



Appendix B

Coordination with fixed microwave service

UTAM, Inc.


SECTION 15.307(b) AFFIDAVIT

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

ASCOM WIRELESS SOLUTIONS, INC.

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 30th day of August, 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 #: ASCO092005



Appendix C

Reference to Subpart B



Appendix D

Labeling requirements

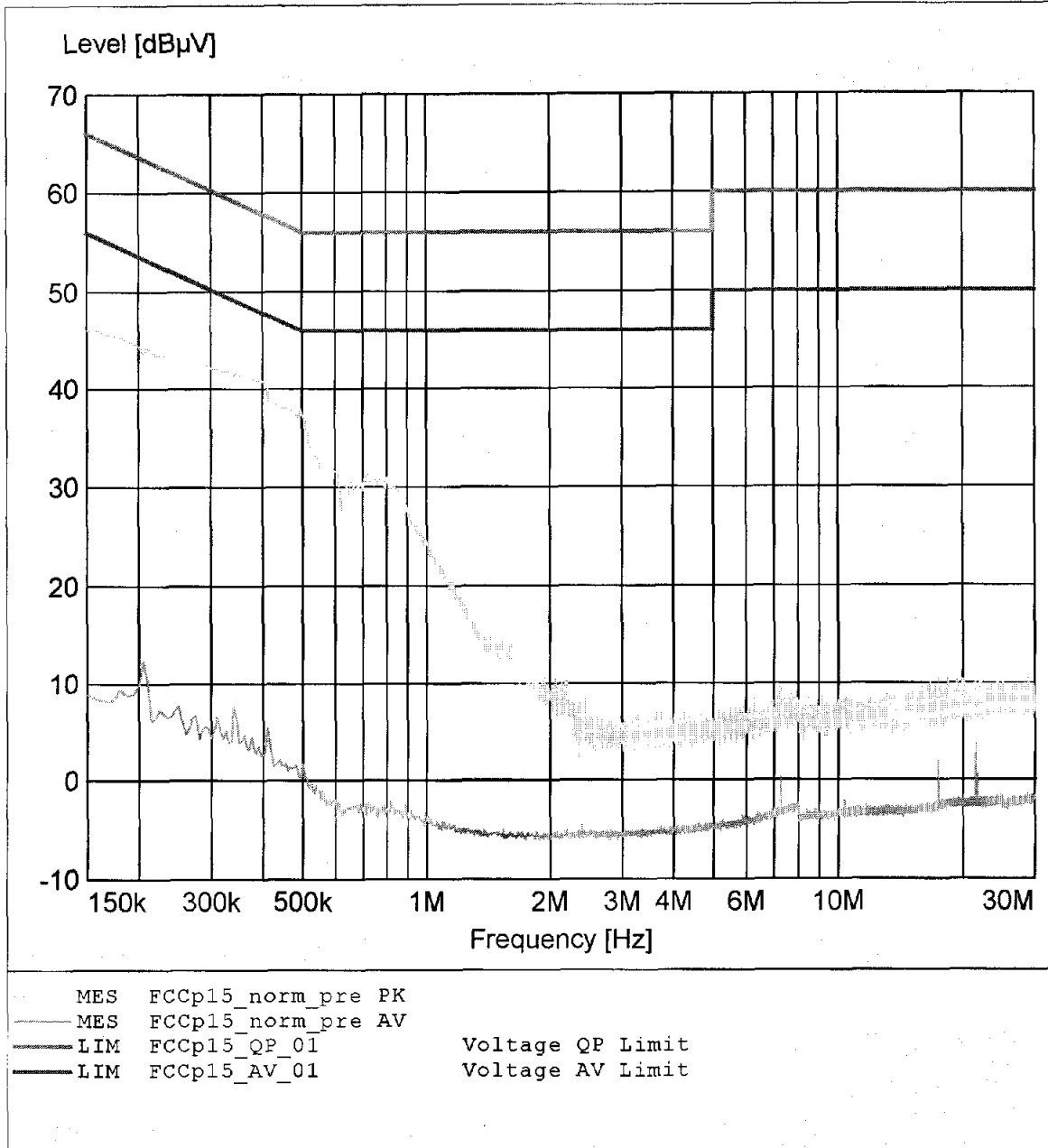


Appendix E

Conducted limits AC Power line

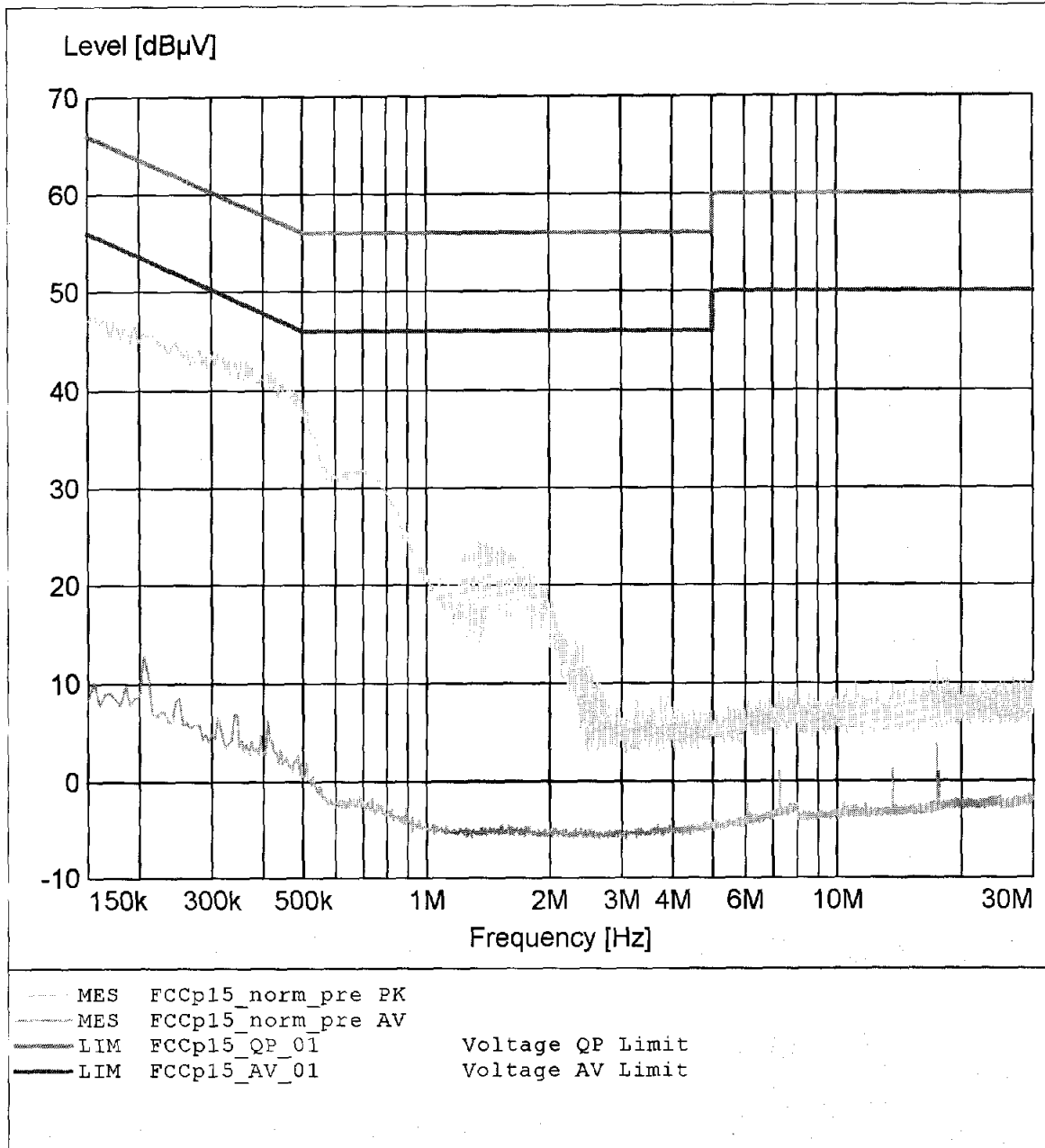
EMI voltage test in the ac-mains according to FCC part 15

EUT: Mid range UPCS handset
 Manufacturer: ASCOM TATECO AB
 Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C
 Test Site: ETS
 Operator: Mr. Marquardt
 Test Specification: V-Network: ESH2-Z5 (L1)
 Comment: model: DT292 mode: charging
 ADAPTOR: FE4116090D030



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

EUT: Mid range UPCS handset
 Manufacturer: ASCOM TATECO AB
 Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C
 Test Site: ETS
 Operator: Mr. Marquardt
 Test Specification: V-Network: ESH2-25 (N)
 Comment: model: DT292 mode: charging
 ADAPTOR: FE4116090D030





Appendix F

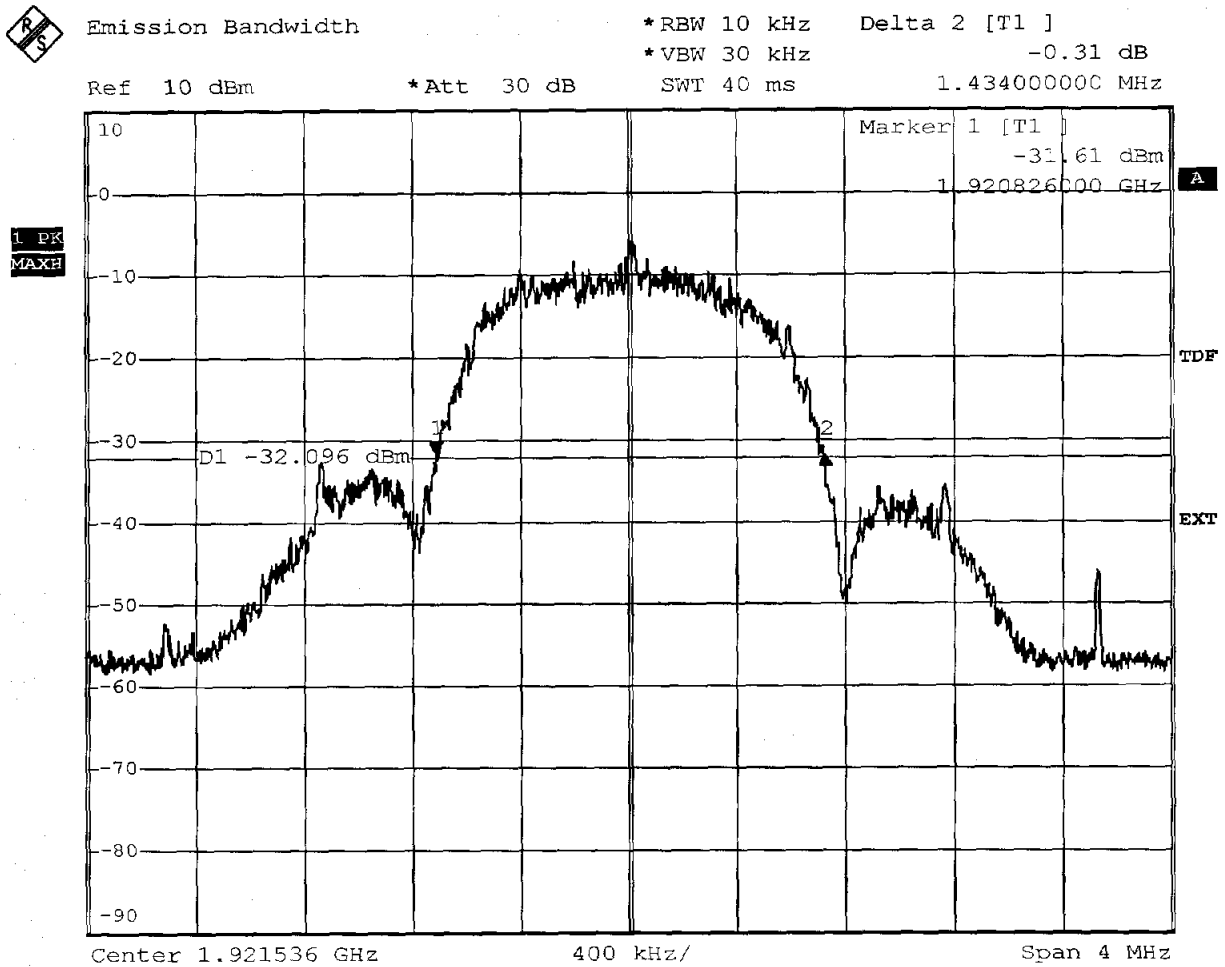
Emission band width



FCC Part 15.303(b) Emission bandwidth

**Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.3
UPCS**

EUT	Mid range UPCS handset
Model	DT292
Applicant	Ascom Tateco AB
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



Comment: Ansi C63.17-1998 6.1.3
Date: 31.AUG.2005 09:59:44

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 : 1921.08MHz
Higher frequency : 1921.916MHz

