

Appendix B

Coordination with fixed microwave service

UTAM, Inc.

SECTION 15.307(b) AFFIDAVIT

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

GN NETCOM A/S

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 13TH day of December 2005.



Michael Stima, Managing Director
UTAM, Inc.
1170 U.S. Hwy 22
P.O. Box 8126
Bridgewater, New Jersey 08807
Tel: (508) 526-3636

Affidavit #: GNNT121305

Appendix C

Reference to Subpart B

Appendix D

Labeling requirements

Appendix E

Conducted limits AC Power line

Appendix F

Emission band width

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.43MHz
Max. Permitted BW	Limit = 2.5 MHz

Test result	Verdict = PASS
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Emission Bandwidth

*RBW 10 kHz Delta 2 [T1]

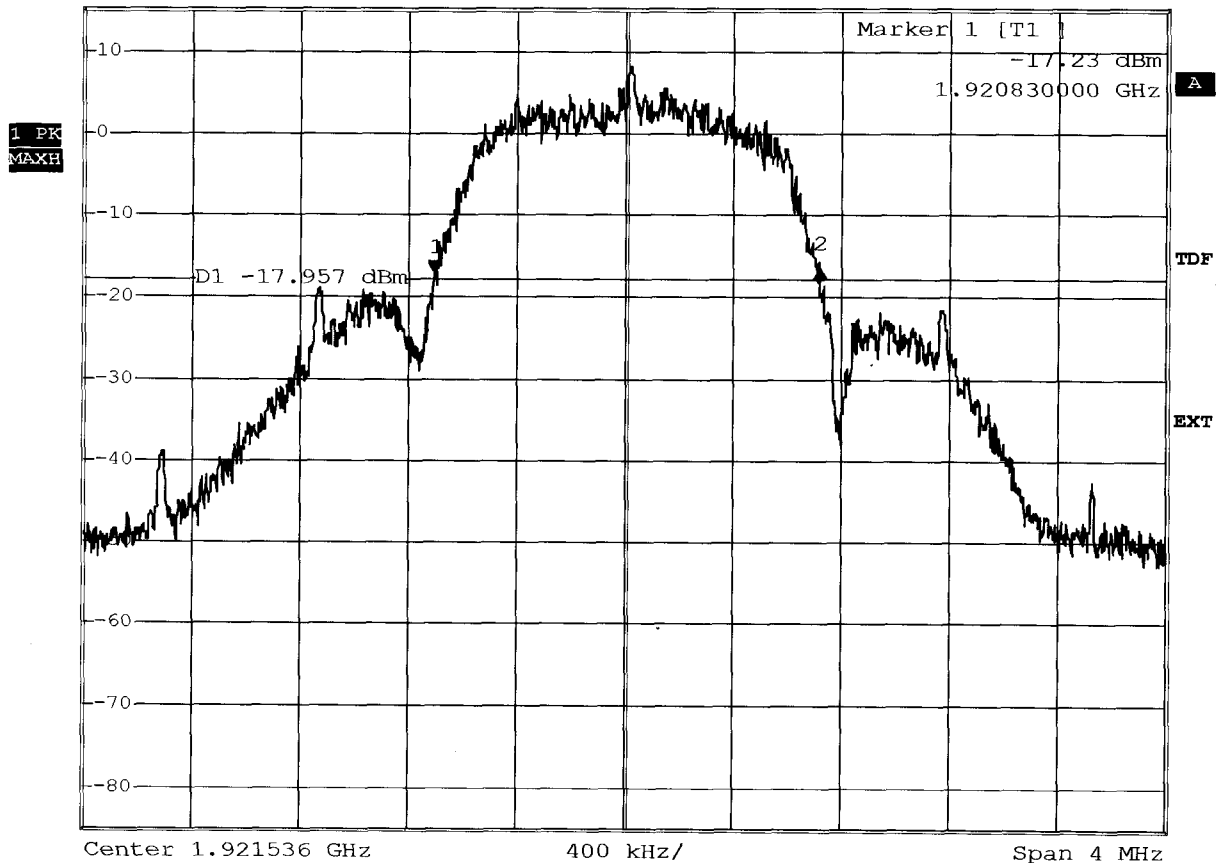
*VBW 30 kHz 0.58 dB

Ref 15 dBm

*Att 30 dB

SWT 40 ms

1.426000000 MHz



Comment: Ansi C63.17-1998 6.1.3

Date: 24.SEP.2005 13:06:05

Measurement diagram

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

-6 dB points

Lower frequency : 1921.13MHz
Higher frequency : 1921.938MHz

-12 dB points

Lower frequency : 1920.97MHz
Higher frequency : 1922.148MHz

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.41MHz
Max. Permitted BW	Limit = 2.5 MHz

Test result	Verdict = PASS
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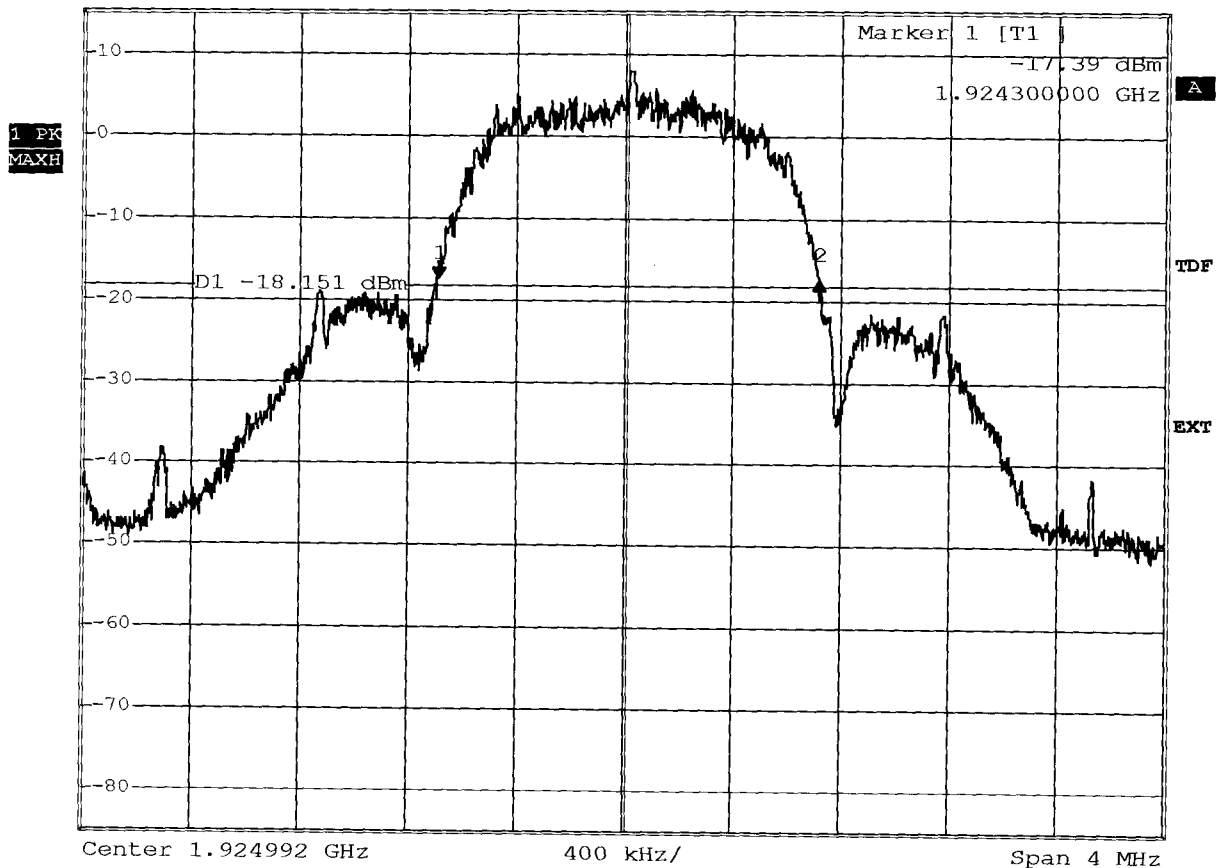


Emission Bandwidth

*RBW 10 kHz	Delta 2 [T1]
*VBW 30 kHz	0.04 dB
SWT 40 ms	1.410000000 MHz

Ref 15 dBm

*Att 30 dB



Comment: Ansi C63.17-1998 6.1.3

Date: 24.SEP.2005 13:11:29

Measurement diagram

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

-6 dB points

Lower frequency : 1924.51MHz
Higher frequency : 1925.41MHz

-12 dB points

Lower frequency : 1924.404MHz
Higher frequency : 1925.604MHz

Measurement diagram

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.41MHz
Max. Permitted BW	Limit = 2.5 MHz

Test result	Verdict = PASS
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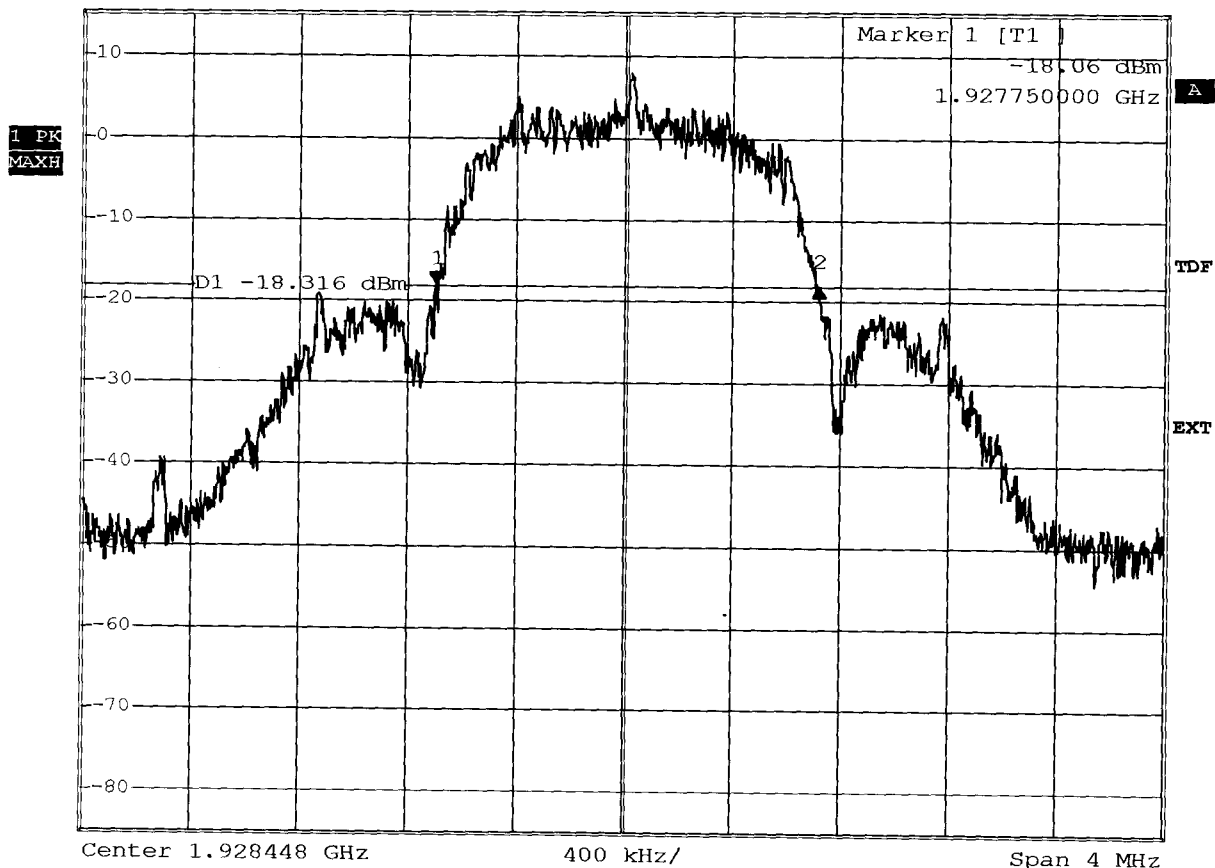


