

Appendix B

Coordination with fixed microwave service

Registration number: G0M20611-1021-C-1

Affidabit of Participation

FCC Section 15.307(b) Affidabit

I, Michael Stima, Managing Director of UTAM, Inc., hereby swear and affirm that:

NEC Philips Unified Solutions Nederland B.V.

is a participating member of UTAM, Inc. in good standing for purposes of Section 15.307(b) of the FCC rules.

Subscribed to and sworn this 26th day of April, 2007

Michael Stima, Managing Director

UTAM, Inc.

822 Dow Rd. P.O. Box 8126

Bridgewater, New Jersey 08807

Tel: (508) 526-3636

Affidavit #: NEC042607



Appendix C

Reference to Subpart B

Registration number: G0M20611-1021-C-1



Appendix D

Conducted limits AC Power line

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

EUT:

3 IP DECT Basestation models

Manufacturer:

NEC Philips Unified Solutions Nederland B.V. Unom: 120 V AC (AC/DC-ADAPTOR), Tnom: 23°C

Reference:

ETS

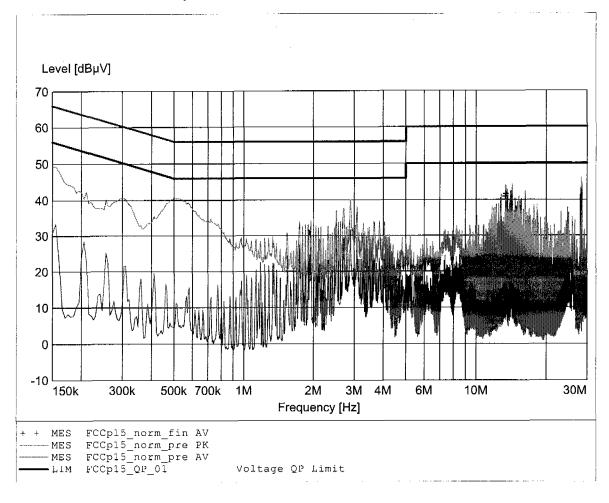
Test Site: Operator:

Mr. Mees

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

model: AP200S NA

Adaptor: PAS16U-480 (POE)



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

EUT:

3 IP DECT Basestation models

Manufacturer:

NEC Philips Unified Solutions Nederland B.V. Unom: 120 V AC (AC/DC-ADAPTOR), Tnom: 23°C

Reference: Test Site:

ETS

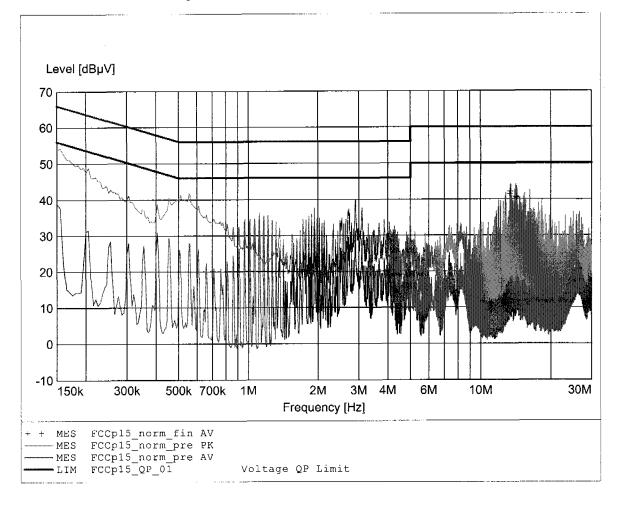
Operator:

Mr. Mees

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

model: AP200S NA

Adaptor: PSA16U-480 (POE)





Appendix E

Emission bandwidth



FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde

Test Specification

6.1.3 Emission bandwidth

Measured Bandwidth

Emission Bandwidth = 1.59MHz

Max. Permitted Power

Limit = 2.5 MHz

Test result

Verdict = PASS



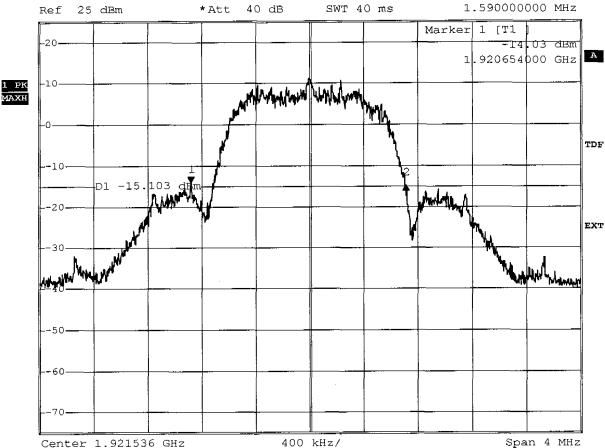
Emission Bandwidth

*RBW 10 kHz

Delta 2 [T1]

*VBW 30 kHz

-0.62 dB



Comment: Ansi C63.17-1998 6.1.3 Date: 27.NOV.2006 10:02:34



Additional values as required for the detailed threshold monitoring bandwidth test ANSI $C63.17-1988\ 7.4.2$

-6 dB points

Lower frequency

: 1921.016MHz

Higher frequency

: 1921.978MHz

-12 dB points

Lower frequency

: 1920.938MHz

Higher frequency

: 1922.128MHz



FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde

Test Specification

6.1.3 Emission bandwidth

Measured Bandwidth

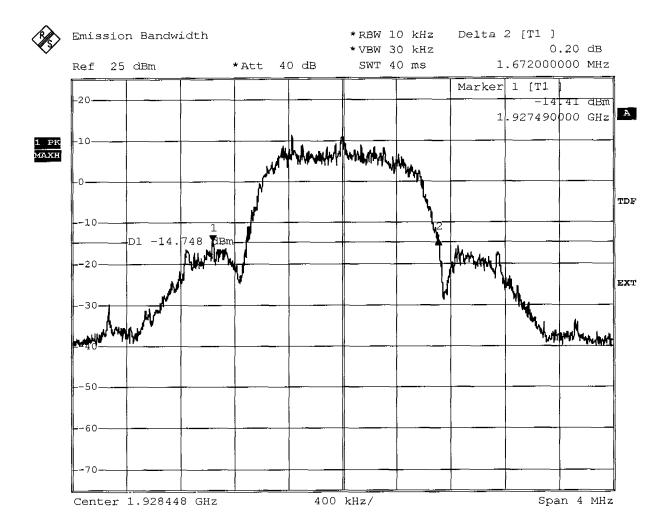
Emission Bandwidth = 1.67MHz

Max. Permitted Power

Limit = 2.5 MHz

Test result

Verdict = PASS



Comment: Ansi C63.17-1998 6.1.3 Date: 27.NOV.2006 10:07:08

ETS PRODUCT SERVICE AG



Additional values as required for the detailed threshold monitoring bandwidth test ANSI $C63.17-1988\ 7.4.2$

-6 dB points

Lower frequency

: 1927.972MHz

Higher frequency

: 1928.902MHz

-12 dB points

Lower frequency

: 1927.836MHz

Higher frequency

: 1929.048MHz



FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT 3 IP DECT Basestation models

AP200 NA / AP200S NA / AP200E NA Model

Applicant **NEC Philips Unified Solutions**

Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.3 Emission bandwidth

Measured Bandwidth Emission Bandwidth = 1.42MHz

Max. Permitted Power Limit = 2.5 MHz

Verdict = PASS Test result

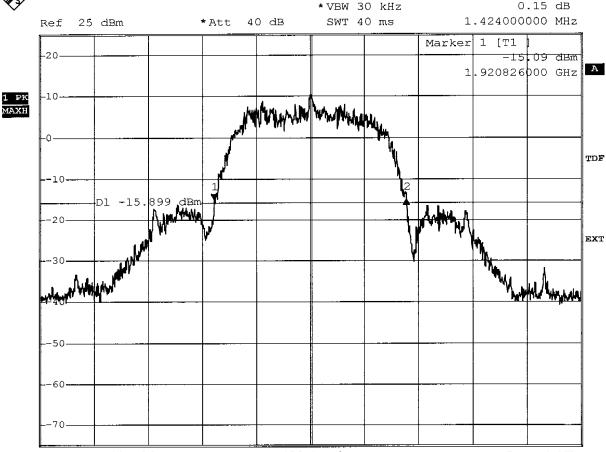


Emission Bandwidth

*RBW 10 kHz

Delta 2 [T1]

*VBW 30 kHz



Center 1.921536 GHz

400 kHz/

Span 4 MHz

Comment: Ansi C63.17-1998 6.1.3 29.NOV.2006 08:21:40 Date:



Additional values as required for the detailed threshold monitoring bandwidth test ANSI C63.17-1988 7.4.2

-6 dB points

Lower frequency

: 1921.046MHz

Higher frequency

: 1922.016MHz

-12 dB points

Lower frequency

: 1920.948MHz

Higher frequency

: 1922.144MHz



FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde 6.1.3 Emission bandwidth