-12 dB points

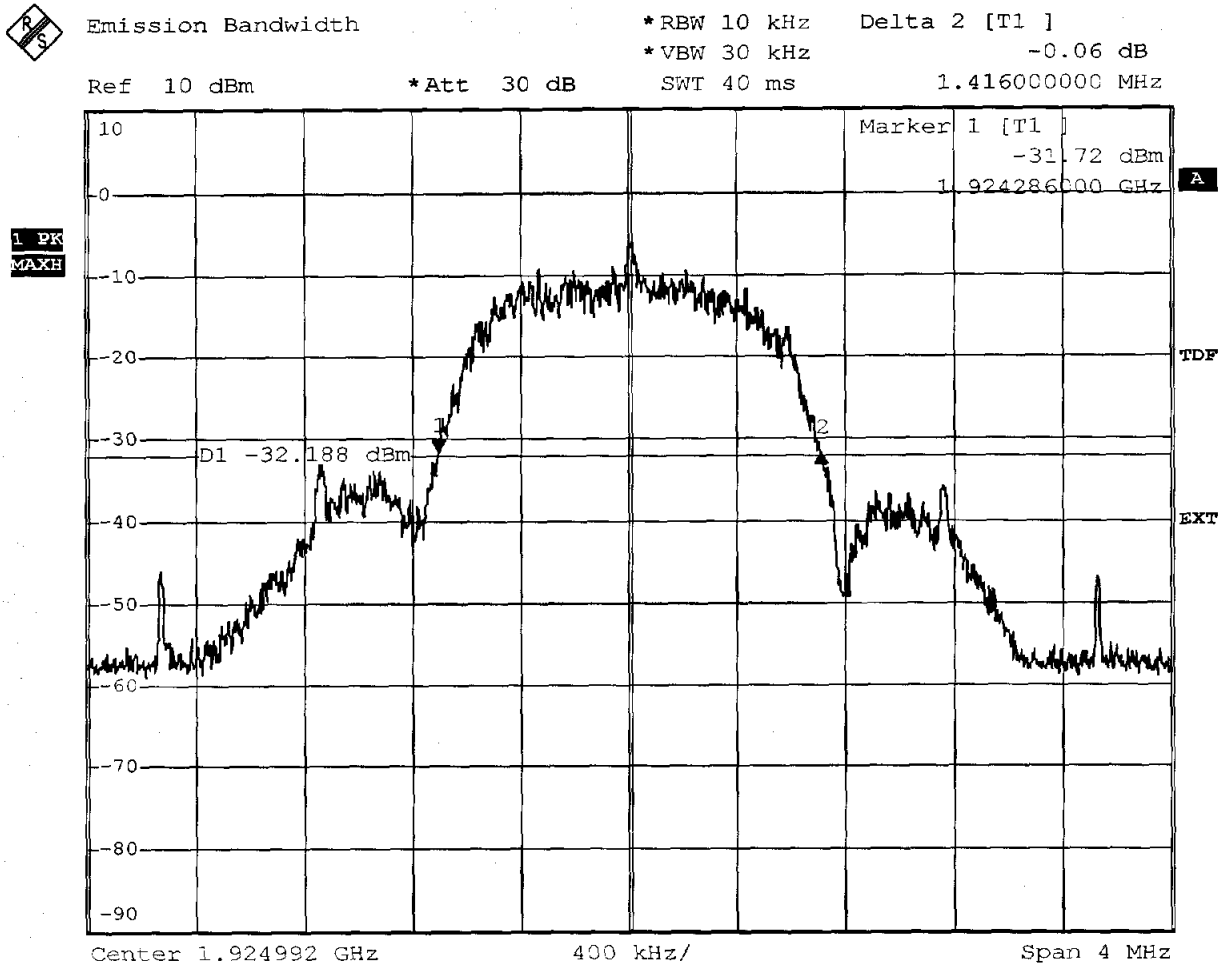
Lower frequency : 1920.966MHz
Higher frequency : 1922.136MHz

Measurement diagram

FCC Part 15.303(b) Emission bandwidth

Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.3
 UPCS

EUT	Mid range UPCS handset
Model	DT292
Applicant	Ascom Tateco AB
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth
Measured Bandwidth	Emission Bandwidth = 1.42MHz
Max. Permitted BW	Limit = 2.5 MHz
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.3
 Date: 31.AUG.2005 10:02:11

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 : 1924.586MHz
Higher frequency : 1925.43MHz

-12 dB points

Lower frequency : 1924.418MHz
Higher frequency : 1925.59MHz

Measurement diagram

FCC Part 15.303(b) Emission bandwidth

Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.3
 UPCS

EUT Mid range UPCS handset
 Model DT292
 Applicant Ascom Tateco AB
 Temperature 23°C
 Test Site / Operator ETS Reichenwalde
 Test Specification 6.1.3 Emission bandwidth

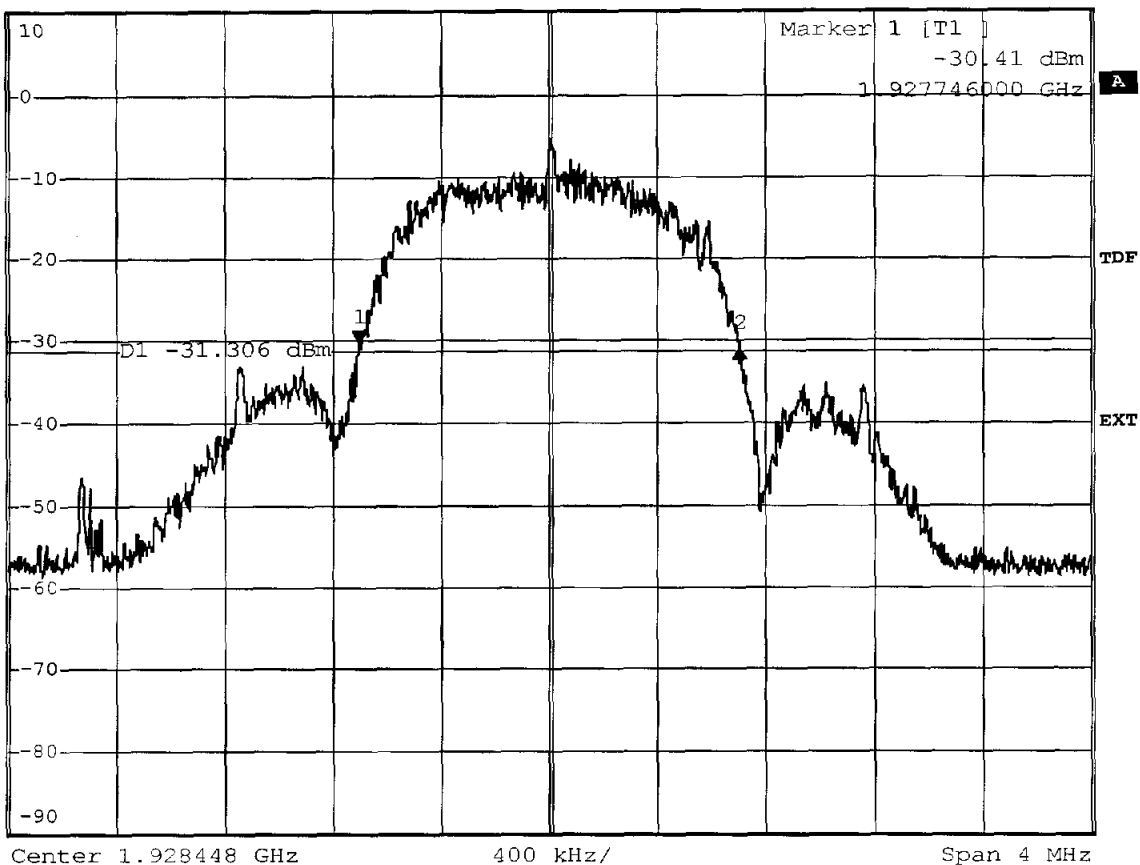
Measured Bandwidth Emission Bandwidth = 1.41MHz
 Max. Permitted BW Limit = 2.5 MHz

Test result Verdict = PASS



Emission Bandwidth

*RBW 10 kHz Delta 2 [T1]
 *VBW 30 kHz -0.59 dB
 Ref 10 dBm *Att 30 dB SWT 40 ms 1.406000000 MHz



Comment: Ansi C63.17-1998 6.1.3
 Date: 31.AUG.2005 10:04:38

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 : 1928.04MHz
Higher frequency : 1928.762MHz

-12 dB points

Lower frequency : 1927.876MHz
Higher frequency : 1929.042MHz

Measurement diagram



Appendix G

Peak Transmit Power



FCC Part 15.319(c) Peak Transmit Power limit

Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.2 UPCS

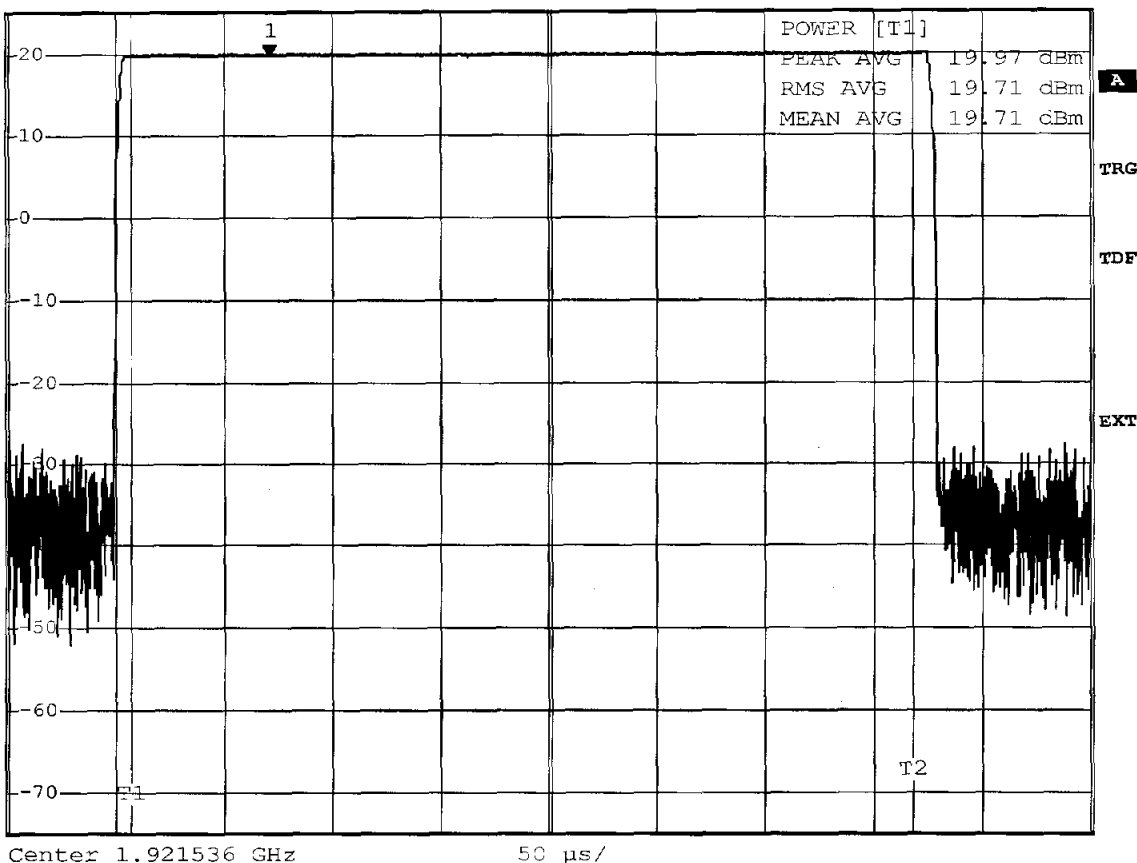
EUT Mid range UPCS handset
 Model DT292
 Applicant Ascom Tateco AB
 Temperat. / Voltage 23°C
 Test Site / Operator ETS Reichenwalde
 Test Specification 6.1.2 Peak transmit power

Measured Bandwidth 1.434MHz
 Max. Permitted Power 20,78 dBm
 Measured Power 19,97 dBm
 Test result Verdict = PASS



Peak transmit power RBW 3 MHz Marker 1 [T1] 19.65 dBm
 *VBW 10 MHz 71.000000 µs
 Ref 25 dBm *Att 40 dB SWT 500 µs

