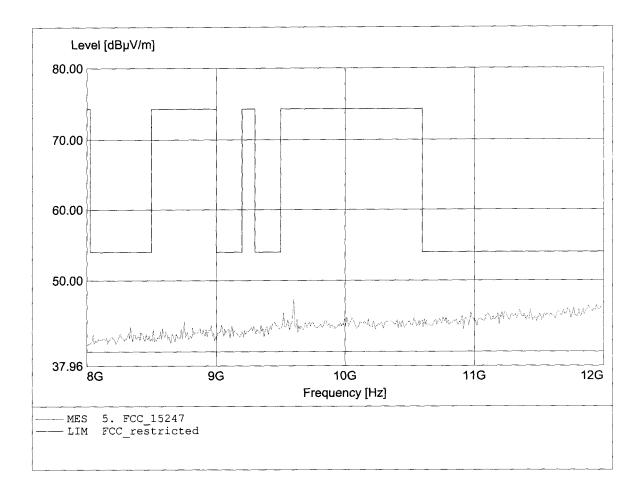
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

Freq: 9.603GHz, Emax: 47.36dBµV/m, RBW: 1MHz



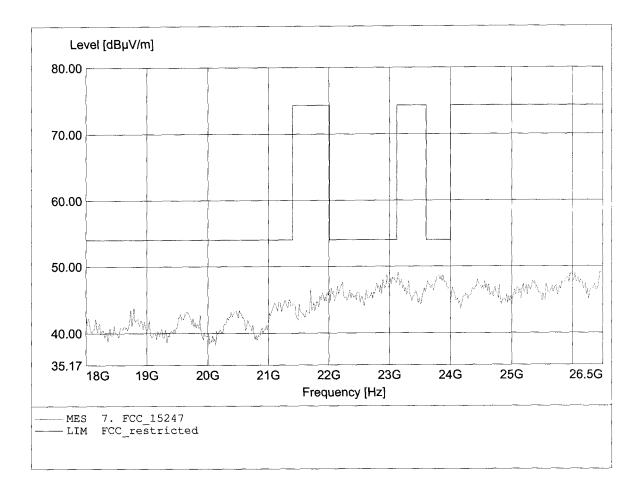
Siemens AG A&D SE RD 51 Approval Holder:

EUT:

Mobile Panel
Mobile Panel 277 / WLAN / ant.:l / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 25.989GHz, Emax: 49.18dBμV/m, RBW: 1MHz Comment 2:



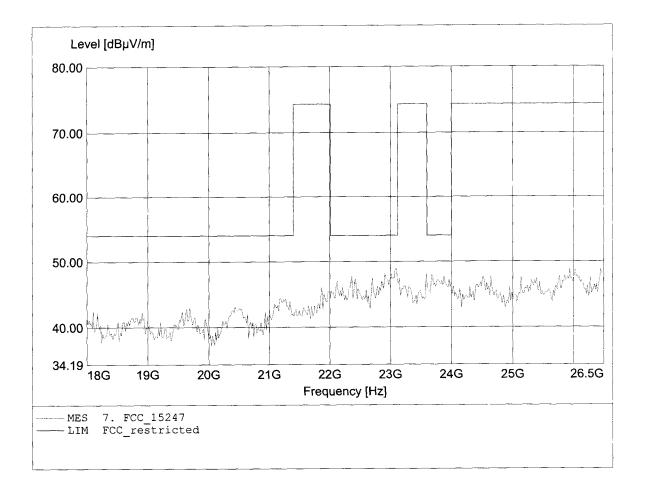
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Low Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Dist.: 3m, Ant.: nbv23, ampite. Freq: 23.093GHz, Emax: 48.96dBpV/m, RBW: 1MHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

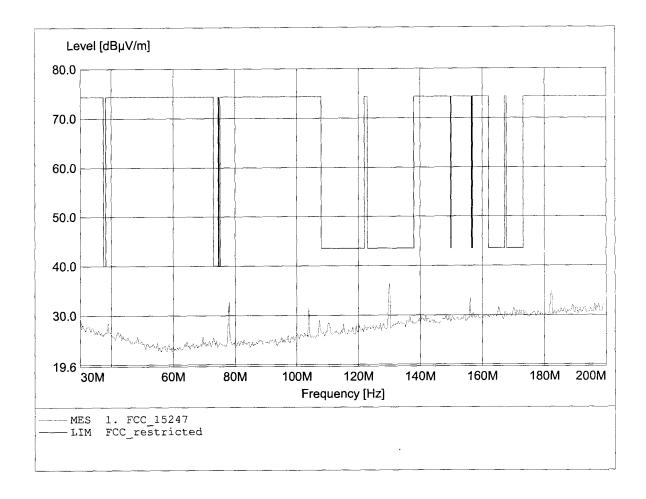
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1: Comment 2:

Dist.: 3m, Ant.: HK 116 Freq: 130.160MHz, Emax: 36.48dBµV/m, RBW: 100kHz



Approval Holder: Siemens AG A&D SE RD 51

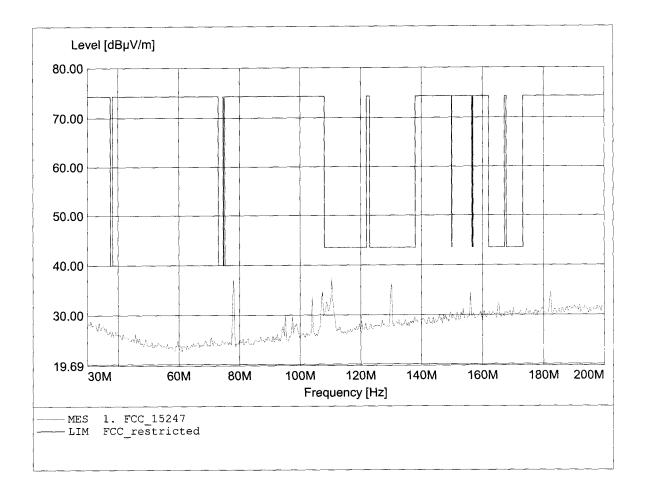
Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

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

Dist.: 3m, Ant.: nk 110 Freq: 110.401MHz, Emax: 37.32dBpV/m, RBW: 100kHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

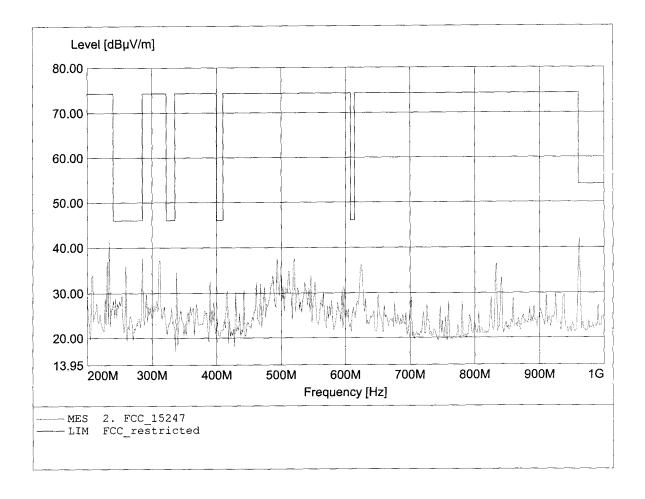
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 961.523MHz, Emax: 41.88dBµV/m, RBW: 100kHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

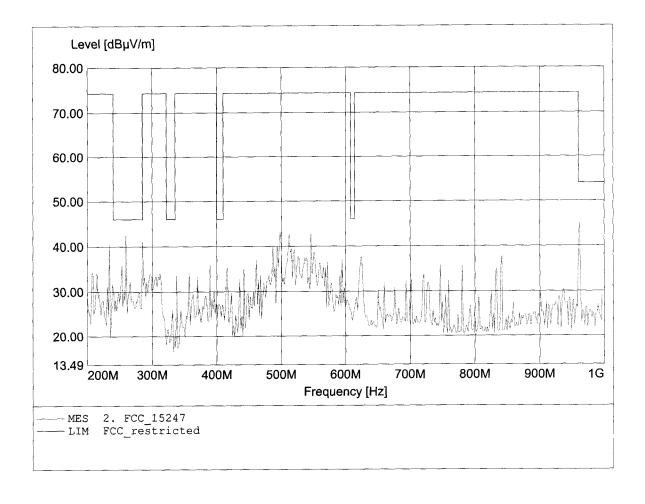
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1: Comment 2:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 961.523MHz, Emax: 44.93dBµV/m, RBW: 100kHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

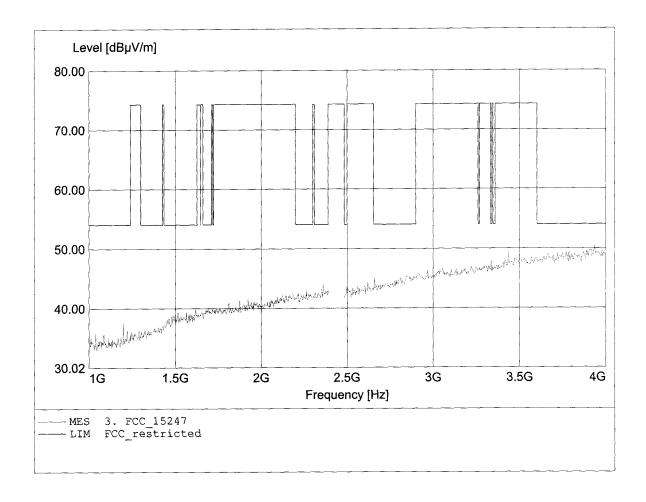
Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.933GHz, Emax: 50.47dBpV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