Emission Bandwidth

*RBW 10 kHz	Delta 2 [T1]
*VBW 30 kHz	-0.06 dB
SWT 40 ms	1.414000000 MHz

Ref 15 dBm

*Att 30 dB



Comment: Ansi C63.17-1998 6.1.3
Date: 24.SEP.2005 13:12:55

Measurement diagram

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

-6 dB points

Lower frequency : 1928.022MHz
Higher frequency : 1928.828MHz

-12 dB points

Lower frequency : 1927.86MHz
Higher frequency : 1929.06MHz

Measurement diagram

Appendix G

Peak Transmit Power

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2

UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Unom 3.6V
Measured Bandwidth	1.426MHz
Max. Permitted Power	20,77 dBm
Measured Power	15,77 dBm
Test result	Verdict = PASS



Peak transmit power

RBW 3 MHz

Marker 1 [T1]

*VBW 10 MHz

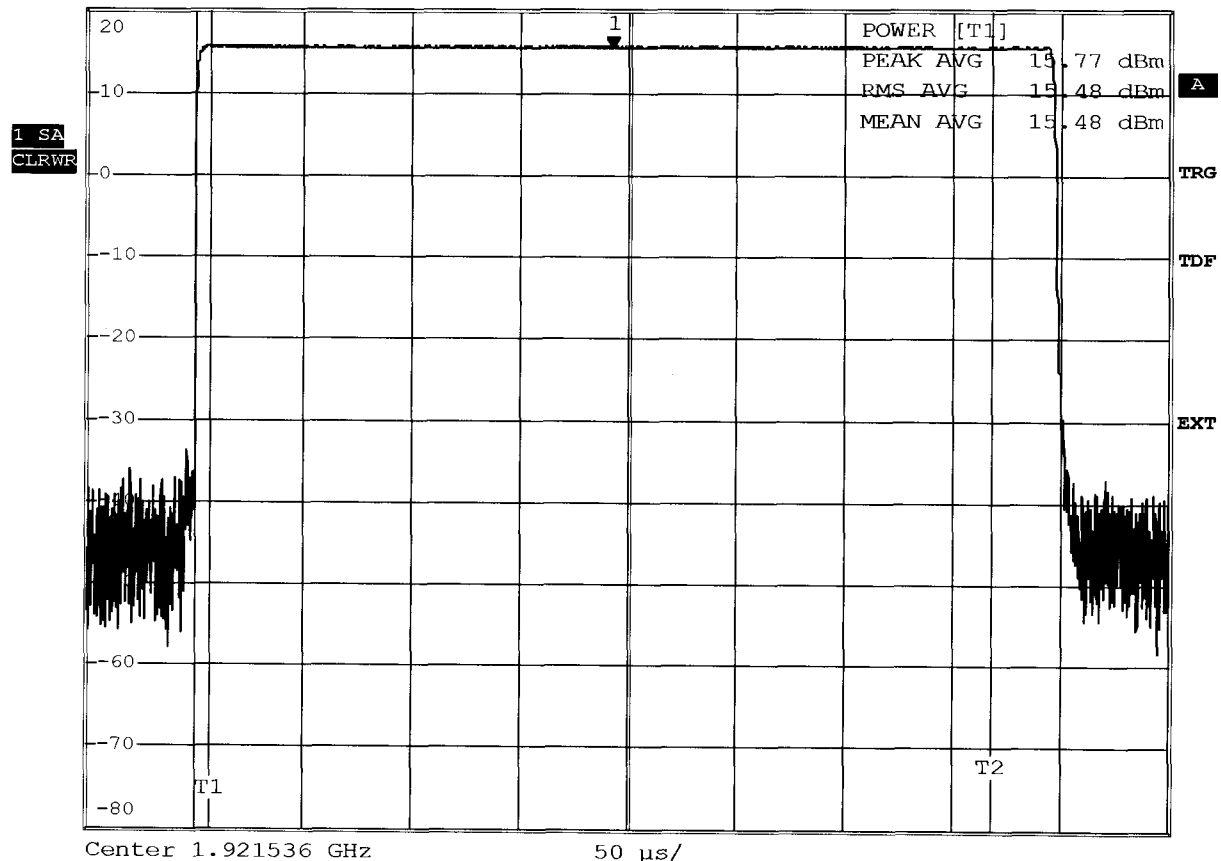
15.40 dBm

Ref 20 dBm

*Att 30 dB

SWT 500 µs

193.250000 µs



Comment: Ansi C63.17-1998 6.1.2

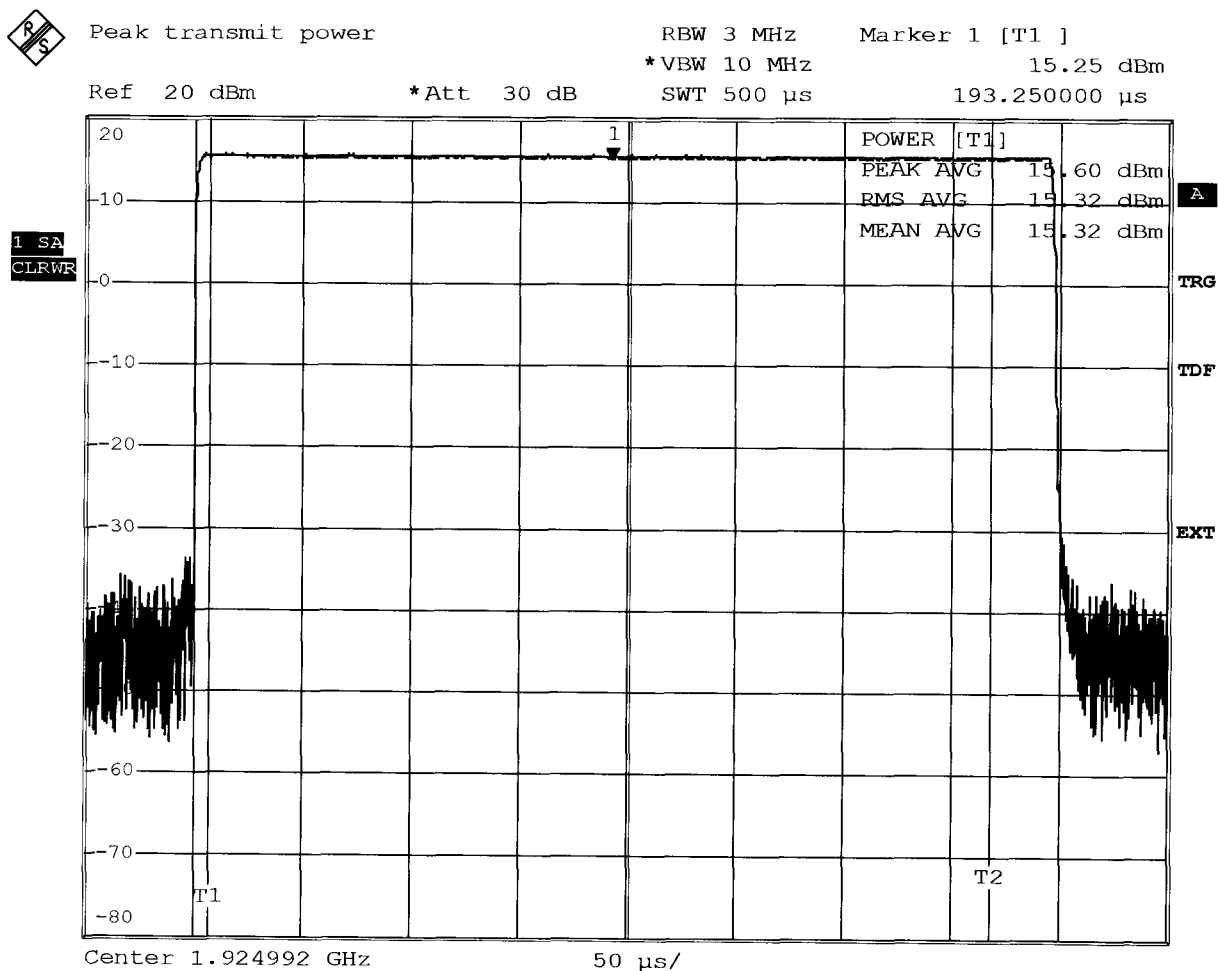
Date: 24.SEP.2005 13:22:16

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Unom 3.6V
Measured Bandwidth	1.426MHz
Max. Permitted Power	20,77 dBm
Measured Power	15,60 dBm
Test result	Verdict = PASS



