

# Appendix B

RF power output conducted

ETS Product Service AG Registriernummer: G0M20702-1168-C-1 Appendix B



#### FCC part 15.247 (b) Power Output

EUT

Wireless Sensor

Model

VA301W

Approval Holder

Honeywell

Temperature / Voltage

25°C / Voltage: 3.6V DC

Test Site / Operator

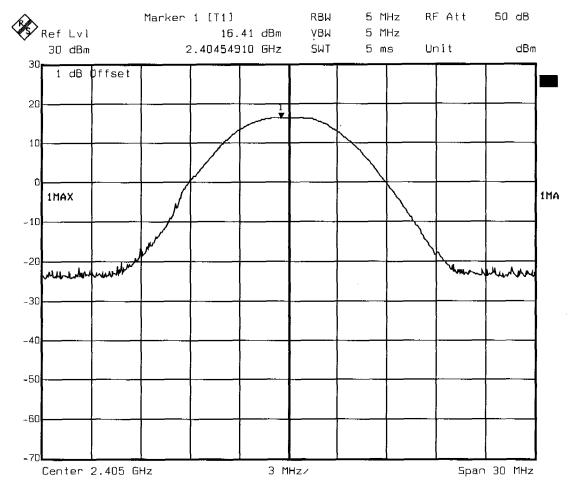
ETS

Test Specification Comment 1 Power Output Option 1

Comment 2

Output Power conducted Channel: 11 / 2405 MHz

Comment 3



Date:

05.FEB.2007 13:40:19



#### FCC part 15.247 (b) Power Output

EUT

Wireless Sensor

Model

VA301W

Approval Holder

Honeywell

Temperature / Voltage

25°C / Voltage: 3.6V DC

Test Site / Operator Test Specification

ETS

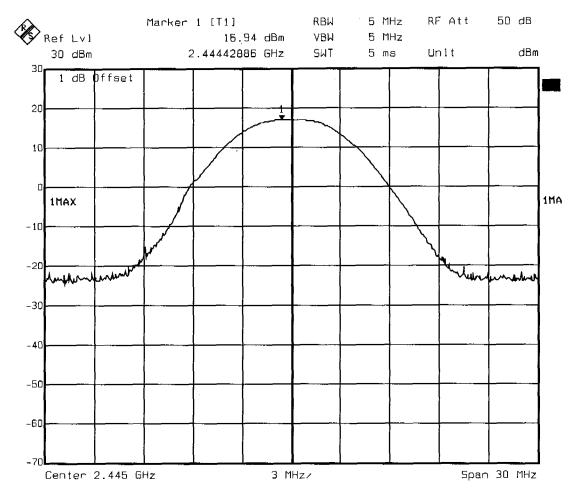
Comment 1

Power Output Option 1 Output Power conducted

Comment 2

Channel: 19 / 2445 MHz

Comment 3



Date:

05.FEB.2007 13:35:21

Measurement diagram



#### FCC part 15.247 (b) **Power Output**

EUT

Wireless Sensor

Model

VA301W Honeywell

A SECTION AND A SECTION AS

Approval Holder

25°C / Voltage: 3.6V DC

Temperature / Voltage Test Site / Operator

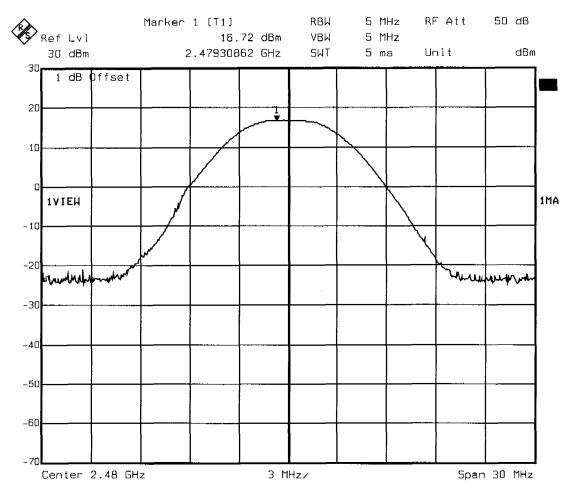
**ETS** Power Output Option 1

Test Specification Comment 1

Comment 2

Output Power conducted Channel: 26 / 2480 MHz

Comment 3



Date:

05.FEB.2007 13:30:53

Measurement diagram



# Appendix C

RF power output radiated (EIRP)

ETS Product Service AG Registriernummer: G0M20702-1168-C-1 Appendix C



# Appendix D

6 dB bandwidth

ETS Product Service AG Registriernummer: G0M20702-1168-C-1 Appendix D



#### FCC part 15.247 (a) (2) Bandwidth

EUT

Wireless Sensor

Model

VA301W Honeywell

Approval Holder

25°C / Voltage: 3.6V DC

Temperature / Voltage Test Site / Operator

ETS

Test Specification

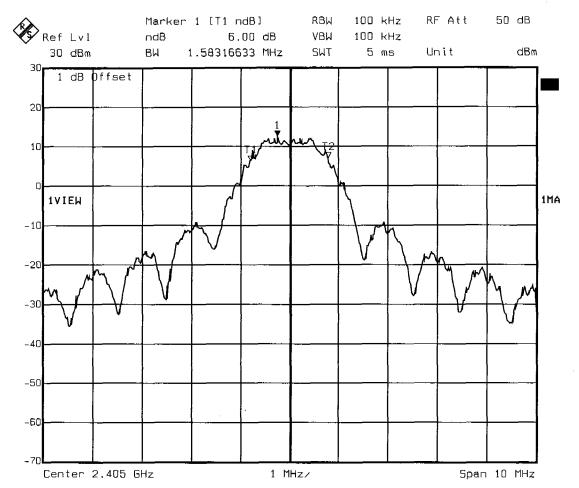
FCC part 15.247 (a) (2) Bandwidth

Comment 1

Comment 2

Bandwidth conducted Channel: 11 / 2405 MHz

Comment 3



Date:

05.FEB.2007 13:48:01



# FCC part 15.247 (a) (2) Bandwidth

EUT

Wireless Sensor

Model

VA301W Honeywell

Approval Holder

25°C / Voltage: 3.6V DC

Temperature / Voltage Test Site / Operator

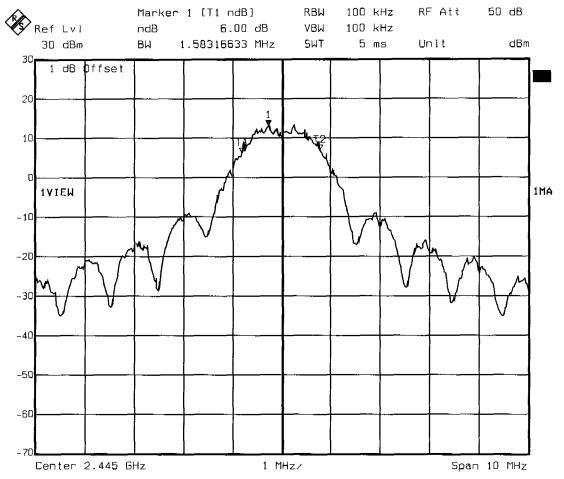
ETS

Test Specification

FCC part 15.247 (a) (2) Bandwidth

Comment 1 Comment 2 Bandwidth conducted Channel: 19 / 2445 MHz

Comment 3



Date:

05.FEB.2007 13:49:59

Measurement diagram



#### FCC part 15.247 (a) (2) Bandwidth

**EUT** 

Wireless Sensor

Model

VA301W

Honeywell

Approval Holder Temperature / Voltage

25°C / Voltage: 3.6V DC

Test Site / Operator

**ETS** 

Test Specification

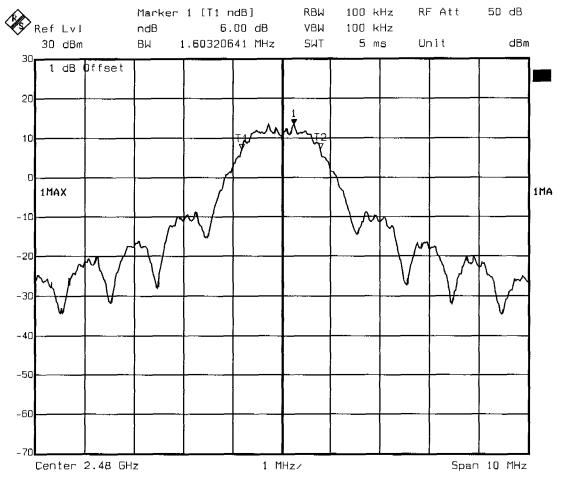
FCC part 15.247 (a) (2) Bandwidth

Comment 1

Comment 2

Bandwidth conducted Channel: 26 / 2480 MHz

Comment 3



Date:

05.FEB.2007 13:53:13

Measurement diagram



# Appendix E

Peak power spectral density



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

EUT

Wireless Sensor

Model

VA301W

Approval Holder

Honeywell

Temperature / Voltage Test Site / Operator 25°C / Voltage: 3.6V DC

Test Specification

**ETS** 

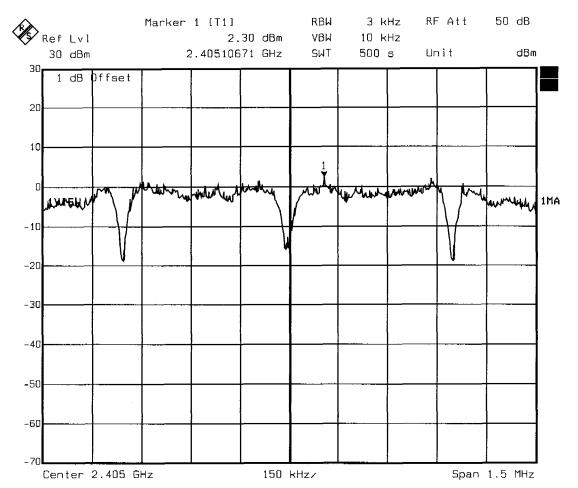
Comment 1

FCC part 15.247 (d) (PSD)

Comment 2

Power spectral density conducted Channel: 11 / 2405 MHz

Comment 3



Date:

05.FEB.2007 14:18:49

Measurement diagram



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

EUT

Wireless Sensor

Model

VA301W

Approval Holder

Honeywell

Temperature / Voltage

25°C / Voltage: 3.6V DC

Test Site / Operator

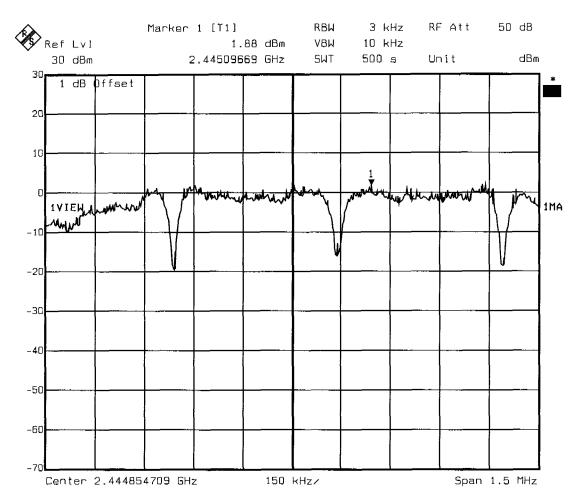
ETS

Test Specification

FCC part 15.247 (d) (PSD)

Comment 1 Comment 2 Power spectral density conducted Channel: 19 / 2445 MHz

Comment 3



Date:

05.FEB.2007 14:14:48

Measurement diagram



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

EUT

Wireless Sensor

Model

VA301W

Approval Holder

Honeywell

Temperature / Voltage Test Site / Operator 25°C / Voltage: 3.6V DC

Test Specification

ETS FCC part 15.247 (d) (PSD)

Comment 1 Comment 2 Power spectral density conducted Channel: 26 / 2480 MHz

Comment 3

RF Att Marker 1 [T1] RB₩ 3 kHz 50 dB Ref Lvl 1,55 dBm VBW 10 kHz 2.48030210 GHz SWT 500 s Unit dBm 30 dBm 30 1 dB þffset 20 10 1MA weren where -10 -20 -30

Center 2.480228457 GHz

150 kHz/

Span 1.5 MHz

Date:

-40

-50

-60

05.FEB.2007 14:09:18



# Appendix F

Spurious emission conducted



# Appendix G

Spurious emission radiated

ETS Product Service AG Registriernummer: G0M20702-1168-C-1 Appendix G

#### Carrier power (Field Strength)

#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

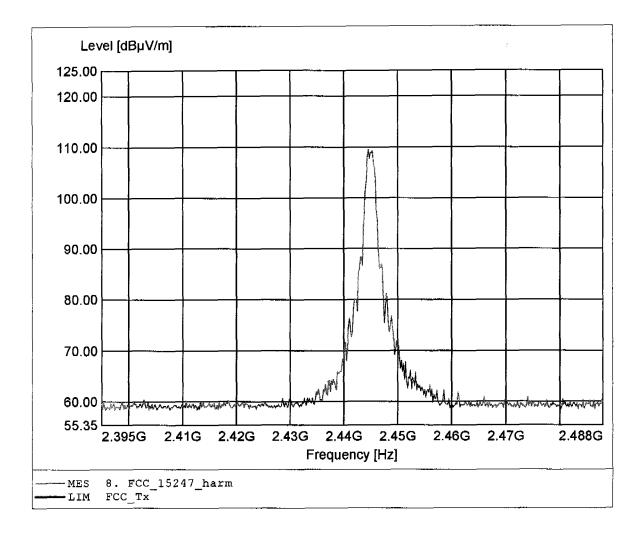
Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2445 MHz

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.445GHz, Emax: 109.61dBµV/m, RBW: 100kHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

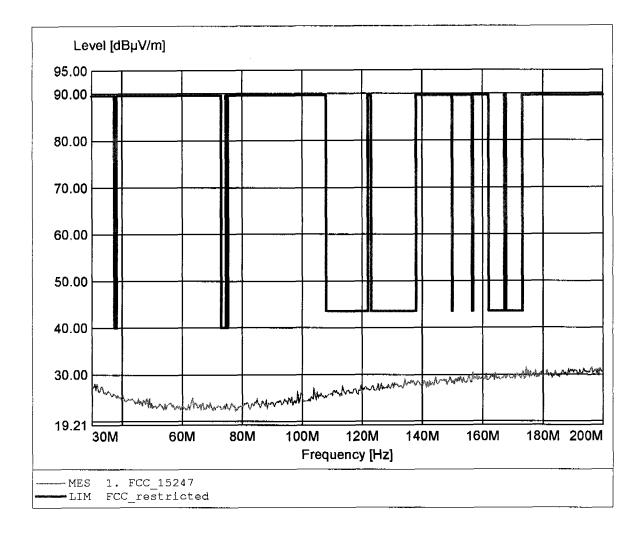
VA301W

/ Pwr: 25 (max power) / 2405 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HK 116

Comment 2:

Dist.: 3m, Ant.: HK 110 Freq: 174.449MHz, Emax: 31.61dBpV/m, RBW: 100kHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

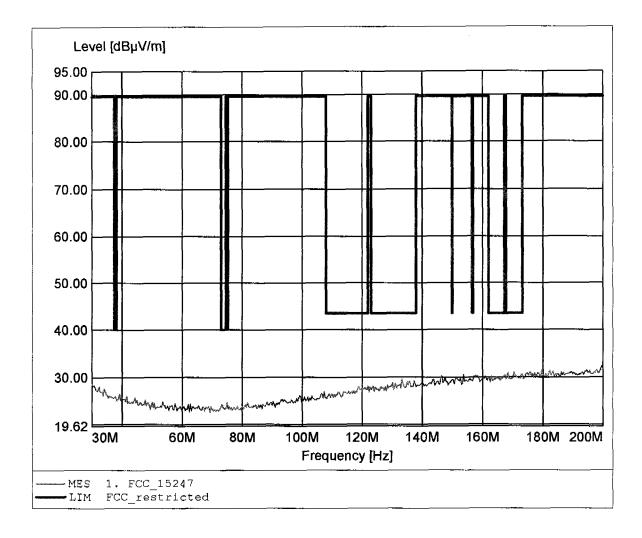
EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 199.659MHz, Emax: 32.32dBµV/m, RBW: 100kHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

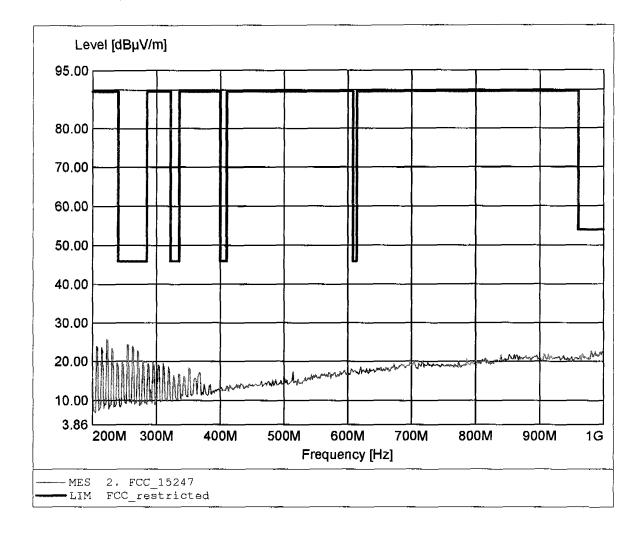
EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 222.445MHz, Emax: 25.65dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

 ${\tt Honeywell}$ 

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

Mr. Schlaps

Test Condition:

25°C Unom.: 3.6 V DC (long live battery)

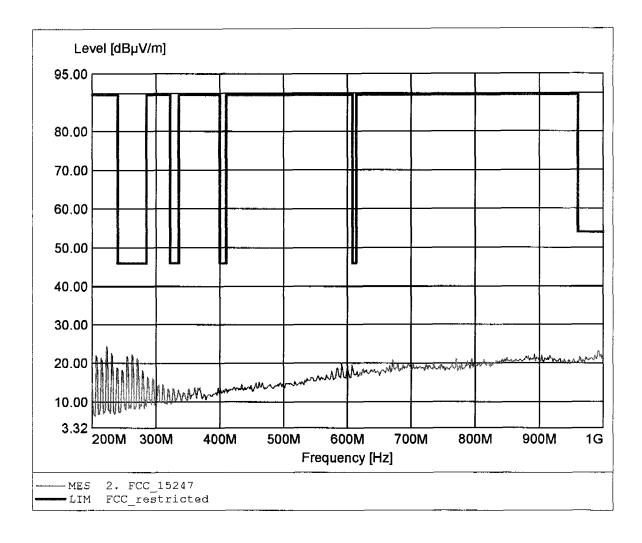
Test Specification:

according to \$15.247

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 222.445MHz, Emax: 24.47dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2405 MHz

Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

Test Specification: according to \$15.247, peak detector

Test Condition:
Test Specification:
Comment 1:
Comment 2:

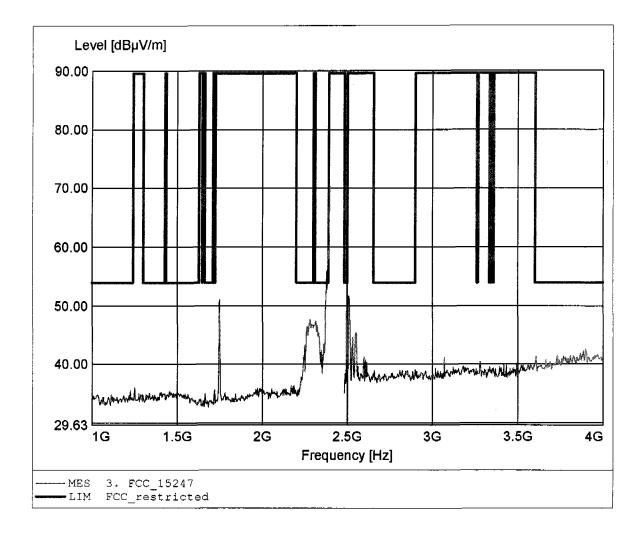
Comment 2:

Test Specification:

according to \$15.24/, peak detector

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

Freq: 2.397GHz, Emax: 70.22dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

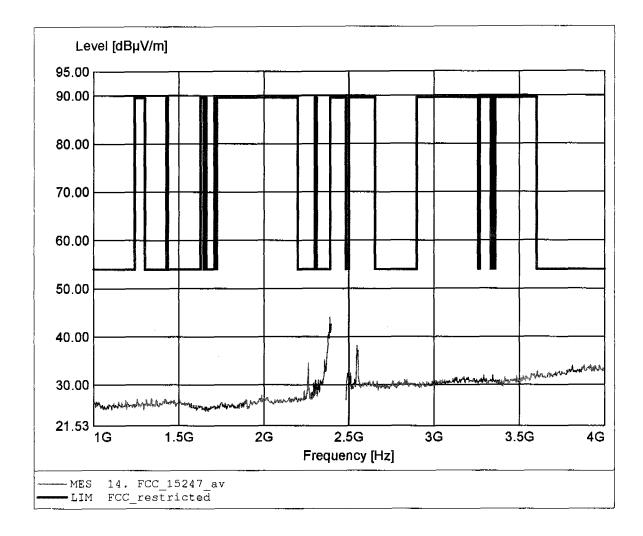
Test Specification:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, average detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, amplif. Freq: 2.389GHz, Emax: 44.06dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

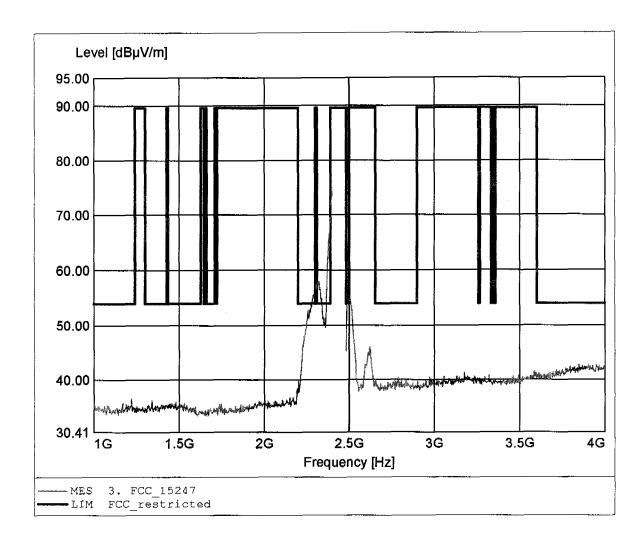
Model:

VA301W

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

/ Pwr: 25 (max power) / 2405 MHz

Test Condition:
Test Specification:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: BBHA9120D, amplif.
Freq: 2.397GHz, Emax: 73.8 3dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

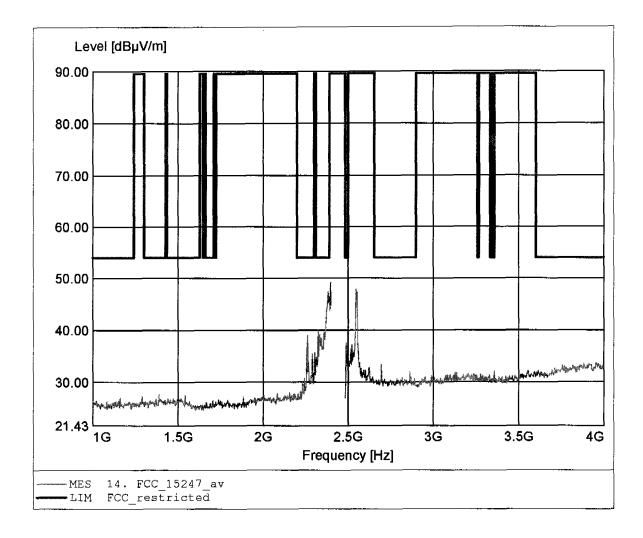
Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

Test Specification: according to \$15.247, average detector

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

Comment 2: Freq: 2.397GHz, Emax: 49.24dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

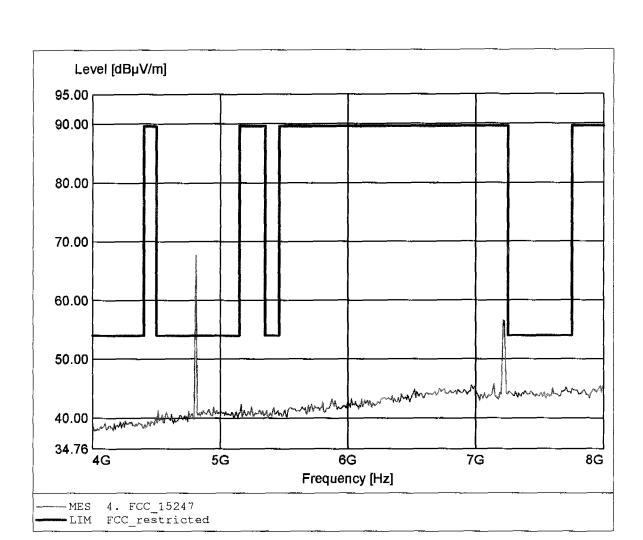
Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

Test Condition:
Test Specification:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Freq: 4.810GHz, Emax: 67.61dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