Test Specification

Measured Bandwidth Max. Permitted Power Emission Bandwidth = 1.41MHz

Limit = 2.5 MHz

Test result

Verdict = PASS



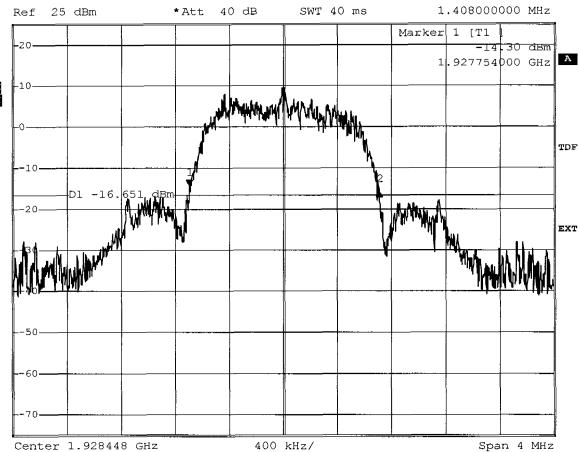
Emission Bandwidth

*RBW 10 kHz

Delta 2 [T1]

*VBW 30 kHz

-1.51 dB



Comment: Ansi C63.17-1998 6.1.3

Date:

29.NOV.2006 08:58:11



Additional values as required for the detailed threshold monitoring bandwidth test ANSI C63.17-1988 7.4.2

-6 dB points

Lower frequency Higher frequency : 1927.954MHz : 1928.956MHz

-12 dB points

Lower frequency Higher frequency : 1927.852MHz : 1929.038MHz



Appendix F

Peak Transmit Power



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde

Test Specification

6.1.2 Peak transmit power

Supply

Measured Bandwidth

1.672MHz

Max. Permitted Power

21,11 dBm

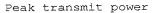
Measured Power

19,57 dBm

Test result

Verdict = PASS



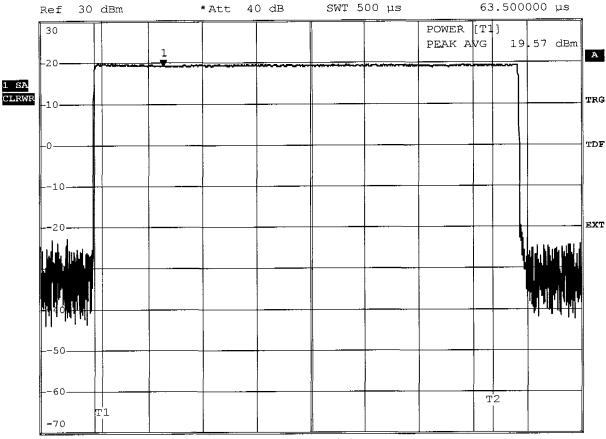


RBW 3 MHz

Marker 1 [Tl]

*VBW 10 MHz

19.11 dBm



Center 1.921536 GHz

50 µs/

Comment: Ansi C63.17-1998 6.1.2 Date: 27.NOV.2006 10:37:24



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

3 IP DECT Basestation models **EUT**

AP200 NA / AP200S NA / AP200E NA Model

NEC Philips Unified Solutions Applicant

Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.2 Peak transmit power

Supply Vmax Measured Bandwidth 1.672MHz Max. Permitted Power 21,11 dBm 19,98 dBm Measured Power Verdict = PASSTest result



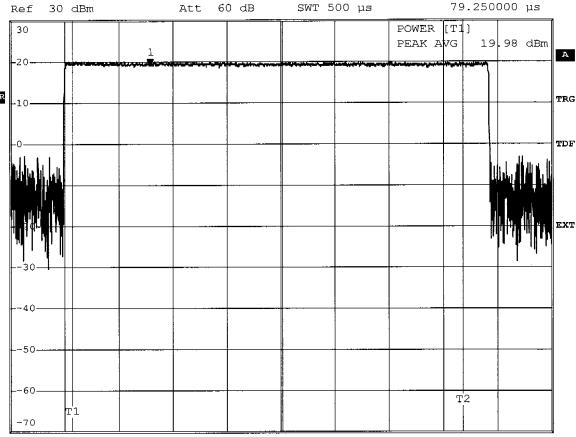
Peak transmit power RBW 3 MHz

Marker 1 [T1]

19.11 dBm *VBW 10 MHz

30 dBm Att 60 dB SWT 500 µs





Center 1.921536 GHz

50 µs/

Comment: Ansi C63.17-1998 6.1.2 27.NOV.2006 11:04:25 Date:



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde

Test Specification

6.1.2 Peak transmit power

Supply

Vmin

Measured Bandwidth Max. Permitted Power 21,11 dBm

1.672MHz 19,93 dBm

Measured Power Test result

Verdict = PASS



Peak transmit power

RBW 3 MHz

Marker 1 [T1]

* VBW 10 MHz

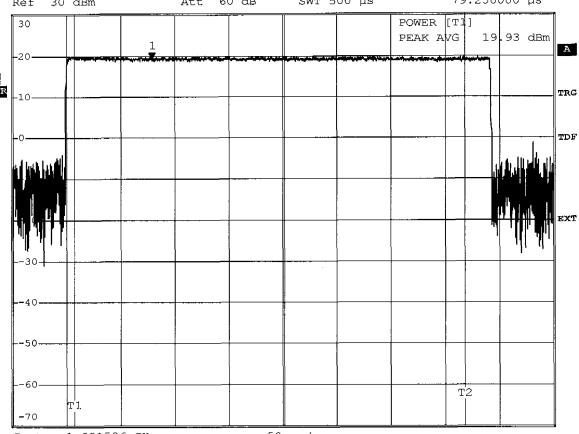
19.38 dBm

Ref 30 dBm Att 60 dB

SWT 500 µs

79.250000 µs





Center 1.921536 GHz

50 μs/

Comment: Ansi C63.17-1998 6.1.2 Date:

27.NOV.2006 11:03:14



Testprocedure ANSI 63.17-1998 6.1.2 **UPCS**

3 IP DECT Basestation models **EUT**

AP200 NA / AP200S NA / AP200E NA Model

NEC Philips Unified Solutions Applicant

Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.2 Peak transmit power

Supply Vnom Measured Bandwidth 1.672MHz Max. Permitted Power 21,11 dBm 19,44 dBm Measured Power Verdict = PASSTest result

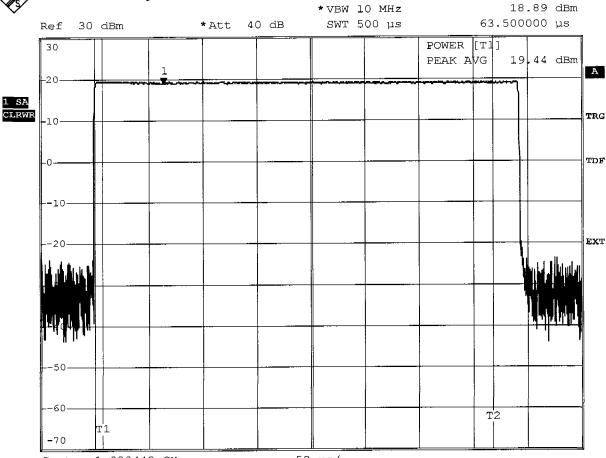


Peak transmit power

RBW 3 MHz

Marker 1 [Tl]

*VBW 10 MHz



Center 1.928448 GHz

50 μs/

Comment: Ansi C63.17-1998 6.1.2 27.NOV.2006 10:39:17 Date:



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde

Test Specification

6.1.2 Peak transmit power

Supply

Vmax 1.672MHz

Measured Bandwidth Max, Permitted Power

21.11 dBm

Measured Power

19,69 dBm

Test result

Verdict = PASS



Peak transmit power

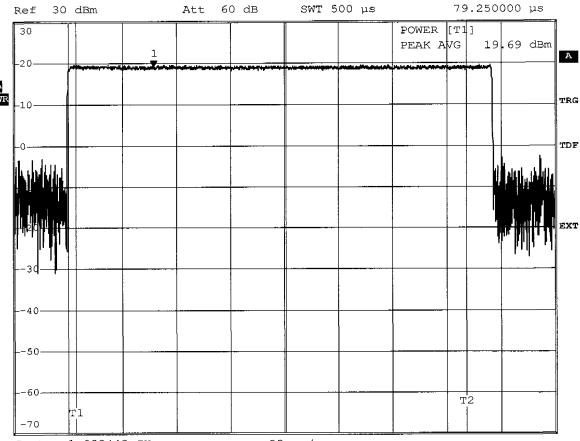
RBW 3 MHz

Marker 1 [T1]

*VBW 10 MHz

18.99 dBm





Center 1.928448 GHz

50 µs/

Comment: Ansi C63.17-1998 6.1.2 27.NOV.2006 10:53:15 Date:



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT 3 IP DECT Basestation models

AP200 NA / AP200S NA / AP200E NA Model

NEC Philips Unified Solutions Applicant

Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.2 Peak transmit power

Supply Vmin Measured Bandwidth 1.672MHz Max. Permitted Power 21,11 dBm 19,68 dBm Measured Power Verdict = PASSTest result



Peak transmit power

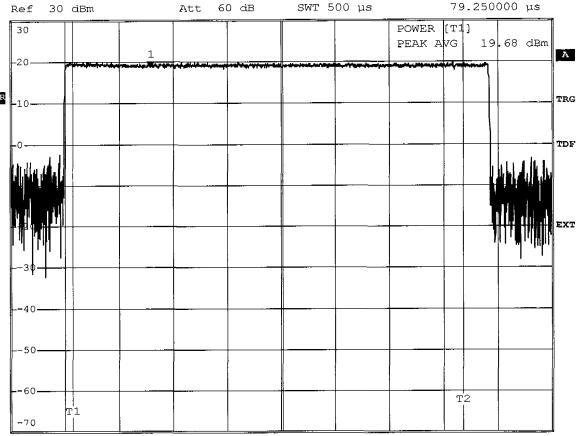
RBW 3 MHz

Marker 1 [T1]