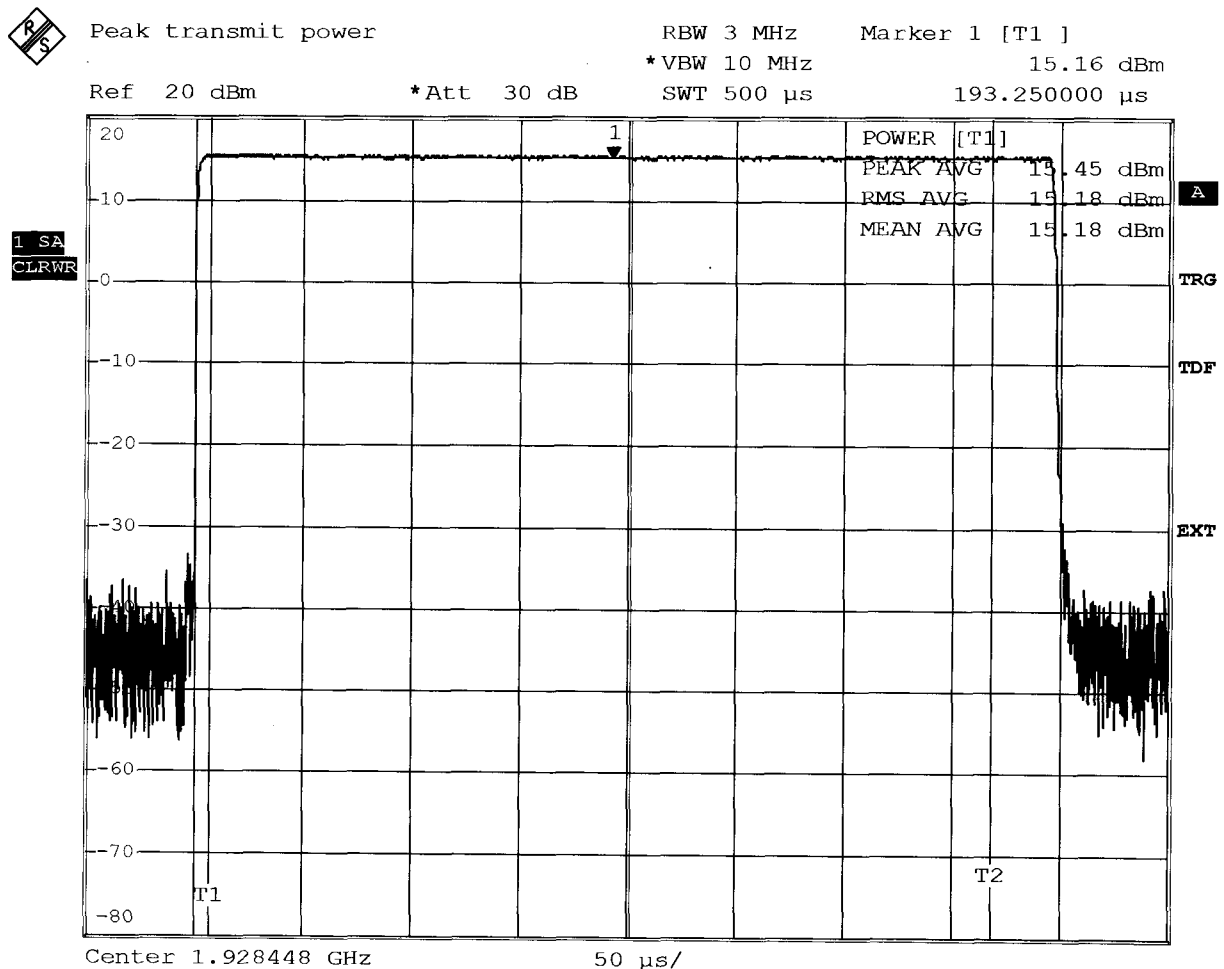
Comment: Ansi C63.17-1998 6.1.2
Date: 24.SEP.2005 13:18:44

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Unom 3.6V
Measured Bandwidth	1.426MHz
Max. Permitted Power	20,77 dBm
Measured Power	15,45 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2
Date: 24.SEP.2005 13:16:04

Measurement diagram

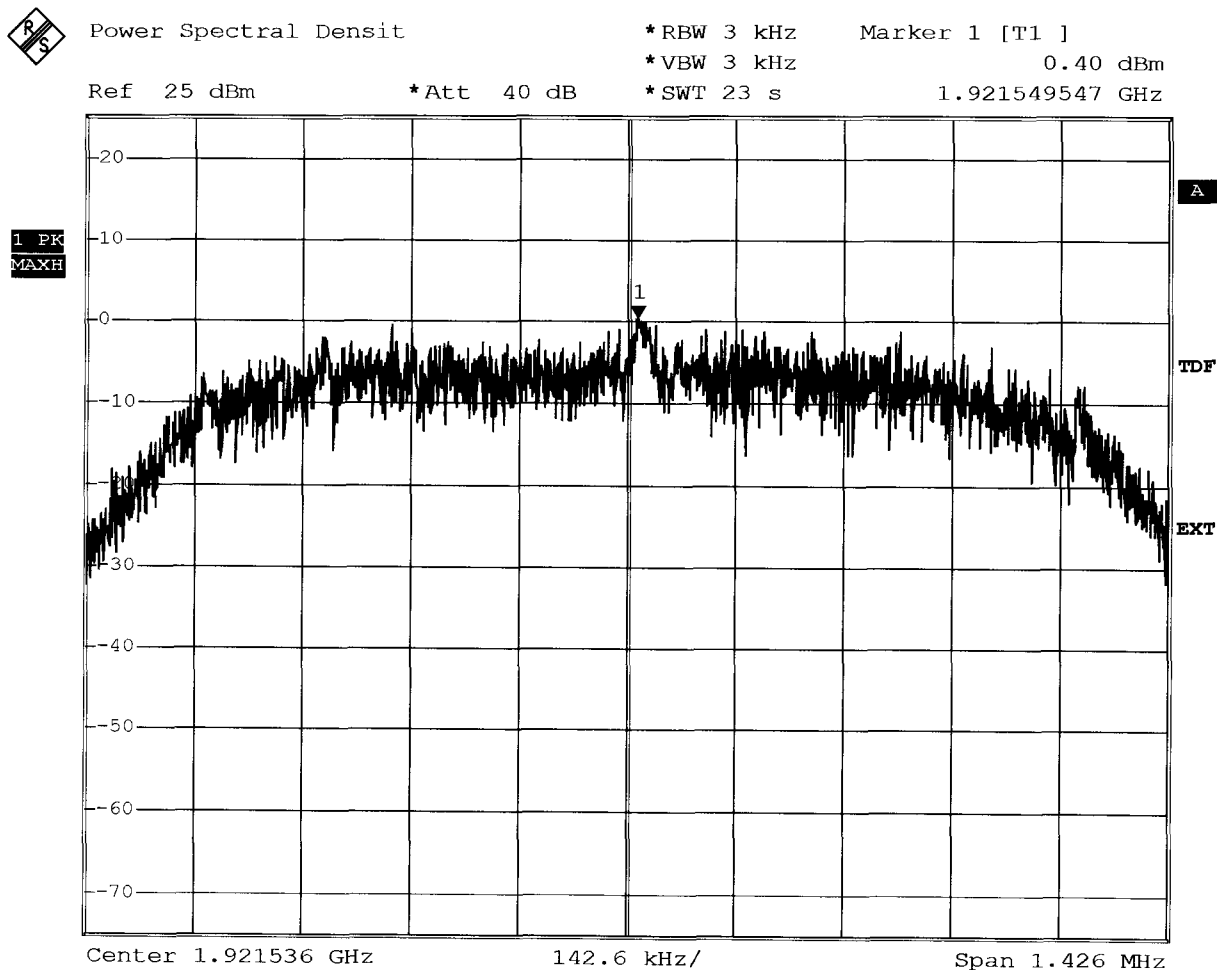
Appendix H

Power spectral density

FCC Part 15.319(d) Power spectral density**UPCS**

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Test step 1 initial condition



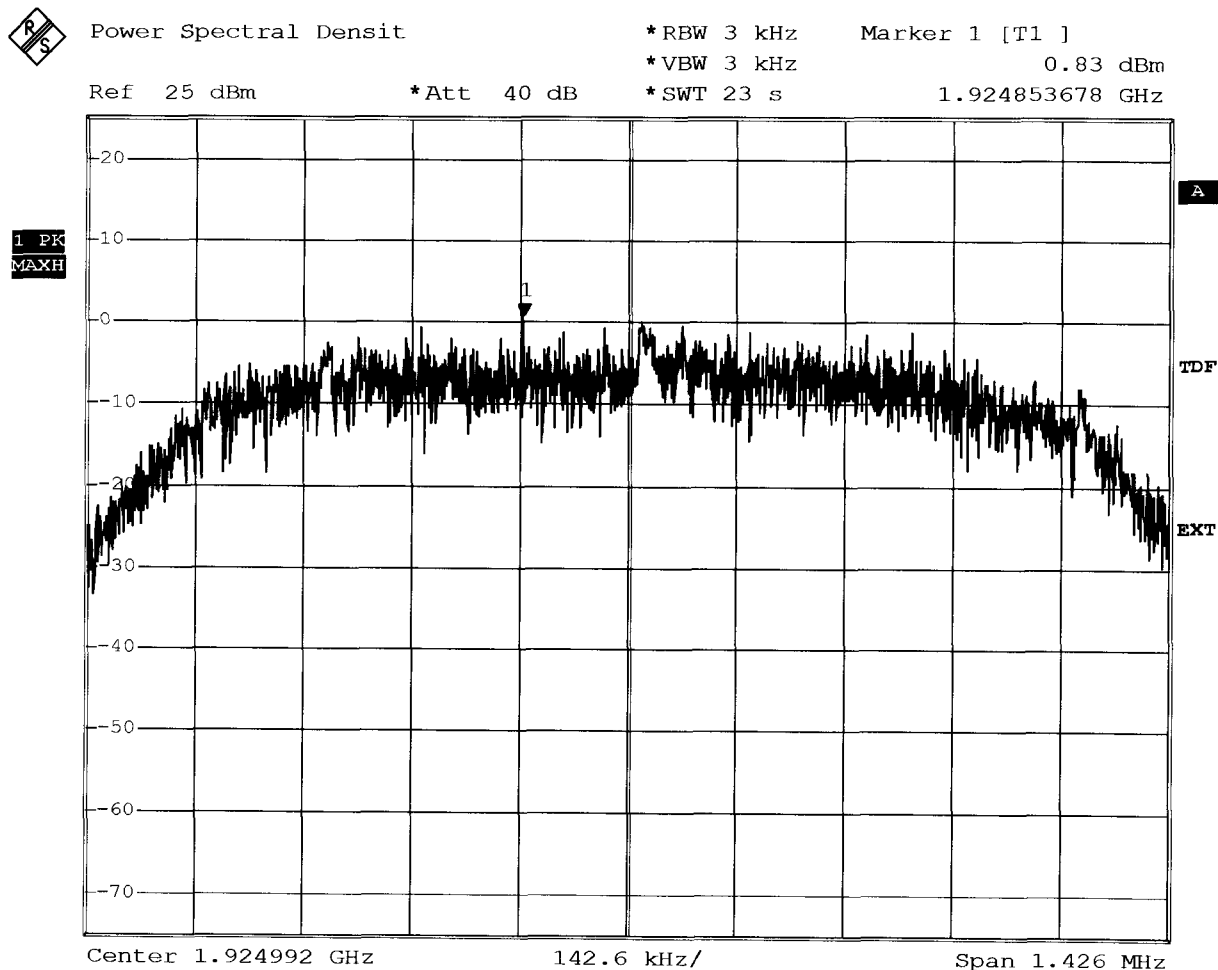
Comment: Ansi C63.17-1998 6.1.5
Date: 24.SEP.2005 13:39:15

Measurement diagram

FCC Part 15.319(d) Power spectral density**UPCS**

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Test step 1 initial condition