1 SA
 CLRWR



Comment: Ansi C63.17-1998 6.1.2
 Date: 31.AUG.2005 12:35:30

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

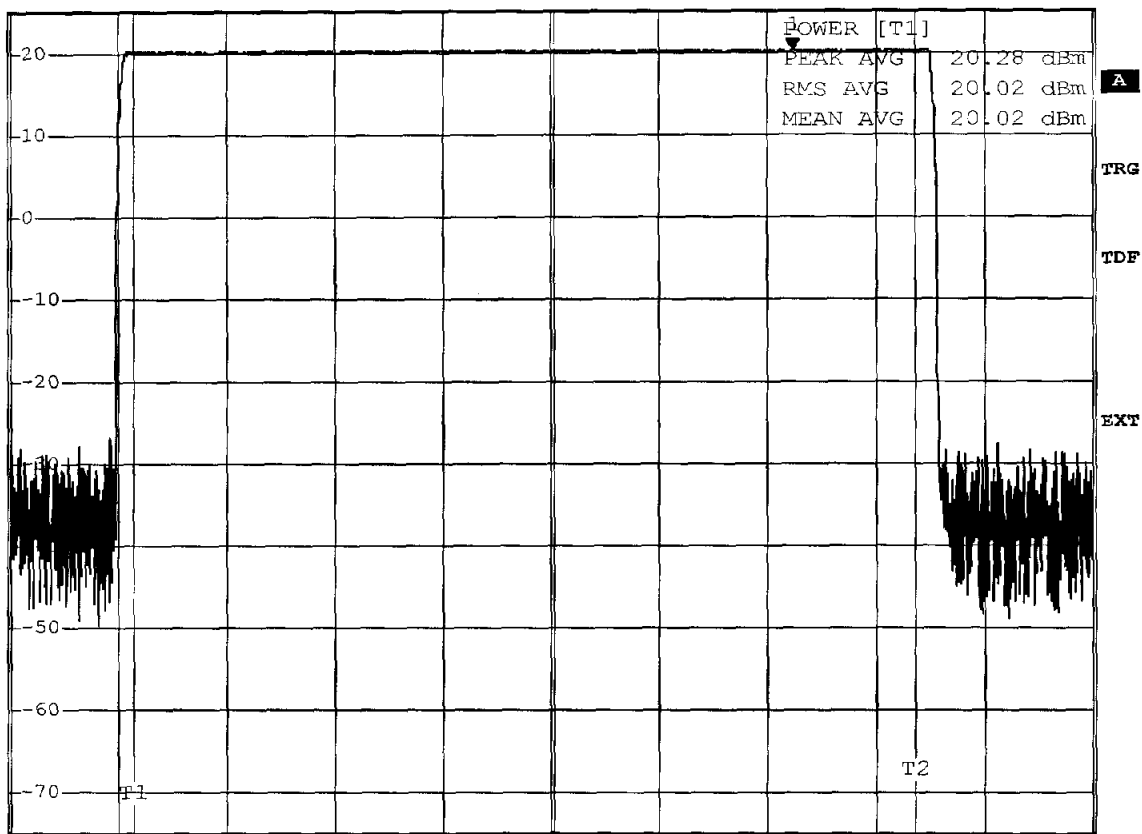
Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.2
 UPCS

EUT Mid range UPCS handset
 Model DT292
 Applicant Ascom Tateco AB
 Temperat. / Voltage 23°C
 Test Site / Operator ETS Reichenwalde
 Test Specification 6.1.2 Peak transmit power

Measured Bandwidth 1.434MHz
 Max. Permitted Power 20,78 dBm
 Measured Power 20,28 dBm
 Test result Verdict = PASS



Peak transmit power RBW 3 MHz Marker 1 [T1] 20.06 dBm
 *VBW 10 MHz 312.250000 µs
 Ref 25 dBm *Att 40 dB SWT 500 µs



Center 1.924992 GHz 50 µs/

Comment: Ansi C63.17-1998 6.1.2
 Date: 31.AUG.2005 13:21:13

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

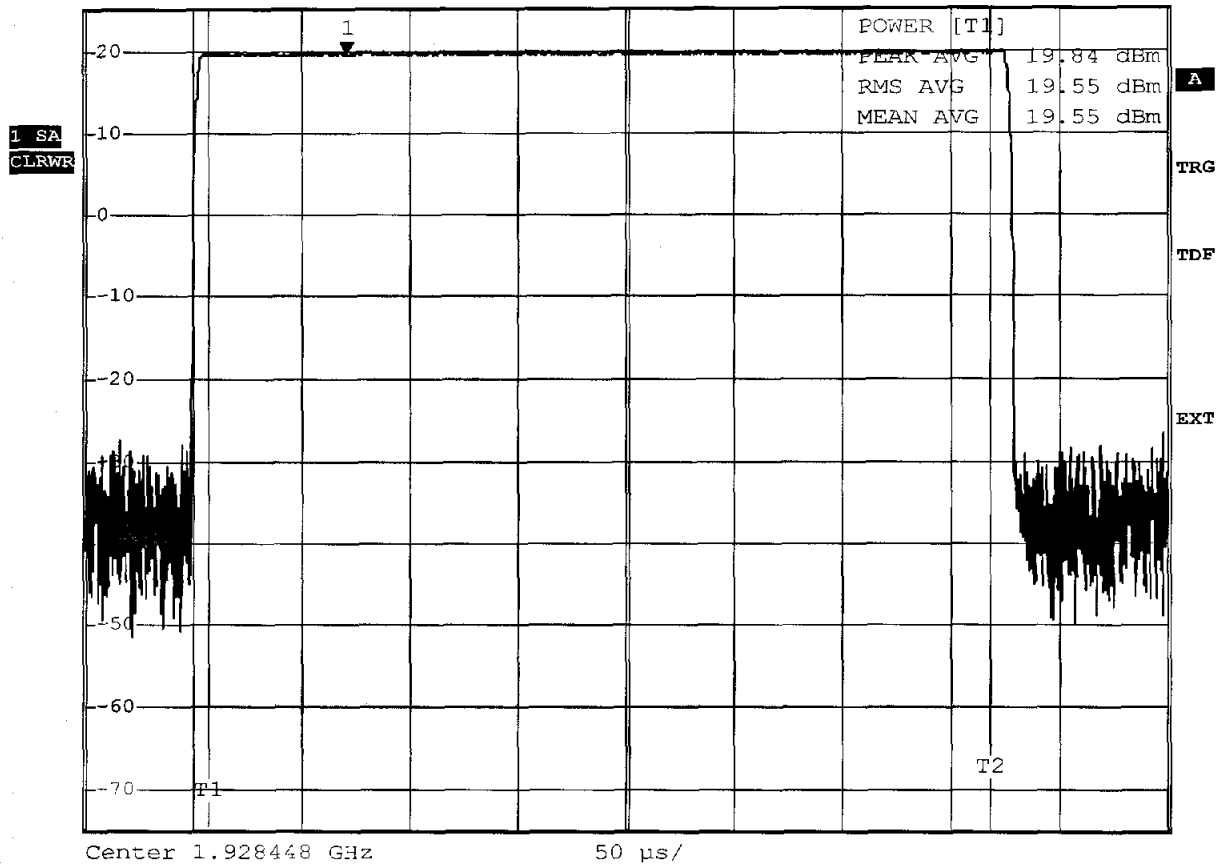
Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.2
 UPCS

EUT Mid range UPCS handset
 Model DT292
 Applicant Ascom Tateco AB
 Temperat. / Voltage 23°C
 Test Site / Operator ETS Reichenwalde
 Test Specification 6.1.2 Peak transmit power

Measured Bandwidth 1.434MHz
 Max. Permitted Power 20,78 dBm
 Measured Power 19,84 dBm
 Test result Verdict = PASS



Peak transmit power RBW 3 MHz Marker 1 [T1] 19.55 dBm
 *VBW 10 MHz 71.000000 µs
 Ref 25 dBm *Att 40 dB SWT 500 µs



Comment: Ansi C63.17-1998 6.1.2
 Date: 31.AUG.2005 12:39:38

Measurement diagram



Appendix H

Power spectral density



FCC Part 15.319(d) Power spectral density

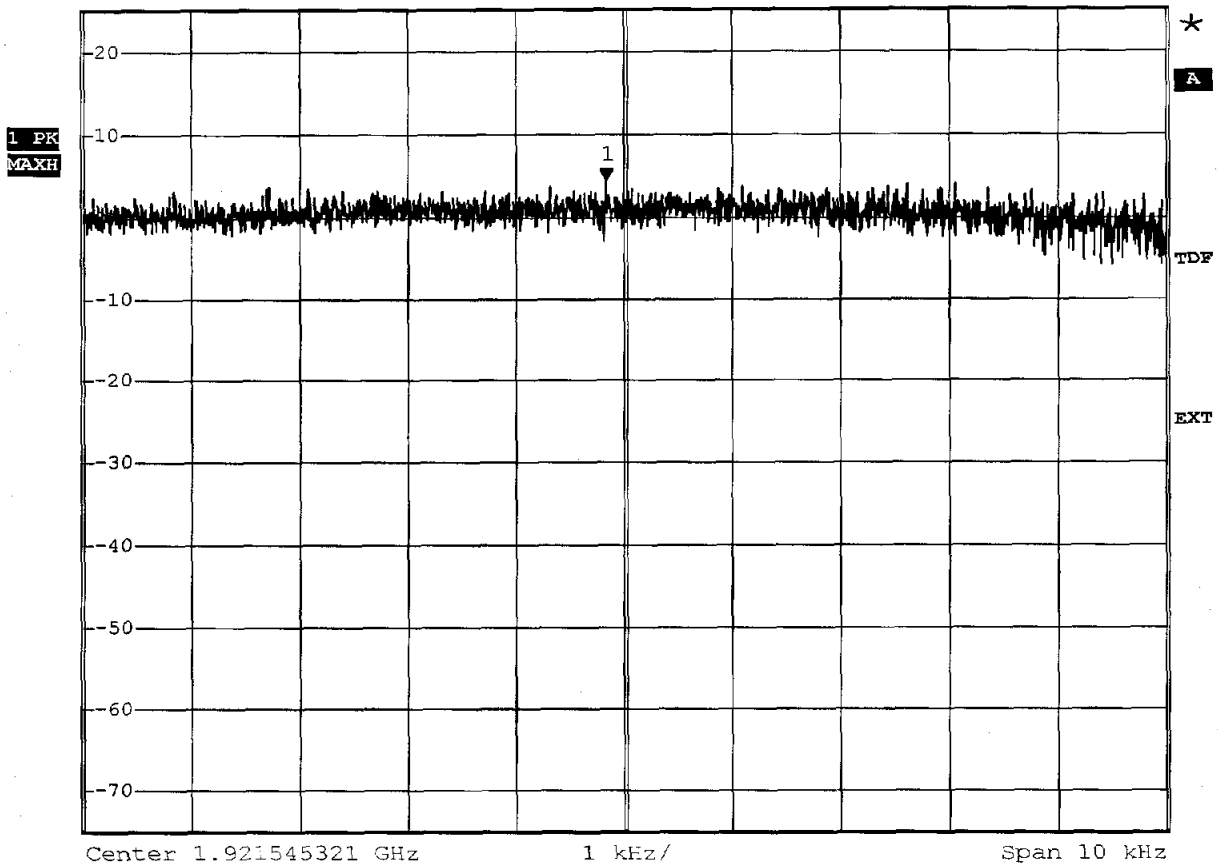
**Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.5
UPCS**

EUT	Mid range UPCS handset
Model	DT292
Applicant	Ascom Tateco AB
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	4.384 dBm
Value in mW	2.744mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Power Spectral Densit *RBW 3 kHz Marker 1 [T1]
 Ref 25 dBm *Att 40 dB *VSW 3 kHz 4.38 dBm
 *SWT 23 s 1.921545166 GHz



Comment: Ansi C63.17-1998 6.1.5
 Date: 31.AUG.2005 13:07:48

Measurement diagram

FCC Part 15.319(d) Power spectral density

Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.5
 UPCS

EUT	Mid range UPCS handset
Model	DT292
Applicant	Ascom Tateco AB
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Test step 1 initial condition