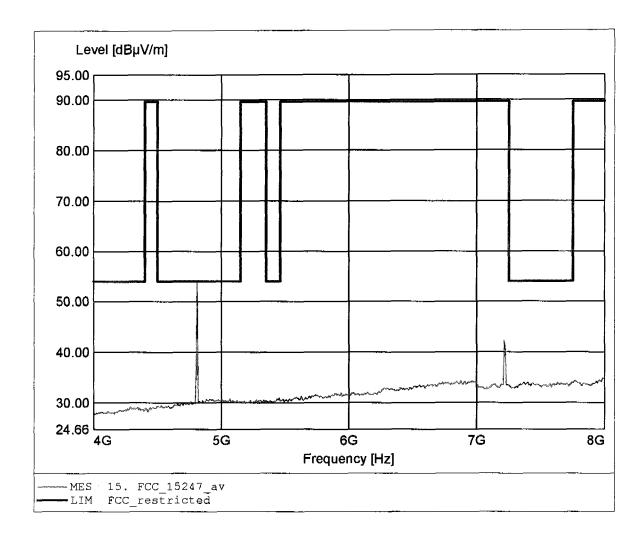
Test Specification:

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, average detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.810GHz, Emax: 53.76dBpV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

 ${\tt Honeywell}$ 

EUT:

Wireless Sensor

Model:

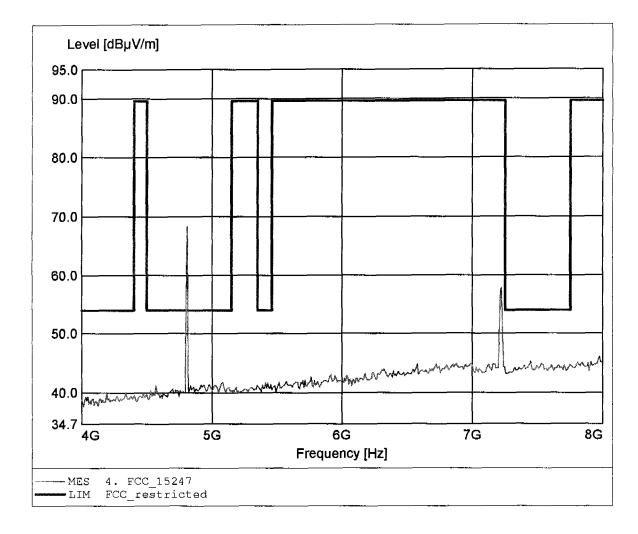
VA301W

Test Site / Operator: ETS

Test Condition:

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector

Test Condition:
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.810GHz, Emax: 68.31dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

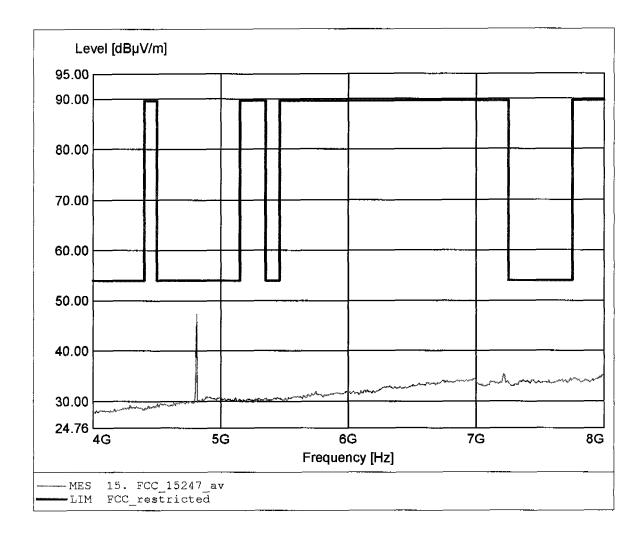
Model:

VA301W

/ Pwr: 25 (max power) / 2405 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, average detector

Test Condition:
Test Specification: according to \$15.24/, average decomposition according to \$15.24/, average



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

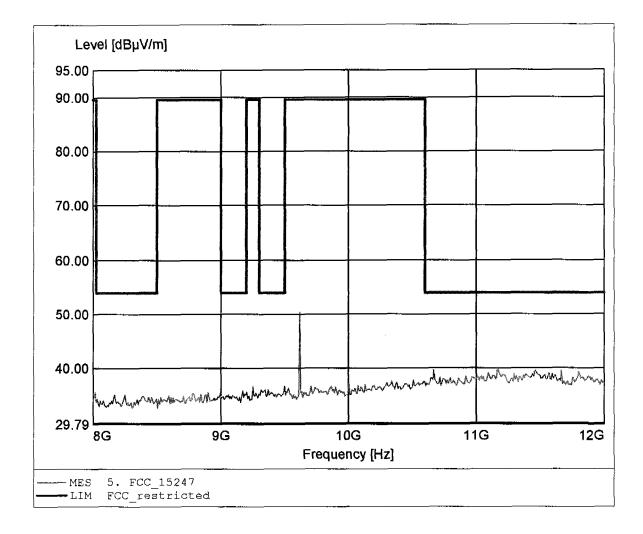
Test Site / Operator: ETS

Test Condition:

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector

/ Pwr: 25 (max power) / 2405 MHz

Test Condition:
Test Specification:
Comment 1:
Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2:
Freq: 9.619GHz, Emax: 50.36dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

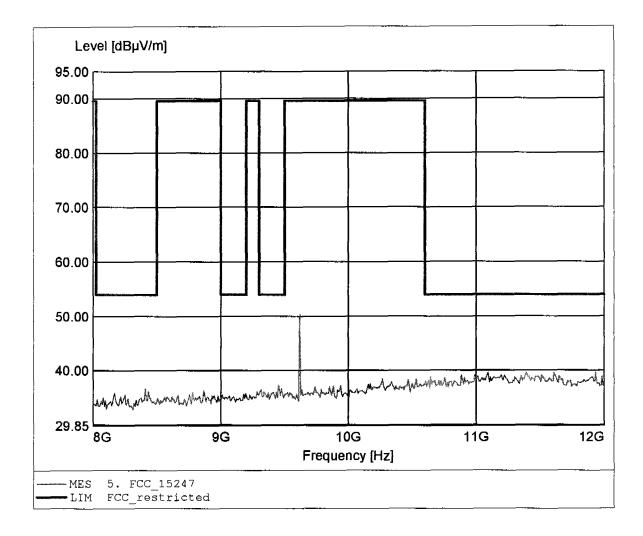
VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

Test Condition: according to \$15.247, peak detector.

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

Comment 2: Freq: 9.619GHz, Emax: 50.33dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS /

/ Pwr: 25 (max power) / 2405 MHz Mr. Schlaps

Test Condition:

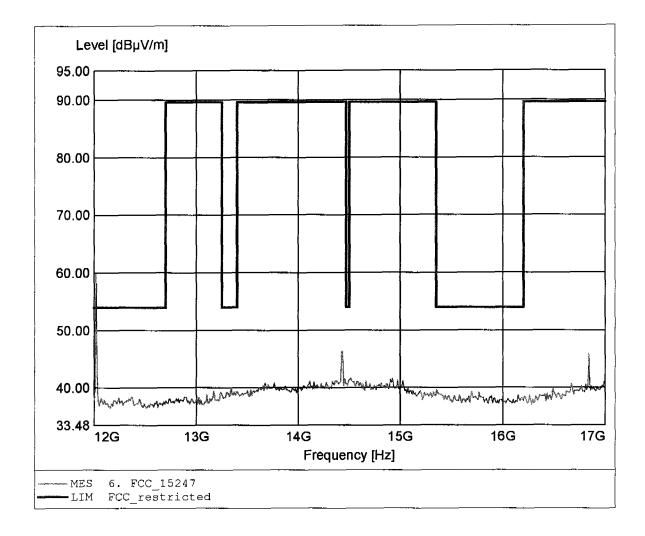
Test Specification:

25°C / Unom.: 3.6 V DC (long live battery) according to §15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 12.020GHz, Emax: 59.94dBpV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

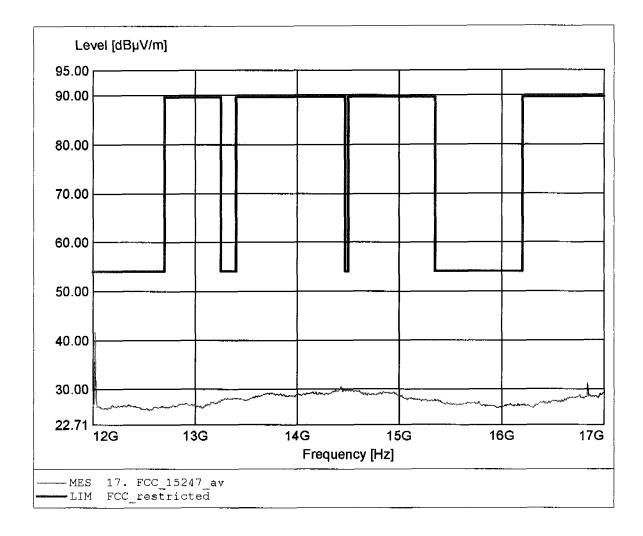
Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, average detector

/ Pwr: 25 (max power) / 2405 MHz

Test Condition:
Test Specification:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Freq: 12.020GHz, Emax: 41.66dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector Mr. Schlaps

/ Pwr: 25 (max power) / 2405 MHz

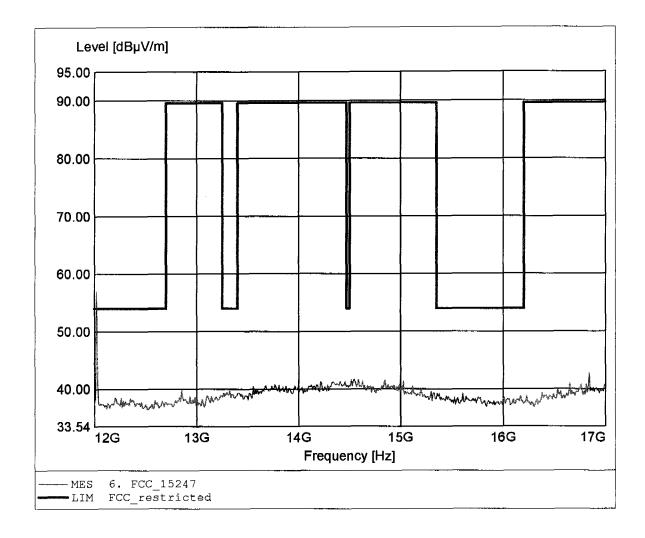
Test Condition:

Test Specification:

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 12.020GHz, Emax: 56.96dBuV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

/ Pwr: 25 (max power) / 2405 MHz

Test Condition:

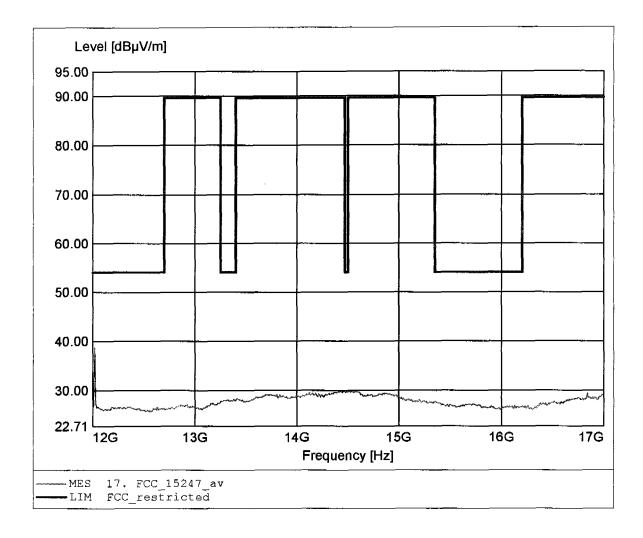
Test Specification:

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, average detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 12.020GHz, Emax: 38.73dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

Mr. Schlaps

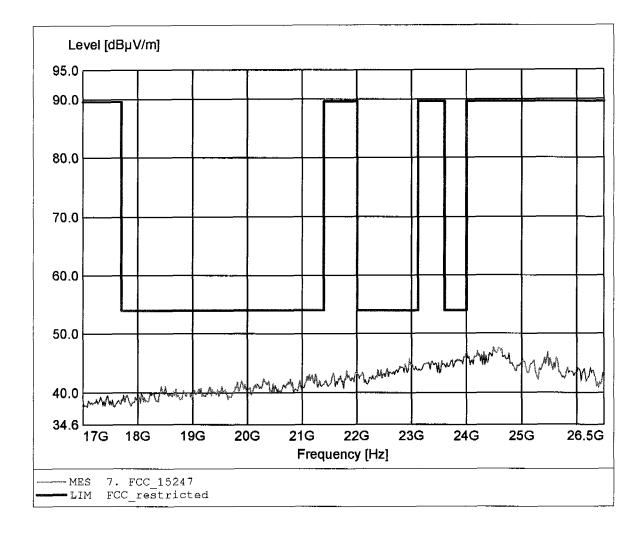
Test Condition:

Test Specification:

Comment 1:

Comment 2:

25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector Dist.: 3m, Ant.: HL025, amplif. Freq: 24.482GHz, Emax: 47.61dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

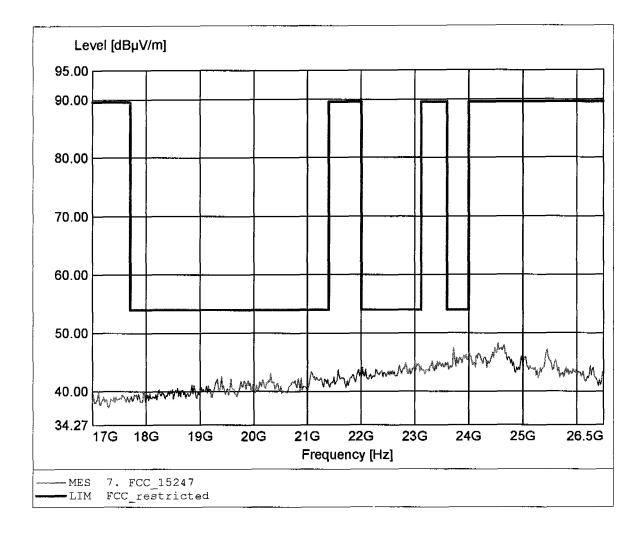
Wireless Sensor

Model:

WI0EAV

/ Pwr: 25 (max power) / 2405 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.539GHz, Emax: 48.24dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

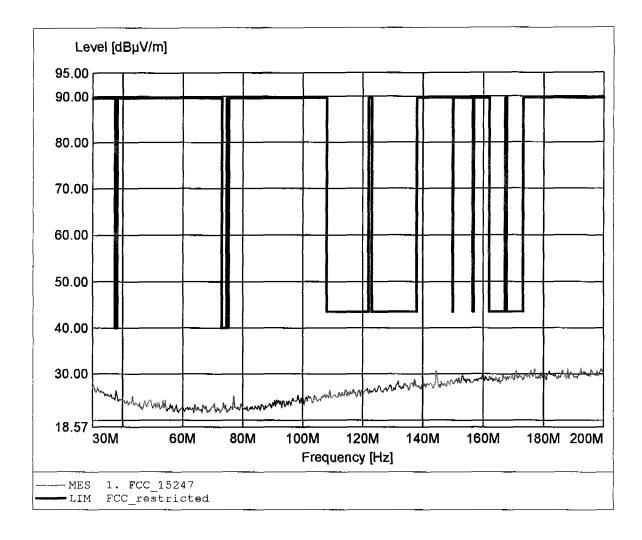
Model:

VA301W

Test Site / Operator: ETS /
Test Condition: 25°C /

/ Mr. Schlaps
/ Unom.: 3.6 V DC (long live battery)

Test Site / Operator:
Test Solde / Operator:
Test Condition: 25°C / One...
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 192.505MHz, Emax: 31.30dBpV/m, RBW: 100kHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

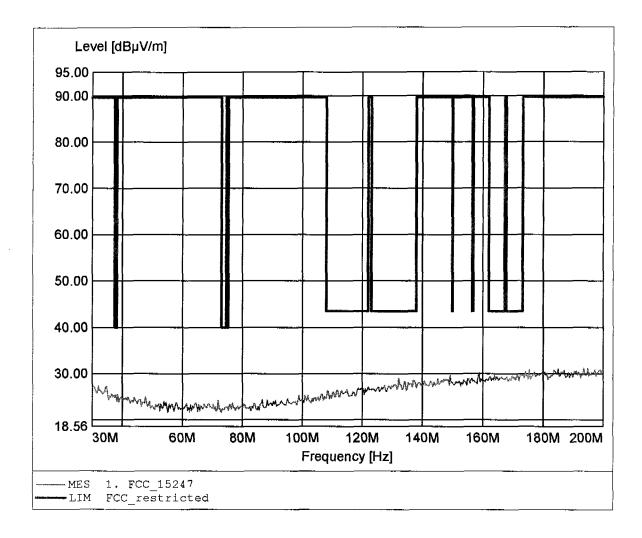
EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 193.527MHz, Emax: 31.22dBµV/m, RBW: 100kHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2445 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

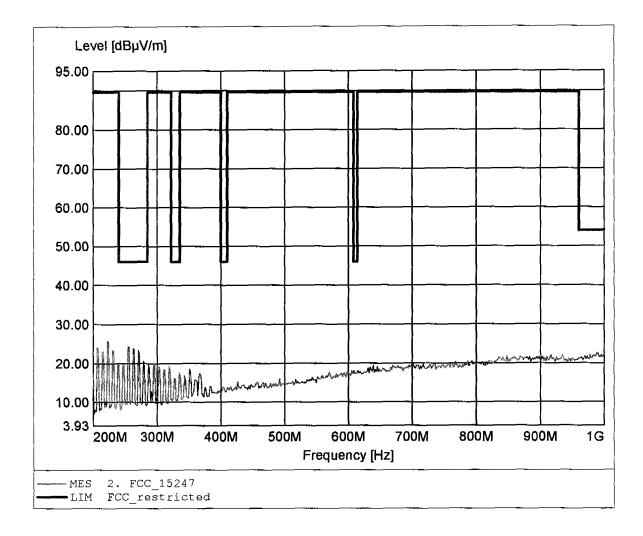
Test Specification:

according to \$15.247

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 222.445MHz, Emax: 25.77dBpV/m, RBW: 100kHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

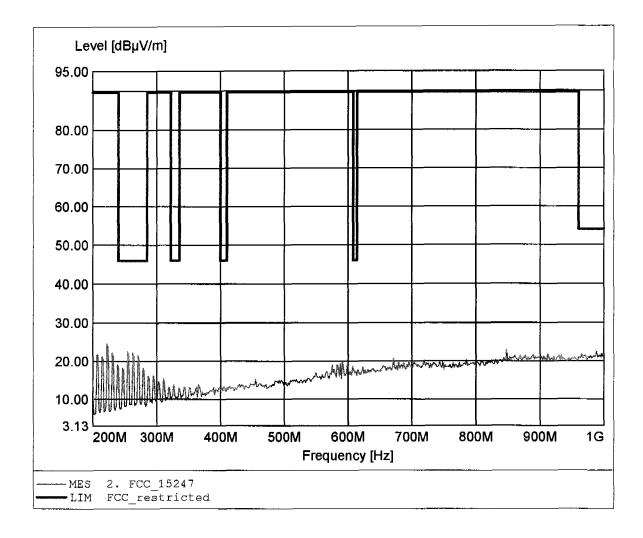
VA301W

Test Site / Operator: ETS /
Test Condition: 25°C /

/ Mr. Schlaps
/ Unom.: 3.6 V DC (long live battery)

/ Pwr: 25 (max power) / 2445 MHz

Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 222.445MHz, Emax: 24.47dBµV/m, RBW: 100kHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2445 MHz

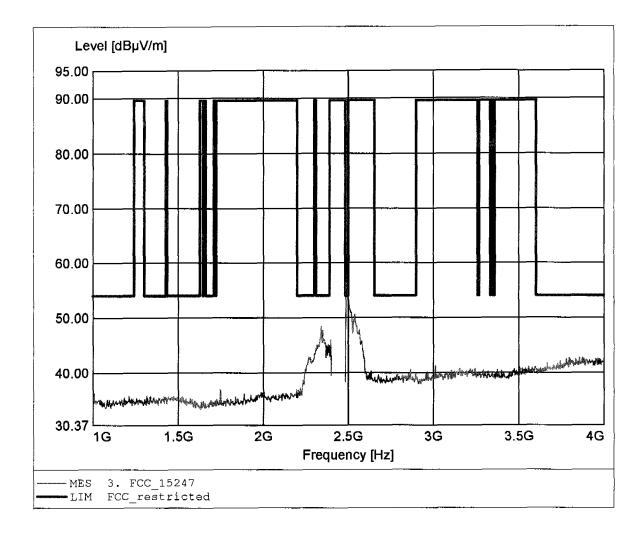
Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

Test Specification: according to \$15.247, peak detector

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

Comment 2: Freq: 2.487GHz, Emax: 56.31dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

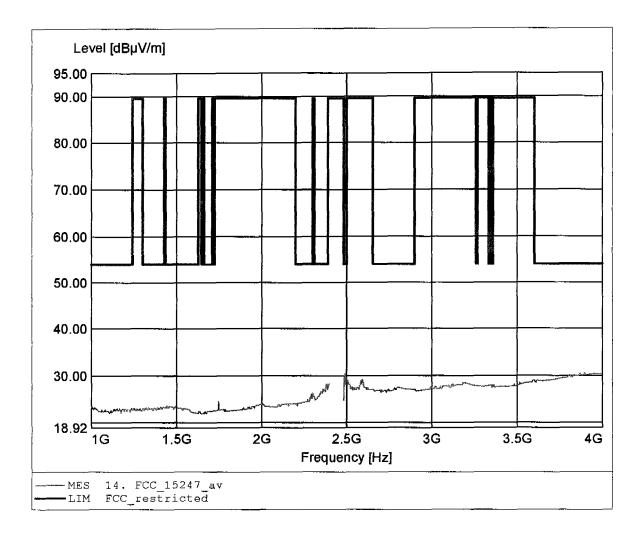
VA301W

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, average detector

/ Pwr: 25 (max power) / 2445 MHz

Test Condition:
Test Specification:
Comment 1:
Comment 2:

Dist.: 3m, Ant.: BBHA9120D, amplif.
Freq: 3.897GHz, Emax: 30.51dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

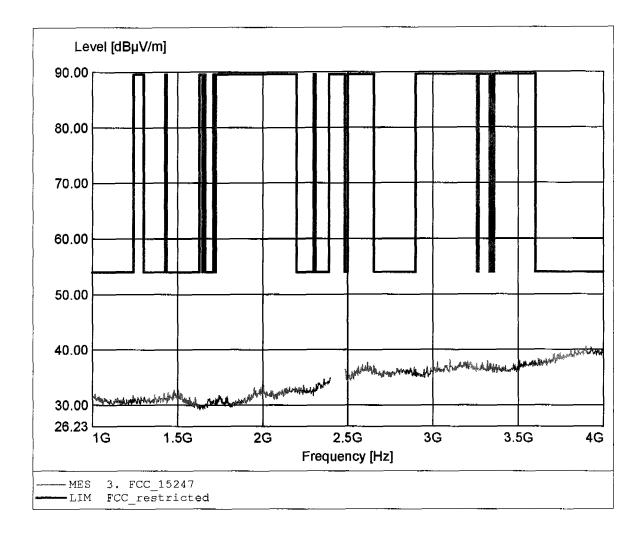
Model :

VA301W

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

/ Pwr: 25 (max power) / 2445 MHz

Test Condition:
Test Specification:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: BBHA9120D, amplif.
Freq: 3.897GHz, Emax: 40.47dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

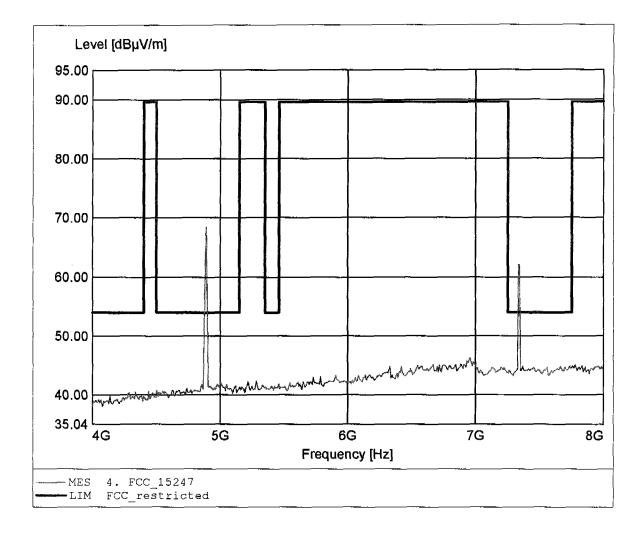
Model:

VA301W

/ Pwr: 25 (max power) / 2445 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

Test Condition:
Test Specification:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Freq: 4.890GHz, Emax: 68.49dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Specification:

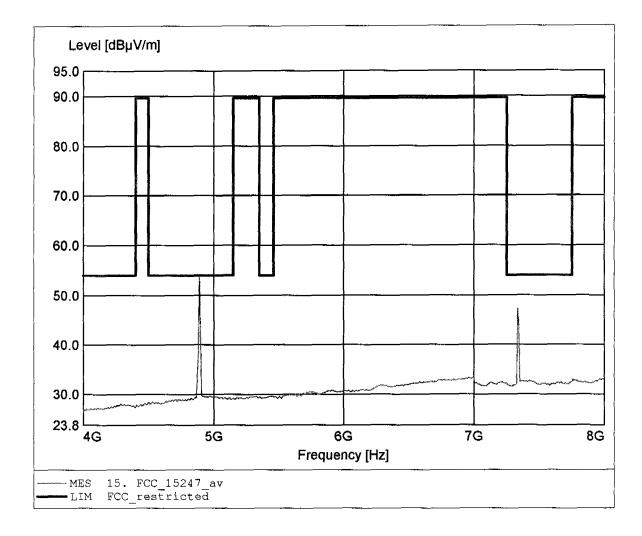
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, average detector

/ Pwr: 25 (max power) / 2445 MHz

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.890GHz, Emax: 53.78dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

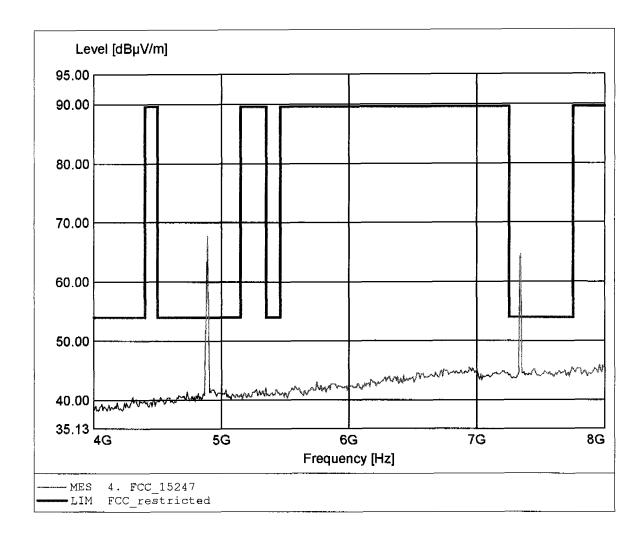
Test Site / Operator: ETS /
Test Condition: 25°C /

Test Condition:

/ Pwr: 25 (max power) / 2445 MHz

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector

Test Condition:
Test Specification:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Freq: 4.890GHz, Emax: 67.71dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, average detector

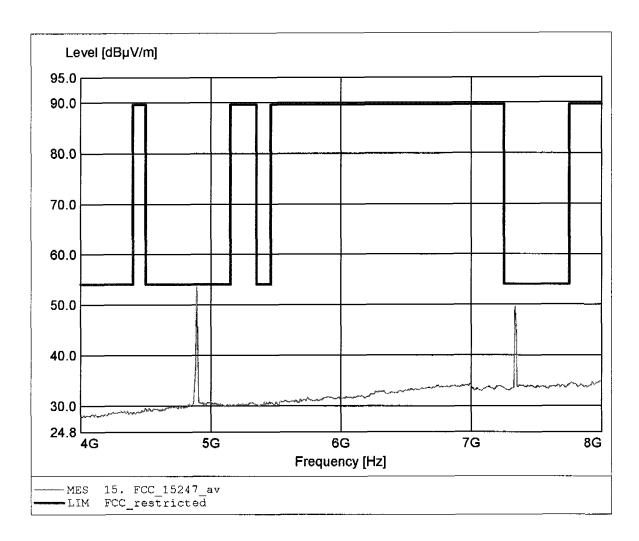
/ Pwr: 25 (max power) / 2445 MHz

Test Condition: Test Specification:

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.890GHz, Emax: 53.54dBuV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

Mr. Schlaps

Test Condition:

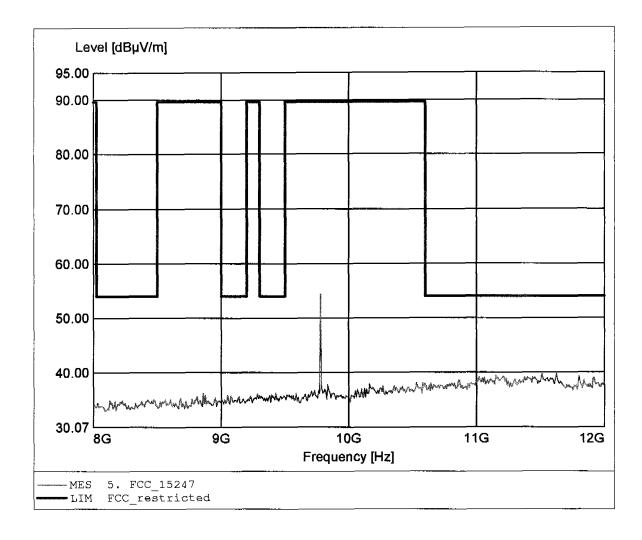
25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector

Test Specification:

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 9.780GHz, Emax: 54.36dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

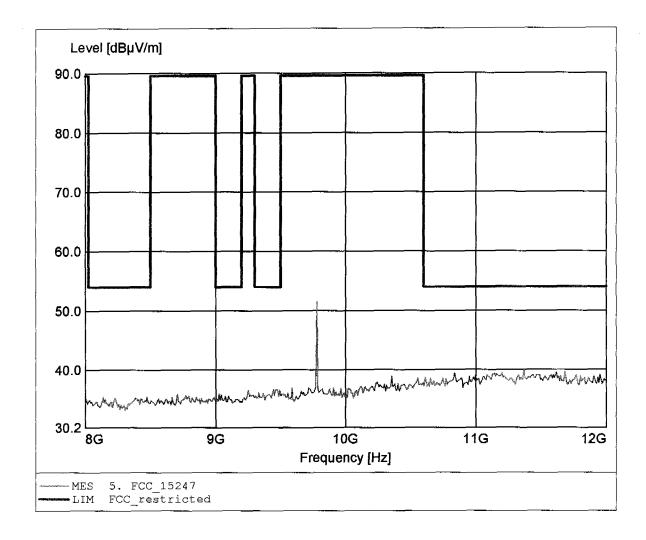
Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2445 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 9.780GHz, Emax: 51.50dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

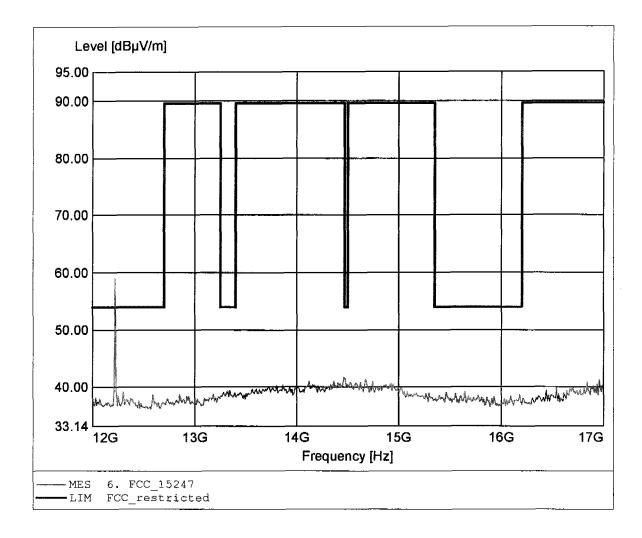
VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 12.220GHz, Emax: 58.98dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

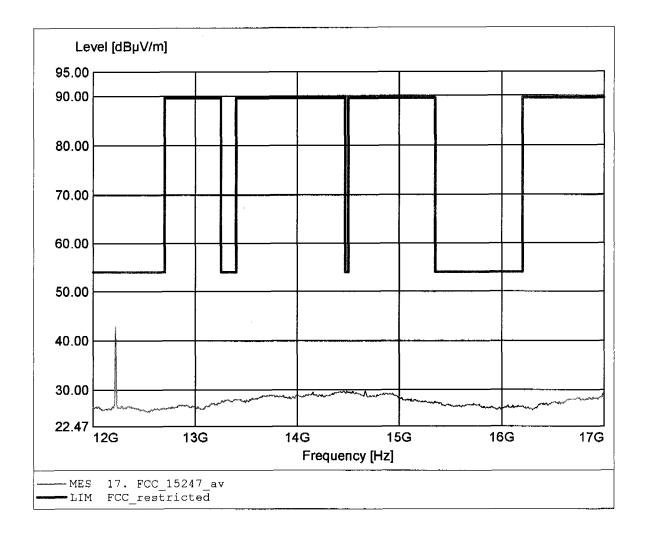
Test Site / Operator: ETS

Test Condition: Test Specification: ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, average detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 12.220GHz, Emax: 42.86dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

Test Condition:

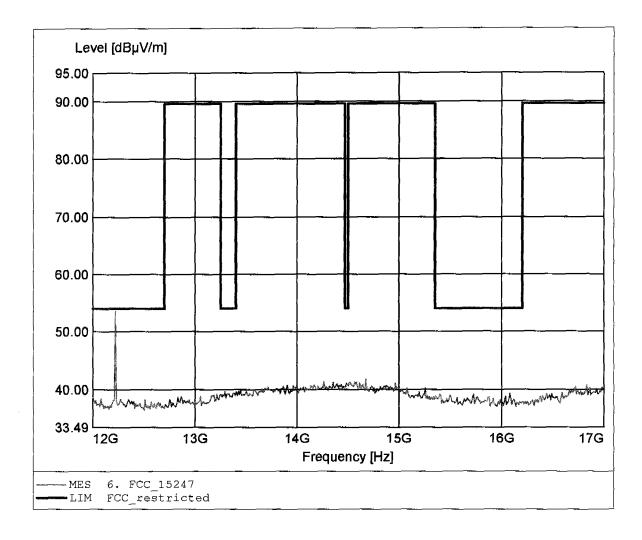
ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector 25°C

Test Specification:

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 12.220GHz, Emax: 53.51dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

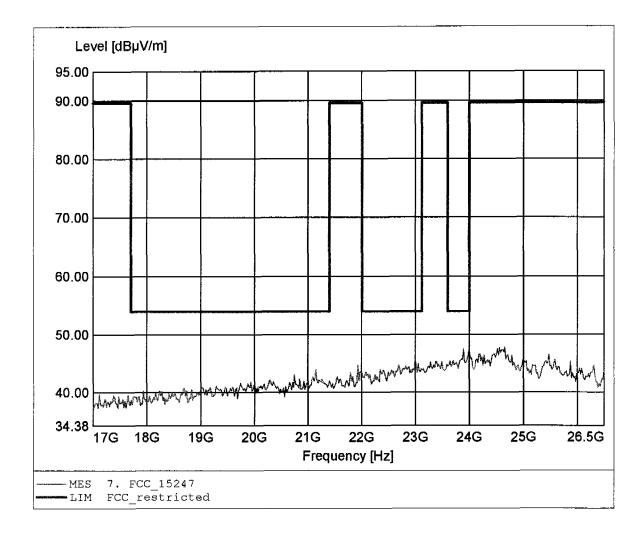
Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2445 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.653GHz, Emax: 47.81dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

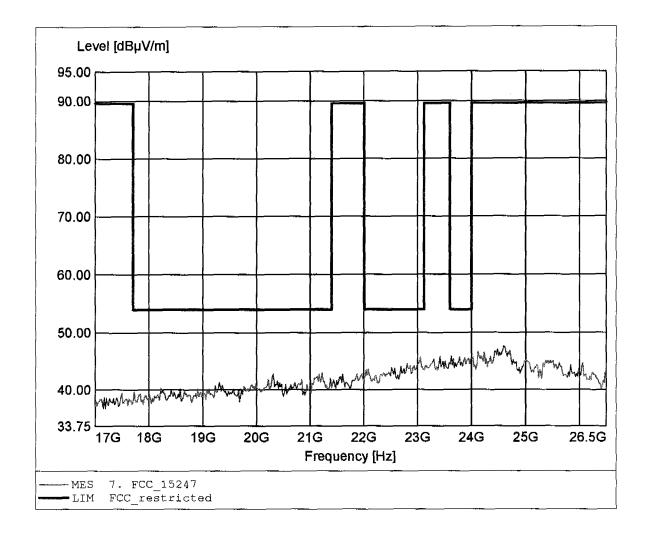
Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2445 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.596GHz, Emax: 47.65dBpV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