Comment: Ansi C63.17-1998 6.1.5
Date: 24.SEP.2005 13:35:19

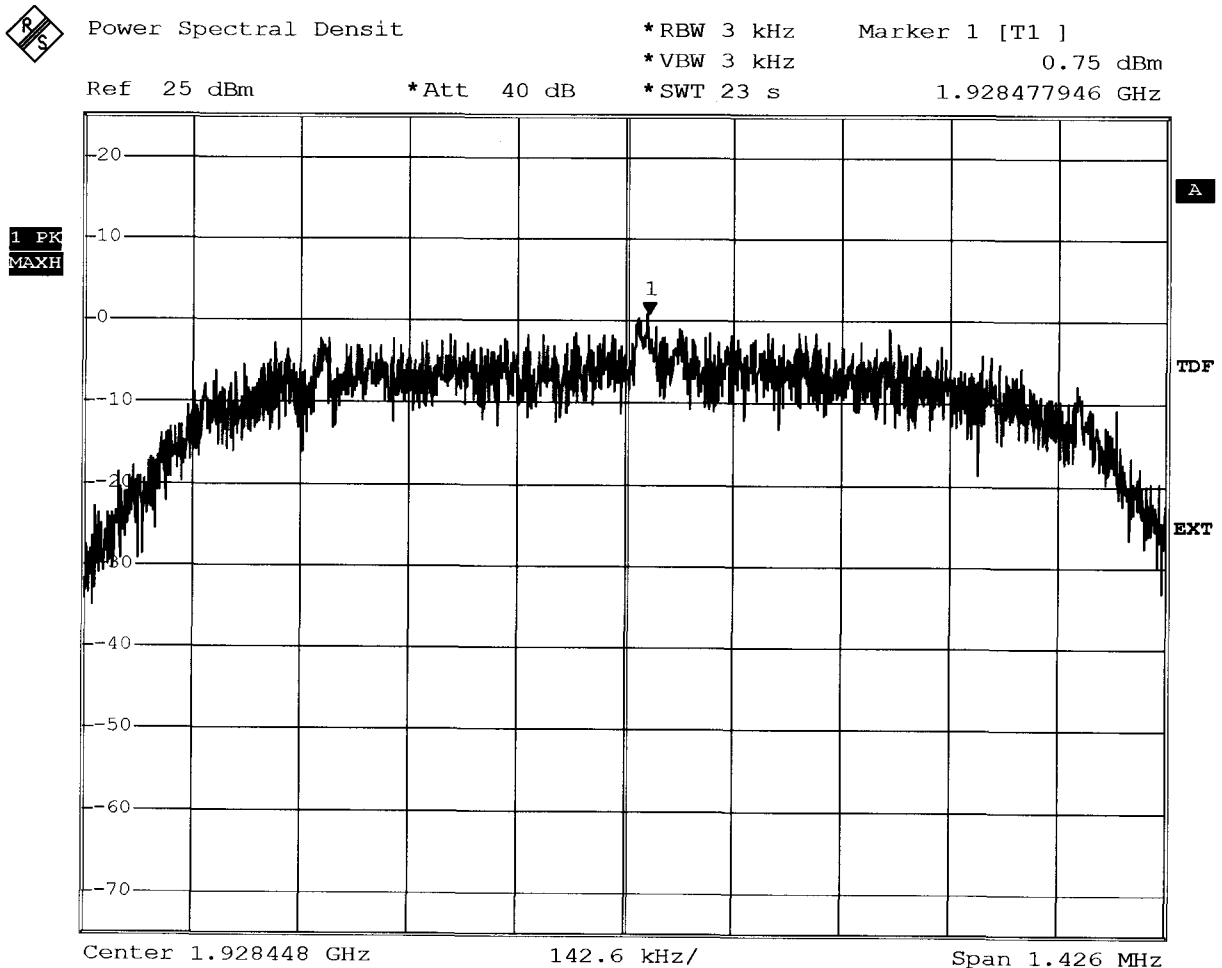
Measurement diagram

FCC Part 15.319(d) Power spectral density

UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Test step 1 initial condition



Comment: Ansi C63.17-1998 6.1.5
Date: 24.SEP.2005 13:42:41

Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5

UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	3.122 dBm
Value in mW	2.052mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Power Spectral Densit

*RBW 3 kHz

Marker 1 [T1]

*VBW 3 kHz

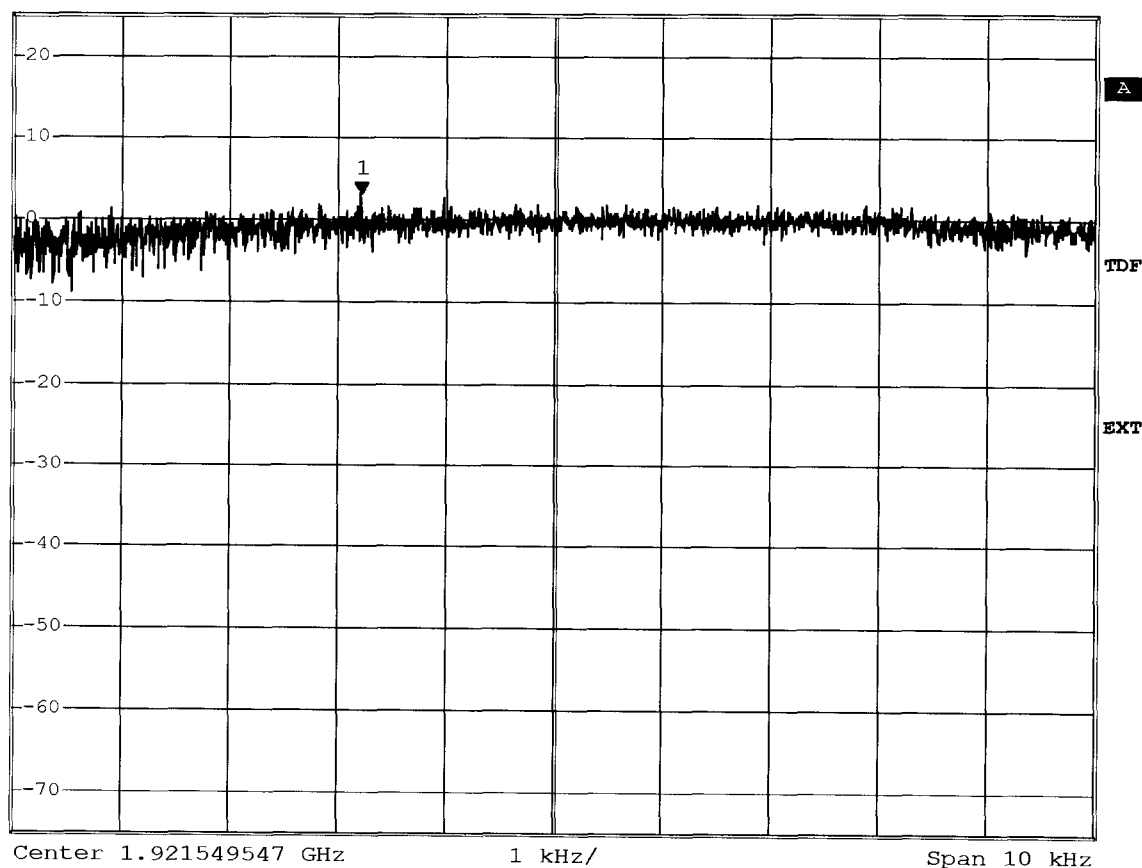
3.12 dBm

Ref 25 dBm

*Att 40 dB

*SWT 23 s

1.921547757 GHz

1 PK
MAXH

Comment: Ansi C63.17-1998 6.1.5

Date: 24.SEP.2005 13:40:25

Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5 UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	-0.794 dBm
Value in mW	0.833mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Power Spectral Densit

*RBW 3 kHz

Marker 1 [T1]

*VBW 3 kHz

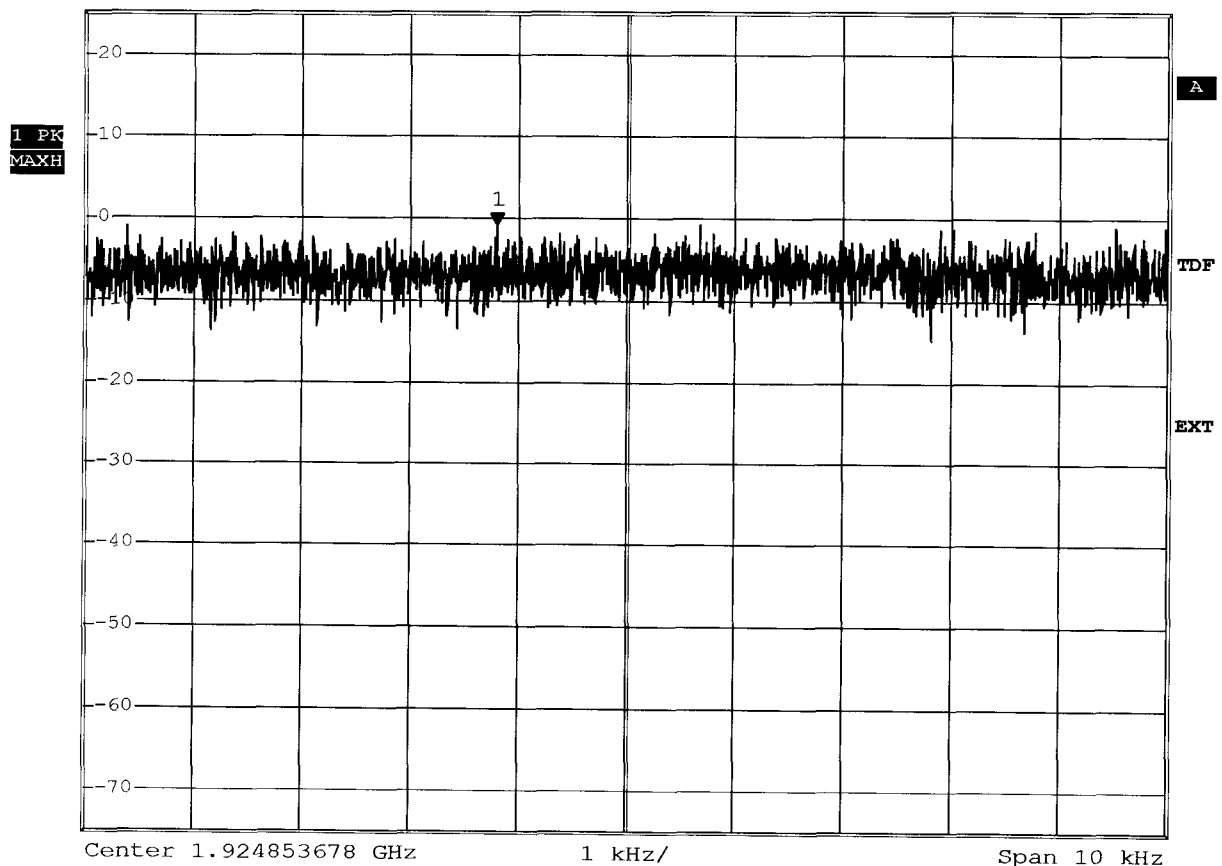
-0.79 dBm

Ref 25 dBm

*Att 40 dB

*SWT 23 s

1.924852478 GHz



Comment: Ansi C63.17-1998 6.1.5

Date: 24.SEP.2005 13:36:26

Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5 UPCS

EUT	GN9300 UPCS Headset
Model	GN9300
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	1.944 dBm
Value in mW	1.565mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Power Spectral Densit

*RBW 3 kHz

Marker 1 [T1]