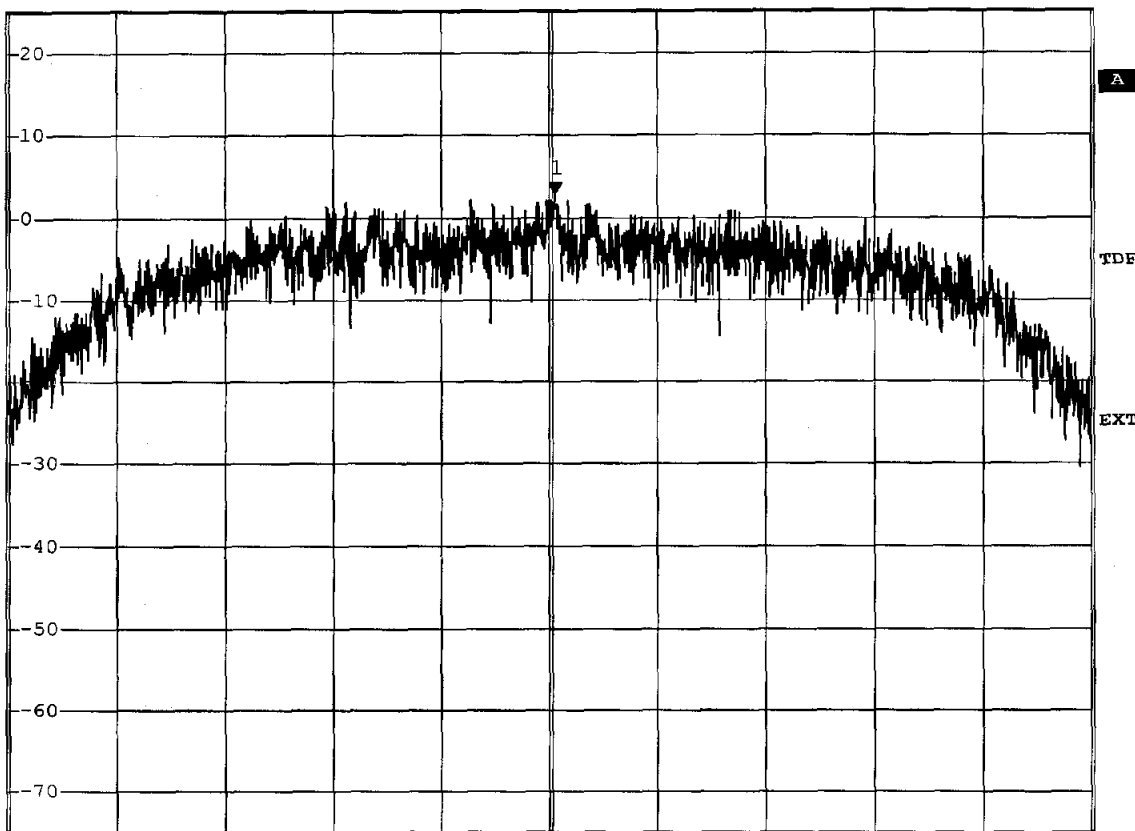
Power Spectral Densit

*RBW 3 kHz Marker 1 [T1]
 *VBW 3 kHz 2.94 dBm
 *SWT 23 s 1.921545321 GHz

Ref 25 dBm

*Att 40 dB

1 PK
 MAXH



Center 1.921536 GHz

143.4 kHz/

Span 1.434 MHz

Comment: Ansi C63.17-1998 6.1.5
 Date: 31.AUG.2005 13:07:13

Measurement diagram



FCC Part 15.319(d) Power spectral density

**Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.5
UPCS**

EUT	Mid range UPCS handset
Model	DT292
Applicant	Ascom Tateco AB
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	1.936 dBm
Value in mW	1.562mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



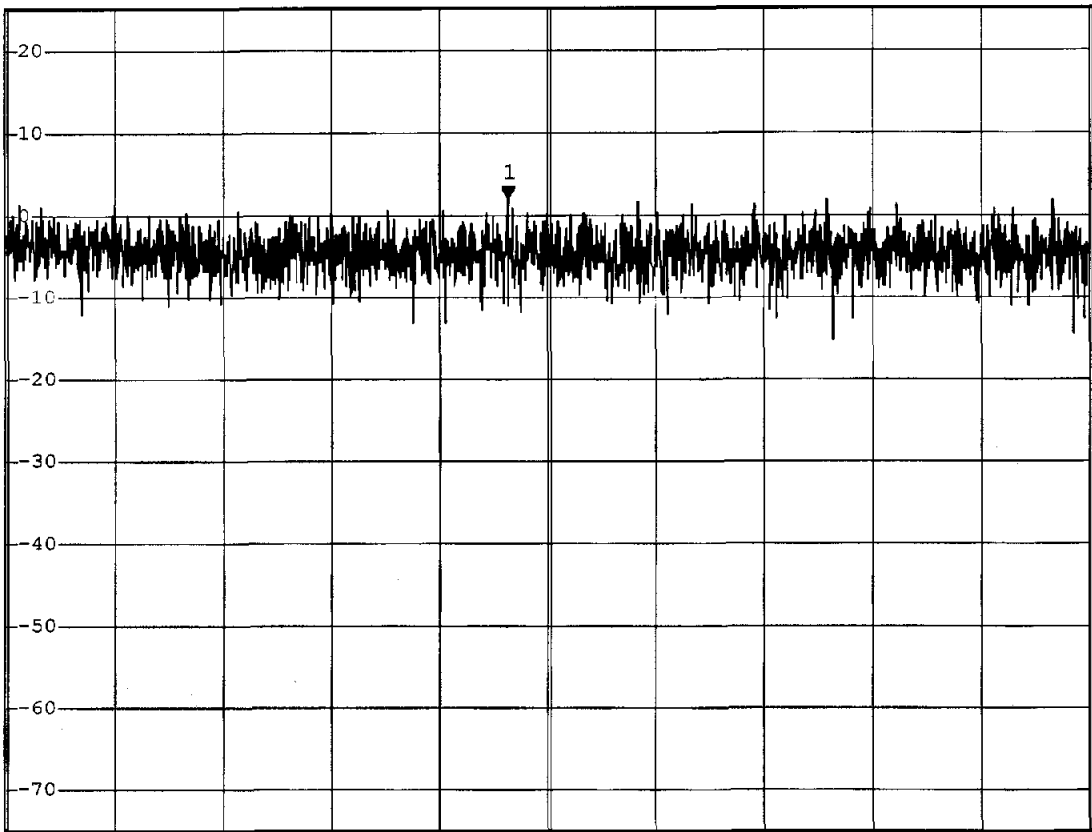
Power Spectral Densit

*RBW 3 kHz Marker 1 [T1]
 *VBW 3 kHz 1.94 dBm
 *SWT 23 s 1.925269831 GHz

Ref 25 dBm

*Att 40 dB

1 PK
MAXH



Center 1.925270196 GHz 1 kHz/ Span 10 kHz

Comment: Ansi C63.17-1998 6.1.5
 Date: 31.AUG.2005 13:10:57

Measurement diagram

FCC Part 15.319(d) Power spectral density

Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.5
UPCS

EUT	Mid range UPCS handset
Model	DT292
Applicant	Ascom Tateco AB
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Test step 1 initial condition



Power Spectral Densit

*RBW 3 kHz

Marker 1 [T1]

*VBW 3 kHz

3.31 dBm

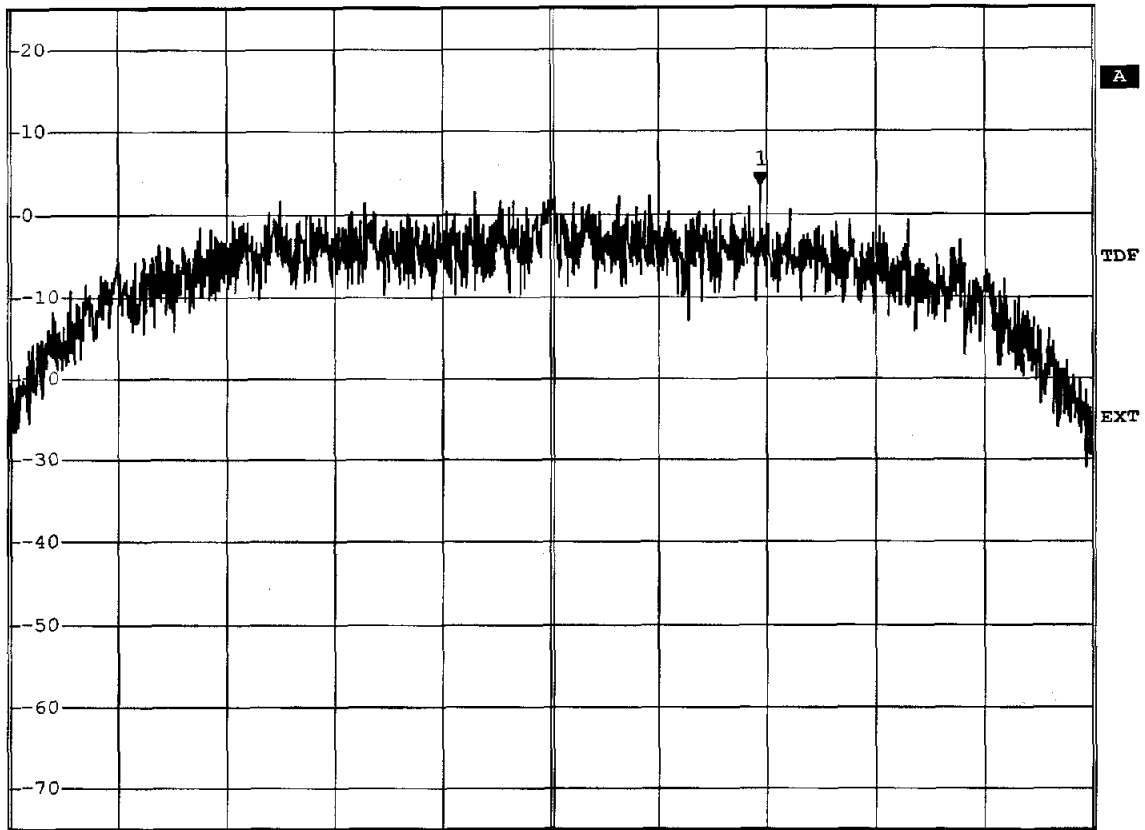
Ref 25 dBm

*Att 40 dB

*SWT 23 s

1.925270196 GHz

1 PK
MAXH



Center 1.924992 GHz

143.4 kHz/

Span 1.434 MHz

Comment: Ansi C63.17-1998 6.1.5
Date: 31.AUG.2005 13:10:05

Measurement diagram

FCC Part 15.319(d) Power spectral density

Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.5
 UPCS

EUT	Mid range UPCS handset
Model	DT292
Applicant	Ascom Tateco AB
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	2.898 dBm
Value in mW	1.949mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



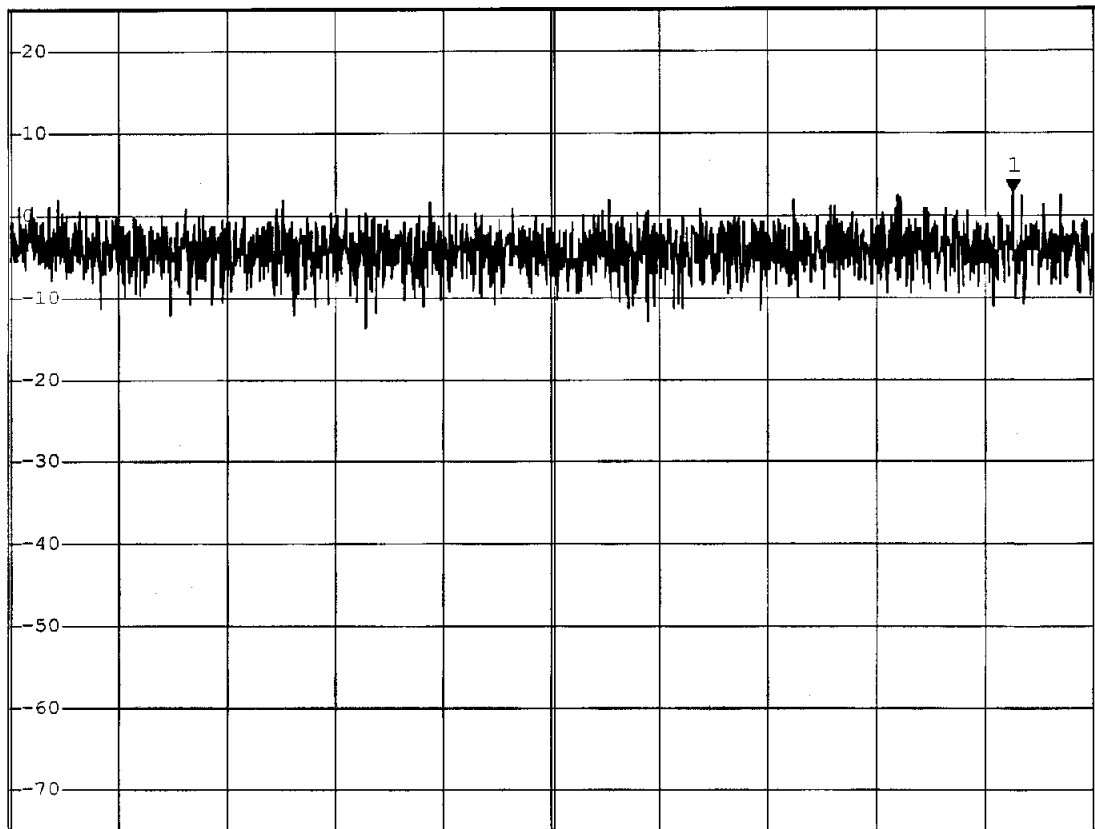
Power Spectral Densit

*RBW 3 kHz Marker 1 [T1]
 *VBW 3 kHz 2.90 dBm
 *SWT 23 s 1.928594221 GHz

Ref 25 dBm

*Att 40 dB

1 PK
 MAXH



Center 1.92859966 GHz

1 kHz/

Span 10 kHz

Comment: Ansi C63.17-1998 6.1.5
 Date: 31.AUG.2005 13:15:40

Measurement diagram

FCC Part 15.319(d) Power spectral density

Test procedure Rev. Draft 1.1 ANSI 63.17-1998 6.1.5
UPCS

EUT	Mid range UPCS handset
Model	DT292
Applicant	Ascom Tateco AB
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Test step I initial condition