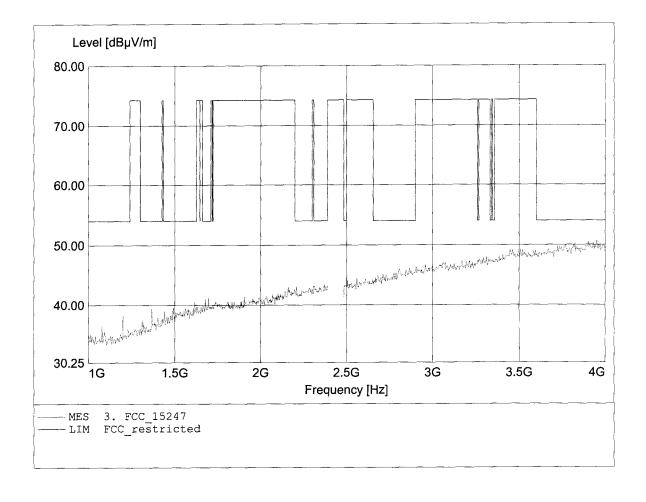
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.951GHz, Emax: 50.76dBpV/m, RBW: 1MHz

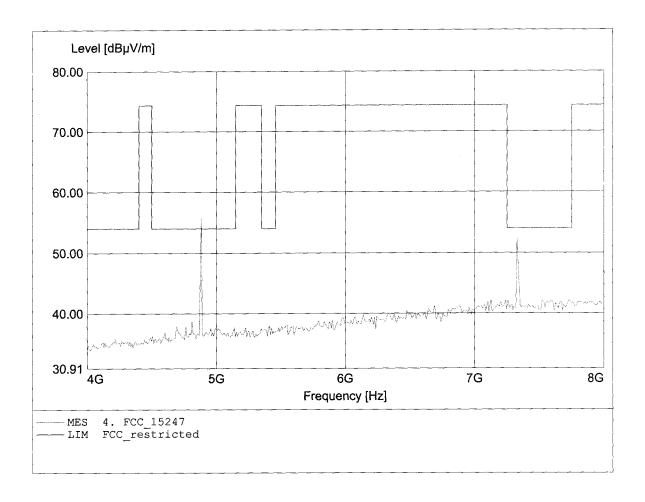


Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amp1.+HP.
Comment 2: Freq: 4.882GHz, Emax: 55.83dBpV/m, RBW: 1MHz

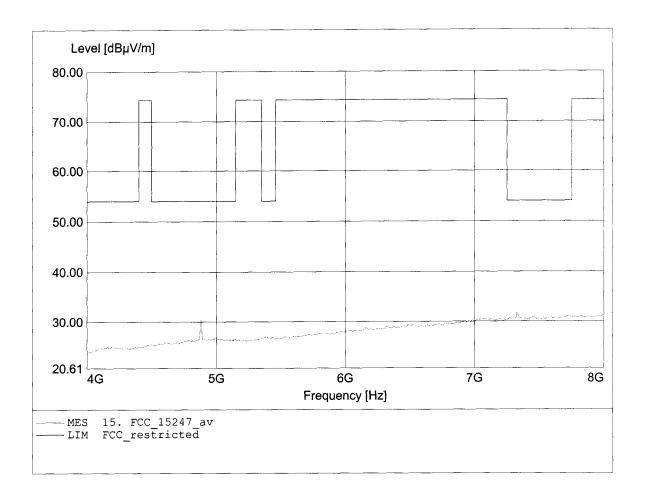


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.327GHz, Emax: 31.89dBpV/m, RBW: 1MHz

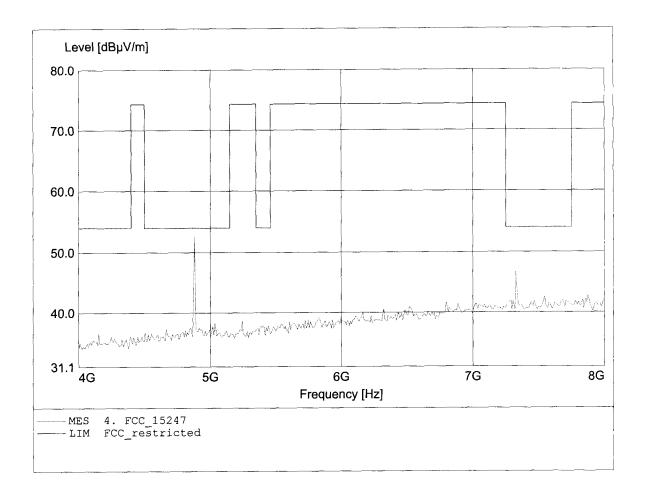


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 52.57dBpV/m, RBW: 1MHz



Approval Holder: Siemens A

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

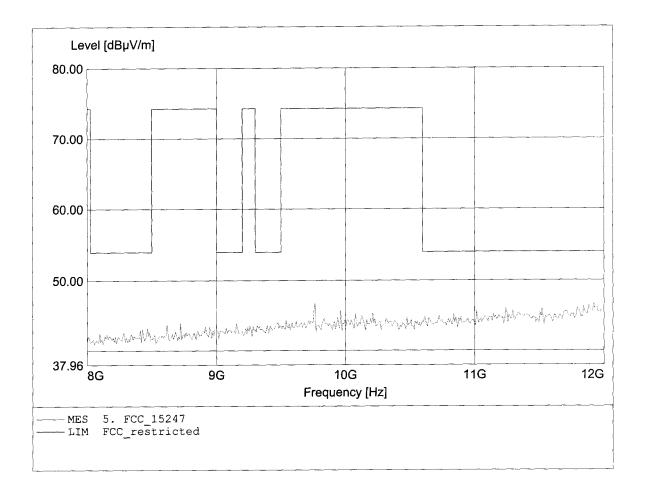
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

Freq: 9.764GHz, Emax: 46.92dBµV/m, RBW: 1MHz



Approval Holder: Siemens AG A&D SE RD 51

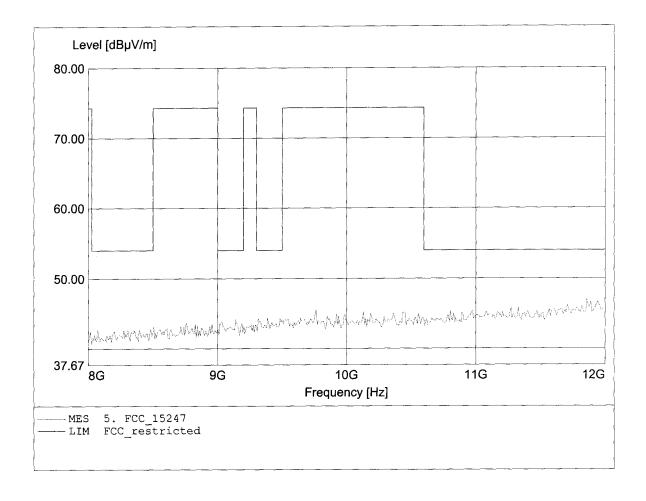
EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2: Freq: 11.856GHz, Emax: 47.03dBpV/m, RBW: 1MHz



Siemens AG A&D SE RD 51 Approval Holder:

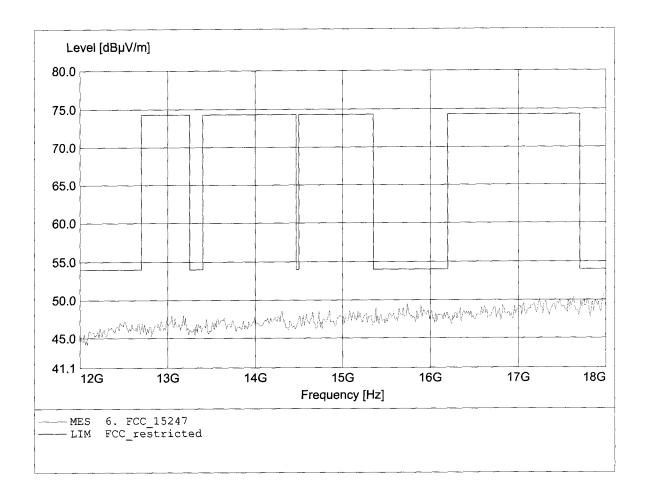
EUT:

Mobile Panel
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

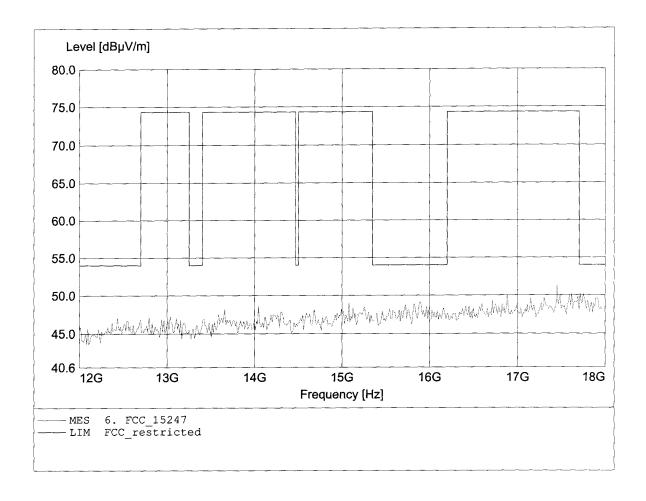
Freq: 17.976GHz, Emax: 50.85dBμV/m, RBW: 1MHz Comment 2:



Siemens AG A&D SE RD 51 Approval Holder:

EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.447GHz, Emax: 51.29dBµV/m, RBW: 1MHz