*VBW 3 kHz

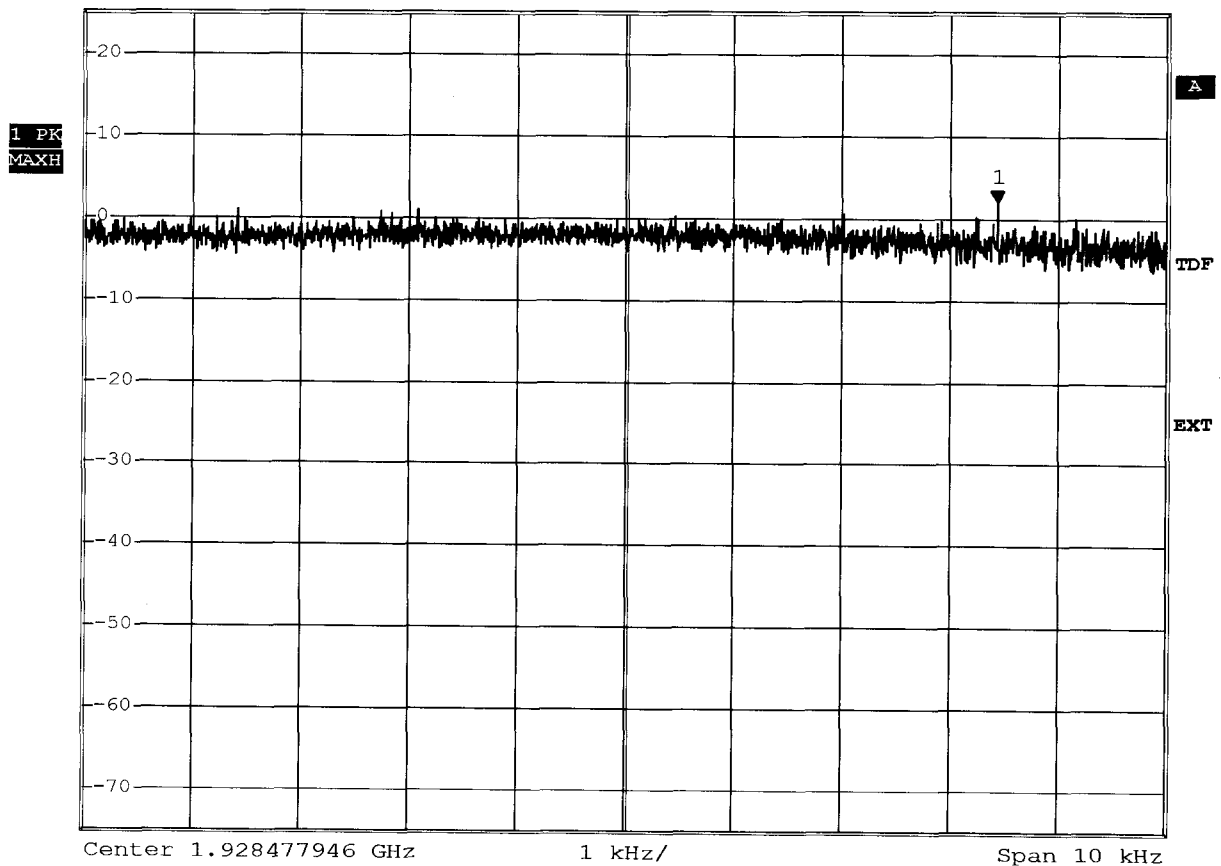
1.94 dBm

Ref 25 dBm

*Att 40 dB

*SWT 23 s

1.928481386 GHz



Comment: Ansi C63.17-1998 6.1.5

Date: 24.SEP.2005 13:43:33

Measurement diagram

Appendix I

Directional gain of the antenna

Appendix J

Radio frequency radiation exposure

Appendix K

Monitoring threshold

Test case Rev. Draft 1.1 ANSI_7.3.1.1.3_upper_theshold.xml
 Date 28.09.2005 13:27:05
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: initial setup
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:10:30.8906250	-54,2 -77,5	-82,9 -92	-82,5 -92	-83 -92	-80,6 -91,9	Interferer off, bearer of Fixed part on
00:11:11.0937500	-48,7 -54,4	-54 -54,5	-54,1 -54,5	-54,2 -54,5	-54,2 -54,5	
00:11:24.0937500	-48,4 -54,4	-54,1 -54,4	-54,1 -54,5	-54,2 -54,5	-54,2 -54,5	
00:11:34.3750000	-48,8 -55,5	-55,2 -55,5	-55,1 -55,5	-55,2 -55,5	-55,2 -55,6	
00:11:48.1875000	-48,8 -55,5	-55,1 -55,5	-55,1 -55,5	-55,2 -55,5	-55,2 -55,6	
00:12:08.2031250	-56,3 -56,8	-56,3 -56,7	-56,3 -56,7	-56,3 -56,6	-48,6 -56,5	
00:12:25.3593750	-56,4 -56,8	-56,4 -56,7	-56,2 -56,7	-56,2 -56,6	-49,2 -56,5	
00:15:25.4218750	-57 -57,6	-57,1 -57,6	-57,2 -57,6	-57,2 -57,6	-49,5 -57,6	
00:21:52.8750000	-44,03 -58,5	-18,7 -38,1	-43,1 -58,6	-48,4 -57,2	-54,1 -57,1	Connection Interferer level is -58,5 dB

Log file

Test case Rev. Draft 1.1 ANSI_7.3.2.1.2_least_interfered_channel
 Date 28.09.2005 16:29:43
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.3.2.1.2_a
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:02:37.0781250	-82 -90,9	-82,2 -90,8	-81,5 -91	-81,6 -91	-77,4 -90,6	Interference off
00:02:42.3750000	-57 -57,5	-57,1 -57,5	-56,8 -57,4	-63,3 -64,4	-68,9 -71,4	Interference on
00:02:48.4531250	-56,8 -57,5	-48,7 -57,4	-45,1 -57,3	-39,4 -62,3	-17,6 -36,9	Pass 1
00:02:53.6093750	-56,9 -57,5	-56,8 -57,5	-56,9 -57,4	-63,5 -64,5	-68,1 -71,3	
00:02:57.4843750	-56,7 -57,4	-47,7 -57,4	-48,1 -57,3	-39,6 -62,3	-17,3 -37,2	Pass 2
00:03:01.6250000	-56,7 -57,4	-56,8 -57,4	-56,8 -57,4	-63,3 -64,5	-56,4 -70,9	
00:03:05.3281250	-55,8 -57,4	-48,5 -57,4	-46,2 -57,3	-39,5 -62,4	-17,6 -37	Pass 3
00:03:09.0312500	-57 -57,5	-57 -57,5	-56,9 -57,4	-63,3 -64,5	-67,7 -71,3	
00:03:13.1093750	-56,4 -57,4	-50,5 -57,5	-49 -57,3	-39,4 -62,3	-17,2 -36,8	Pass 4
00:03:18.0937500	-56,6 -57,4	-56,8 -57,4	-56,9 -57,3	-63,5 -64,5	-68,4 -71,4	
00:03:21.5000000	-56,6 -57,4	-55,4 -57,4	-48,8 -57,3	-39,5 -62,5	-17,6 -37,2	Pass 5

Log file

Test case Rev. Draft 1.1 ANSI_7.3.2.1.2_least_interfered_channel
 Date 28.09.2005 16:36:19
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.3.2.1.2_b
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:08:33.1406250	-81,8 -90,9	-80,9 -90,9	-80,3 -90,9	-81,6 -91,1	-81,2 -91	Interference off
00:08:38.2343750	-56,6 -57,4	-56,8 -57,4	-57 -57,4	-69,2 -71,3	-62,1 -64,4	Interference on
00:09:19.3125000	-48,5 -57,4	-44,6 -57,4	-40,4 -56,9	-17,5 -36,8	-42,2 -63,7	Pass 1
00:09:28.6718750	-57,1 -57,5	-57 -57,5	-57 -57,4	-51,3 -69,9	-63,5 -64,4	
00:09:33	-47,9 -57,4	-48,7 -57,5	-39,7 -56,8	-17,7 -37,5	-41 -63,6	Pass 2
00:09:36.5156250	-57 -57,5	-57,1 -57,5	-56,9 -57,4	-51,4 -70,1	-63,3 -64,4	
00:09:40.1875000	-55,5 -57,5	-49,2 -57,4	-40,9 -56,9	-17,8 -37,5	-41 -63,7	Pass 3
00:09:43.5937500	-57 -57,5	-57 -57,5	-56,9 -57,4	-51,3 -69,9	-63,4 -64,4	
00:09:47.0156250	-48,8 -57,4	-44,7 -57,4	-40,2 -56,9	-17,7 -37,1	-41,2 -63,7	Pass 4
00:09:50.2656250	-57 -57,5	-57 -57,5	-56,9 -57,4	-50,6 -69,8	-63,4 -64,4	
00:09:53.2187500	-47,6 -57,4	-44,9 -57,4	-38,7 -56,9	-17,8 -37,5	-41,7 -63,7	Pass 5

Log file

Test case Rev. Draft 1.1 ANSI_7.3.2.1.2_least_interfered_channel
 Date 28.09.2005 16:45:39
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.3.2.1.2_c
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:18:36.4218750	-81,9 -91	-81,8 -91	-51,9 -75,3	-81,5 -91	-81,1 -91	Interference off
00:18:40.7812500	-56,6 -57,4	-57 -57,5	-48,3 -57,3	-69 -71,3	-74,3 -78,1	Interference on
00:18:49.7656250	-53,2 -57,4	-55,5 -57,4	-46 -57,3	-39,7 -66	-17,6 -37,1	Pass 1
00:18:54.5625000	-57 -57,5	-57,1 -57,5	-56,9 -57,4	-69,4 -71,3	-51,6 -73,5	
00:19:04.0312500	-56,6 -57,4	-49,8 -57,4	-45,1 -57,3	-39,8 -65,4	-17,8 -37,3	Pass 2
00:19:09.3593750	-57 -57,5	-57 -57,5	-56,9 -57,4	-69,3 -71,4	-51,2 -73,2	
00:19:12.5937500	-53,2 -57,4	-51,6 -57,4	-48,7 -57,3	-39,8 -65,3	-17,6 -37,4	Pass 3
00:19:16.1093750	-57 -57,5	-57 -57,5	-56,8 -57,4	-69,5 -71,3	-51,6 -73,5	
00:19:19.6093750	-50,5 -57,4	-53,1 -57,4	-45 -57,3	-39,9 -65	-17,4 -37,1	Pass 4
00:19:22.7656250	-57,1 -57,5	-57 -57,5	-56,9 -57,4	-69,2 -71,3	-51,5 -73,4	
00:19:25.9062500	-50,9 -57,4	-47,7 -57,4	-47,5 -57,3	-40,1 -65,6	-17,1 -37,1	Pass 5