Power Spectral Densit

*RBW 3 kHz

Marker 1 [T1]

*VBW 3 kHz

2.06 dBm

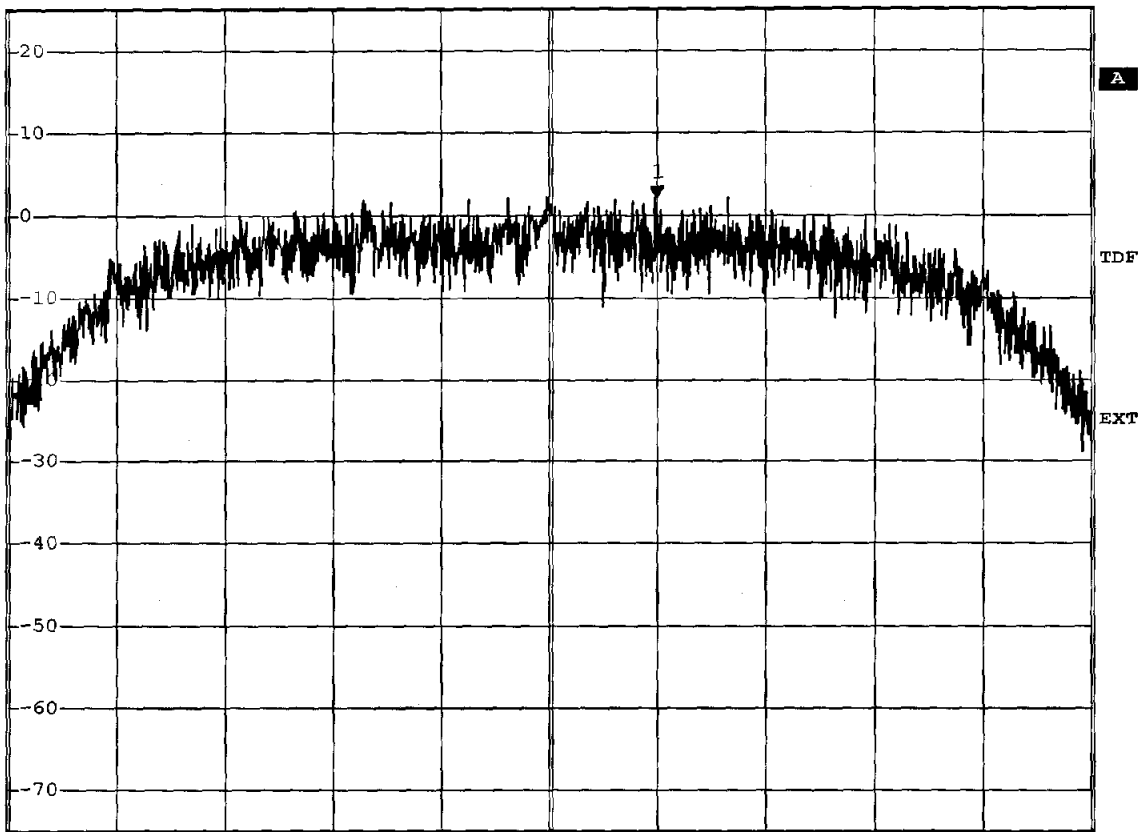
Ref 25 dBm

*Att 40 dB

*SWT 23 s

1.928589966 GHz

1 PK
MAXH



Center 1.928448 GHz

143.4 kHz/

Span 1.434 MHz

Comment: Ansi C63.17-1998 6.1.5
Date: 31.AUG.2005 13:14:49

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_7.3.2.1.2_least_interfered_channel
 Date 02.09.2005 14:33:48
 Reference to the EUT G0M20506-9558 / DT292
 Comment: 7.3.2.1.2_a
 Mid range UPCS handset
 Ascom Tateco AB

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	
00:31:01.5000000	-80,7 -90,7	-56,5 -79,9	-81,7 -90,6	-81,6 -90,6	-81,3 -90,6	No interference
00:31:10.5312500	-55,6 -56,1	-51,4 -55,9	-55,4 -55,9	-61,8 -62,8	-68,2 -69,9	Interference on
00:31:29.7500000	-55,6 -56	-55 -56	-54,1 -55,9	-44,2 -61,5	-17,1 -37,9	Ok 1
00:31:34.8593750	-55,6 -56	-55,4 -55,8	-55,4 -55,8	-62 -62,8	-68,2 -69,9	
00:31:42.9843750	-55,6 -56,1	-55,1 -56	-52,7 -55,9	-44,1 -61,6	-16,5 -37,7	Ok 2
00:31:47.7187500	-55,6 -56	-55,5 -55,8	-55,4 -55,8	-62 -62,8	-62 -69,9	
00:31:55.2031250	-55,6 -56,1	-54,6 -56	-51,5 -55,9	-39,9 -61,3	-16,8 -36,7	Ok 3
00:32:00.5000000	-55,6 -56	-55,4 -55,8	-55,4 -55,8	-62 -62,8	-56 -69,6	
00:32:08.0781250	-55,6 -56,2	-54,7 -56	-54,5 -55,9	-45,5 -61,7	-16,8 -37,1	Ok 4
00:32:14.1250000	-55,6 -56	-55,4 -55,8	-55,4 -55,8	-62 -62,8	-56,6 -69,7	
00:32:20.0468750	-55,6 -56,1	-54,4 -56	-53,9 -55,9	-45,1 -61,7	-16,8 -36,5	Ok 5

Log file

Test case Rev. Draft 1.1 ANSI_7.3.2.1.2_least_interfered_channel
 Date 02.09.2005 14:40:45
 Reference to the EUT G0M20506-9558 / DT292
 Comment: 7.3.2.1.2_b
 Mid range UPCS handset
 Ascom Tateco AB

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

Time stamp	1921.536	1923.264	1924.992	1926.720	1928.448	Comment
	MHZ	MHz	MHz	MHz	MHz	
	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	
00:35:31.1875000	-81 -90,9	-81,4 -90,9	-82 -90,8	-80,5 -90,8	-61 -83,9	No interference
00:35:37.6250000	-55,6 -56,1	-55,4 -56	-55,4 -55,9	-67,8 -69,9	-55,4 -62,9	Interference on
00:37:50.5625000	-54,8 -57,1	-51 -57	-43,5 -56,6	-16,9 -37,5	-43,4 -63	
00:38:00.9843750	-56,5 -56,9	-56,3 -56,8	-56,4 -56,7	-46,7 -67,6	-62,9 -63,9	
00:38:08.8437500	-55,4 -57,1	-50,8 -57	-42,9 -56,5	-16,6 -36,7	-41,1 -62,6	
00:38:17.6406250	-56,5 -56,9	-56,4 -56,8	-56,3 -56,7	-46,7 -67,9	-63 -63,9	
00:38:38.9687500	-54,5 -57,1	-50,6 -57	-44,3 -56,6	-16,9 -37,1	-44,5 -63	
00:38:43.6250000	-56,5 -57	-56,4 -56,8	-56,4 -56,8	-56,8 -70,5	-63 -63,9	
00:38:51.2187500	-54,9 -57,1	-51,5 -57	-39,1 -56,3	-16,8 -37,8	-47,1 -62,9	
00:38:57.3281250	-56,5 -56,9	-56,3 -56,8	-56,3 -56,8	-58,1 -70,6	-62,9 -63,9	
00:39:03.5468750	-56,1 -57,1	-55,6 -57	-40,3 -56,5	-16,6 -36,9	-40,5 -62,6	

Log file

Test case Rev. Draft 1.1 ANSI_7.3.2.1.2_least_interfered_channel
 Date 02.09.2005 14:46:53
 Reference to the EUT G0M20506-9558 / DT292
 Comment: 7.3.2.1.2_c
 Mid range UPCS handset
 Ascocom Tateco AB

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

Time stamp	1921.536	1923.264	1924.992	1926.720	1928.448	Comment
	MHZ	MHz	MHz	MHz	MHz	
	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	
00:41:56.7968750	-79,7 -90,8	-81,7 -90,7	-81,3 -90,6	-76,5 -90,4	-81 -90,5	No interference
00:42:01.1875000	-55,5 -55,9	-55,5 -55,8	-55,4 -55,8	-64,1 -69,9	-73,2 -76,8	Interference on
00:42:19.0312500	-54,6 -56,1	-55,3 -56	-54,1 -55,9	-44,9 -65,5	-16,7 -36,3	OK 1
00:42:23.3125000	-55,6 -56,1	-55,5 -55,8	-55,4 -55,8	-68 -69,9	-60,7 -76,2	
00:42:29.7031250	-55,1 -56	-55 -56	-51,4 -55,9	-45,4 -65,8	-16,7 -37,2	OK 2
00:42:33.7187500	-55,6 -56	-55,4 -55,8	-55,4 -55,8	-68 -69,9	-47,4 -70,6	
00:42:38.9218750	-55,5 -56,1	-53,5 -56	-52,8 -55,9	-41,5 -65,1	-16,9 -37	OK 3
00:42:42.8125000	-55,5 -56,1	-55,4 -55,8	-55,4 -55,8	-68,1 -69,8	-61,2 -76,4	
00:45:01.0625000	-56 -57,1	-56 -56,9	-51,5 -56,9	-44,6 -65,3	-16,8 -37,3	OK 4
00:45:04.7968750	-56,6 -56,9	-56,3 -56,8	-56,4 -56,8	-68,2 -69,9	-56,8 -75,5	
00:45:11.9218750	-56,2 -57	-55,3 -56,9	-55,3 -56,9	-45,1 -65	-16,3 -36,5	OK 5

Log file

Test case Rev. Draft 1.1 ANSI_7.3.2.1.2_least_interfered_channel
 Date 02.09.2005 14:50:49
 Reference to the EUT G0M20506-9558 / DT292
 Comment: 7.3.2.1.2_d
 Mid range UPCS handset
 Ascom Tateco AB

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	
00:48:19.4531250	-81,3 -90,8	-81,7 -90,6	-80,4 -91,1	-81,4 -90,9	-77 -90,5	No interference
00:48:26.1562500	-55,6 -55,9	-55,4 -55,8	-55,3 -55,8	-73,2 -76,7	-66,3 -69,9	Interference on
00:48:48.3125000	-55,3 -56	-54,7 -55,9	-45,1 -55,6	-16,4 -36,9	-45,7 -66,4	Ok 1
00:48:52.7812500	-55,6 -56	-55,5 -55,8	-55,4 -55,8	-46,9 -69,8	-68,1 -69,9	
00:48:58.3593750	-54 -56	-53,3 -56	-40,8 -55,6	-16,6 -37,5	-39,5 -65,5	Ok 2
00:49:03.2812500	-55,5 -56	-55,5 -56	-55,4 -55,8	-58,1 -75,7	-67,9 -70	
00:49:09.1093750	-55,4 -56,1	-54,4 -56	-39,6 -55,5	-16,7 -36,1	-39,3 -65,4	Ok 3
00:49:12.6562500	-55,6 -56	-55,5 -55,8	-55,4 -55,8	-47,2 -69,9	-68,4 -70	
00:49:17.4843750	-55,3 -56,1	-54,7 -56	-38,8 -55,6	-16,5 -37,1	-41,6 -66,2	Ok 4
00:49:21.4062500	-55,6 -56	-55,5 -55,8	-55,4 -55,8	-56,8 -75,4	-68,2 -69,9	
00:49:26.2500000	-55,5 -56,1	-53,7 -55,9	-44,3 -55,6	-16,3 -36,7	-47,8 -66,7	Ok 5

Log file

Test case Rev. Draft 1.1 ANSI_7.3.1.1.3_upper_theshold
 Date 02.09.2005 14:10:35
 Reference to the EUT G0M20506-9558 / DT292
 Comment: initial setup
 Mid range UPCS handset
 Ascom Tateco AB