*VBW 10 MHz

18.71 dBm





Center 1.928448 GHz

50 µs/

Comment: Ansi C63.17-1998 6.1.2 27.NOV.2006 10:51:26 Date:



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT 3 IP DECT Basestation models

Model AP200 NA / AP200S NA / AP200E NA

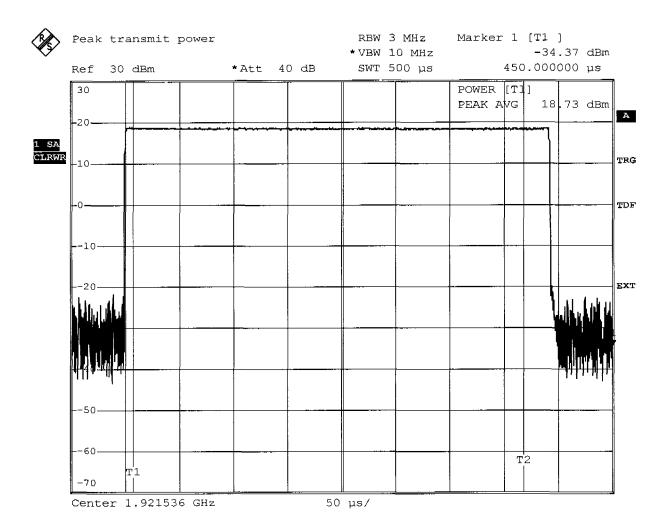
Applicant NEC Philips Unified Solutions

Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.2 Peak transmit power

Supply Vnom
Measured Bandwidth 1.424MHz
Max. Permitted Power 20,76 dBm
Measured Power 18,7 dBm
Test result Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2 Date: 29.NOV.2006 08:35:02



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT 3 IP DECT Basestation models

Model AP200 NA / AP200S NA / AP200E NA

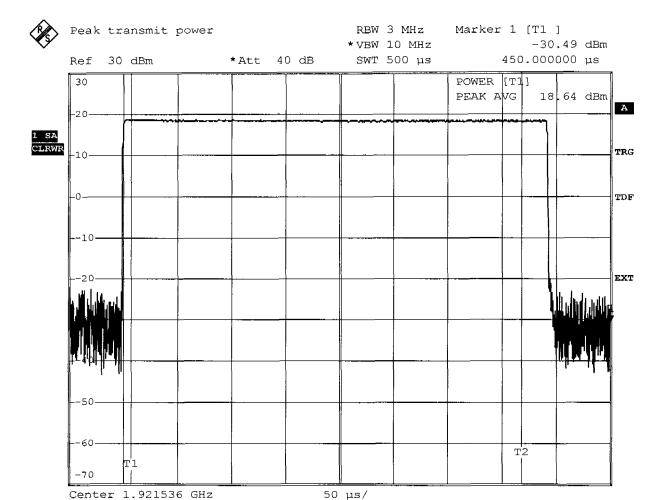
Applicant NEC Philips Unified Solutions

Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.2 Peak transmit power

Supply Vmax
Measured Bandwidth 1.424MHz
Max. Permitted Power 20,76 dBm
Measured Power 18,61 dBm
Test result Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2 Date: 29.NOV.2006 08:37:21



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT 3 IP DECT Basestation models

Model AP200 NA / AP200S NA / AP200E NA

Applicant NEC Philips Unified Solutions

Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.2 Peak transmit power

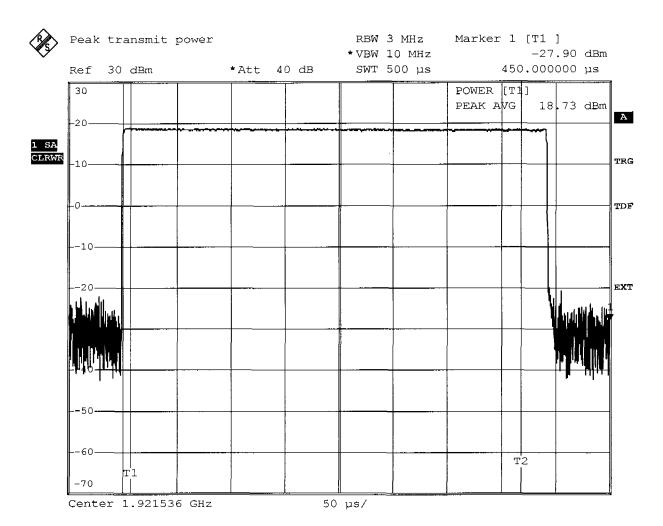
Supply Vmin

Measured Bandwidth 1.424MHz

Max. Permitted Power 20,76 dBm

Measured Power 18,73 dBm

Test result Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2 Date: 29.NOV.2006 08:36:13



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde

Test Specification

6.1.2 Peak transmit power

Supply

Vnom

Measured Bandwidth Max. Permitted Power 20,74 dBm

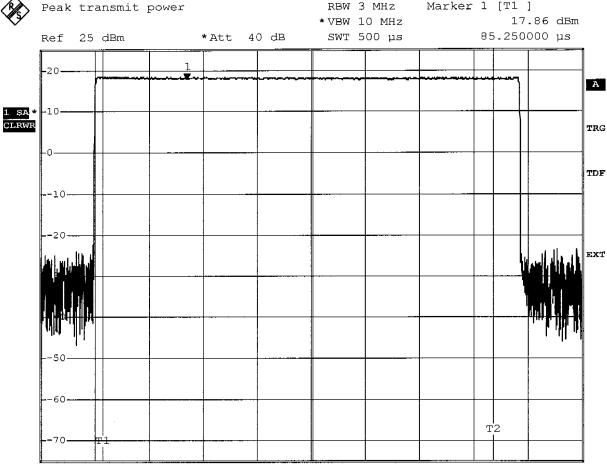
1.408MHz

Measured Power

18,43 dBm

Test result

Verdict = PASS



Center 1.928448 GHz

50 µs/

Comment: Ansi C63.17-1998 6.1.2 29.NOV.2006 09:03:11 Date:



Testprocedure ANSI 63.17-1998 6.1.2 UPCS

3 IP DECT Basestation models **EUT**

AP200 NA / AP200S NA / AP200E NA Model

NEC Philips Unified Solutions Applicant

Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.2 Peak transmit power

Supply Vmax 1.408MHz Measured Bandwidth Max. Permitted Power 20,74 dBm Measured Power 18,4 dBm Verdict = PASS Test result



Peak transmit power

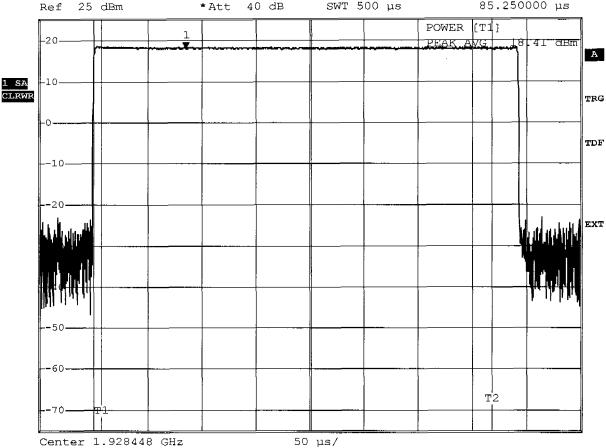
RBW 3 MHz

Marker 1 [T1]

17.95 dBm

*VBW 10 MHz SWT 500 µs 40 dB

 $85.250000~\mu s$



Comment: Ansi C63.17-1998 6.1.2 29.NOV.2006 09:13:12



Testprocedure ANSI 63.17-1998 6.1.2 **UPCS**

3 IP DECT Basestation models **EUT**

AP200 NA / AP200S NA / AP200E NA Model

NEC Philips Unified Solutions Applicant

Temperature 23°C

ETS Reichenwalde Test Site / Operator

Test Specification 6.1.2 Peak transmit power

Supply Vmin Measured Bandwidth 1.408MHz Max. Permitted Power 20,74 dBm 18,46 dBm Measured Power Verdict = PASSTest result



Peak transmit power

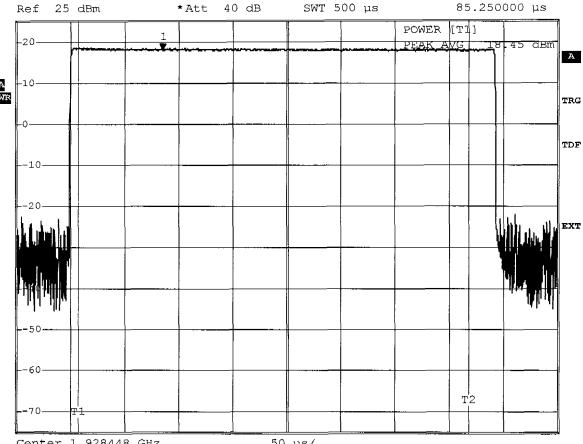
RBW 3 MHz

Marker 1 [T1]