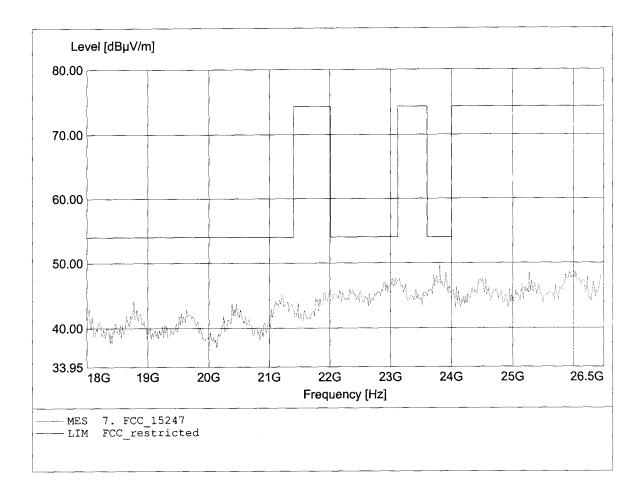
Siemens AG A&D SE RD 51 Approval Holder:

EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid Test Site / Operator: ETS / Mr. Schlaps Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to §15.247, peak detector

Comment 1:

Dist.: 3m, Ant.: HL025, amplif. Freq: 23.809GHz, Emax: 49.67dBpV/m, RBW: 1MHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

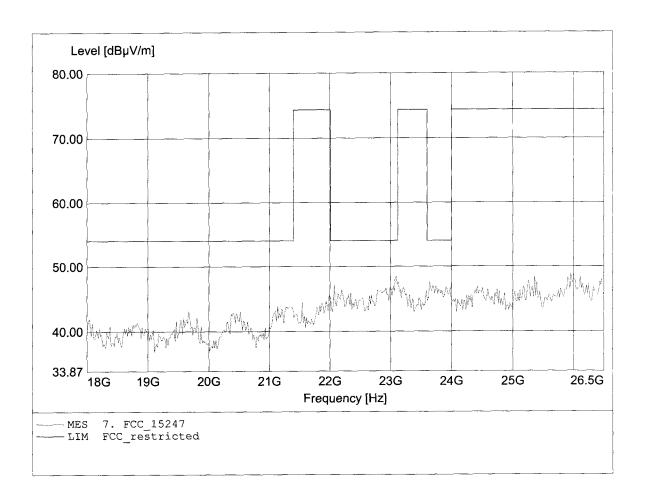
EUT:

Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.955GHz, Emax: 48.88dBpV/m, RBW: 1MHz



Approval Holder: Siemens AG A&D SE RD 51

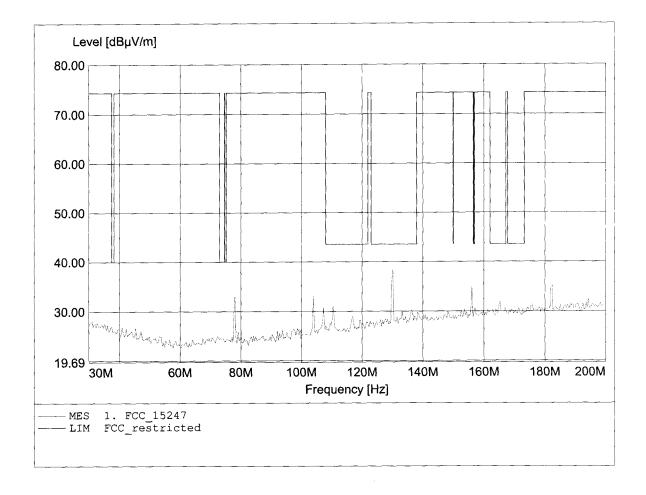
Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

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

Dist.: 3m, Ant.: na 110
Freq: 130.160MHz, Emax: 38.36dBµV/m, RBW: 100kHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

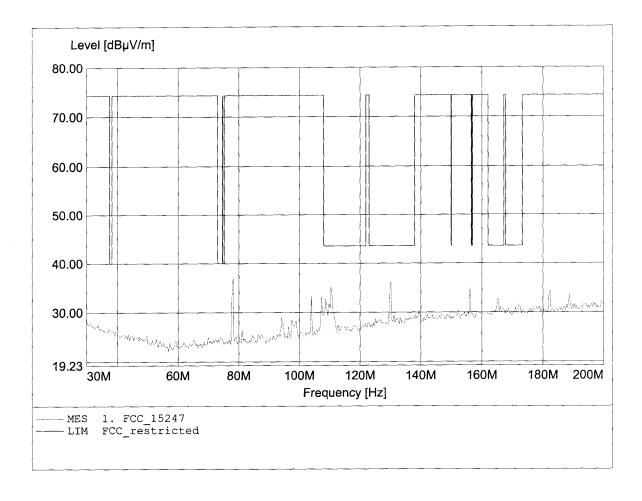
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1: Comment 2:

Dist.: 3m, Ant.: HK 116 Freq: 78.036MHz, Emax: 36.92dBpV/m, RBW: 100kHz



Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

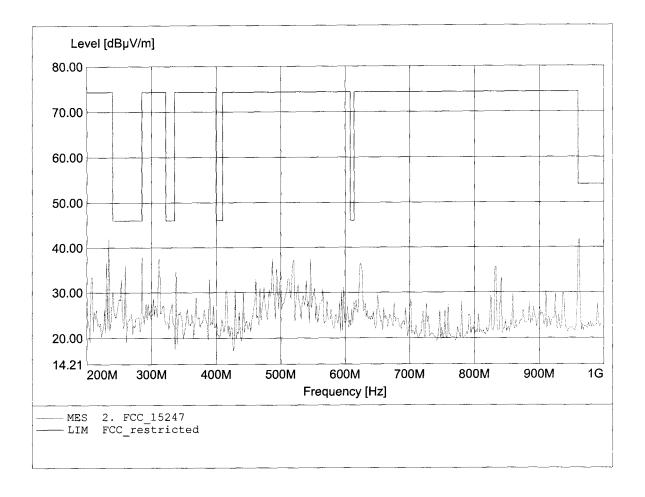
Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

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

Dist.: 3m, Ant.: nL 223, amp+11.
Freq: 233.667MHz, Emax: 41.86dBμV/m, RBW: 100kHz Comment 2:



Siemens AG A&D SE RD 51 Approval Holder:

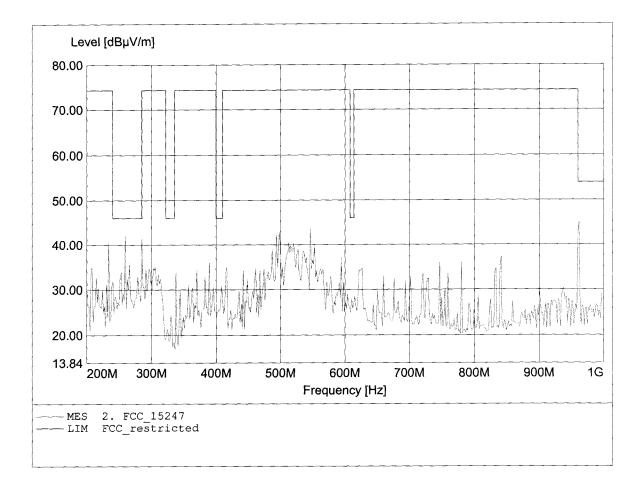
EUT: Mobile Panel

Model: Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247

Comment 1:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 961.523MHz, Emax: 45.00dBµV/m, RBW: 100kHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

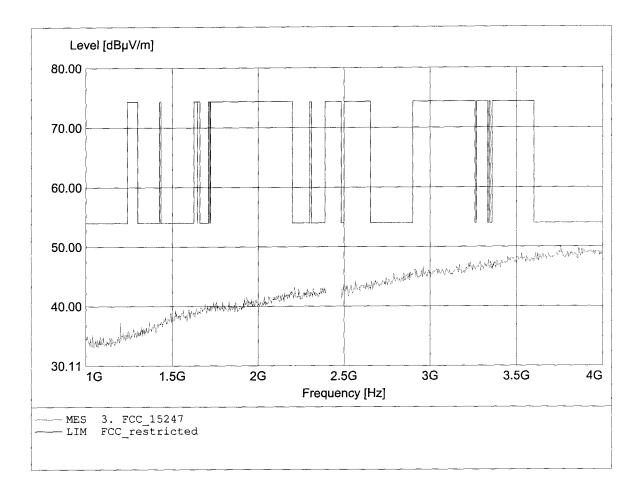
Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.754GHz, Emax: 50.19dBuV/m, RBW: 1MHz



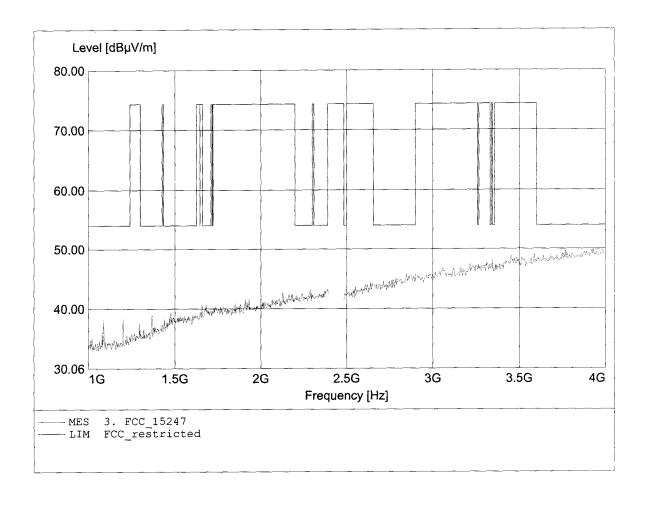
Siemens AG A&D SE RD 51 Approval Holder:

EUT: Mobile Panel

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 3.930GHz, Emax: 49.92dBμV/m, RBW: 1MHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

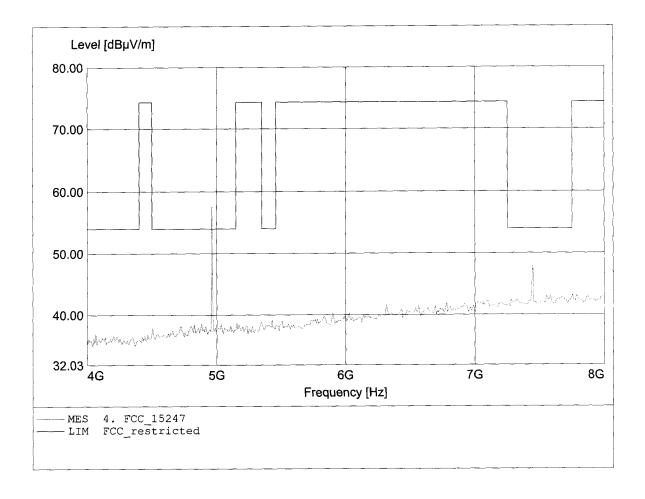
EUT:

Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 57.60dBpV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

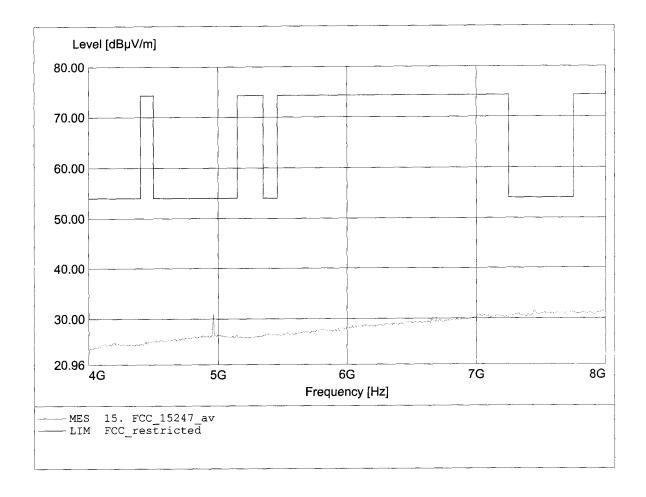
Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)
Test Specification: according to \$15.247, average detector

Comment 1: Comment 2:

Dist.: 3m, Ant.: HL025, ampl.+HP. Freq: 7.447GHz, Emax: 31.64dBuV/m, RBW: 1MHz

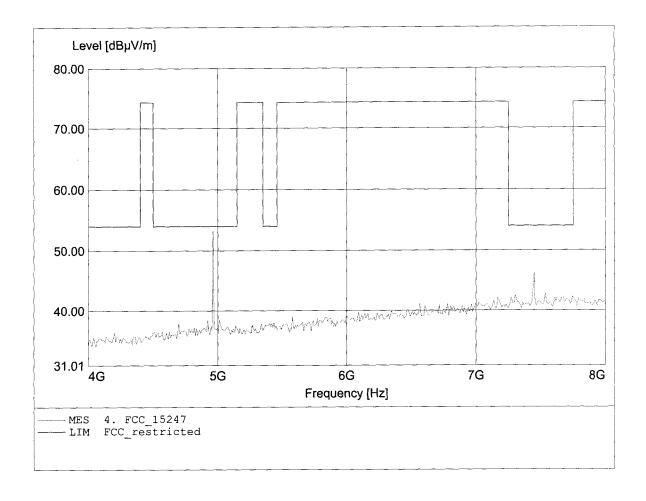


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 53.29dBpV/m, RBW: 1MHz



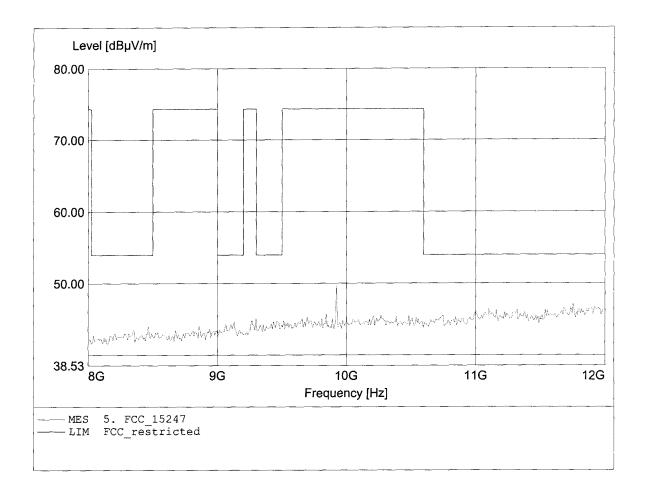
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Freq: 9.924GHz, Emax: 49.72dBpV/m, RBW: 1MHz Comment 2:

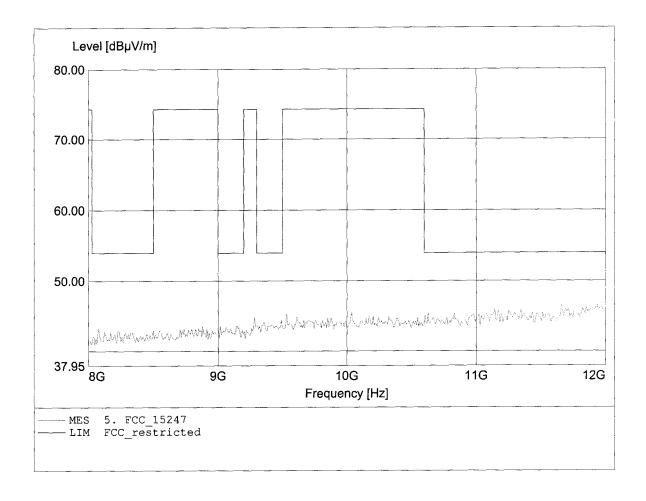


Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.655GHz, Emax: 46.63dBµV/m, RBW: 1MHz



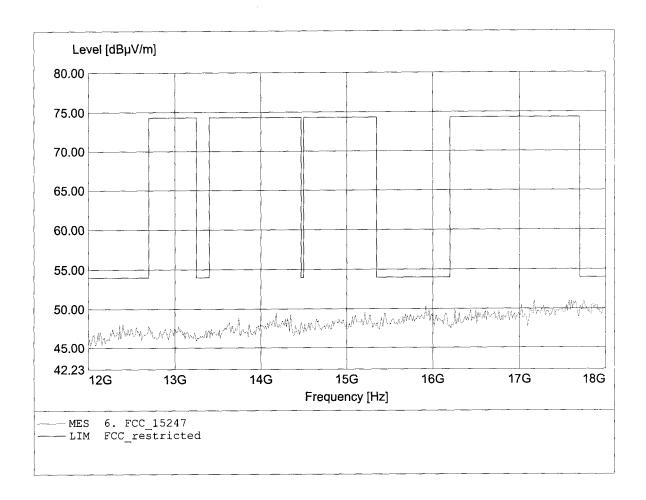
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1:

Dist.: 3m, Ant.: HL025, ampl.+HP. Freq: 17.170GHz, Emax: 51.13dBµV/m, RBW: 1MHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

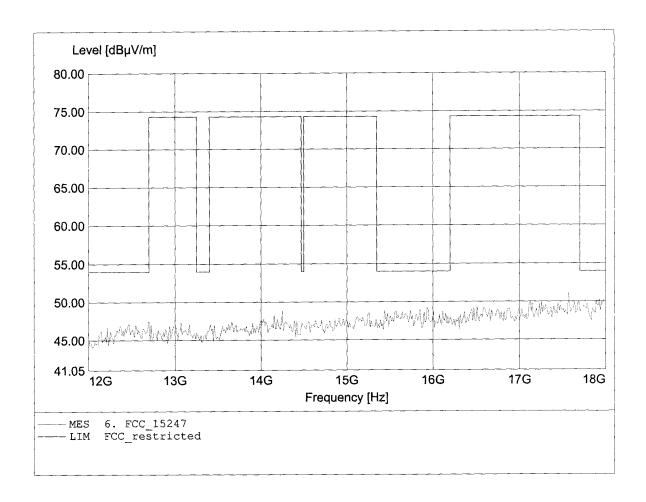
EUT:

Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.567GHz, Emax: 51.14dBµV/m, RBW: 1MHz



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

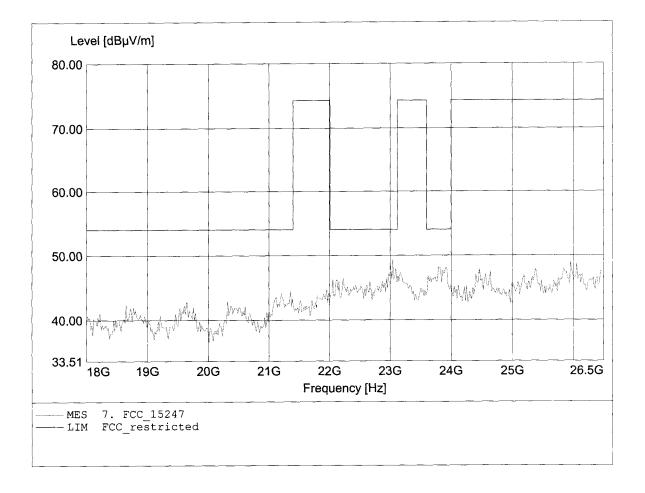
Mobile Panel

Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 23.042GHz, Emax: 49.36dBpV/m, RBW: 1MHz Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

EŪT:

Mobile Panel

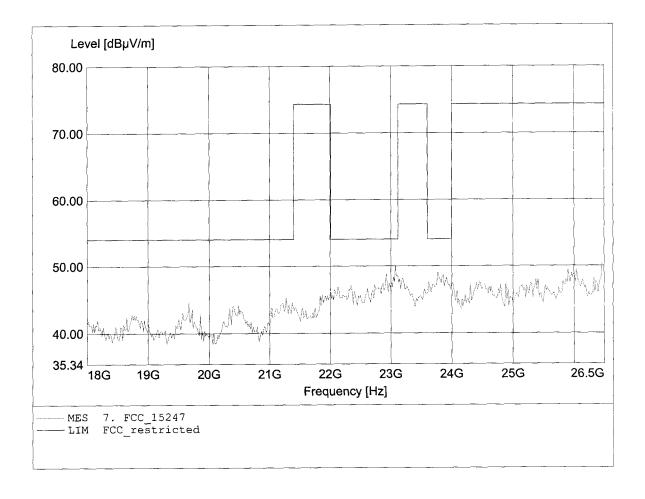
Model:

Mobile Panel 277 / WLAN / ant.:1 / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Dist.: 3m, Anc.: nb029, ampire. Freq: 26.466GHz, Emax: 50.38dBpV/m, RBW: 1MHz



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

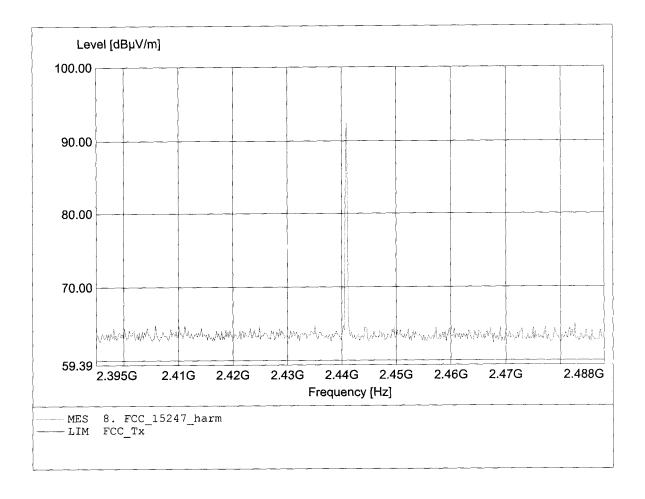
Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Mid EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HL025

Dist.: Эм, Ant.: пьо25 Freq: 2.441GHz, Emax: 92.42dBuV/m, RBW: 100kHz Comment 2:



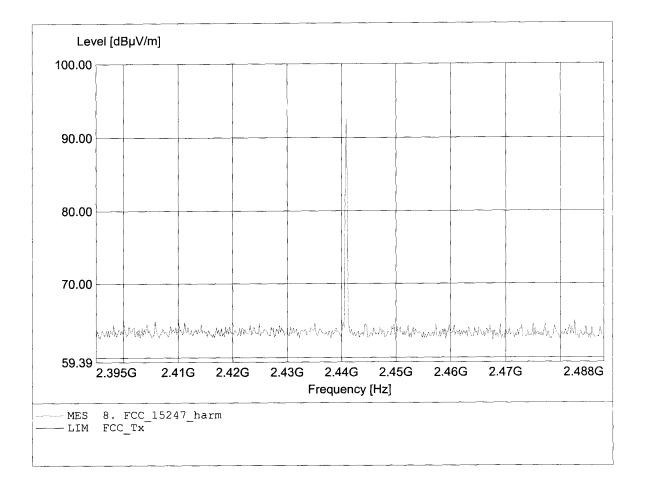
Carrier power (Field Strength) FCC RULES PART 15, SUBPART C

Approval Holder:

Siemens AG A&D SE RD 51
Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Mid EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 2.441GHz, Emax: 92.42dBµV/m, RBW: 100kHz

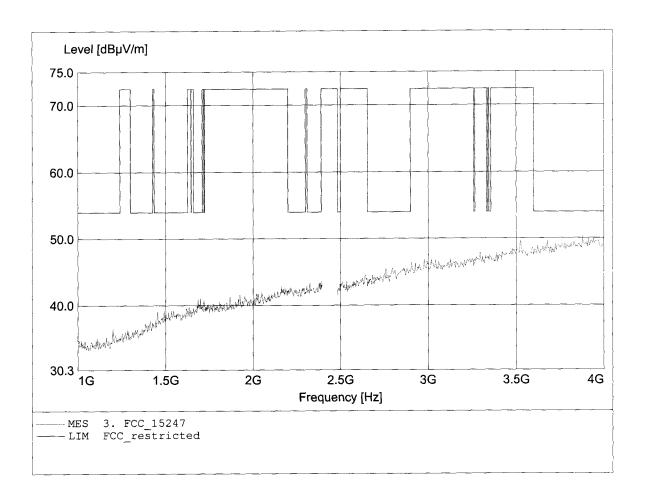


Approval Holder:

Siemens AG A&D SE RD 51 Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Low EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Freq: 3.878GHz, Emax: 50.25dBμV/m, RBW: 1MHz Comment 2:



Approval Holder: Siemens AG A&D SE RD 51

EUT: Mobile Panel / ant.: 2 / worst case

Model: Mobile Panel 277 / WLAN / Chirp / Ch.: Low

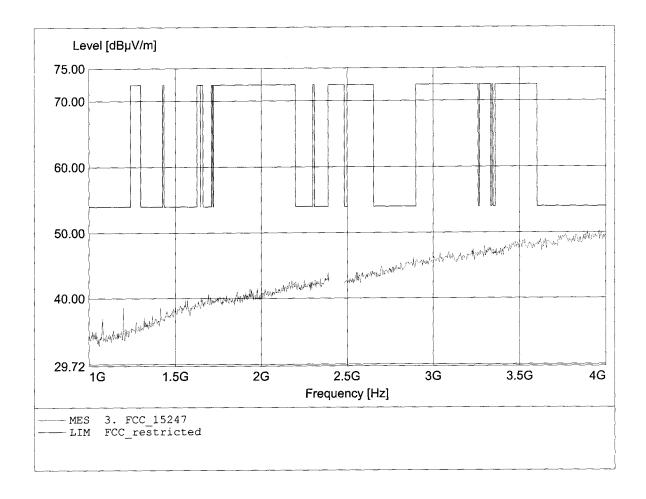
Test Site / Operator: ETS / Mr. Schlaps

Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247, peak detector

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

Comment 2: Freq: 3.960GHz, Emax: 50.17dBµV/m, RBW: 1MHz



Approval Holder: Siemens AG A&D SE RD 51

EUT: Mobile Panel / ant.: 2 / worst case

Model: Mobile Panel 277 / WLAN / Chirp / Ch.: Low

Test Site / Operator: ETS / Mr. Schlaps

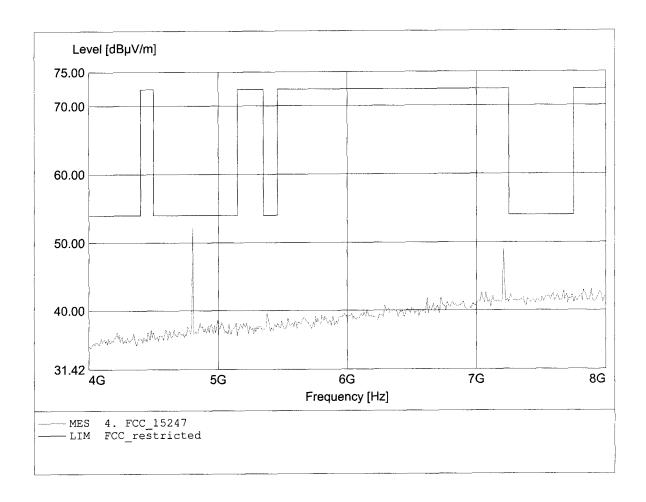
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR)

Test Specification: according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL025, ampl.+HP. Freq: 4.802GHz, Emax: 52.19dBpV/m, RBW: 1MHz



Approval Holder:

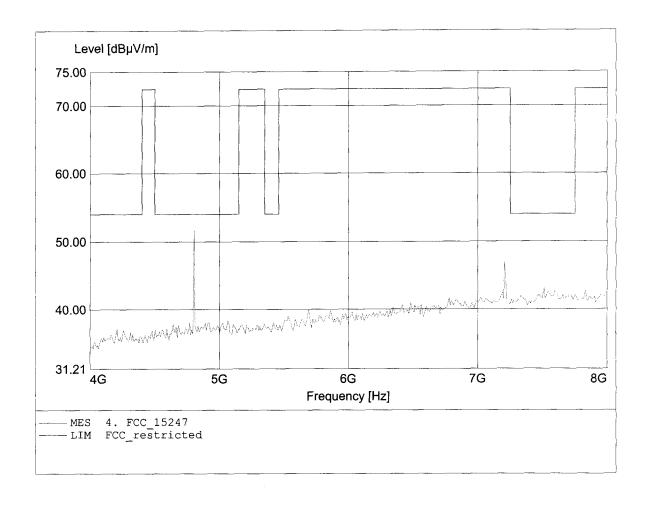
EUT:

Siemens AG A&D SE RD 51
Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Low

Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.802GHz, Emax: 51.72dBpV/m, RBW: 1MHz

Comment 2:



Approval Holder:

Siemens AG A&D SE RD 51

EUT:

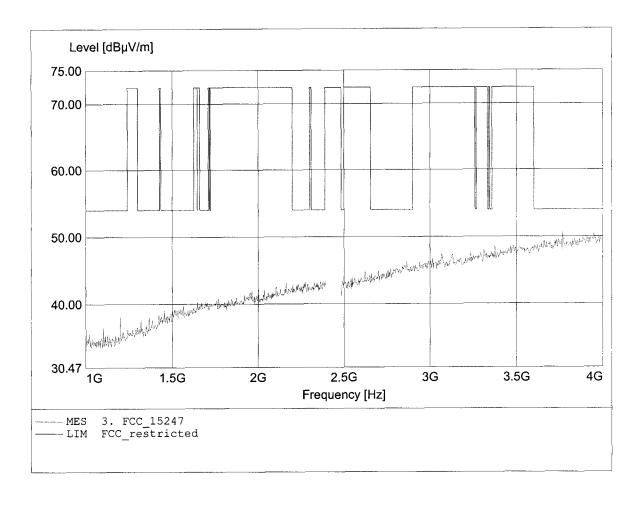
Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Mid

Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Dist.: 3m, Ant.: nb023, ample.
Freq: 3.766GHz, Emax: 50.59dBpV/m, RBW: 1MHz



Approval Holder:

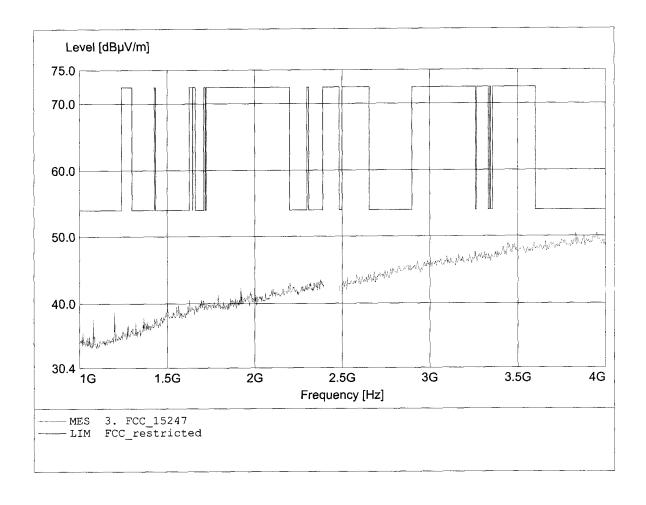
Siemens AG A&D SE RD 51

EUT: Model: Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 3.830GHz, Emax: 50.53dBµV/m, RBW: 1MHz



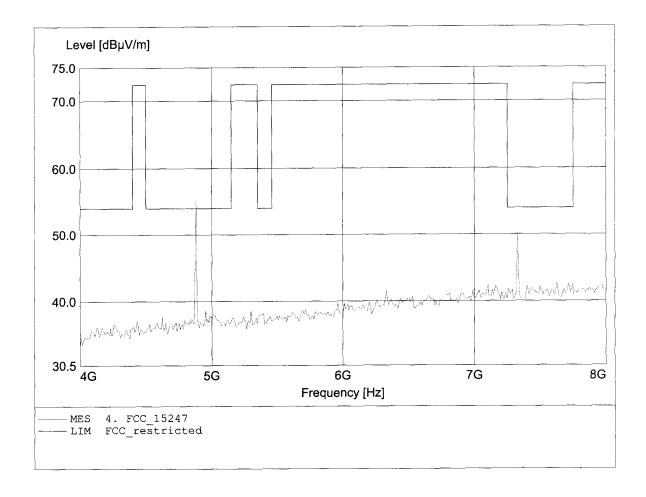
Approval Holder:

EUT: Model: Siemens AG A&D SE RD 51 Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

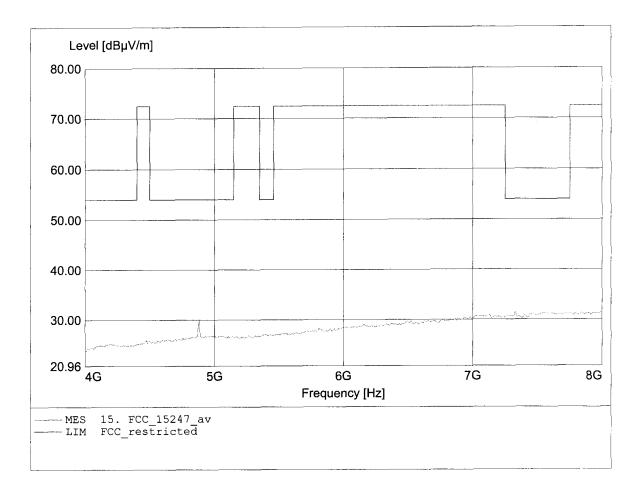
Freq: 4.882GHz, Emax: 55.00dBpV/m, RBW: 1MHz



Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: Mid EUT: Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.327GHz, Emax: 31.50dBµV/m, RBW: 1MHz



Approval Holder:

EUT:

Siemens AG A&D SE RD 51
Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: High

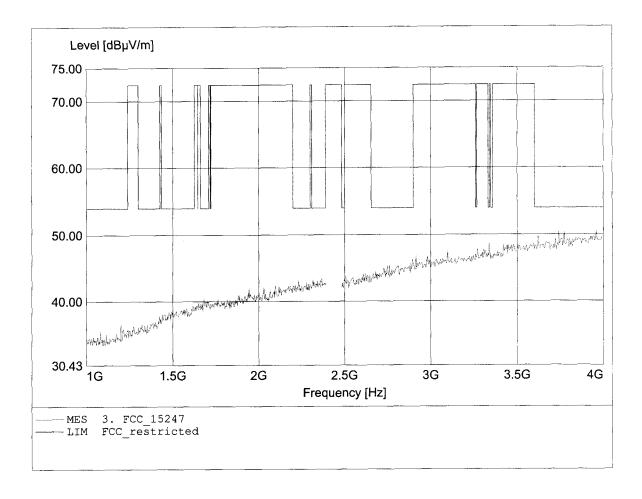
Model:

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL025, amplif. Freq: 3.957GHz, Emax: 50.50dBµV/m, RBW: 1MHz



Approval Holder:

EUT:

Siemens AG A&D SE RD 51 Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: High

Model:

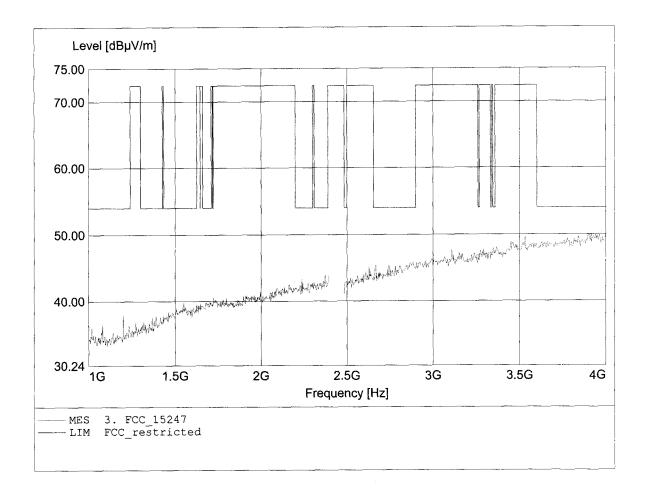
Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector

Comment 1:

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

Comment 2:

Freq: 3.900GHz, Emax: 50.07dBμV/m, RBW: 1MHz



Approval Holder:

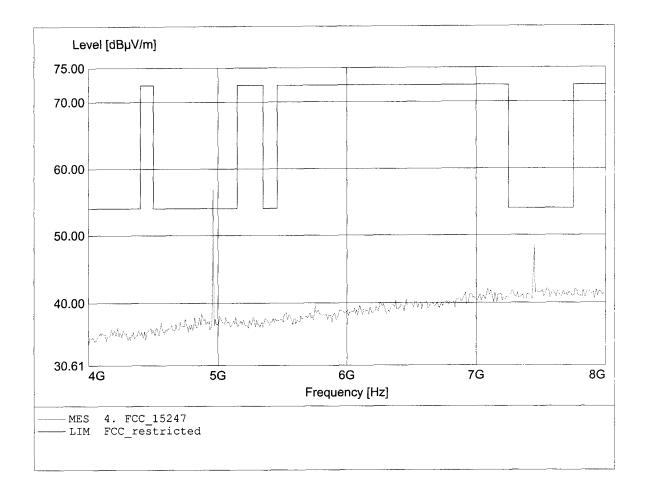
Siemens AG A&D SE RD 51

EUT: Model: Mobile Panel / ant.: 2 / worst case
Mobile Panel 277 / WLAN / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.