Log file

Test case Rev. Draft 1.1 ANSI_7.3.2.1.2_least_interfered_channel
 Date 28.09.2005 16:49:46
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.3.2.1.2_d
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	
00:22:49.2031250	-81,2 -90,8	-52,1 -75,5	-81,1 -90,8	-82 -90,8	-81,7 -90,9	Interference off
00:22:56.6718750	-56,6 -57,4	-48,5 -57,3	-56,8 -57,3	-74,4 -78,2	-69,4 -71,3	Interference on
00:23:04.0312500	-49 -57,4	-45,3 -57,4	-41,1 -56,9	-17,7 -36,8	-41,9 -68,7	Pass 1
00:23:08.4687500	-56,8 -57,5	-57 -57,5	-56,9 -57,4	-51,7 -73,4	-69,3 -71,4	
00:23:12.6406250	-54,9 -57,4	-47,6 -57,4	-40,7 -56,8	-17,6 -37,5	-41,3 -68,5	Pass 2
00:23:16.5937500	-57 -57,5	-57,1 -57,5	-56,9 -57,4	-51,7 -73,9	-69 -71,4	
00:23:20.1875000	-47,8 -57,4	-45,4 -57,4	-39,3 -56,8	-17,9 -37,3	-41,3 -68,8	Pass 3
00:23:23.7812500	-57 -57,5	-57,1 -57,5	-56,9 -57,3	-51,7 -73,6	-69,6 -71,4	
00:23:26.8437500	-51,2 -57,4	-47,2 -57,4	-40,5 -56,8	-17,6 -37	-41,7 -68,5	Pass 4
00:23:30.4531250	-56,9 -57,5	-57 -57,5	-56,8 -57,4	-52 -73,6	-69,3 -71,3	
00:23:33.5156250	-48,2 -57,4	-44,4 -57,4	-40 -56,9	-17,5 -37,2	-41,3 -68,5	Pass 5

Log file

Appendix L

Monitoring of intended transmit window and maximum reaction time

Test case Rev. Draft 1.1 ANSI_7.5_reaction_time_low_ch
 Date 28.09.2005 19:56:32
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.5_low_ch_50 / 35 / 75us
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
03:26:46.5312500	-46,9 -70,2	-81,4 -91,2	-81,3 -90,8	-80,1 -90,8	-80,9 -90,8	No interference
03:27:06.3593750	-39,9 -67	-17,1 -37,5	-40,9 -71,5	-47,7 -79,9	-53,9 -84,6	Test connection
03:27:14.8281250	-50,8 -65,8	-43,7 -54	-53,9 -54,2	-53,9 -54,3	-54 -54,3	35 µs
03:27:24.0781250	-50,8 -65,8	-43,5 -54	-53,8 -54,2	-54 -54,3	-54 -54,3	No connection
03:27:56.3125000	-45,1 -60,9	-53,8 -54,1	-53,9 -54,2	-54 -54,3	-54 -54,3	50 µs
03:28:03.9062500	-45,1 -60,9	-53,7 -54,1	-53,9 -54,2	-54 -54,3	-54 -54,3	No connection
03:28:35.3593750	-39,7 -54,5	-53,8 -54,1	-53,9 -54,2	-54 -54,3	-54 -54,3	75 µs on the start of slot
03:28:44.7656250	-39,3 -54,4	-53,5 -54,1	-53,8 -54,2	-53,9 -54,3	-53,9 -54,3	No connection
03:29:18.2343750	-40,5 -54,5	-53,5 -53,9	-53,7 -54,1	-53,9 -54,3	-54 -54,3	75 µs on the mid. of slot
03:29:27.0156250	-40,4 -54,5	-53,4 -53,9	-53,7 -54,1	-53,9 -54,3	-53,9 -54,3	No connection
03:29:58.5781250	-40 -54,4	-53,6 -54,1	-53,9 -54,2	-54 -54,3	-54 -54,3	75 µs on the end of slot
03:30:15.5781250	-40,1 -54,4	-53,7 -54,1	-53,9 -54,2	-54 -54,3	-53,9 -54,3	No connection

Log file

Test case Rev. Draft 1.1 ANSI_7.5_reaction_time_mid_ch
 Date 28.09.2005 20:16:28
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.5_mid_ch_50 / 35 / 75us
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
03:46:59.1718750	-47 -70,4	-81,6 -90,8	-81,8 -91	-81,3 -91,1	-80 -90,8	No interference
03:47:05.5156250	-46,3 -78,9	-40 -66,7	-17,4 -37,3	-41,4 -71,9	-47,8 -80,1	Test connection
03:47:14.3437500	-54,1 -54,4	-54,1 -54,6	-46,7 -65,6	-54 -54,3	-54 -54,3	35 µs
03:47:22.3906250	-54,1 -54,4	-54,2 -54,6	-46,7 -65,7	-53,9 -54,3	-54 -54,3	No connection
03:47:58.5468750	-81,6 -91	-82,4 -90,7	-46,5 -70,1	-80,8 -90,5	-81,6 -90,8	50 µs
03:48:17.7343750	-54,1 -54,4	-54,2 -54,6	-43,9 -63,1	-53,9 -54,3	-54 -54,3	No connection
03:48:48.8281250	-54,1 -54,4	-54,2 -54,6	-39,9 -56,7	-53,7 -54,3	-54 -54,3	75 µs on the start of slot
03:48:54.9531250	-54,1 -54,4	-54,3 -54,6	-40 -56,7	-53,7 -54,3	-54 -54,3	No connection
03:49:23.6250000	-53,8 -54,4	-54 -54,5	-40,5 -56,6	-53,8 -54,3	-54 -54,3	75 µs on the mid. of slot
03:49:31.0312500	-53,7 -54,3	-53,9 -54,3	-40,4 -56,6	-53,9 -54,3	-54 -54,3	No connection
03:50:01.4375000	-54,1 -54,4	-54,1 -54,6	-40,1 -56,8	-53,9 -54,3	-53,9 -54,3	75 µs on the end of slot
03:50:15.1406250	-54,1 -54,4	-54 -54,5	-40 -56,8	-53,9 -54,3	-53,9 -54,3	No connection

Log file

Test case Rev. Draft 1.1 ANSI_7.5_reaction_time_high_ch
 Date 28.09.2005 19:45:51
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.5_high_ch_35 / 50 / 75 us
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
03:13:33.7968750	-81,7 -90,9	-47,2 -70,6	-81,5 -90,7	-81,6 -91	-82 -90,9	No interference
03:13:46.1718750	-46,3 -78,8	-40 -67,2	-17,6 -36,7	-41,4 -71,4	-47,7 -80,1	Test connection
03:14:03.6250000	-54,1 -54,4	-54,3 -54,6	-44,3 -54,4	-54,1 -54,5	-49,3 -64,7	50 µs
03:14:14.2343750	-53,7 -54,4	-54 -54,5	-43,5 -54,3	-54,1 -54,5	-49,4 -64,7	No connection
03:14:47.7500000	-44,5 -54,3	-54,2 -54,6	-54,1 -54,5	-54,1 -54,5	-43,7 -64	35 µs
03:16:04.1093750	-54,1 -54,4	-44,4 -54,5	-54,1 -54,5	-54,1 -54,5	-43,7 -63,9	No connection
03:16:56.4531250	-53,6 -54,4	-44 -54,5	-54,3 -54,6	-53,8 -54,3	-38,8 -53,3	75 µs on the start of slot
03:17:12.9218750	-54,1 -54,4	-43,9 -54,4	-54,2 -54,6	-53,9 -54,3	-38,8 -53,3	No connection
03:17:53.2656250	-53,6 -54,2	-53,9 -54,4	-54,1 -54,5	-53,8 -54,2	-39,4 -53	75 µs on the mid. of slot
03:17:58.3906250	-53,7 -54,1	-53,9 -54,4	-54,1 -54,5	-53,6 -54,2	-39,4 -53	No connection
03:18:37.7656250	-54,1 -54,4	-54,2 -54,6	-54,3 -54,6	-54 -54,3	-38,9 -53,6	75 µs on the end of slot
03:18:46.6406250	-54,1 -54,4	-54,2 -54,6	-54,4 -54,6	-54 -54,3	-38,8 -53,6	No connection

Log file

Appendix M

Monitoring band width

Test case Rev. Draft 1.1 ANSI_7.4.1_monitoring_bandwidth
 Date 28.09.2005 19:20:36
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.4.1 simple compliance test_low_-30%
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	
02:53:03.4687500	-80,8 -90,7	-47,3 -70,7	-81,7 -90,9	-81,5 -90,8	-81,9 -91	No interference
02:53:12.9531250	-81,1 -90,8	-44,3 -54	-53,9 -54,3	-54 -54,3	-54,1 -54,3	Interference on
02:53:17.7343750	-81,1 -90,6	-44,3 -54	-53,9 -54,3	-54 -54,3	-54 -54,3	No connection

Log file

Test case Rev. Draft 1.1 ANSI_7.4.1_monitoring_bandwidth
 Date 28.09.2005 19:24:26
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.4.1 simple compliance test_low_+30%
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	
02:57:29.9687500	-81,1 -91	-47,3 -70,6	-80,4 -90,7	-81,8 -91	-80,9 -90,8	No interference
02:57:46.2968750	-80,7 -90,6	-44,2 -54	-53,9 -54,2	-54 -54,3	-54 -54,3	Interference on
02:57:52.5312500	-81,9 -90,8	-52 -54,1	-53,9 -54,2	-54 -54,3	-54 -54,3	No connection

Log file

Test case Rev. Draft 1.1 ANSI_7.4.1_monitoring_bandwidth
 Date 28.09.2005 19:26:56
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.4.1 simple compliance test_mid_-30%
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
03:00:21.1718750	-81,6 -90,9	-47,4 -70,8	-82,4 -91	-81,8 -90,8	-81,5 -91	No interference
03:00:25.5312500	-54 -54,4	-44,2 -54,5	-81,3 -90,6	-54 -54,3	-54 -54,3	Interference on
03:00:30.4062500	-54,1 -54,4	-44,3 -54,5	-81,9 -90,8	-54 -54,3	-54 -54,3	No connection

Log file

Test case Rev. Draft 1.1 ANSI_7.4.1_monitoring_bandwidth
 Date 28.09.2005 19:29:47
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.4.1 simple compliance test_mid_+30%
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	
03:02:52.5156250	-80,6 -90,8	-47,4 -70,7	-80,9 -90,8	-81,2 -90,8	-82,1 -91,1	No interference
03:02:55.9843750	-54,2 -55,8	-44,2 -54,5	-80,7 -90,7	-54 -54,3	-54 -54,3	Interference on
03:03:05.5312500	-54,2 -55,8	-44,2 -54,5	-81,6 -90,7	-53,9 -54,3	-54 -54,3	No connection

Log file

Test case Rev. Draft 1.1 ANSI_7.4.1_monitoring_bandwidth
 Date 28.09.2005 19:33:01
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.4.1 simple compliance test_high_-30%
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	
03:06:17.7812500	-80,4 -90,9	-47,1 -70,6	-81,1 -90,9	-81,8 -90,8	-81,6 -90,9	No interference
03:06:22.0625000	-53,8 -54,4	-44,4 -54,5	-54,2 -54,5	-54,2 -54,5	-81,9 -90,7	Interference on
03:06:35.6875000	-54,1 -54,4	-44,1 -54,5	-54,2 -54,5	-54,2 -54,5	-80,4 -90,8	No connection

Log file

Test case Rev. Draft 1.1 ANSI_7.4.1_monitoring_bandwidth
 Date 28.09.2005 19:35:58
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 7.4.1 simple compliance test_high_+30%
 GN9300 UPCS (Portable) (single slot)
 RTX Telecom A/S

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	
03:09:17.4843750	-81,1 -90,9	-47,3 -70,7	-81,4 -91,1	-82,1 -91	-82 -90,9	Interference off
03:09:24.3906250	-54 -54,4	-44,4 -54,5	-54,1 -54,5	-54,1 -54,5	-81,8 -90,8	Interference on
03:09:37.1875000	-53,7 -54,4	-43,9 -54,4	-54,2 -54,5	-54,2 -54,5	-81,2 -90,8	No connection