 ${\tt Honeywell}$ 

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps

Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

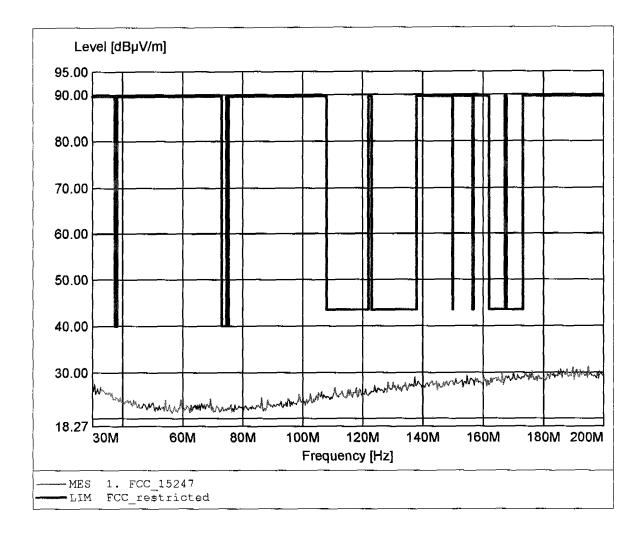
Test Specification: according to \$15.247

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

/ Pwr: 25 (max power) / 2480 MHz

Comment 2:

Dist.: 3m, Ant.: HK 110 Freq: 194.890MHz, Emax: 31.27dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

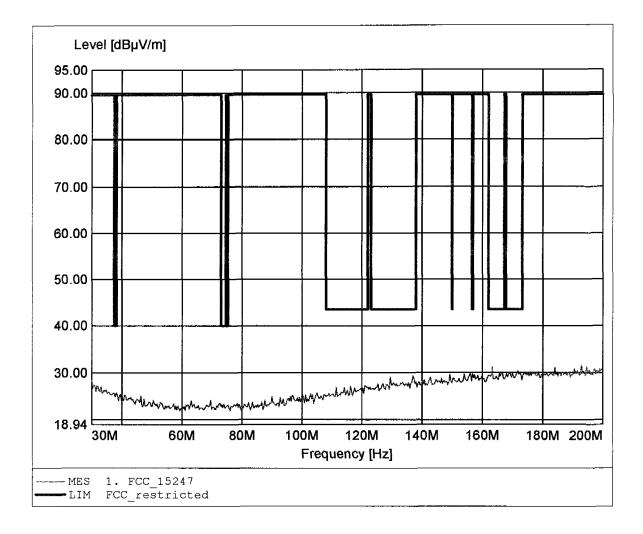
EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery) Test Condition:
Test Specification:
Comment 1:
Dist.: 3m, Ant.: HK 116
Freq: 192.846MHz, Emax: 31.53dBpV/m, RBW: 100kHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

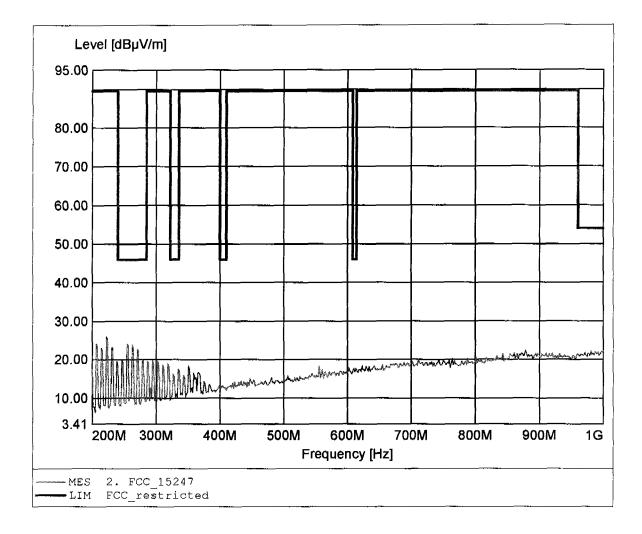
EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 222.445MHz, Emax: 25.94dBµV/m, RBW: 100kHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

Test Specification:

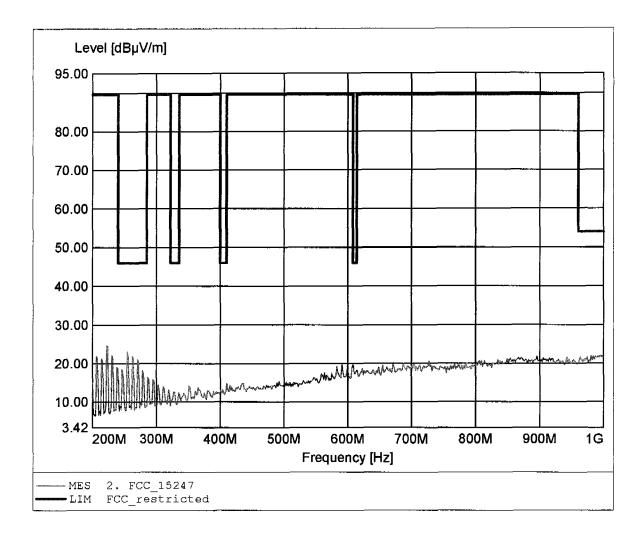
according to \$15.247

Comment 1:

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

Comment 2:

Freq: 222.445MHz, Emax: 24.60dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

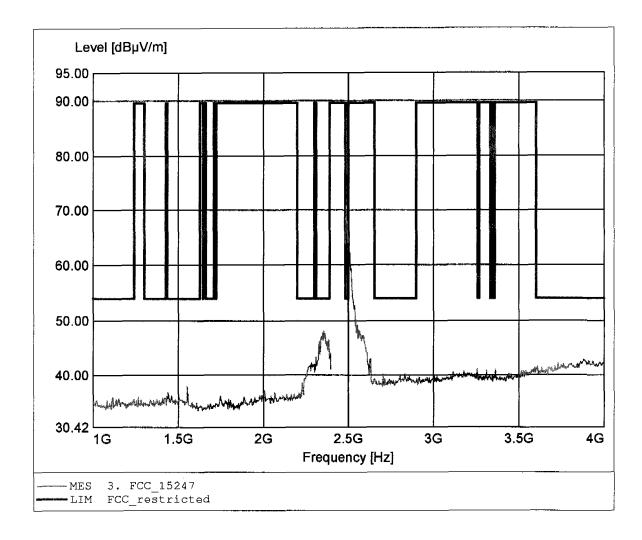
Test Specification:

Test Site / Operator: ETS / Mr. Treffke
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, amplif. Freq: 2.487GHz, Emax: 71.02dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model :

VA301W

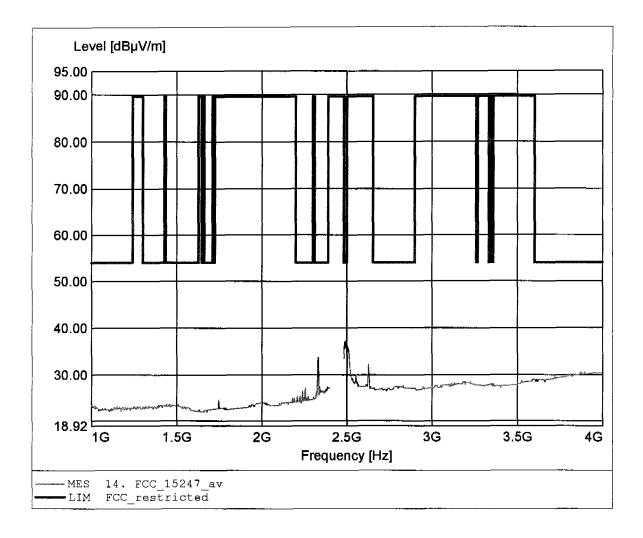
Test Site / Operator: ETS

Test Condition: Test Specification: ETS / Mr. Treffke 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, average detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, amplif. Freq: 2.499GHz, Emax: 37.44dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model :

VA301W

Test Site / Operator: ETS

Test Condition:

ETS / Mr. Treffke 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector

/ Pwr: 25 (max power) / 2480 MHz

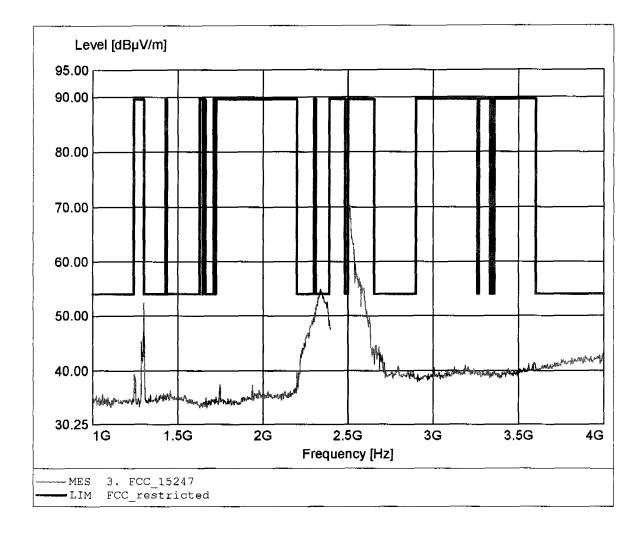
Test Specification:

Comment 1:

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

Comment 2:

Freq: 2.486GHz, Emax: 72.24dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Mr. Treffke

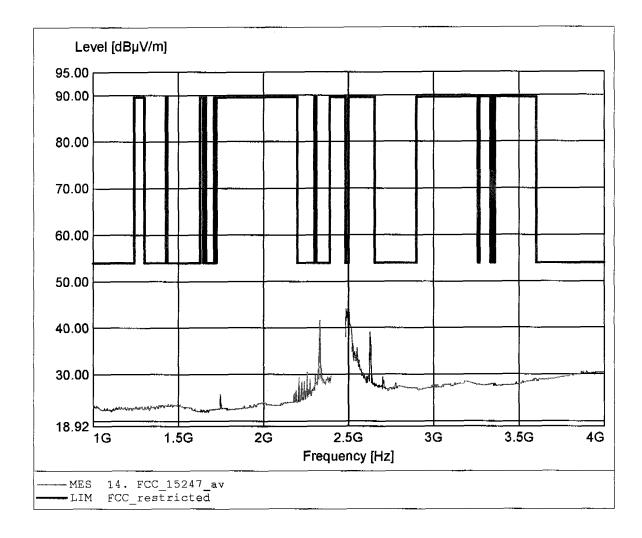
Test Site / Operator: ETS / Mr. Treffke

Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

Test Specification: according to \$15.247, average detector

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

Comment 2: Freq: 2.499GHz, Emax: 44.27dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

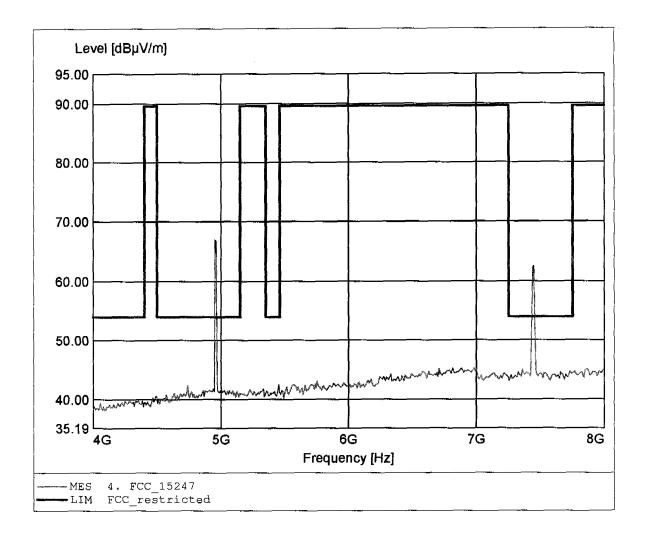
Model:

VA301W

/ Pwr: 25 (max power) / 2480 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

Test Condition: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.954GHz, Emax: 66.95dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

Mr. Schlaps

Test Condition:

/ Pwr: 25 (max power) / 2480 MHz

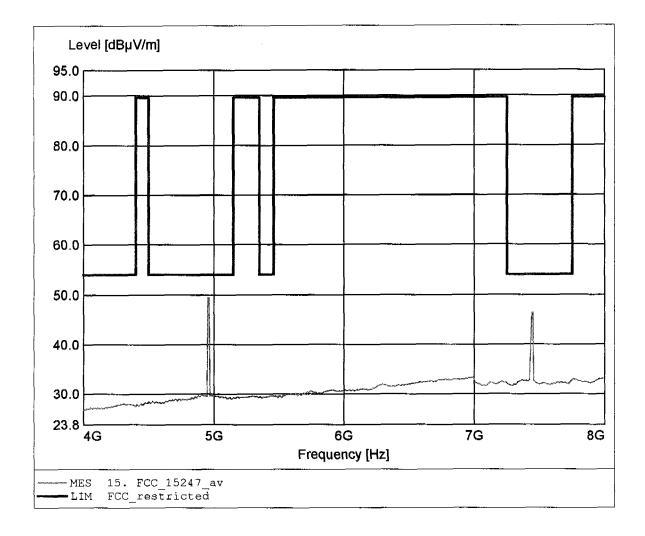
Test Specification:

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, average detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.954GHz, Emax: 49.48dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2480 MHz