Comment 2:

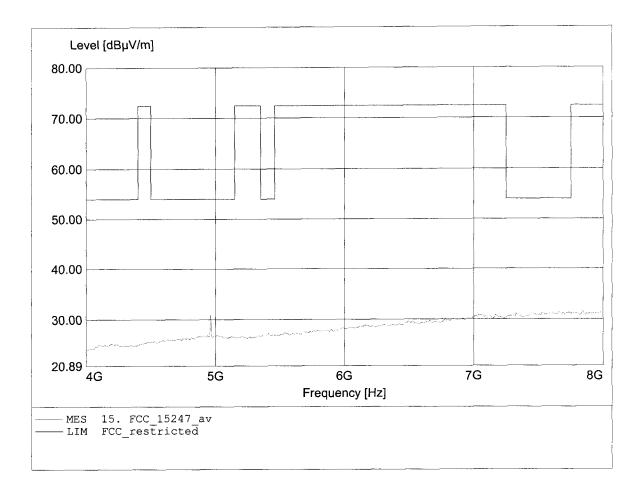
Freq: 4.962GHz, Emax: 56.80dBµV/m, RBW: 1MHz



Approval Holder:

EUT: Model: Siemens AG A&D SE RD 51 Mobile Panel / ant.: 2 / worst case Mobile Panel 277 / WLAN / Chirp / Ch.: High

Test Site / Operator: ETS / Mr. Schlaps
Operating Conditions: 23°C / Unom.: 12 V DC (AC/DC-ADAPTOR) Test Specification: according to \$15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.840GHz, Emax: 31.61dBpV/m, RBW: 1MHz





Appendix H

AC power line conducted emissions

ETS Product Service AG Registration number: G0M20706-1478-C-2 Appendix H

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

EUT:

Mobile Panel 277 I WLAN

Manufacturer:

Siemens AG A&D SE RD 51

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

Test Site:

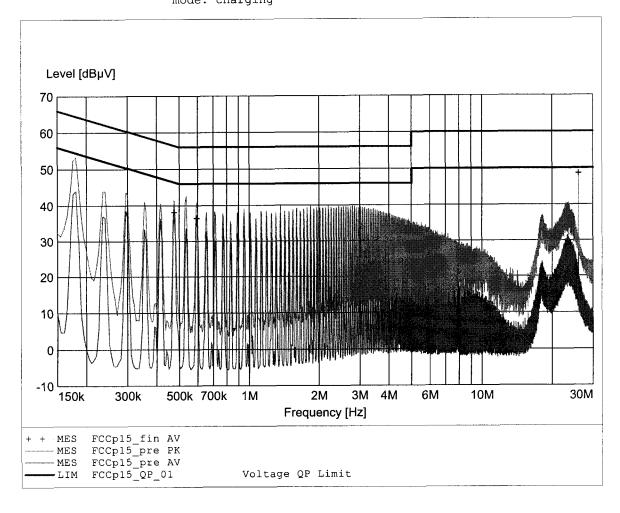
ETS

Operator:

Mr. Marquardt

Test Specification: V-Network: ESH2-Z5 (L1) model: 6AV6645-0DC01-0AX0

Comment: mode: charging



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

EUT:

Mobile Panel 277 I WLAN

Manufacturer:

Siemens AG A&D SE RD 51

Operating Condition: Unom: 120 VAC (AC/DC adaptor), Tnom: $23^{\circ}C$

Test Site:

ETS

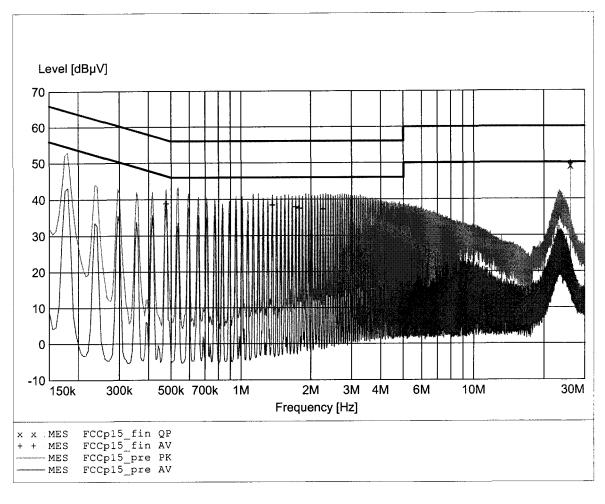
Operator:

Mr. Marquardt

Comment:

Test Specification: V-Network: ESH2-Z5 (N/L1) model: 6AV6645-0DC01-0AX0

mode: charging





Appendix I

Receiver spurious emissions

ETS Product Service AG Registration number: G0M20706-1478-C-2 Appendix I

Standards Industry Canada, RSS-GEN

Approval Holder: Siemens AG A&D SE RD 51

Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

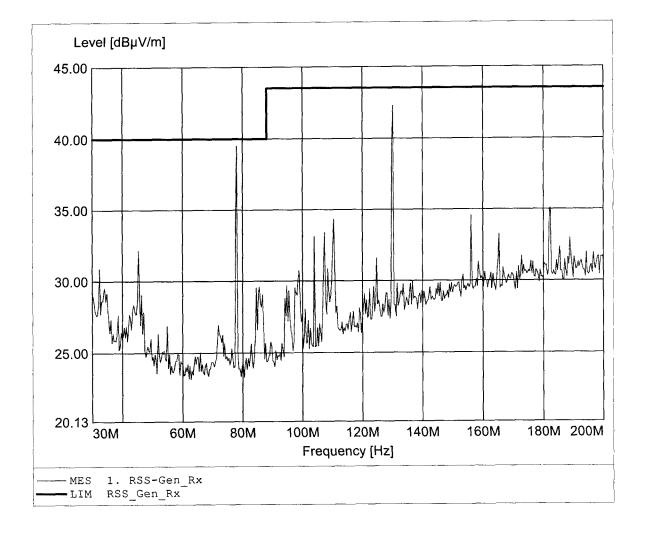
Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Specification: according to RSS-Gen Issue 1

Comment 1:

Dist.: 3m, Ant.: HK 116

Freq:130.160MHz Emax:42.30dBpV/m RBW: 100 kHz Comment 2:



Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

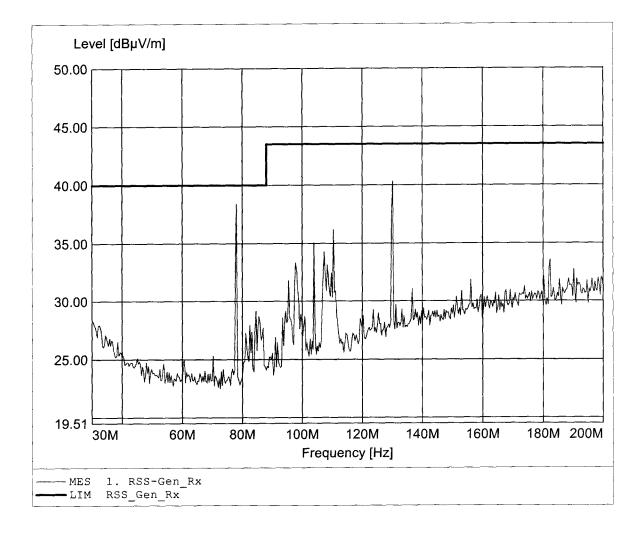
Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HK 116

Dist.: 3m, Ant.: HK 110
Freq:130.160MHz Emax:40.33dBpV/m RBW: 100 kHz Comment 2:



Standards Industry Canada, RSS-GEN

Approval Holder:

Siemens AG A&D SE RD 51

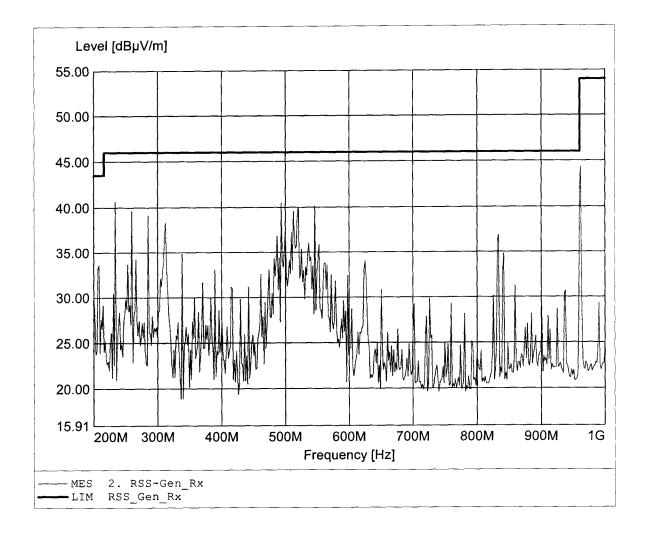
EUT:

Mobile Panel

Model:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:961.523MHz Emax:44.35dBpV/m RBW: 100 kHz



Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

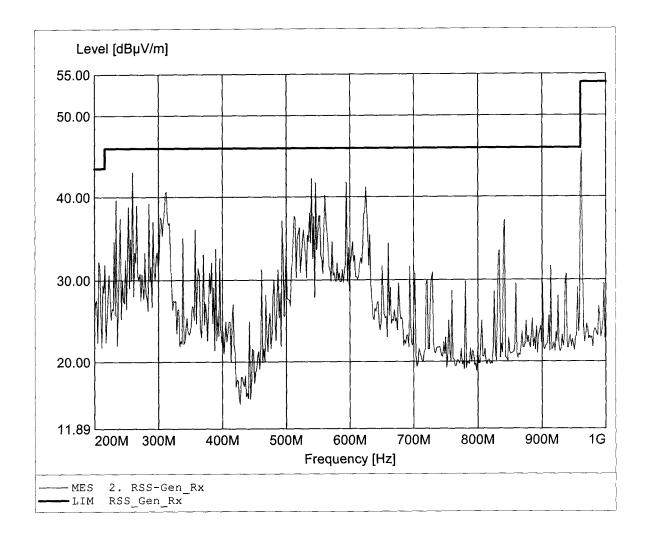
Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Condition: 25 C / Shour. 12 V BC (Ac/BC ddaped)

Test Specification: according to RSS-Gen Issue 1

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

Comment 2: Freq:961.523MHz Emax:45.60dBµV/m RBW: 100 kHz



Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

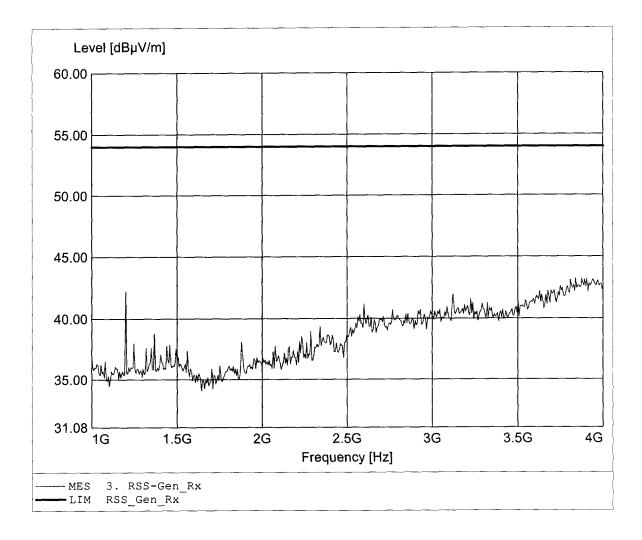
Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor) / notch filter