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	
00:00:08.9062500	-82,1 -90,8	-81,4 -90,6	-60,9 -83,8	-81,2 -90,8	-81,3 -90,9	No Interference
00:00:23.7968750	-52,1 -52,4	-52 -52,2	-51,9 -52,2	-51,9 -52,2	-52 -52,3	-52.4 dBm
00:00:46.0468750	-53,1 -53,4	-53 -53,2	-52,9 -53,2	-52,9 -53,2	-53 -53,3	-53.4 dBm
00:00:58.9375000	-54,1 -54,5	-53,9 -54,4	-53,8 -54,2	-53,9 -54,2	-54 -54,3	-54.4 dBm
00:01:16.1250000	-55 -55,4	-54,9 -55,3	-50 -55,2	-54,8 -55,3	-55 -55,4	-55.4 dBm
00:01:31.8593750	-56 -56,5	-55,9 -56,4	-50,8 -56,3	-55,9 -56,3	-56 -56,4	-56.4 dBm
00:01:48.6718750	-57 -57,4	-56,9 -57,3	-52 -57,2	-56,9 -57,3	-56,9 -57,3	-57.4 dBm
00:02:02.7187500	-57,8 -58,3	-57,8 -58,3	-52,5 -58,2	-57,8 -58,3	-57,8 -58,4	-58.4 dBm
00:02:45.6093750	-58,8 -59,3	-58,7 -59,3	-53,1 -59,2	-58,8 -59,3	-58,8 -59,4	-59.4 dBm
00:03:10.7500000	-59,8 -60,3	-59,6 -60,3	-52,4 -60,2	-59,6 -60,3	-59,7 -60,4	-60.4 dBm
00:03:48.3593750	-44,2 -60,5	-16,7 -36,2	-42,5 -60,8	-56 -61,3	-57,5 -61,4	Upper threshold @ -61,4 dBm

Log file



Appendix L

Monitoring of intended transmit window and maximum reaction time

Test case

Rev. Draft 1.1 ANSI_7.5_reaction_time_high_ch

Date 10.06.2005 10:10:15

Reference to the EUT

DT292

Comment:

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

Time stamp	1921.536	1923.264	1924.992	1926.720	1928.448	Comment
	MHz	MHz	MHz	MHz	MHz	
	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	
00:58:05.5781250	-61,2 -61,8	-61,2 -61,9	-83,2 -92,1	-61,7 -62,3	-53,1 -72,8	no interference
00:58:13.6406250	-53,3 -61,9	-41,9 -60	-18,3 -38,1	-39,9 -61,5	-43,8 -66,2	connection
00:58:26.1875000	-61,2 -61,8	-61,1 -61,8	-42,6 -60,6	-61,7 -62,4	-57,1 -73,7	50 μ s
00:58:38.8281250	-61,2 -61,8	-61,2 -61,8	-52,8 -61,7	-61,7 -62,4	-57 -73,6	no connection
00:59:13.9687500	-61,1 -61,8	-61,2 -61,8	-42,6 -60,5	-61,7 -62,4	-52,8 -72,3	35 μ s
00:59:22.2968750	-61 -61,8	-61,2 -61,8	-53 -61,7	-61,7 -62,4	-52,7 -72,2	no connection
01:00:03.9062500	-61,2 -61,9	-61,1 -62	-47,2 -61,5	-61,3 -62	-61,9 -62,6	75 μ s on start of slot
01:00:16.1718750	-61,2 -61,9	-61,2 -61,9	-47,1 -61,6	-61,2 -62	-61,9 -62,6	no connection
01:01:07.6718750	-61,2 -61,9	-61,1 -62	-46,6 -61,1	-61,3 -62,1	-61,8 -62,6	75 μ s on midd. of slot
01:01:18.3906250	-61,1 -61,8	-61,2 -61,9	-42,4 -60,1	-61,3 -62	-61,9 -62,6	no connection
01:01:59.4843750	-61,2 -61,9	-61,2 -61,9	-45,8 -60,5	-61,3 -61,9	-61,9 -62,6	75 μ s on end of slot
01:02:10.6562500	-61,2 -61,8	-61,2 -61,9	-47 -60,6	-61,3 -62	-61,8 -62,6	no connection

Log file

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

Test case Rev. Draft 1.1 ANSI_7.5_reaction_time
 Date 10.06.2005 09:40:15
 Reference to the EUT DT292
 Comment: channel low

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	
02:58:41.5781250	-65,1 -79,7	-49,8 -61,7	-51,3 -62,4	-59,8 -62,8	-60,6 -63,7	No interference
02:58:51.0625000	-29,5 -46,8	-17 -32,9	-29,1 -46,4	-41 -59,9	-52,6 -63,6	Test connection
02:59:05.0625000	-52,4 -69,2	-57,4 -62,1	-59,3 -62,5	-59,8 -62,8	-60,6 -63,7	50 μ s
02:59:21.1875000	-39,4 -59,7	-52,2 -62	-59,2 -62,6	-59,4 -62,9	-60,4 -63,7	No connection
03:00:22.3593750	-38,5 -56,6	-51 -61,9	-60,1 -62,5	-59,2 -62,8	-60,4 -63,7	35 μ s
03:00:29.7031250	-39,8 -57,2	-52,2 -62	-59,8 -62,5	-59,6 -62,8	-60,6 -63,7	No connection
03:01:19.2968750	-39,8 -57,8	-52,1 -62	-59,8 -62,5	-59,6 -62,8	-60,6 -63,7	75 μ s start of slot
03:01:31.8281250	-51,1 -59,9	-57,3 -62	-59,7 -62,5	-59,4 -62,8	-60,6 -63,7	No connection
03:02:13.4062500	-39,1 -56,2	-52,2 -61,9	-59,1 -62,5	-59,8 -62,8	-60,4 -63,7	75 μ s middle of slot
03:02:21.3750000	-37,9 -55,8	-50,4 -62	-59,2 -62,5	-59,7 -62,9	-60,7 -63,7	No connection
03:02:33.5064500	-39,1 -56,2	-52,2 -61,9	-59,1 -62,5	-59,8 -62,8	-60,4 -63,7	75 μ s end of slot
03:02:55.6788000	-37,9 -55,8	-50,4 -62	-59,2 -62,5	-59,7 -62,9	-60,7 -63,7	No connection

Log file

Test case

Rev. Draft 1.1 ANSI_7.5_reaction_time_mid_ch

Date 10.06.2005 10:44:21

Reference to the EUT

DT292

Comment:

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	
01:47:41.4062500	-60,5 -80	-71,8 -81,1	-72,3 -81,1	-70,9 -81,1	-72,1 -81,1	no interference
01:47:56.3750000	-71,5 -81,1	-59,3 -80,9	-38,2 -60,6	-14,6 -36,3	-33,5 -56	Test connection
01:48:53.9375000	-59,7 -61,8	-59,7 -61,8	-54,7 -58,5	-59,6 -61,9	-60,4 -62,5	50 μ s
01:49:02.9062500	-59,8 -61,8	-59,7 -61,8	-54,9 -58,5	-55,1 -61,9	-60,3 -62,5	no connection
01:50:06.5312500	-59,6 -61,9	-59,2 -61,8	-49,2 -52,8	-59,6 -61,9	-60,2 -62,5	35 μ s
01:50:17.0312500	-59,7 -61,8	-55,1 -61,8	-49,2 -52,8	-59,2 -62	-60,4 -62,6	no connection
01:51:09.7500000	-59,7 -61,8	-54,6 -61,8	-45,5 -56,9	-59,9 -62	-60,1 -62,5	75 μ s on start of slot
01:51:19.9062500	-59,1 -61,8	-59,1 -61,8	-45,4 -56,9	-59,3 -61,9	-60,3 -62,5	no connection
01:52:04.1562500	-59,8 -61,8	-56,8 -61,8	-45,5 -56,9	-59,2 -61,9	-60,2 -62,5	75 μ s on midd. of slot
01:52:20.9687500	-59,5 -61,8	-54,6 -61,8	-45,5 -56,9	-59,5 -61,9	-60,4 -62,6	no connection
01:55:52.5781250	-59,8 -61,8	-53,6 -61,8	-45,4 -53,4	-59,1 -61,9	-60,2 -62,5	75 μ s on end of slot
01:56:01.0156250	-59,6 -61,8	-58,4 -61,8	-45,4 -53,4	-59,3 -61,9	-60,4 -62,6	no connection

Log file



Appendix M

Monitoring band width

Test case DT292
 Date 10.06.2005 09:05:44
 Reference to the EUT RTX3055
 Comment: ANSI_7.4.1_monitoring_bandwidth

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	
00:12:17.2968750	-56,8 -58,4	-57,4 -61,7	-71,4 -81,1	-58,7 -61,9	-60,2 -62,5	No interference
00:12:42.3125000	-28,1 -49,6	-28,7 -49,4	-15,2 -37,1	-23,8 -46,5	-46,7 -61,7	connection
00:13:04.1718750	-56,8 -58,4	-58,4 -61,8	-39,1 -57,9	-58,4 -61,9	-60,3 -62,5	Low, -30%
00:13:18.4687500	-56,9 -58,5	-59,6 -61,7	-50,4 -61,5	-59,6 -61,9	-60 -62,5	No connection
00:14:14.7187500	-56,8 -58,3	-59,6 -61,8	-50,5 -61,6	-59,7 -61,9	-60,2 -62,5	Low, +30%
00:14:23.8906250	-56,7 -58,2	-58,1 -61,7	-38,9 -58	-58,8 -61,9	-60,1 -62,5	No connection
00:15:06.7343750	-59,4 -61,8	-58 -61,8	-38,8 -56,2	-58,9 -61,9	-60,2 -62,5	Midd., -30%
00:15:18.4062500	-59,8 -61,9	-59,6 -61,9	-49,7 -58,5	-59,8 -62	-60,2 -62,6	No connection
00:15:52.3593750	-71,4 -81,1	-71,3 -81	-28,3 -49,5	-14,9 -36,8	-23 -46,5	Midd., +30%
00:16:12.9375000	-59,6 -61,8	-59,3 -61,8	-55,4 -58,4	-39,2 -58,1	-60,1 -62,5	No connection
00:16:52.0625000	-59,3 -61,8	-50,3 -61,5	-59,5 -61,6	-59,8 -62,3	-57,4 -58,9	High, -30%
00:17:06.4687500	-59,7 -61,8	-50,5 -61,5	-59,2 -61,7	-60,2 -62,3	-57,2 -58,9	No connection
00:17:36.1875000	-59,8 -61,8	-59,5 -61,8	-59,6 -61,7	-60,1 -62,3	-57,4 -58,8	High, +30%
00:17:45.5468750	-59,7 -61,8	-50,4 -61,5	-59,4 -61,7	-60,2 -62,4	-57,2 -58,9	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
 Date 02.09.2005 07:08:05
 Reference to the EUT G0M20506-9559 / DT292
 Comment: initial setup
 Mid range UPCS handset
 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	
00:00:23.2031250	-59,9 -81,6	-16,6 -38,5	-58,4 -85,4	-73,1 -90,5	-80,7 -90,6	Connection ch 3
00:15:20.8593750	-59,9 -81,9	-17,5 -37,8	-59,2 -85,4	-74,5 -90,9	-80,6 -90,7	
00:30:20.8750000	-59,7 -81,7	-17,5 -37,6	-58,9 -85,5	-76,2 -90,6	-81,5 -90,8	
00:45:20.8281250	-17,5 -38,5	-59,3 -85,7	-75,9 -90,7	-82,2 -90,8	-81,9 -90,8	Connection ch 4
01:00:20.8281250	-60,4 -82	-18 -38,5	-59,6 -85,8	-75,9 -90,6	-81,5 -90,7	
01:15:20.8281250	-59,8 -81,8	-17,6 -38,5	-59,2 -85,8	-78,6 -90,5	-81,5 -90,6	Connection ch 3
01:30:20.8437500	-17,2 -38,6	-59,1 -85,7	-73,7 -90,6	-82 -90,7	-81,7 -90,8	
01:45:20.8593750	-17,2 -38,7	-59,5 -85,8	-74,9 -90,5	-81,4 -90,6	-81,6 -90,7	Connection ch 4
02:00:20.8437500	-16,4 -38	-59,3 -85,7	-75,6 -90,5	-80,9 -90,6	-81,5 -90,7	
02:15:20.8125000	-17,6 -38,6	-58,9 -85,8	-74,7 -90,5	-81 -90,8	-81,5 -90,8	
02:30:20.8750000	-17,4 -38,5	-59,3 -85,8	-75,6 -90,4	-82,2 -90,9	-81,1 -90,7	
02:45:20.8906250	-60,4 -82,6	-15,3 -37,9	-59,8 -86,2	-73,9 -90,5	-80,7 -90,7	Connection ch 3
03:00:20.8906250	-59,4 -81,8	-16,7 -38,2	-59,7 -85,9	-74,6 -90,5	-80,7 -90,7	
03:15:20.8437500	-59,9 -82	-16,9 -38,7	-59,9 -85,4	-76,3 -90,6	-81 -90,5	
03:30:20.8437500	-59,9 -82,1	-17,5 -38,3	-60,2 -86,1	-75,4 -90,4	-81,8 -90,9	