Log file

Appendix N

Random waiting interval

Appendix O

Duration of Transmission

Test case Rev. Draft 1.1
 ANSI_8.2.2._Transmission_duration_PP_only
 Date 27.09.2005 21:57:00
 Reference to the EUT G0M20509-9850 / GN9300

Comment: initial setup

GN9300 UPCS Headset (single slot)
 RTX Telecom A/S

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	
00:01:37.5156250	-82,2 -91,5	-82,2 -91,4	-81,7 -91,5	-52,3 -75,7	-82,1 -91,5	
00:01:43.3125000	-46,8 -79,2	-40,2 -66,7	-17,9 -37,3	-42,1 -72	-48,3 -80,5	
00:06:47.2343750	-46,9 -79,6	-40,2 -66,5	-18 -37,5	-42 -72,2	-48,1 -80,4	
00:11:47.2031250	-17,5 -37,4	-41,8 -72,6	-48,1 -80,3	-53,6 -84,8	-60 -87,4	Change to ch 4
00:16:47.2343750	-18,1 -37,9	-41,6 -72,4	-48,1 -80,2	-53,5 -84,6	-59,9 -87,9	
00:21:47.2343750	-17,8 -38	-41,5 -72,7	-48,3 -80,4	-53,8 -85,2	-59,3 -87,8	
00:26:47.2500000	-17,8 -37,6	-41,7 -72	-47,8 -80	-53,6 -85	-58,9 -87,8	
00:31:47.2343750	-40,3 -66,4	-18,2 -37,8	-41,6 -71,8	-48,4 -80,7	-53,4 -84,5	Change to ch 3
00:36:47.2656250	-40,1 -67,1	-18,1 -37,4	-41,7 -72,4	-48,3 -80,6	-53,7 -84,8	

Log file

ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH
 Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN



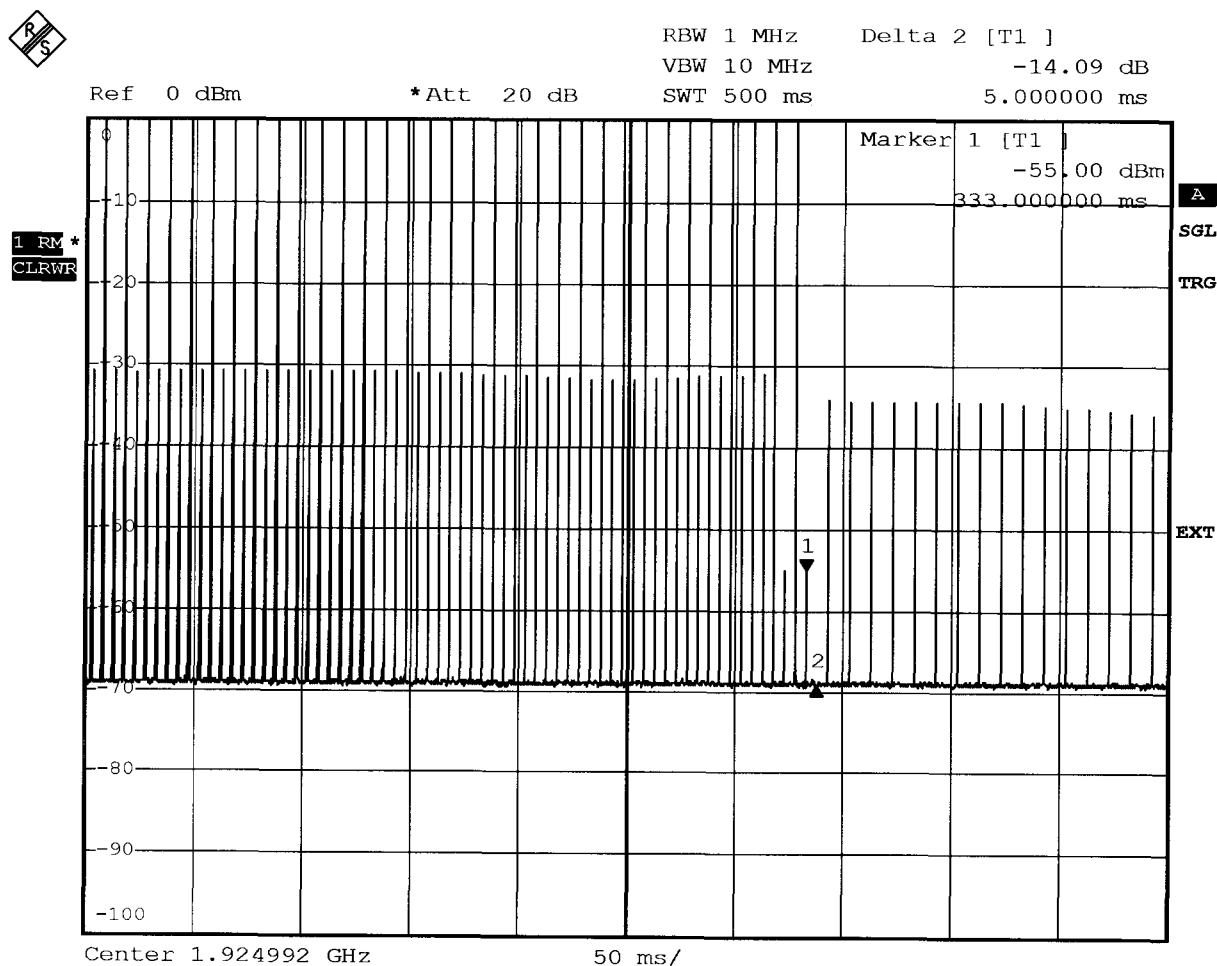
Appendix P

Connection acknowledgement

ANSI_8.1.3_Acknowledgments

UPCS1900

EUT	UPCS Headset
Model	GN9300
Applicant	RTX
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	The transmit time without acknowledgment is 5 msec
Comment 2	limit: 1 s
Comment 3	verdict pass



Comment: ANSI C63.17-1998
 Date: 26.AUG.2005 09:31:36

Measurement diagram

Test case Rev. Draft 1.1 ANSI_8.2.1_Acknowledgments_30s
 Date 29.09.2005 15:03:12
 Reference to the EUT G0M20509-9850 / GN9300
 Comment: 8.2.1 Acknowledgments
 GN9300 UPCS (Headset) (double slot)
 RTX Telecom A/S

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	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:08:05.7812500	-47,1 -69	-39,2 -64,7	-17,6 -34	-41,3 -67,3	-47,4 -69,2	Connection at channel 2
00:08:05.9218750	-45,9 -68,9	-39,2 -64,8	-17,8 -34,3	-41,7 -67,6	-47,2 -69,2	Connection at channel 2
00:08:07.3281250	-46 -68,9	-39,2 -64,4	-17,2 -34	-41 -67,2	-48,3 -69	Connection at channel 2
00:08:07.4687500	-46,6 -69	-39,7 -64,7	-17,7 -37,3	-41,1 -67,4	-48,4 -69,2	Turn off the companion device
00:08:08.8593750	-47 -69	-39,7 -64,5	-17,5 -36,6	-41,5 -67,4	-48,6 -69,3	
00:08:09.1406250	-47,1 -69	-39,5 -64,8	-17,6 -37,5	-41,8 -67,4	-47,1 -69,1	
00:08:09.4218750	-45,9 -68,9	-39,6 -65	-17,8 -36,9	-41,2 -67,2	-47,6 -69,2	
00:08:10.1250000	-47,1 -69	-39,8 -64,8	-17,2 -36,8	-41,5 -67,7	-48,2 -69,3	
00:08:10.5468750	-46,1 -69	-39,9 -64,5	-17,7 -37,4	-41,8 -67,5	-47,8 -69,2	
00:08:11.3906250	-46,7 -69	-39,4 -64,5	-17,7 -37,4	-41,7 -67,5	-47,2 -69,2	
00:08:11.5312500	-46,1 -69	-39,3 -64,4	-17,7 -36,8	-42 -67,5	-48,3 -69,3	
00:08:11.6718750	-45,8 -68,9	-39,4 -64,9	-17,6 -37,8	-67,8 -69,5	-68 -69,5	
00:08:11.8125000	-67,7 -69,3	-67,6 -69,4	-82,4 -91,1	-67,4 -69,6	-67,9 -69,6	Tx off after 4.4 sec.
00:08:12	-67,4 -69,4	-67,8 -69,4	-81,3 -91	-67,8 -69,6	-67,9 -69,6	

Log file

Appendix Q

Selected channel confirmation, power accuracy, segment occupancy

Test case
confirmation

Rev. Draft 1.1 ANSI_7.3.1.2_selected channel

Date 28.09.2005 17:06:02

Reference to the EUT

G0M20509-9850 / GN9300

Comment:

initial setup

GN9300 UPCS (Portable) (single slot)
RTX Telecom A/S

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 (f1)	1928.448 MHz (f2)	Comment
	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	Peak in dBm RMS in dBm	
00:39:09.2187500	-43,3 -66,8	-81 -90,9	-81,1 -90,9	-81,6 -90,8	-81,6 -90,9	Interference off
00:39:14.5156250	-41,7 -57	-57 -57,5	-56,9 -57,4	-69,3 -71,3	-63,4 -64,4	Interference on
00:39:22.1562500	-41,9 -57	-57,1 -57,5	-56,8 -57,4	-68,9 -71,3	-81,5 -91	f2 switch off
00:39:27.2187500	-53 -57,4	-51,2 -57,4	-49,3 -57,3	-39,8 -65,4	-17,6 -37	Connection on f2
00:39:33.3906250	-56,4 -57,4	-49,1 -57,4	-44,8 -57,3	-68,9 -71,3	-43,4 -66,7	f2 switch on
00:39:46.5156250	-55,2 -57,4	-46,7 -57,4	-39,6 -56,8	-17,8 -37,3	-42 -63,8	Connection on f1