17.98 dBm

*VBW 10 MHz SWT 500 µs 25 dBm *Att 40 dB





Center 1.928448 GHz

50 µs/

Comment: Ansi C63.17-1998 6.1.2 Date: 29.NOV.2006 09:15:10



Appendix G

Power spectral density



Testprocedure ANSI 63.17-2006 6.1.5 UPCS

EUT 3 IP DECT Basestation models

Model AP200 NA / AP200S NA / AP200E NA

Applicant NEC Philips Unified Solutions

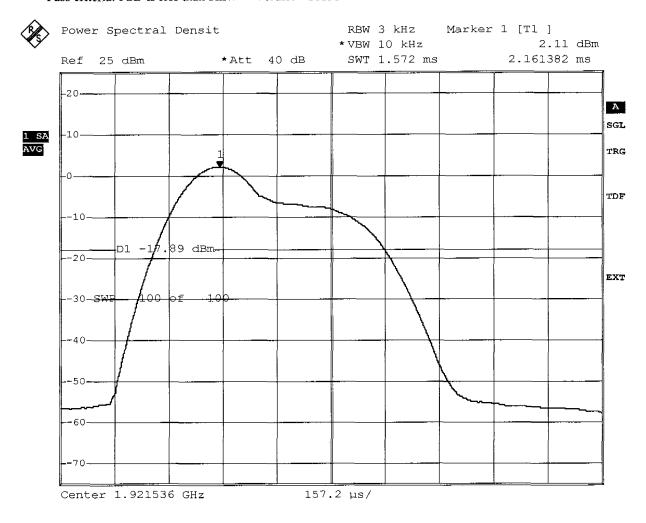
Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.5 Power spectral density

Peak Frequency in MHz
Total pulse energy in mW
Wideband pulse duration in ms
PSD in mW
PSD in dBm
1921,536000 MHz
0,000303 mW
0,393000 ms
0,7713 mW
-1,1279 dBm

Pass criteria: PSD is less than 3mW Verdict = PASS



Comment: Ansi C63.17-2006 6.1.5 Date: 27.NOV.2006 10:34:21



Testprocedure ANSI 63.17-2006 6.1.5 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde

Test Specification

6.1.5 Power spectral density

Peak Frequency in MHz Total pulse energy in mW 1928,448000 MHz

Wideband pulse duration in ms 0,393000 ms

0,000218 mW

PSD in mW

0,5551 mW

PSD in dBm

-2,5567 dBm

Pass criteria: PSD is less than 3mW Verdict = PASS



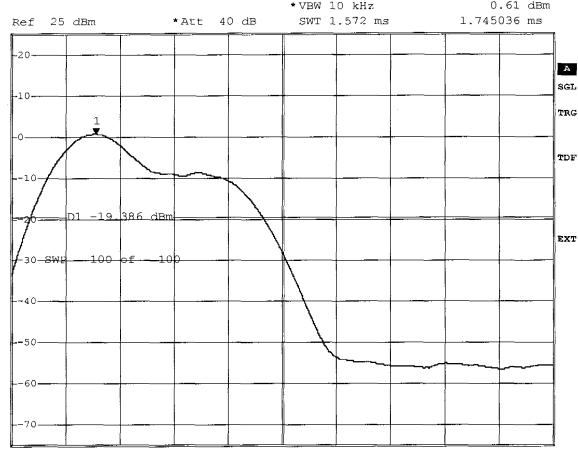
Power Spectral Densit

RBW 3 kHz

Marker 1 [T1]

0.61 dBm





Center 1.928448 GHz

 $157.2 \mu s/$

Comment: Ansi C63.17-2006 6.1.5 Date: 27.NOV.2006 10:23:04



Testprocedure ANSI 63.17-2006 6.1.5 UPCS

EUT

3 IP DECT Basestation models

Model

AP200 NA / AP200S NA / AP200E NA

Applicant

NEC Philips Unified Solutions

Temperature

23°C

Test Site / Operator

ETS Reichenwalde

Test Specification

6.1.5 Power spectral density

Peak Frequency in MHz Total pulse energy in mW 1921,542000 MHz 0,000204 mW

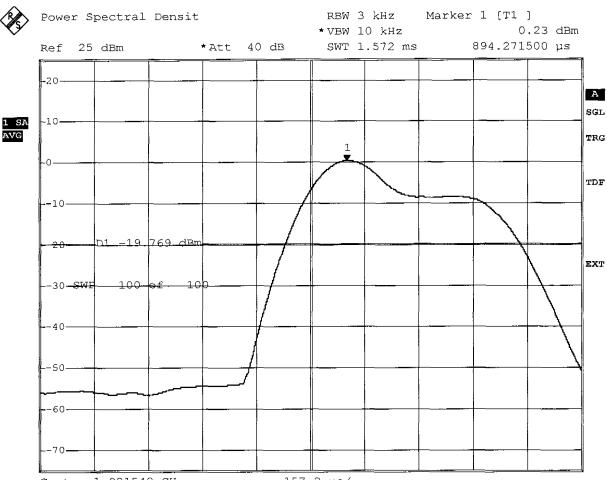
Wideband pulse duration in ms 0,393000 ms PSD in mW

0,5199 mW

PSD in dBm

-2,8410 dBm

Pass criteria: PSD is less than 3mW Verdict = PASS



Center 1.921542 GHz

157.2 µs/

Comment: Ansi C63.17-2006 6.1.5 29.NOV.2006 08:32:17 Date:



Testprocedure ANSI 63.17-2006 6.1.5 UPCS

EUT 3 IP DECT Basestation models

Model AP200 NA / AP200S NA / AP200E NA

Applicant NEC Philips Unified Solutions

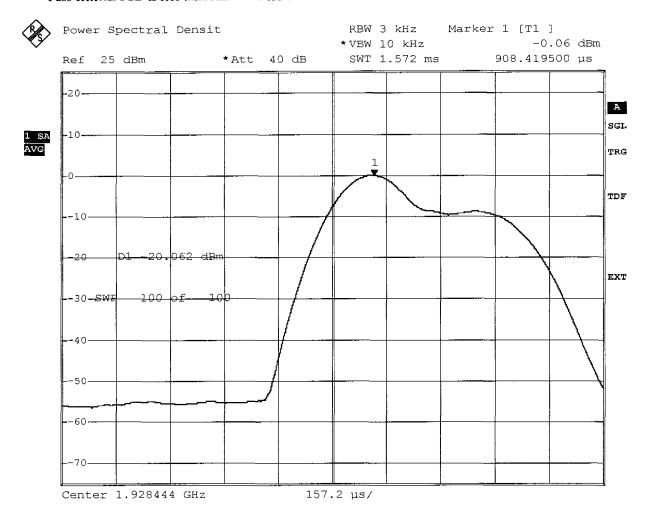
Temperature 23°C

Test Site / Operator ETS Reichenwalde

Test Specification 6.1.5 Power spectral density

Peak Frequency in MHz
Total pulse energy in mW
Wideband pulse duration in ms
PSD in mW
PSD in dBm
1928,444000 MHz
0,000187 mW
0,393000 ms
0,4760 mW
-3,2241 dBm

Pass criteria: PSD is less than 3mW Verdict = PASS



Comment: Ansi C63.17-2006 6.1.5 Date: 29.NOV.2006 09:00:12



Appendix H

Directional gain of the antenna



Appendix I

Radio frequency radiation exposure

Peak Transmit Power, Radiated

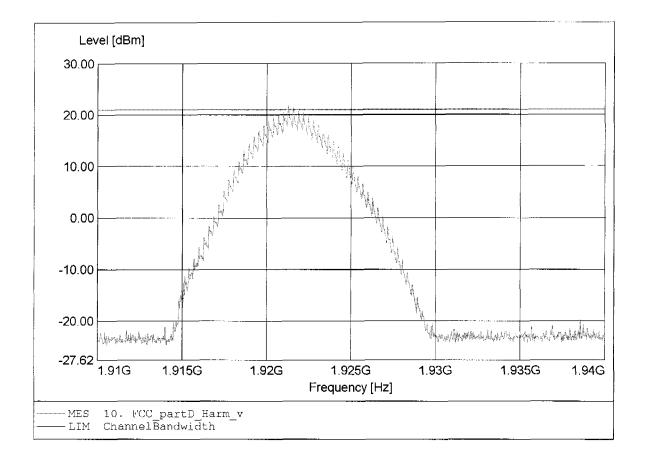
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 4 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor) Test Specification: Fully anechoic chamber / mode: Tx Comment 1: Dist.: 3m, Ant.: HL 025,

Freq:1.921GHz Pmax:21.62dBm RBW: 5 MHz Comment 2:



FCC RULES PART 15, SUBPART D

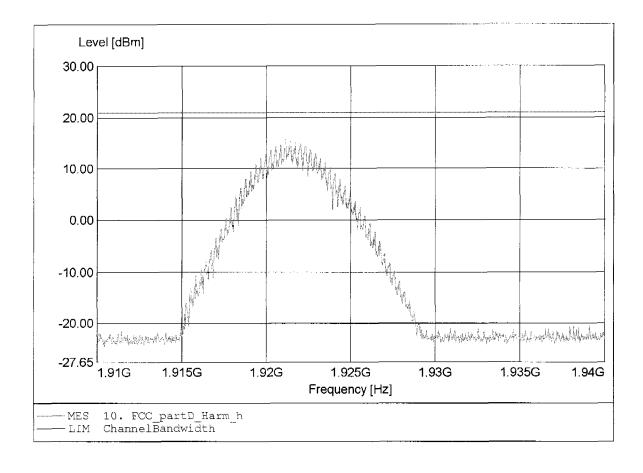
NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 4 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor) Test Specification: Fully anechoic chamber / mode: Tx