Log file



03:45:20.8593750	-60,5 -82,8	-17,6 -38,8	-59,6 -85,8	-75 -90,6	-80,8 -90,7	
04:00:20.8750000	-81,4 -90,8	-75,2 -90,5	-59,8 -81,7	-17 -37,8	-59,2 -85,9	Connection ch 1
04:15:20.8906250	-81,9 -90,7	-73,5 -90,4	-60,1 -82,1	-17,7 -38,2	-60,3 -86	
04:30:20.8593750	-80,2 -90,7	-76 -90,5	-59,7 -82	-17,5 -36,8	-59,5 -85,3	
04:45:20.8281250	-80,5 -90,6	-74,2 -90,7	-60 -82	-17,5 -37,8	-59,9 -86,2	
05:00:20.8281250	-80,7 -90,7	-76,2 -90,6	-60 -81,9	-16,6 -37,8	-60,2 -86,1	
05:15:20.8906250	-79,8 -90,6	-73,8 -90,6	-59,9 -81,6	-17,6 -38,8	-60,3 -86	
05:30:20.8437500	-81,1 -90,7	-75,2 -90,7	-59,5 -82,1	-17,6 -38,8	-60 -86,3	
05:45:20.8437500	-81,5 -91	-74,3 -90,4	-60,1 -82,3	-17 -38,3	-60,9 -86,1	
06:00:20.8906250	-81,9 -90,8	-75,9 -90,6	-59,6 -81,9	-17,7 -38,6	-61,2 -86,3	
06:15:20.8281250	-80,4 -90,7	-76,6 -90,8	-59,8 -81,9	-17,1 -38,4	-62,2 -86,6	
06:30:20.8906250	-81,4 -90,9	-82,2 -90,8	-82,3 -90,8	-63,5 -85,9	-81,7 -90,8	Battery down

Log file



Appendix P

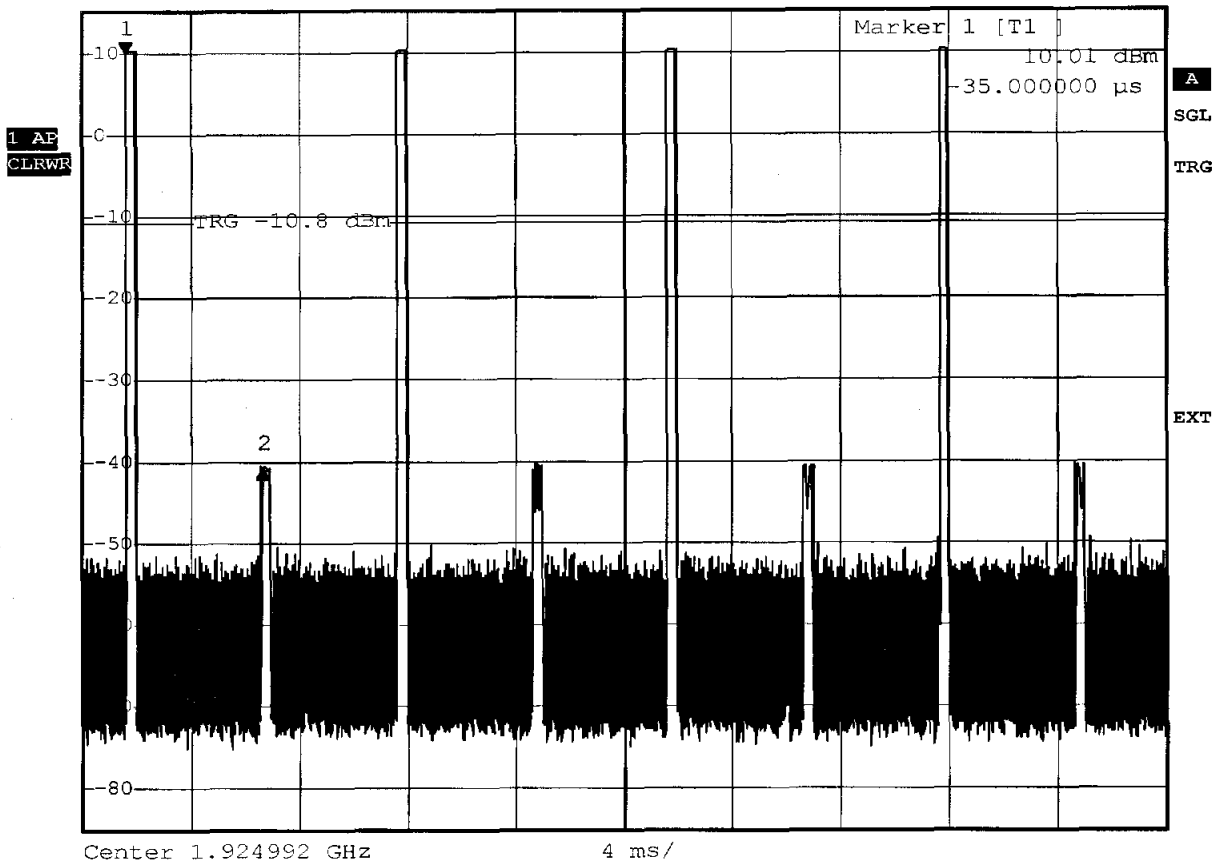
Connection acknowledgement

ANSI 8.2.1 Acknowledgments
1 sec. criteria

EUT	Mid range UPCS handset
Model	DT590
Applicant	RTX Telecom A/S
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 se.
Comment 3	verdict pass



DELTA MARKER 2		RBW 1 MHz	Delta 2 [T1]
5.04 ms		*VBW 1 MHz	-50.76 dB
Ref 15 dBm	*Att 30 dB	SWT 40 ms	5.040000 ms



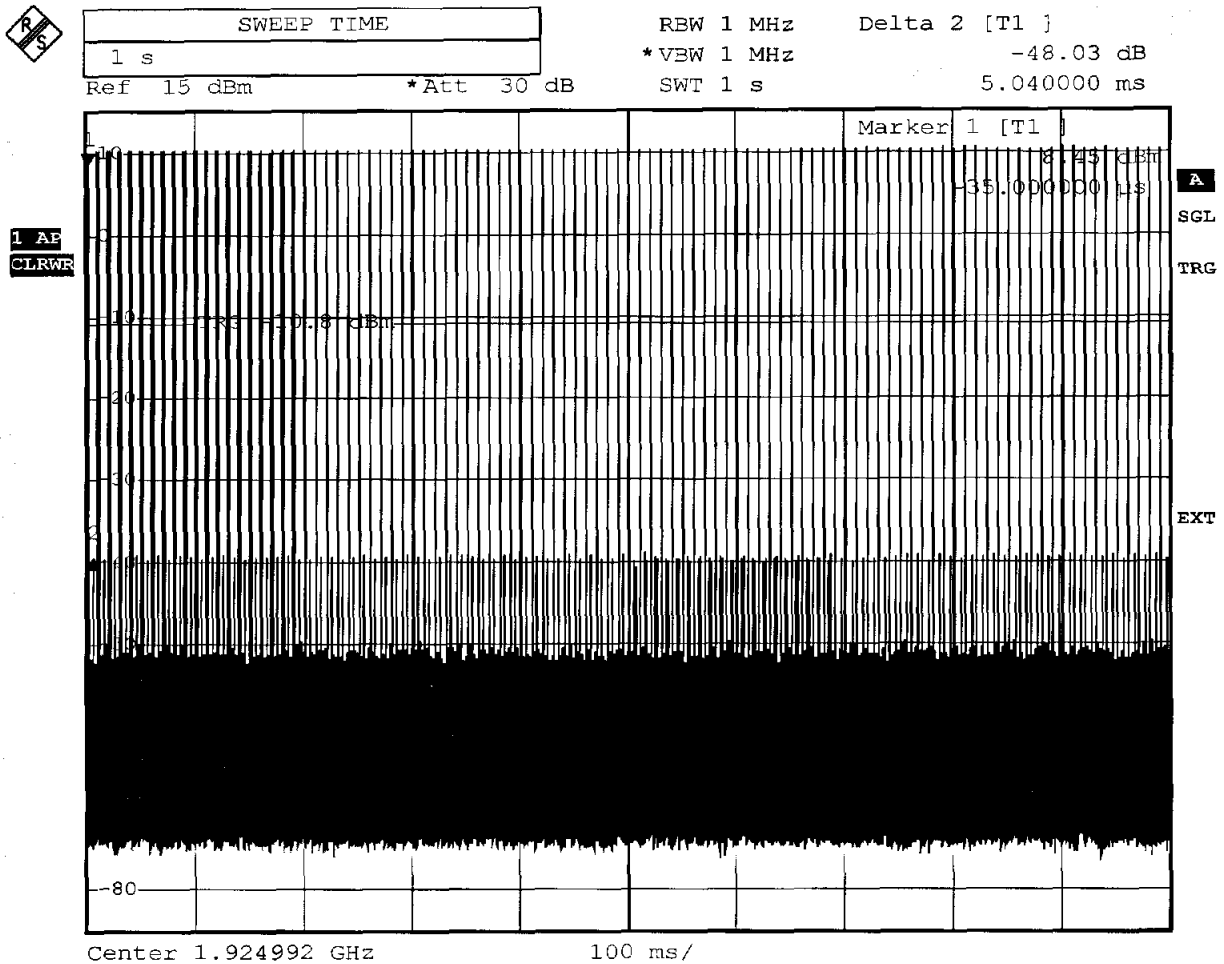
Comment: ANSI C63.17-1998
Date: 31.AUG.2005 15:12:48

Measurement diagram



ANSI 8.2.1 Acknowledgments
1 sec. criteria

EUT	Mid range UPCS handset
Model	DT590
Applicant	RTX Telecom A/S
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 se.
Comment 3	verdict pass



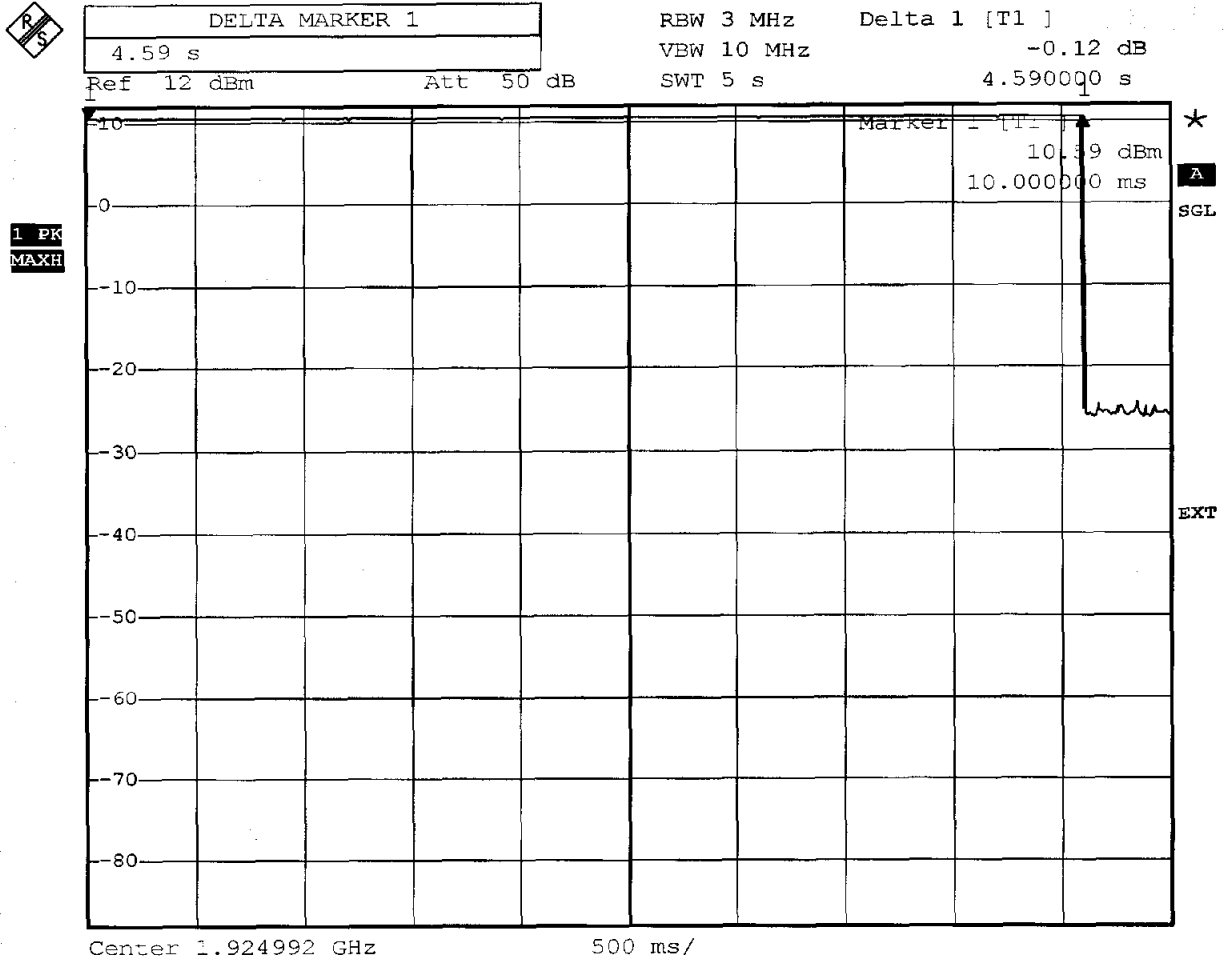
Comment: ANSI C63.17-1998
 Date: 31.AUG.2005 15:16:20