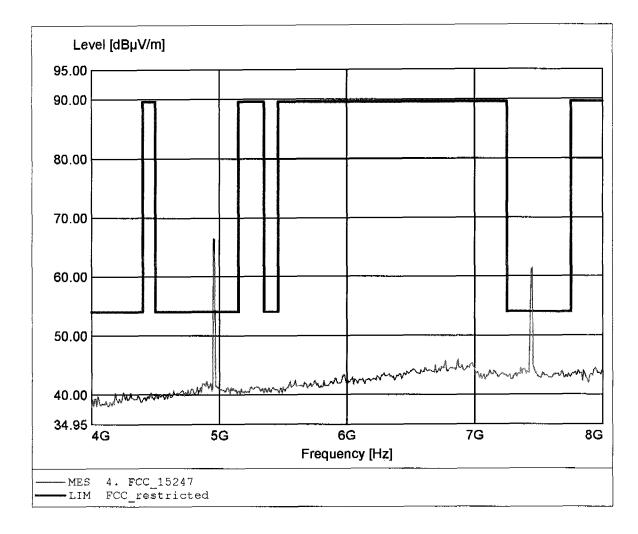
Test Specification:

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.954GHz, Emax: 66.48dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, average detector

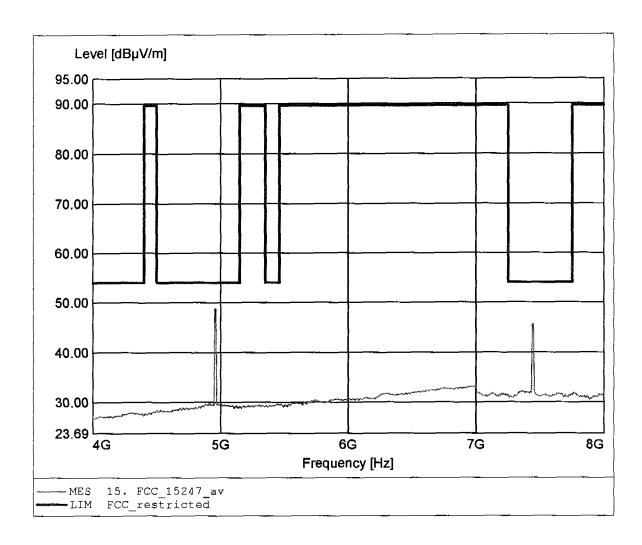
/ Pwr: 25 (max power) / 2480 MHz

Test Condition: Test Specification:

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 4.954GHz, Emax: 48.83dBuV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

/ Pwr: 25 (max power) / 2480 MHz

Test Condition:

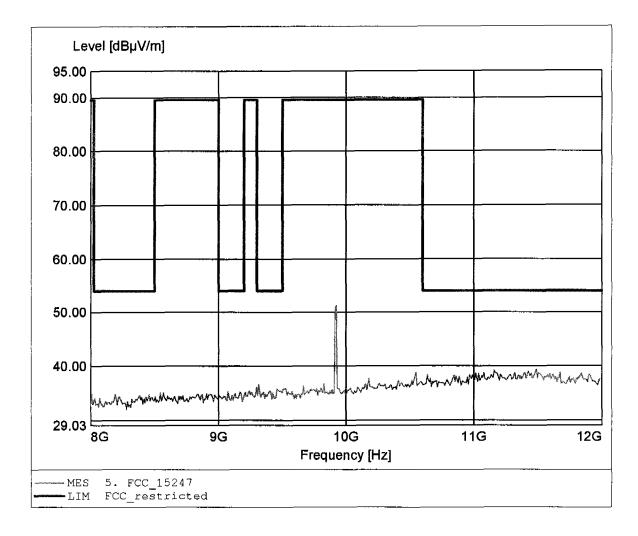
Test Specification: Comment 1:

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector

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

Comment 2:

Freq: 9.924GHz, Emax: 51.22dBµV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

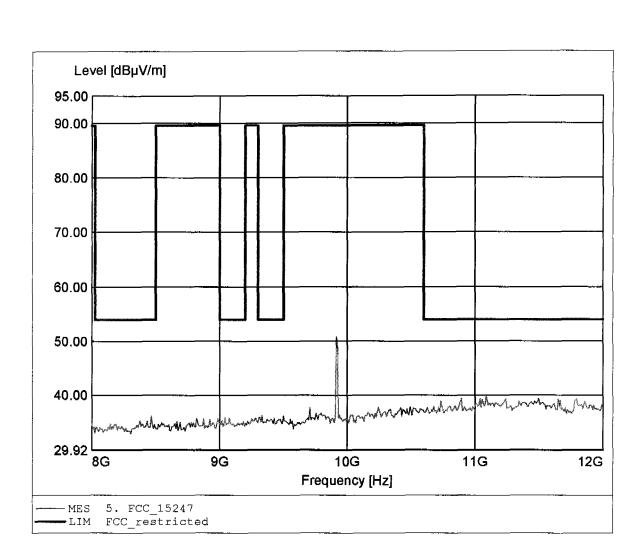
Test Condition: Test Specification: ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector

Comment 1:

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

Comment 2:

Freq: 9.916GHz, Emax: 50.83dBuV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

Test Condition: Test Specification:

Comment 1:

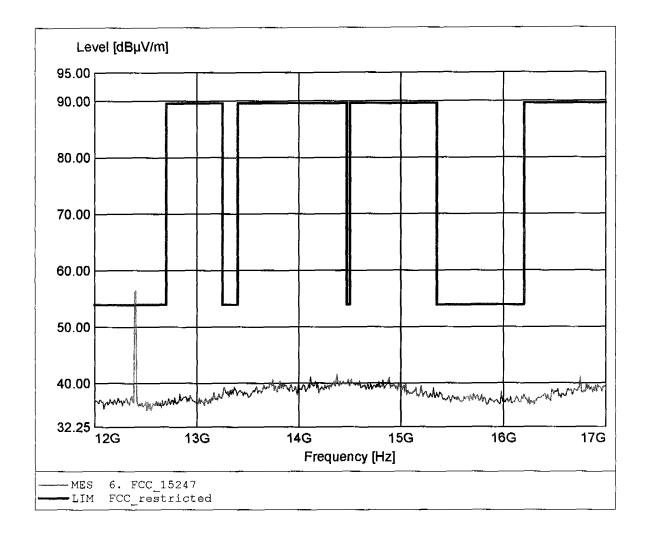
ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to \$15.247, peak detector

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 12.401GHz, Emax: 56.40dBµV/m, RBW: 1MHz

/ Pwr: 25 (max power)

/ 2480 MHz

Comment 2:



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

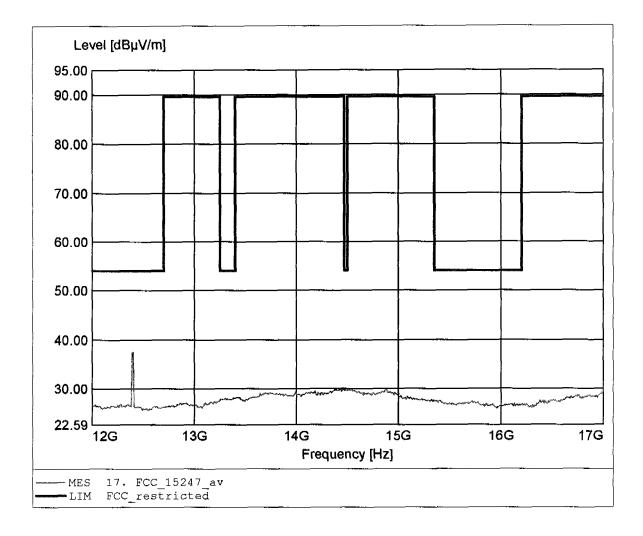
Test Specification:

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, average detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 12.401GHz, Emax: 37.51dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS

Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery)

/ Pwr: 25 (max power) / 2480 MHz

Test Condition: Test Specification:

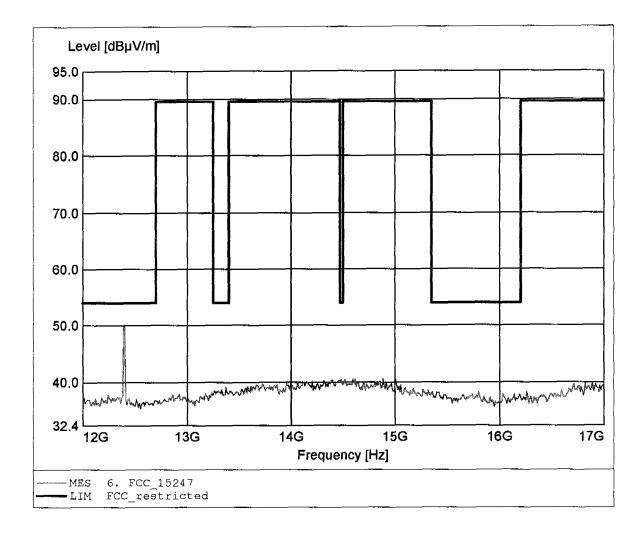
according to \$15.247, peak detector

Comment 1:

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

Comment 2:

Freq: 12.391GHz, Emax: 50.07dBuV/m, RBW: 1MHz



### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

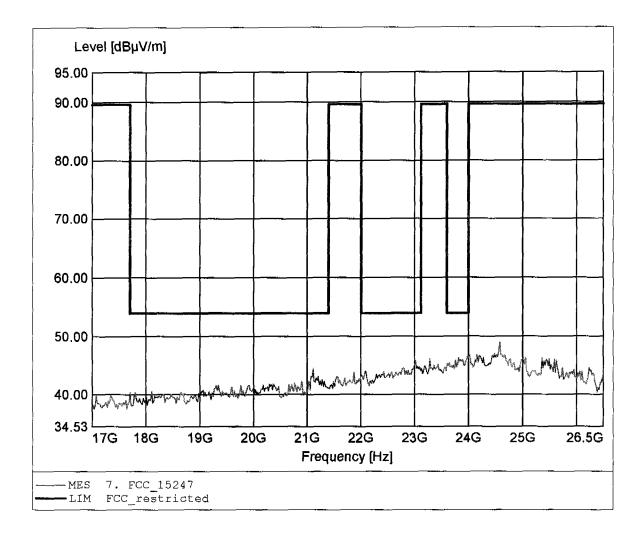
Wireless Sensor

Model:

VA301W

/ Pwr: 25 (max power) / 2480 MHz

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.577GHz, Emax: 48.92dBµV/m, RBW: 1MHz



#### Spurious emissions Field Strength

#### FCC RULES PART 15, SUBPART C

Approval Holder:

Honeywell

EUT:

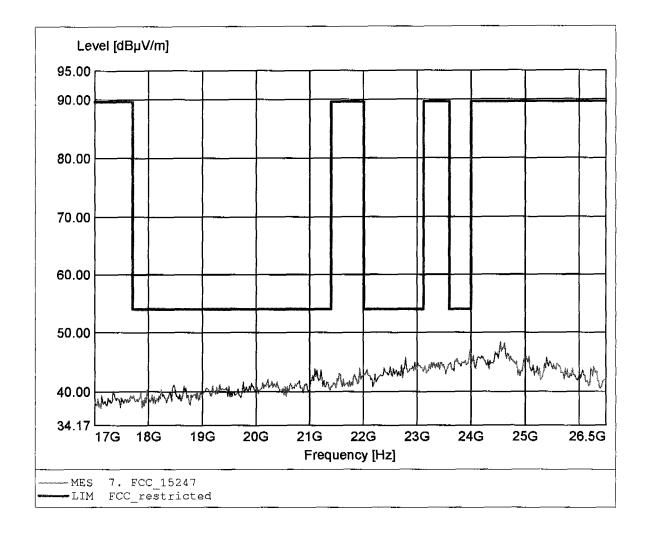
Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.539GHz, Emax: 48.40dBµV/m, RBW: 1MHz

/ Pwr: 25 (max power) / 2480 MHz





# Appendix H

AC power line conducted emissions

ETS Product Service AG Registriernummer: G0M20702-1168-C-1 Appendix H



# Appendix I

Receiver radiated emisisons

ETS Product Service AG Registriernummer: G0M20702-1168-C-1 Appendix I

#### Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W 2445 MHz /

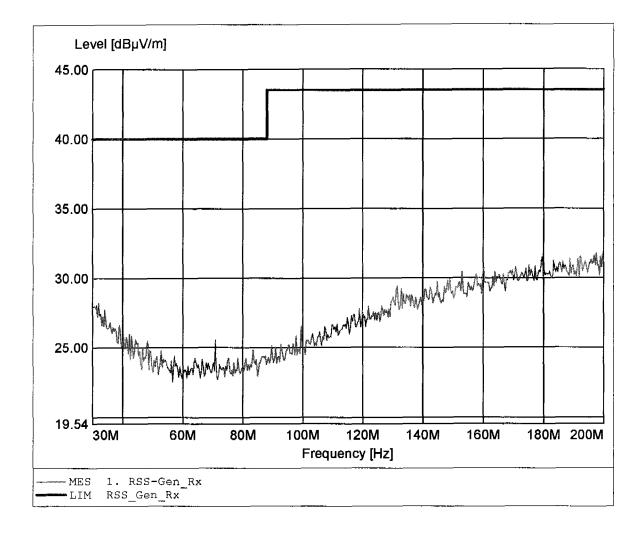
Test Site / Operator: ETS Test Condition:

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to RSS-Gen Issue 1

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

Comment 2:

Freq:197.615MHz Emax:31.80dBµV/m RBW: 100 kHz



#### Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

2445 MHz VA301W

Test Site / Operator: ETS Test Condition:

/ Mr. Schlaps / Unom.: 3.6 V DC (long live battery) 25°C

Test Specification:

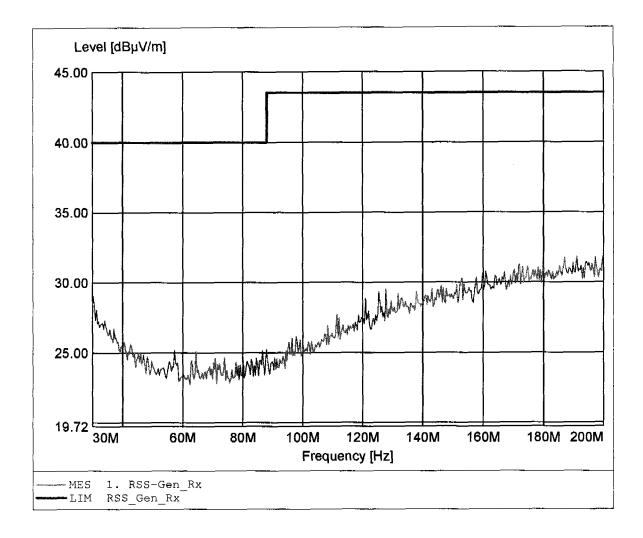
according to RSS-Gen Issue 1

Comment 1:

Dist.: 3m, Ant.: HK 116

Comment 2:

Freq:200.000MHz Emax:31.91dBuV/m RBW: 100 kHz



#### Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

2445 MHz VA301W Mr. Schlaps

Test Site / Operator: ETS / Test Condition:

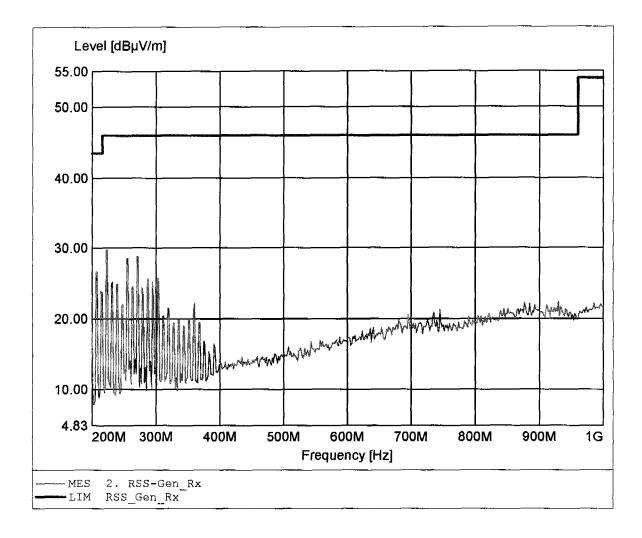
25°C / Unom.: 3.6 V DC (long live battery) according to RSS-Gen Issue 1

Test Specification:

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL 223, ampl. Freq:224.048MHz Emax:29.71dBpV/m RBW: 100 kHz



# Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

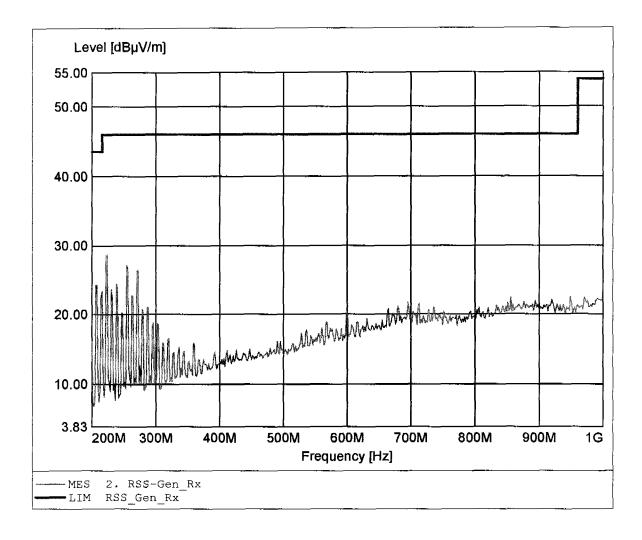
Model: Test Site / Operator: ETS

VA301W 2445 MHz /

Test Condition:

:: ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to RSS-Gen Issue 1

Test Condition:
Test Specification:
according to RSS-Gen 1888 |
Dist.: 3m, Ant.: HL 223, ampl. Freq:224.048MHz Emax:28.67dBμV/m RBW: 100 kHz



#### Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model: Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

VA301W 2445 MHz

Test Specification:

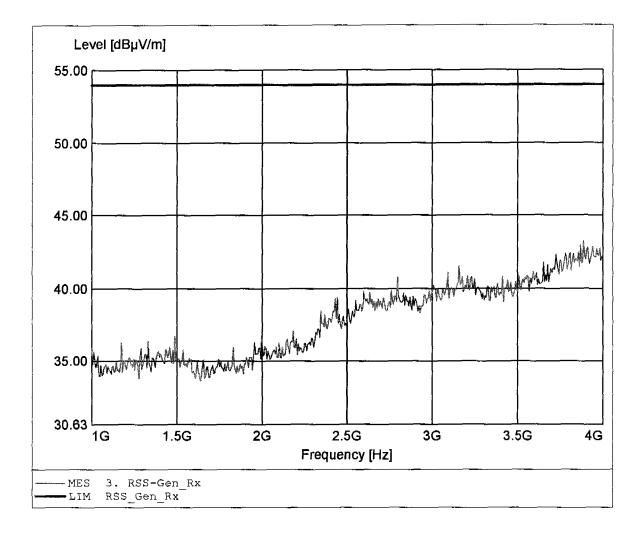
according to RSS-Gen Issue 1

Comment 1:

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

Comment 2:

Freq:3.886GHz Emax:43.28dBuV/m RBW: 1 MHz



# Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

2445 MHz VA301W /

Test Specification:

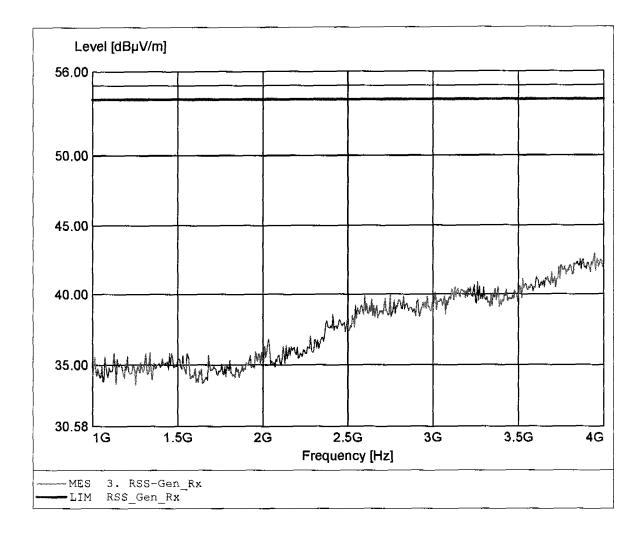
Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery) according to RSS-Gen Issue 1

Comment 1:

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

Comment 2:

Freq:3.946GHz Emax:42.94dBuV/m RBW: 1 MHz



#### Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W / 2445 MHz

Test Site / Operator: ETS
Test Condition: 25°C

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery)

Test Specification:

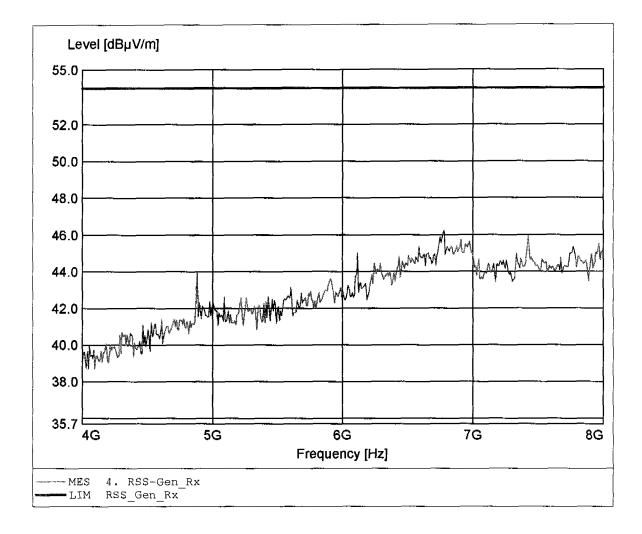
according to RSS-Gen Issue 1

Comment 1:

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

Comment 2:

Freq: 6.782GHz Emax: 46.22dBµV/m RBW: 1 MHz



# Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W / Test Site / Operator: ETS /
Test Condition: 25°C /

2445 MHz Mr. Schlaps

Test Condition:

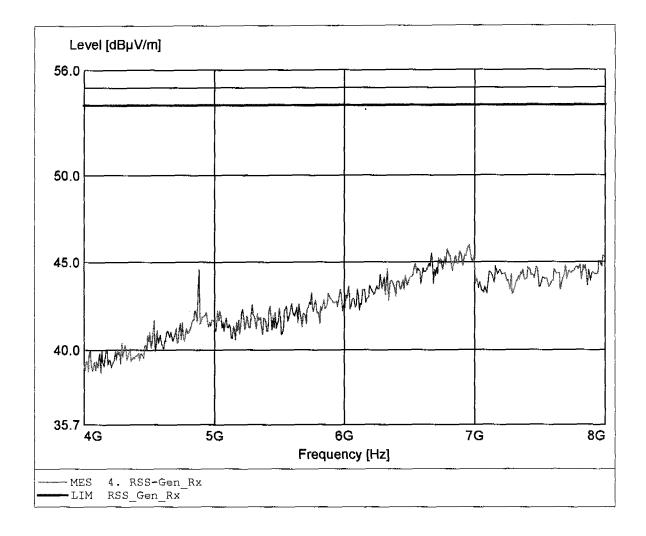
25°C / Unom.: 3.6 V DC (long live battery)

Test Specification:

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

Comment 1: Comment 2:

Freq: 6.958GHz Emax: 46.00dBuV/m RBW: 1 MHz



## Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W 2445 MHz /

Test Site / Operator: ETS Test Condition:

ETS / Mr. Schlaps 25°C / Unom.: 3.6 V DC (long live battery) according to RSS-Gen Issue 1

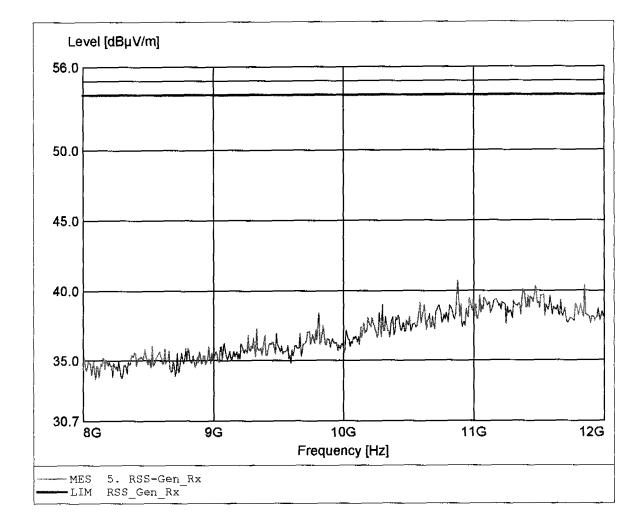
Test Specification:

Comment 1:

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

Comment 2:

Freq:10.878GHz Emax:40.73dBµV/m RBW: 1 MHz



# Standards Industry Canada, RSS-GEN

Approval Holder:

Honeywell

EUT:

Wireless Sensor

Model:

VA301W

Test Site / Operator: ETS / Mr. Schlaps
Test Condition: 25°C / Unom.: 3.6 V DC (long live battery)

2445 MHz

Test Specification:

according to RSS-Gen Issue 1

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl. Freq:11.110GHz Emax:39.74dBuV/m RBW: 1 MHz