Comment 1: Dist.: 3m, Ant.: HL 025,

Comment 2: Freq:1.921GHz Pmax:15.79dBm RBW: 5 MHz

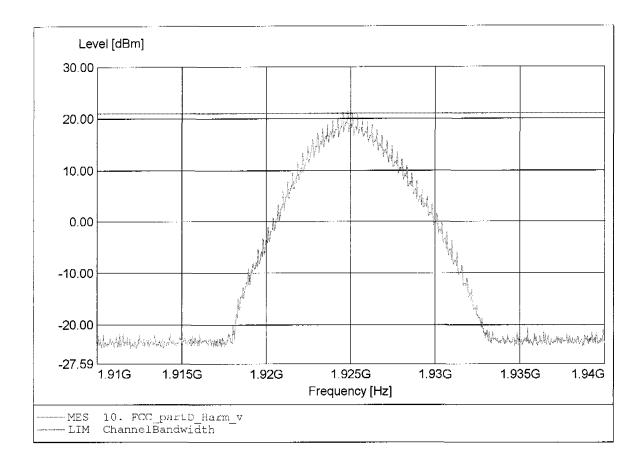


FCC RULES PART 15, SUBPART D

Approval Holder: NEC Philips Unified Solutions

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 2 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.925GHz Pmax:21.45dBm RBW: 5 MHz



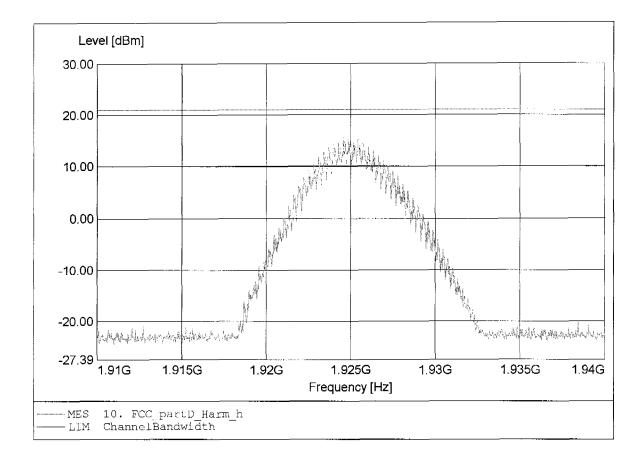
FCC RULES PART 15, SUBPART D

Approval Holder: NEC Philips Unified Solutions

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 2 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Freq: 1 925CHz Pmay: 15 77dBm PRW: 5

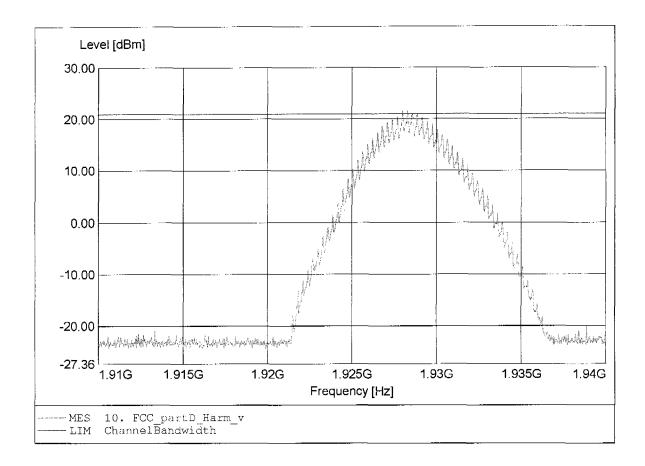
Freq:1.925GHz Pmax:15.77dBm RBW: 5 MHz Comment 2:



FCC RULES PART 15, SUBPART D

Approval Holder: NEC Philips Unified Solutions
EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 0
Model : AP200 NA/AP200S NA / AP200F NA /

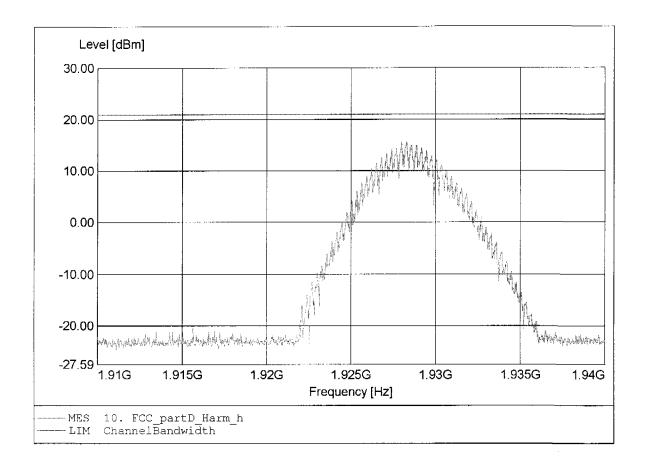
Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:21.71dBm RBW: 5 MHz



FCC RULES PART 15, SUBPART D

Approval Holder: NEC Philips Unified Solutions
EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 0
Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:15.73dBm RBW: 5 MHz



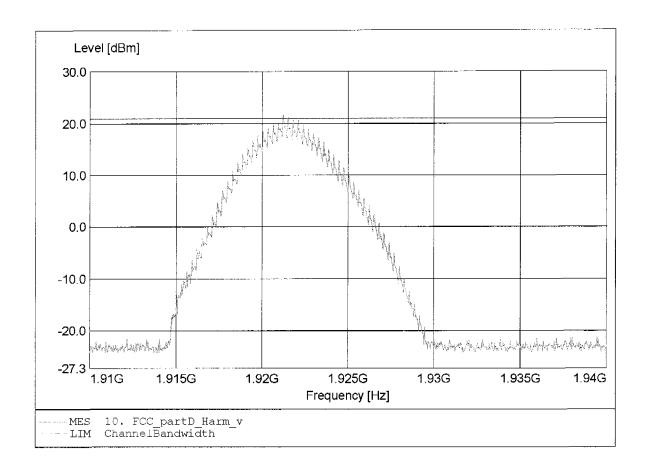
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 4 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Freq: 1 921CHz Pmay: 21 64dBm RRW: 5

Freq:1.921GHz Pmax:21.64dBm RBW: 5 MHz Comment 2:



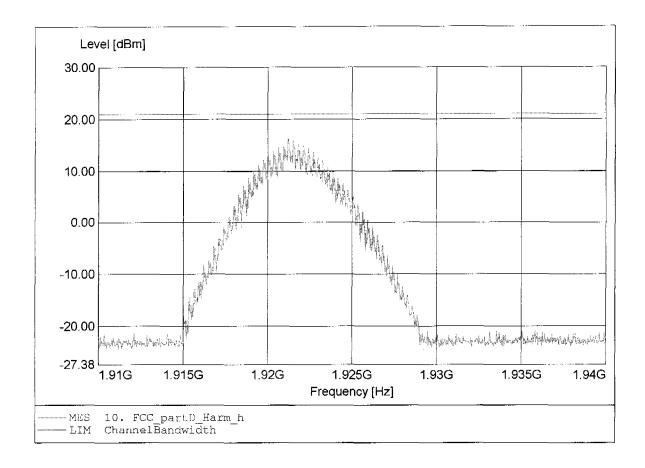
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 4 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,

Freq:1.921GHz Pmax:16.14dBm RBW: 5 MHz Comment 2:



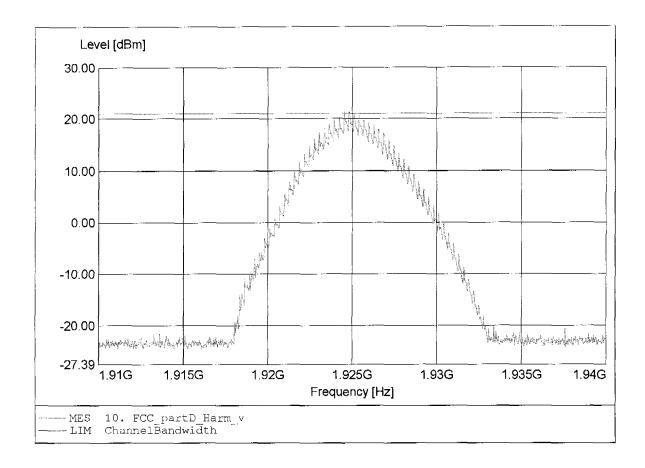
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 2 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx Test Conditions.
Test Specification: Fully anechoic Chambel,
Dist.: 3m, Ant.: HL 025,

Freq:1.925GHz Pmax:21.40dBm RBW: 5 MHz Comment 2:



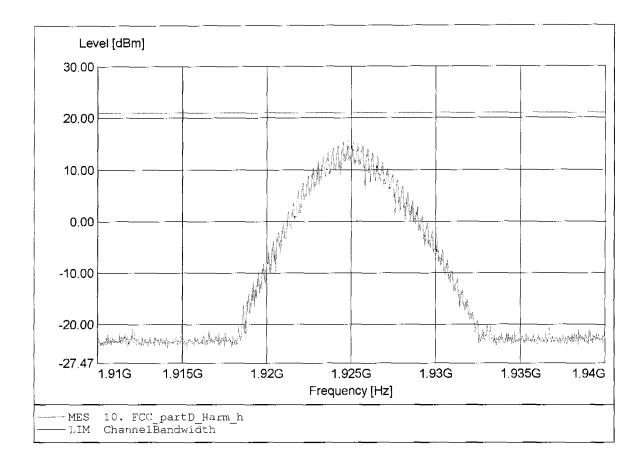
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 2 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,

Freq:1.925GHz Pmax:15.74dBm RBW: 5 MHz Comment 2:

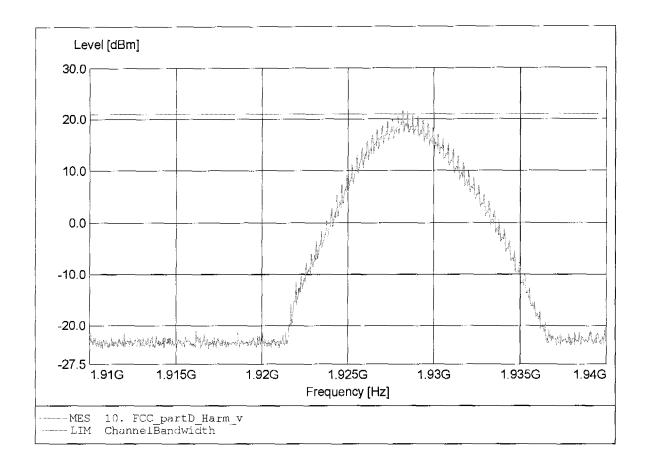


FCC RULES PART 15, SUBPART D

Approval Holder: NEC Philips Unified Solutions
EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 0
Model : AP200 NA/AP200S NA / AP200F NT /

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor) Test Specification: Fully anechoic chamber / mode: Tx Comment 1: Dist.: 3m, Ant.: HL 025,

Freq:1.928GHz Pmax:21.63dBm RBW: 5 MHz Comment 2:

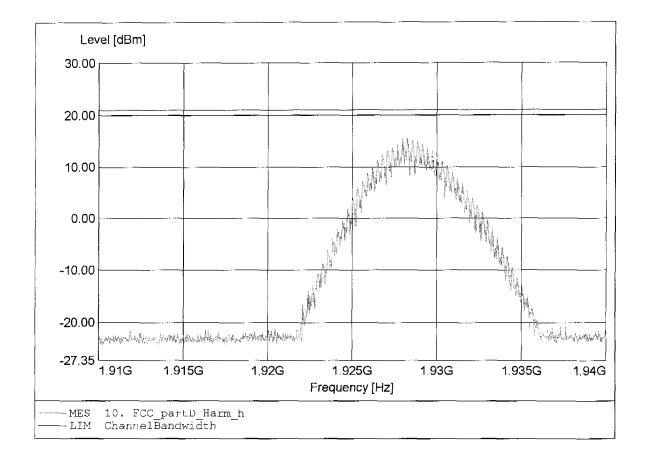


FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 0 Model : AP200 NA/AP200S NA / AP200E NA / module 0

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:15.56dBm RBW: 5 MHz



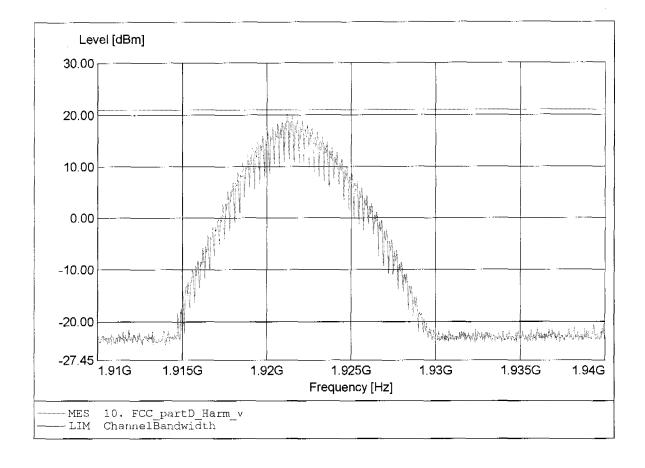
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 4 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,

Dist.: 3m, Ant.: nb 023, Freq:1.921GHz Pmax:20.19dBm RBW: 5 MHz Comment 2:



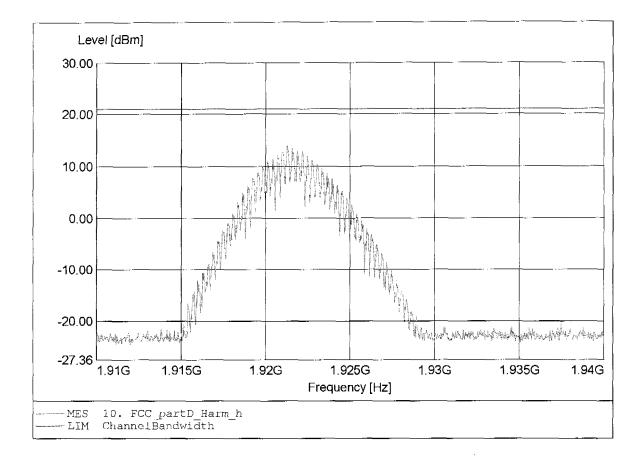
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 4 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor) Test Specification: Fully anechoic chamber / mode: Tx Comment 1: Dist.: 3m, Ant.: HL 025,

Dist.: 3m, Ant.: nL 023, Freq:1.921GHz Pmax:13.96dBm RBW: 5 MHz Comment 2:



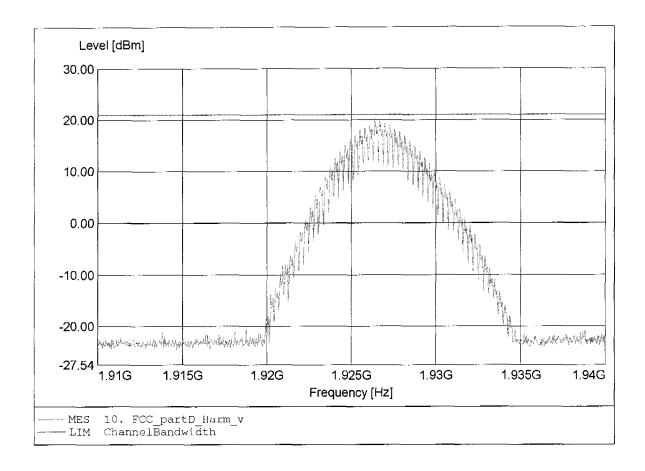
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 2 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor) Test Specification: Fully anechoic chamber / mode: Tx Comment 1: Dist.: 3m, Ant.: HL 025,

Dist.: 3m, Ant.: nb 023, Freq:1.926GHz Pmax:20.21dBm RBW: 5 MHz Comment 2:

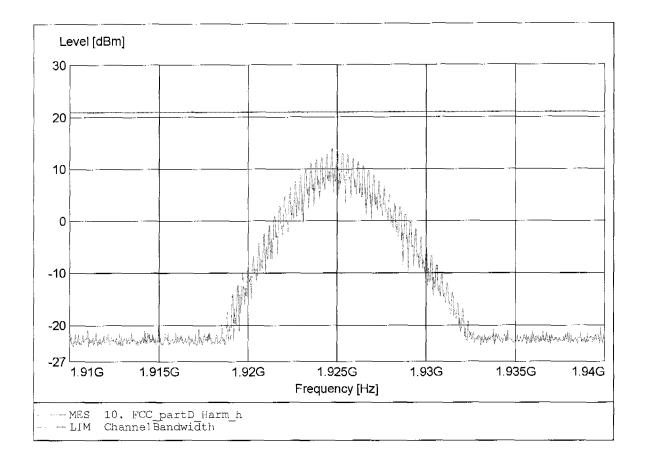


FCC RULES PART 15, SUBPART D

Approval Holder: NEC Philips Unified Solutions

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 2 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.925GHz Pmax:13.94dBm RBW: 5 MHz



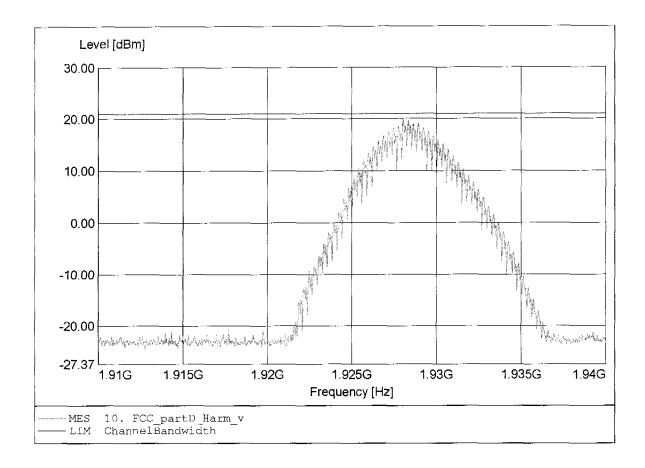
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 0 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,

Freq:1.928GHz Pmax:19.93dBm RBW: 5 MHz Comment 2:



FCC RULES PART 15, SUBPART D

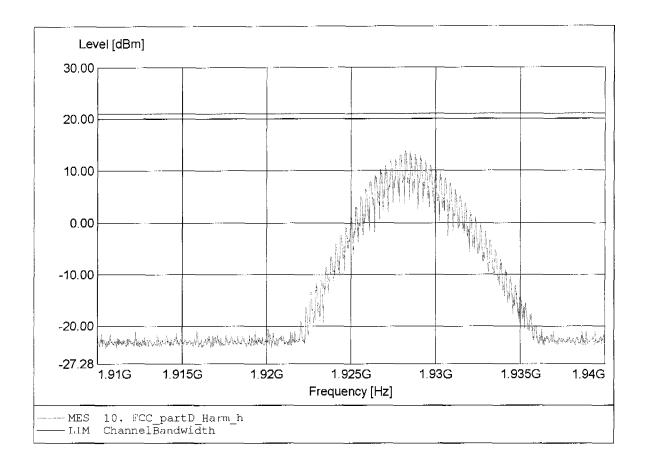
Approval Holder: NEC Philips Unified Solutions

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 0 / Ch.: 0 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor) Test Condition:
Test Specification:

Fully anechoic Chamber,
Dist.: 3m, Ant.: HL 025, Fully anechoic chamber / mode: Tx

Freq:1.928GHz Pmax:13.85dBm RBW: 5 MHz Comment 2:



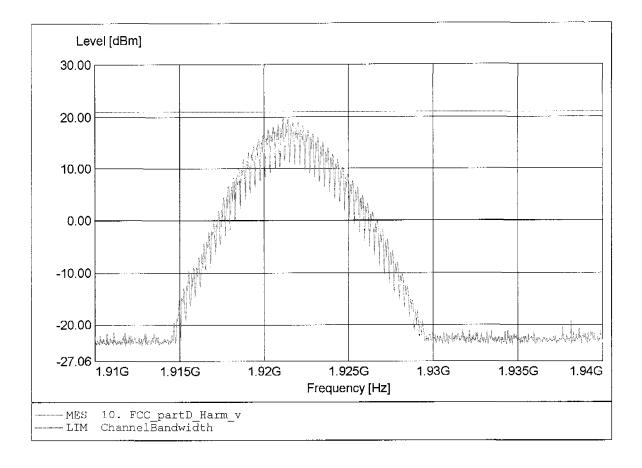
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 4 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor) Test Specification: Fully anechoic chamber / mode: Tx Comment 1: Dist.: 3m, Ant.: HL 025,

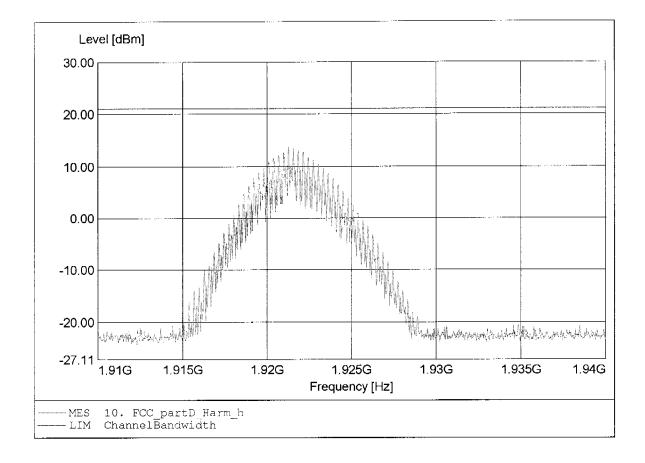
Freq:1.921GHz Pmax:19.76dBm RBW: 5 MHz Comment 2:



FCC RULES PART 15, SUBPART D

Approval Holder: NEC Philips Unified Solutions
EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 4
Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.921GHz Pmax:13.81dBm RBW: 5 MHz



FCC RULES PART 15, SUBPART D

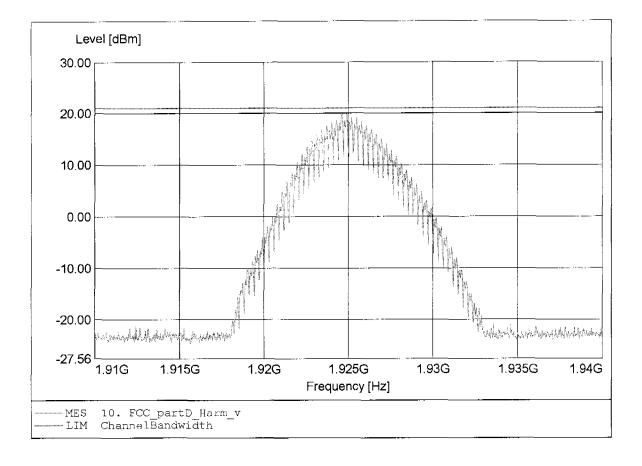
NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 2 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor) Test Specification: Fully anechoic chamber / mode: Tx

Dist.: 3m, Ant.: HL 025, Comment 1:

Freq:1.925GHz Pmax:19.95dBm RBW: 5 MHz Comment 2:



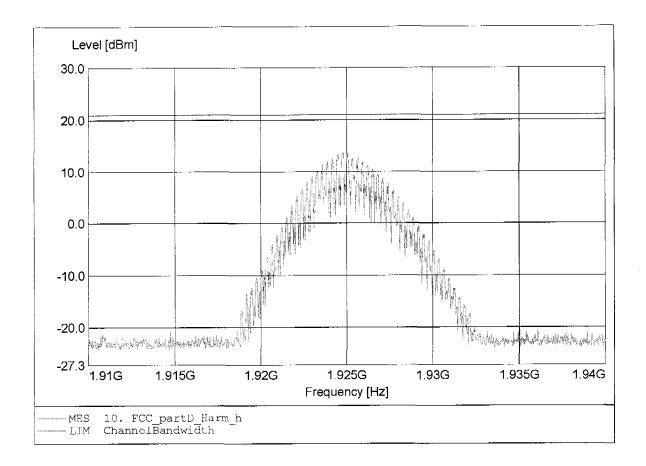
FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 2 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Frag: 1 925CHz Dmay: 13 81dRm DRW: 5

Freq:1.925GHz Pmax:13.81dBm RBW: 5 MHz Comment 2:



FCC RULES PART 15, SUBPART D

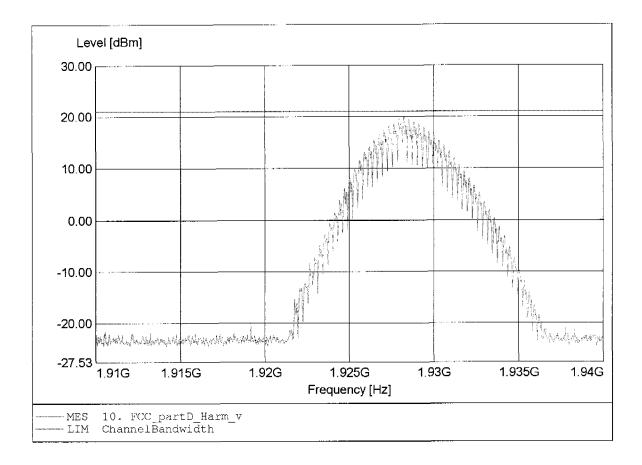
NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 0 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx

Dist.: 3m, Ant.: HL 025, Comment 1:

Dist.: 3m, Ant.: nn 023, Freq:1.928GHz Pmax:19.96dBm RBW: 5 MHz Comment 2:

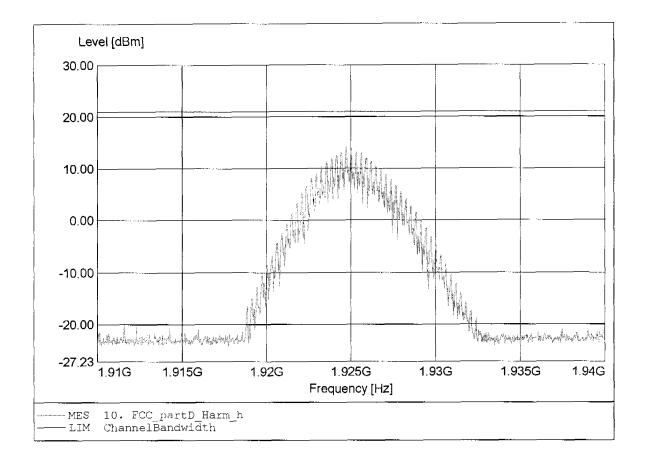


FCC RULES PART 15, SUBPART D

NEC Philips Unified Solutions Approval Holder:

EUT / ant. / Ch.: 3 IP DECT Basestation models / Ant. 1 / Ch.: 0 Model : AP200 NA/AP200S NA / AP200E NA / module 1

Test Site / Operator: ETS / Mr. Meng
Test Conditions: 25°C / 120 VAC (AC/DC-adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.925GHz Pmax:14.17dBm RBW: 5 MHz





Appendix J

Monitoring threshold



Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml

Date 28.11.2006 10:29:10

Reference to the EUT G0M20611-1021 / AP200 NA / AP200S NA / AP200E NA

Comment: 7.3.3_b

3 IP DECT Base station models NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm					
	RMS in dBm					
00:57:10.1875000	-85,3	-86,1	-86,4	-86,2	-87,1	Interferer off
	-95,8	-95,8	-95,9	-95,8	-95,6	
00:57:17.2968750	-60,3	-60,1	-60,3	-71,1	-76,3	Interferer on
	-60,9	-60,9	-60,9	-72,4	-79,2	
00:58:37.7500000	-59,2	-58,8	-58,3	-46,6	-21,9	OK1
00.38.37.7300000	-60,8	-60,9	-60,9	-67	-41,8	
01.02.05.2750000				-71,3	-76,8	
01:03:05.3750000	-60,5 -60,9	-60,5 -61	-60,7 -61,2	-71,3 -72,7	-70,8 -79,5	
01:04:33.4687500	-59,5	-58,8	-49,7	-50,6	-21,7	OK 2
	-60,9	-60,9	-60,8	-74	-46,2	
01:04:39.6406250	-60,5	-60,5	-60,7	-71,3	-77	
	-60,9	-61	-61,2	-72,7	-79,6	
01:06:16.5781250	-60,2	-59,9	-59,3	-48,5	-21,4	OK 3
	-60,9	-60,9	-60,9	-70	-45,3	
01:06:23.8750000	-60,5	-60,6	-60,7	-71,2	-76,8	
01.00.23.6730000	-60,9	-61	-61,2	-72,8	-79,5	
01.07.27.6406250					-21,7	OK 4
01:07:37.6406250	-60,1 -60,9	-58,9 -60,9	-49,8 -60,8	-50,9 -74,4	-45,5	OK 4
01:03:05.3750000	-60,5	-60,5	-60,7	-71,3	-76,8	
	-60,9	-61	-61,2	-72,7	-79,5	
01:04:33.4687500	-59,4	-58,8	-49,4	-50,6	-21,5	OK 5
	-60,9	-607	-60,8	-75	-46,2	