Measurement diagram



ANSI 8.2.1 Acknowledgments
30 sec. criteria

EUT	Mid range UPCS handset
Model	DT292
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	The EUT terminate its transmissions after 4.59 sec.
Comment 2	limit 30 se.
Comment 3	verdict pass



Comment: ANSI C63.17-1998
Date: 8.JUN.2005 11:12:13

Measurement diagram



Appendix Q

Selected channel confirmation, power accuracy, segment occupancy

Test case
confirmation

Rev. Draft 1.1 ANSI_7.3.1.2_selected channel

Reference to the EUT

Date 02.09.2005 15:07:09
G0M20506-9558 / DT292

Comment:

initial setup

Mid range UPCS handset
Ascom Tateco AB

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	
01:04:35.2968750	-81,3 -90,9	-81,6 -90,8	-80,8 -90,8	-54,9 -78,6	-81,2 -90,6	No interference
01:04:42.3593750	-55,6 -55,9	-55,4 -55,8	-55,4 -55,7	-54 -69,4	-62,1 -62,9	Interference on
01:05:09.6562500	-55,5 -55,9	-55,4 -55,9	-55,4 -55,9	-50,8 -68,8	-81,6 -91	f2 switch off
01:05:28.2968750	-55,5 -56,1	-55,3 -55,9	-51,4 -55,9	-46,4 -65,8	-16,7 -37,4	Connection @ f2
01:05:30.0468750	-55,6 -56,1	-53,4 -56	-39,9 -55,7	-16,4 -36,7	-39,5 -61,7	f2 switch on connection @ f1

Log file



Appendix R

Duplex connections

ANSI 8.2.3 Duplex connections

Rx slot : l.c.t + 6 dBm, Tx slot : l.c.t. + 13 dBm

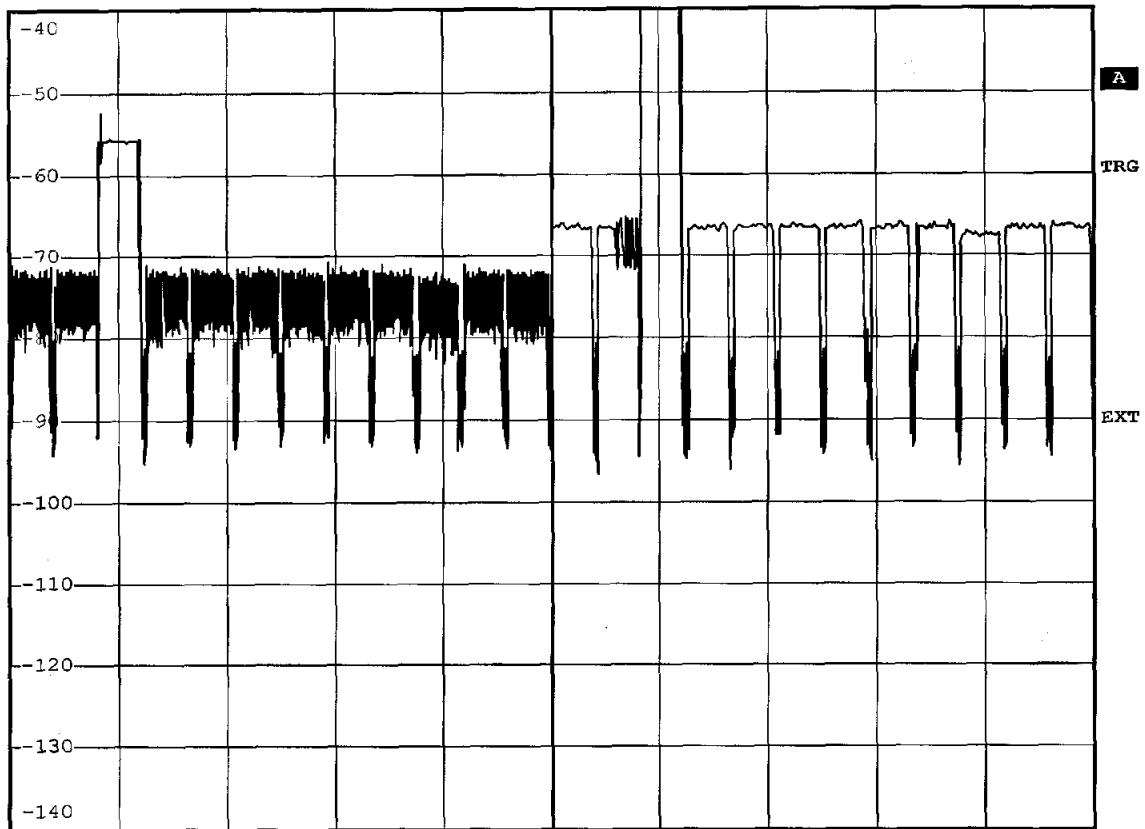
EUT	Mid range UPCS handset
Model	DT292
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	Connection established in the Interference free time slot
Comment 2	
Comment 3	verdict pass



RF ATTENUATION	
0 dB	
Ref -40 dBm	*Att 0 dB

RBW 1 MHz
 *VBW 1 MHz
 SWT 10 ms

1 AF
 CLRWR



Comment: 8.2.1. Duplex connections
 Date: 8.JUN.2005 11:34:36

Measurement diagram

ANSI 8.2.3 Duplex connections

Rx slot: l.c.t. +13 dB, Tx slot: l.c.t. +6 dB

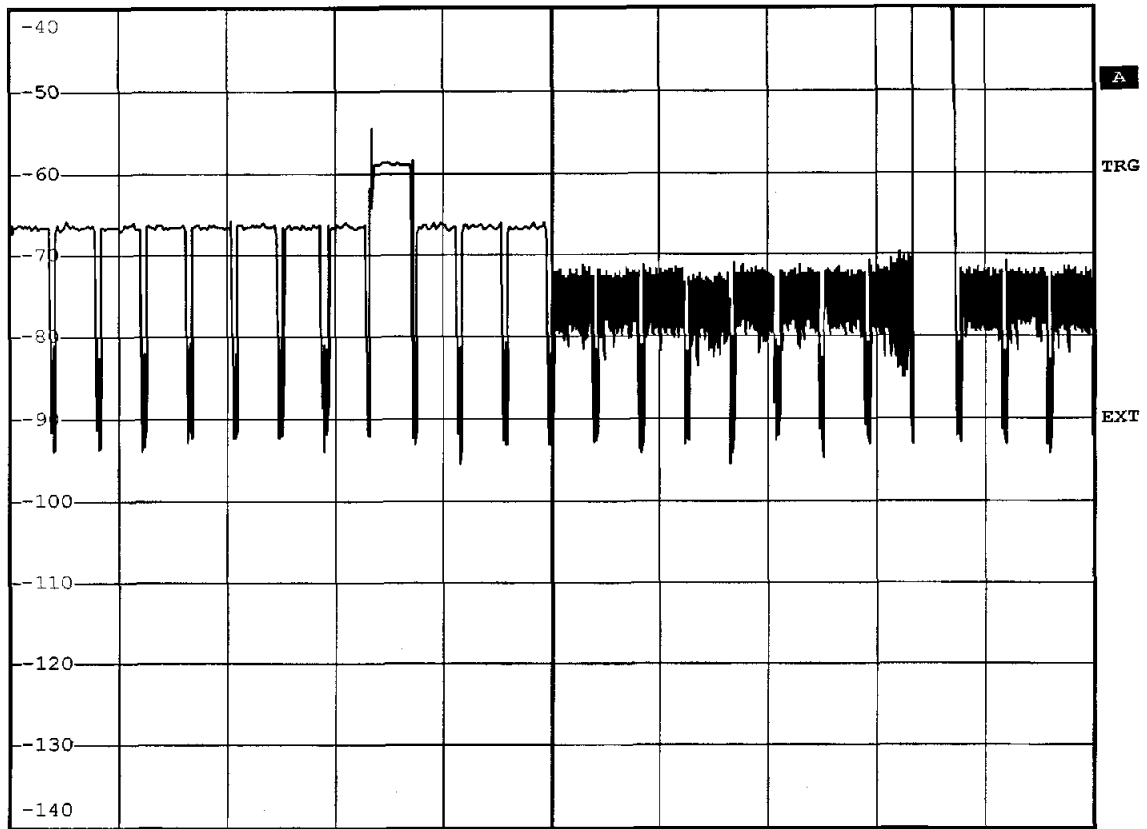
EUT	Mid range UPCS handset
Model	DT292
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	Connection established in the Interference free time slot
Comment 2	
Comment 3	verdict pass



RF ATTENUATION	
0 dB	
Ref -40 dBm	*Att 0 dB

RBW 1 MHz
 *VBW 1 MHz
 SWT 10 ms

1 AP
 CLRWR



Center 1.924992 GHz 1 ms/

Comment: 8.2.1._Duplex_connections
 Date: 8.JUN.2005 11:38:54

Measurement diagram

ANSI 8.2.3 Duplex connections

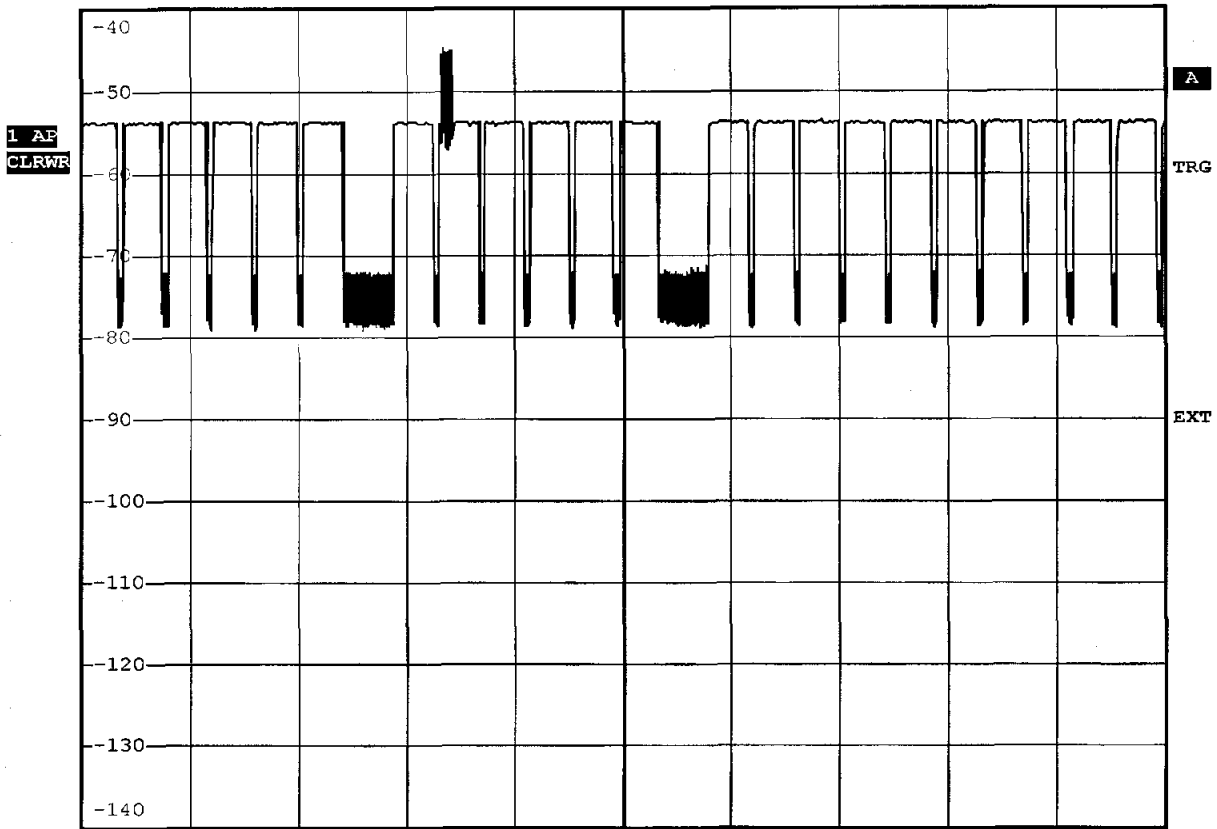
Rx slot: u.c.t +6dB, Tx slot: u.c.t +6dB,

EUT	Mid range UPCS handset
Model	DT292
Applicant	RTX Telecom A/S
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft 1.1
Comment 1	No connection established in the interference free time slot.
Comment 2	The slot pair are not a duplex slot pair.
Comment 3	No connection established, verdict pass



RF ATTENUATION	
0 dB	
Ref -40 dBm	*Att 0 dB

RBW 1 MHz
 *VBW 1 MHz
 SWT 10 ms



Center 1.924992 GHz 1 ms/

Comment: 8.2.1. Duplex connections
 Date: 8.JUN.2005 11:47:35

Measurement diagram