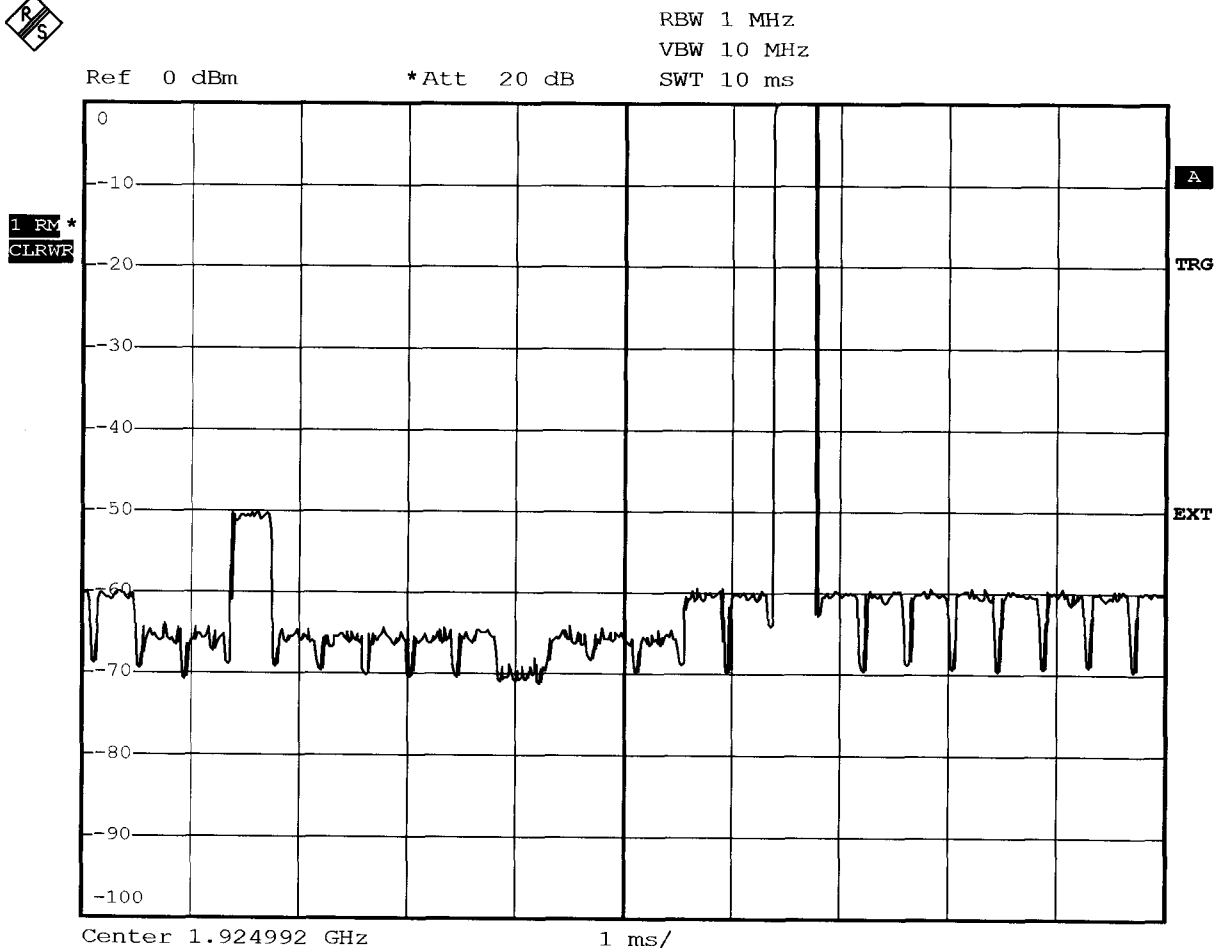
Log file

Appendix R

Duplex connections

ANSI 8.2.3 Duplex connections**Rx slot:l.c.t.+6dB, Tx slot:l.c.t.+13 dB**

EUT	UPCS Headset
Model	GN9300
Applicant	RTX
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	Tx time slot 3 is interference free
Comment 2	Connection in Tx time slot 3
Comment 3	Verdict : PASS



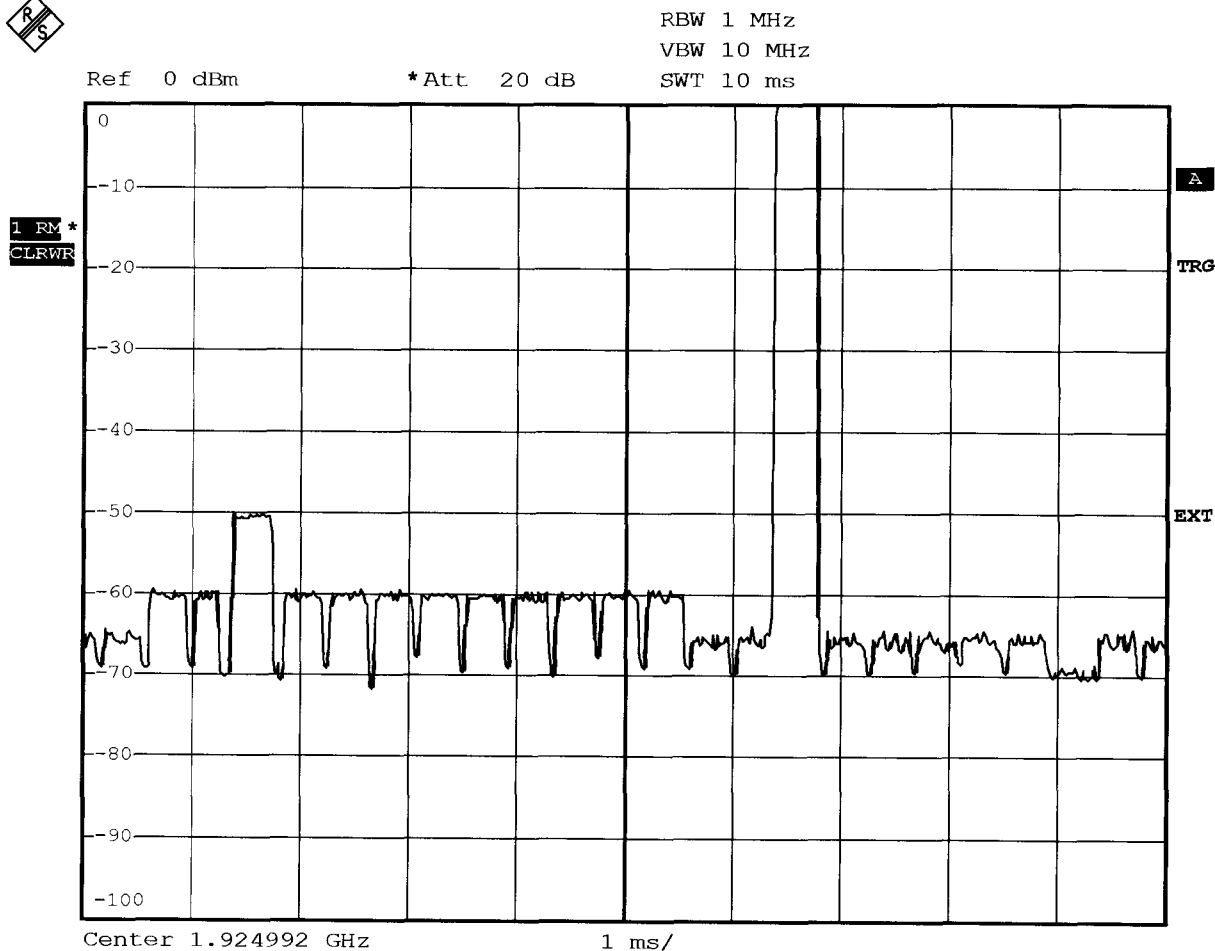
Comment: ANSI C63.17-1998

Date: 26.AUG.2005 09:21:51

Measurement diagram

ANSI 8.2.3 Duplex connections**Rx slot:l.c.t.+13dB, Tx slot:l.c.t.+6 dB**

EUT	UPCS Headset
Model	GN9300
Applicant	RTX
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	Rx time slot 3 is interference free
Comment 2	Connection in Rx time slot 3
Comment 3	Verdict : PASS



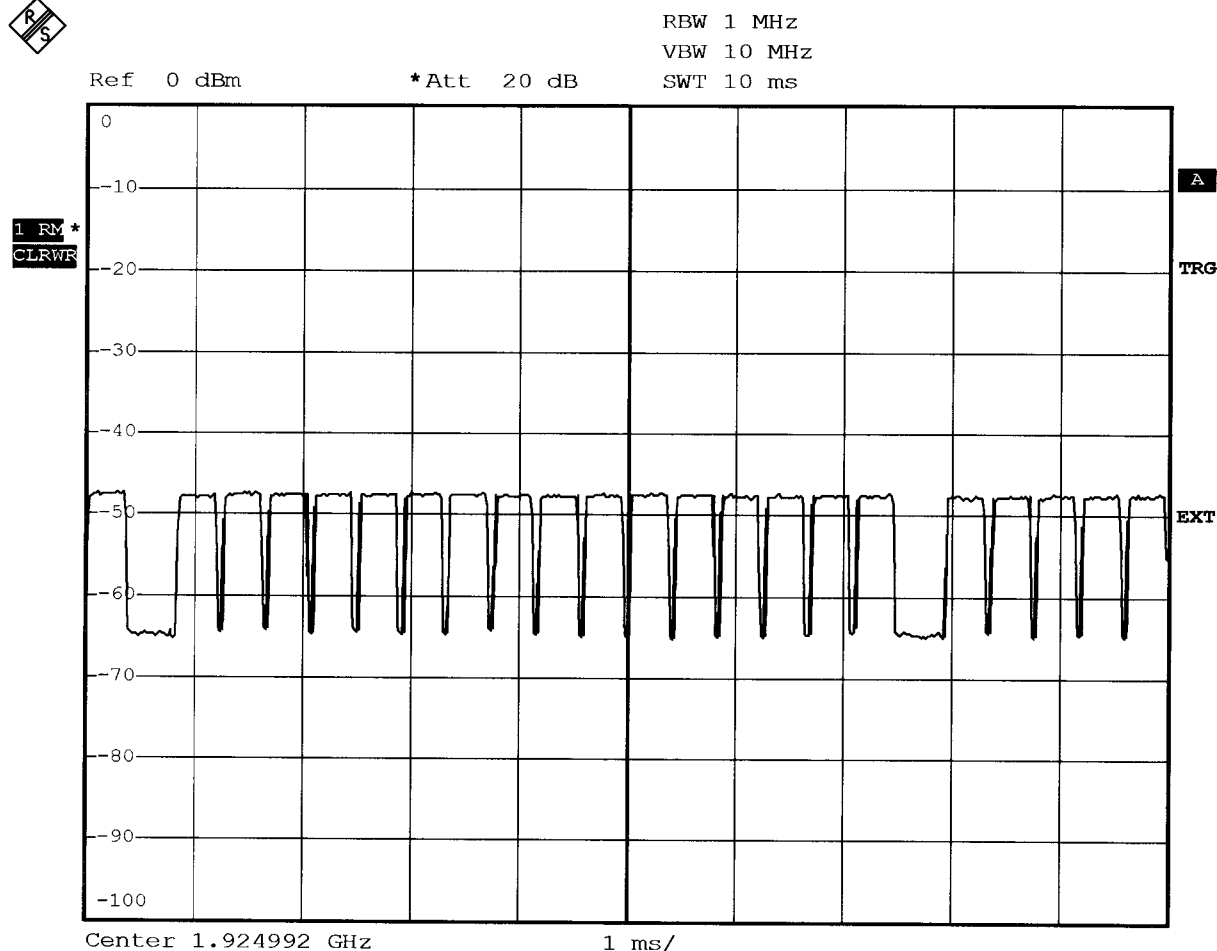
Comment: ANSI C63.17-1998

Date: 26.AUG.2005 09:17:48

Measurement diagram

ANSI 8.2.3 Duplex connections**Rx slot: u.c.t +6dB, Tx slot: u.c.t +6dB,**

EUT	UPCS Headset
Model	GN9300
Applicant	RTX
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	No connection establisht in the interference free time slot.
Comment 2	The slot pair are not a duplex slot pair.
Comment 3	Verdict pass



Comment: ANSI C63.17-1998

Date: 26.AUG.2005 09:23:34

Measurement diagram