Test case

 $Rev.\ Draft\ ANSI_7.3.3_least_interfered_channel.xml$

Date 28.11.2006 10:47:28

Reference to the EUT

G0M20611-1021 / AP200 NA / AP200S NA / AP200E NA

Comment:

7.3.3_c

3 IP DECT Basesation models NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	Peak in dBm	
	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	RMS in dBm	
01:13:29.8750000	-87,6	-86,6	-86,3	-86,8	-86,6	Interferer on
	-96	-95,5	-95,5	-95,7	-95,5	
01:13:36.5000000	-60,5	-60,6	-60,8	-76,9	-71	Interferer on
	-60,9	-61 [°]	-61,2	-79,6	-72,7	
01:15:14.5625000	-59,7	-59,1	-48,5	-21,8	-50,1	OK 1
	-60,9	-60,9	-60,7	-45,9	-70,8	
01:15:22.6406250	-60,5	-60,6	-60,8	-76,6	-71,4	
01.19.22.0100250	-60,9	-61	-61,2	-79,7	-72,7	
01:16:58.7187500	-59,7	-59,6	-50,8	-21,7	-51,3	OK 2
	-60,9	-60,9	-60,8	-45,6	-70,9	
01:17:39.8437500	-60,5	-60,5	-60,8	-76,9	-71,2	
	-60,9	-61	-61,2	-79,6	-72,7	
01:21:11.3437500	-59,7	-59,6	-46,7	-21,3	-49,8	OK 3
	-60,9	-60,9	-60,7	-45,5	-70,8	
01:21:24.8125000	-60,4	-60,6	-60,7	-76,7	-71,4	
	-60,9	-61	-61,2	-79,6	-72,7	
01:23:01.1406250	-59,8	-60	-49,5	-22,3	-50,9	OK 4
	-60,9	-60,9	-60,8	-46	-70,9	
01:23:19.9531250	-60,4	-60,5	-60,6	-76,7	-70,9	
	-60,8	-60,9	-61	-79,4	-72,4	
01:24:42.0312500	-59,4	-57,8	-48,6	-21,8	-49,1	OK 5
	-60,9	-60,9	-60,4	-41,7	-68,5	



Test case

 $Rev.\ Draft\ ANSI_7.3.3_least_interfered_channel.xml$

Date 28.11.2006 11:02:37

Reference to the EUT

G0M20611-1021 / AP200 NA / AP200S NA / AP200E NA

Comment:

7.3.3_d

3 IP DECT Base station models NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm	ļ				
	RMS in dBm					
01:29:33.9843750	-86,4	-86	-85,5	-86,9	-87,2	Interferer on
	-95,7	-95 <u>,6</u>	-95,7	-95,7	-95,9	
01:29:46.5937500	-60,4	-60,6	-60,7	-76	-80,4	Interferer off
0.1,231.0.030,74.0	-60,9 _	-61	-61,2	78,7	-85,4	
01:32:29.9062500	-59,5	-59,7	-58,7	-47,4	-21,8	OK 1
01.32.29.9002300	-60,9	-60,9	-60,9	-71,2	-45,3	
01:32:38.7187500	-60,5	-60,6	-60,8	-76	-80,1	
01:32:38.7187300	-60,9	-61	-61,2	-78,7	-85,3	
	<u> </u>				·	
01:33:48.0625000	-60,1	-59,9	-58,9	-48,4 72.1	≠21,4 −45,8	OK 2
	-60,9	-60,9	-61	-72,1	-42,6	
01:34:03.0781250	-60,5	-60,6	-60,7	-75,8	-80,5	[
	-60,9	-61	-61,2	-78,6	-85,4	
01:38:36.9531250	-60	-59,5	-60,1	-48,2	-21.4	OK 3
	-60,9	-60,9	-61	-72,3	-45,9	
01:38:47.2187500	-60,4	-60,6	-60,7	-75,7	-80,4	
0.12011,1210,000	-60,9	-61	-61,2	-78,7	-85,3	
01:39:50.3281250	-59,7	-60	-59,5	-48,1	-21,4	OK 4
01.55.50.5281250	-60,9	-60,9	-61	-71, <u>9</u>	-45,4	
01 40 05 6350000		-60,5	-60,6	-76,2	-79,9	
01:40:05.6250000	-60,4 -60,9	-60,5 -60,9	-60,6	-78,4	-85,2	
01:41:08.3437500	-60,3	-60	-60	-47,7	-21,6	OK 5
	-60,9	60,9	-61	-71,9	-45,4	



Test case

 $Rev.\ Draft\ ANSI_7.3.2_upper_threshold.xml$

Date 28.11.2006 10:01:59

Reference to the EUT

G0M20611-1021 / AP200 NA / AP200S NA / AP200E NA

Comment:

initial setup

3 IP DECT Base station models NEC Philips Unified Solutions

The LOG table shows the level changes on each Channel of the transmission system

Time stamp	1921.536 MHZ	1923.264 MHz	1924.992 MHz	1926.720 MHz	1928.448 MHz	Comment
	Peak in dBm RMS in dBm					
00:31:33.8125000	-49,9 -50,3	-49,9 -50,3	-49,9 -50,3	-50,2 -50,6	-49,9 -50,3	-50 dBm
00:31:52	-50,9 -51,3	-50,9 -51,3	-50,9 -51,4	-51,2 -51,6	-50,9 -51,3	-51 dBm
00:32:03.1250000	-51,9 -52,3	-51,8 -52,3	-52 -52,4	-52,2 -52,6	-51,8 -52,3	-52 dBm
00:32:13.6875000	-52,9 -53,3	-52,8 -53,3	-52,9 -53,4	-53,2 -53,6	-52,9 -53,3	-53 dBm
00:32:24.0937500	-53,8 -54,3	-53,8 -54,3	-53,9 -54,4	-54,2 -54,6	-53,8 -54,3	-54 dBm
00:32:36.0468750	-54,7 -55,2	-54,7 -55,2	-54,9 -55,3	-55,1 -55,6	-54,8 -55,2	-55 dBm
00:32:45.7187500	-55,7 -56,2	-55,7 -56,2	-55,7 -56,4	-55,7 -56,3	-55,7 -56,2	-56 dBm
00:32:55.7343750	-56,7 -57,2	-56,7 -57,2	-56,7 -57,3	-56,8 -57,3	-56,8 -57,2	-57 dBm
00:33:06.1250000	-57,7 -58,2	-57,7 -58,2	-57,6 -58,2	-57,7 -58,3	-57,8 -58,2	-58 dBm
00:33:17.2031250	-58,6 -59,2	-58,6 -59,2	-58,6 -59,2	-58,7 -59,3	-58,7 -59,2	-59 dBm
00:33:33.8593750	-59,6 -60,3	-59,7 -60,2	-59,8 -60,3	-59,8 -60,3	-59,7 -60,2	-60 dBm
00:33:43.4375000	-60,6 -61,2	-60,6 -61,2	-60,7 -61,3	-60,8 -61,3	-60,6 -61,2	-61 dBm
00:33:54.1250000	-61,7 -62,2	-61,4 -62,2	-61,7 -62,4	-61,6 -62,3	-61,6 -62,2	-62 dBm
00:34:04.0781250	-62,6 -63,2	-62,5 -63,2	-62,7 -63,3	-62,6 -63,3	-62,5 -63,2	-63 dBm
00:34:14.7656250	-63,5 -64,2	-63,6 -64,2	-63,6 -64,3	-63,5 -64,3	-63,5 -64,2	-64 dBm
00:34:29.9843750	-64,4 -65,2	-64,4 -65,2	-64,5 -65,3	-64,6 -65,3	-64,5 -65,3	-65 dBm

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erent oberetarente, come	in the second se		7.500 Market			RODUCT SERVICE
00:34:42.5937500	-65,4	-65,5	-65,6	-65,6	-65,5	-66 dBm
	-66,2	-66,2	-66,3	-66,4	-66,3	<u></u>
00:34:54.2187500	-66,3	-66,3	-66,4	-66,5	-66,3	-67 dBm
	-67,2	-67,2	-67,2	-67,4	-67,2	<u> </u>
00:35:10.3281250	-67,2	-67,2	-67,3	-67,1	-67,4	-68 dBm
	-68,2	-68,1	-68,2	-68,4	-68,3	<u> </u>
00:35:20.5000000	-68	-67,9	-68,3	-68,3	-68,2	-69 dBm
	-69,2	-69,1	-69,2	-69,4	-69,2	
00:35:30.3593750	-69,1	-69,1	-69,1	-69	-69,3	-70 dBm
	-70,2	-70,2	-70,3	-70,4	-70,3	
00:35:40.9843750	-70,1	-70	-70	-70,1	-69,8	-71 dBm
	-71,2	-71,2	-71,3	-71,4	-71,3	
00:35:58.2656250	-68,5	-68,2	-66,2	-48	-21,4	-72 dBm
	72,2	-72,2	-72,4	-69,8	-45,1	

Log file