Test Specification: according to RSS-Gen Issue 1

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

Freq:3.838GHz Emax:43.22dBpV/m RBW: 1 MHz Comment 2:



Standards Industry Canada, RSS-GEN

Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid

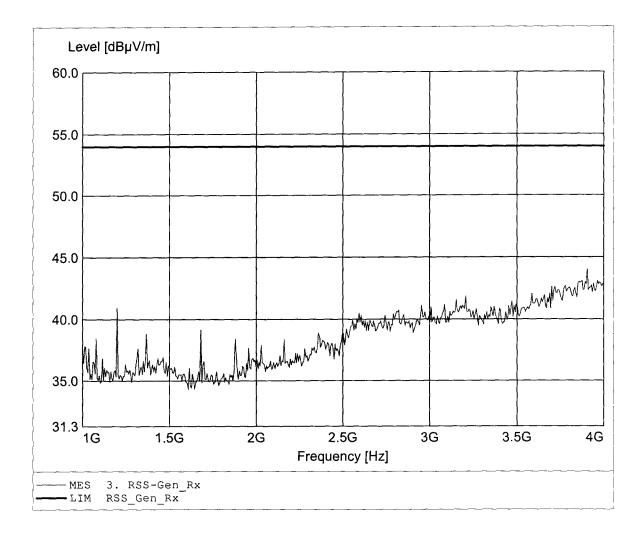
Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor) / notch filter

Test Specification:

according to RSS-Gen Issue 1

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl. Freq:3.904GHz Emax:44.03dBpV/m RBW: 1 MHz



Standards Industry Canada, RSS-GEN

Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC

Test Condition:

(AC/DC-adaptor)

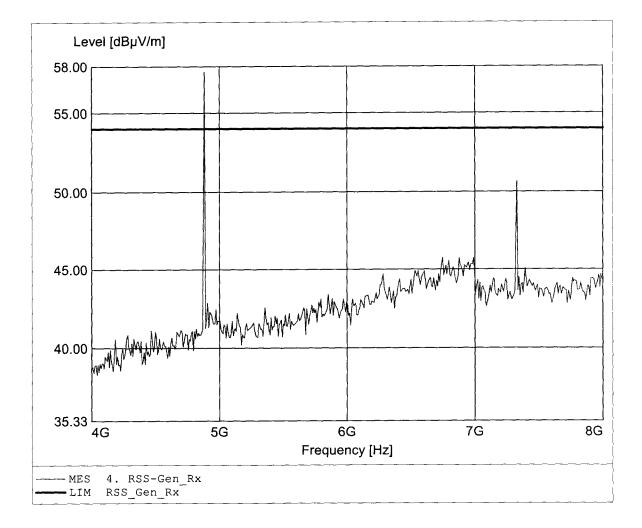
Test Specification:

Comment 1:

according to RSS-Gen Issue 1 Dist.: 3m, Ant.: BBHA9120D, ampl.

Comment 2:

Freq:4.882GHz Emax:57.64dBµV/m RBW: 1 MHz



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Siemens AG A&D SE RD 51 Approval Holder:

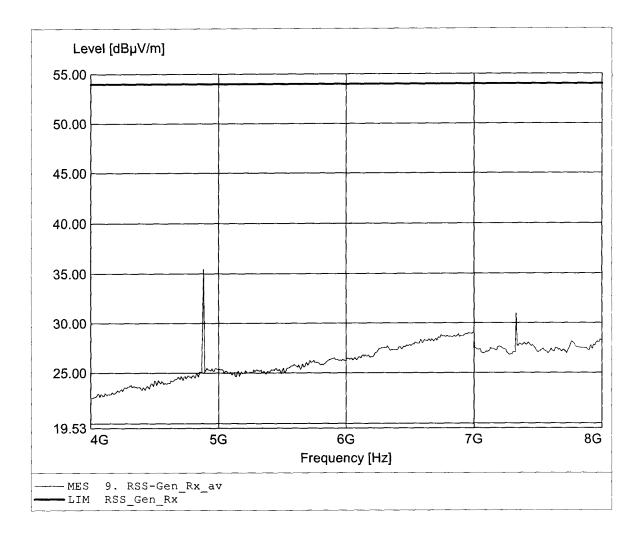
Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)
Test Specification: according to RSS-Gen Issue 1

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

Freq:4.882GHz Emax:35.46dBpV/m RBW: 1 MHz Comment 2:



Standards Industry Canada, RSS-GEN

Siemens AG A&D SE RD 51 Approval Holder:

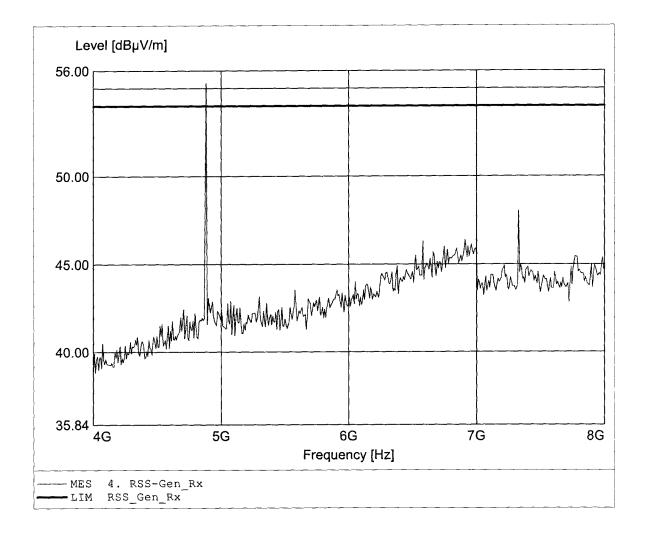
Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

according to RSS-Gen Issue 1 Test Specification: Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.

Freq:4.882GHz Emax:55.29dBpV/m RBW: 1 MHz Comment 2:



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Approval Holder:

Siemens AG A&D SE RD 51

EUT:

Mobile Panel

Model:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid

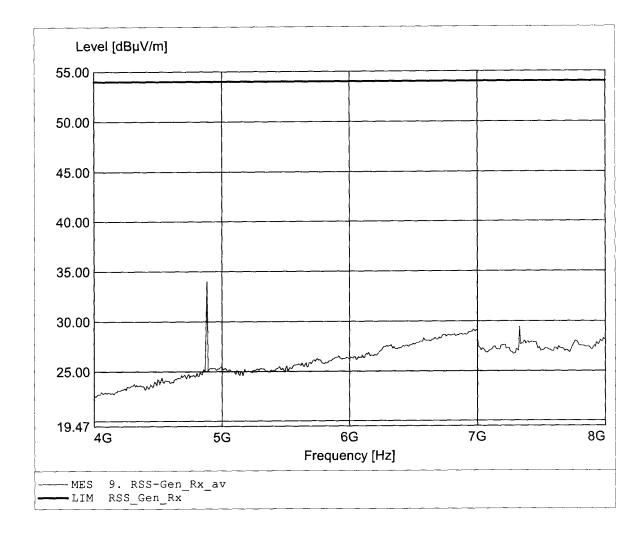
Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Specification:

according to RSS-Gen Issue 1

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl. Freq:4.882GHz Emax:33.99dBµV/m RBW: 1 MHz



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Siemens AG A&D SE RD 51 Approval Holder:

EUT: Mobile Panel

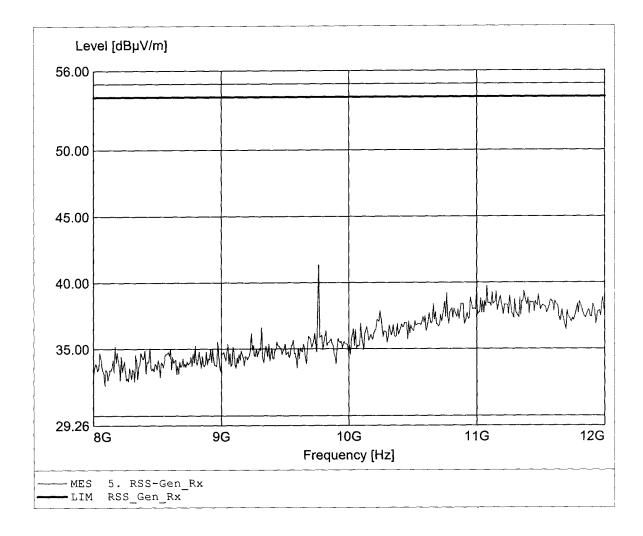
Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Specification: according to RSS-Gen Issue 1

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

Freq: 9.764GHz Emax: 41.34dBuV/m RBW: 1 MHz Comment 2:



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Siemens AG A&D SE RD 51 Approval Holder:

Mobile Panel EUT:

Mobile Pannel 277 IWLAN / Chirp / Ch.: Mid Model:

Test Site / Operator: ETS / Mr. Meng
Test Condition: 25°C / Unom: 12 V DC (AC/DC-adaptor)

Test Specification: according to RSS-Gen Issue 1 Dist.: 3m, Ant.: BBHA9120D, ampl. Comment 1:

Freq:11.415GHz Emax:40.83dBpV/m RBW: 1 MHz Comment 2:

