

Appendix B

Coordination with fixed microwave service

UTAM, Inc.

Affidavit of Participation

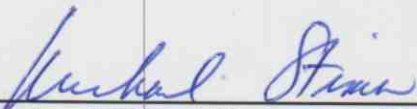
FCC Section 15.307(b) Affidavit

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

Quail Ltd.

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 6th day of September, 2006



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

Affidavit #: QUAIL090606

Appendix C

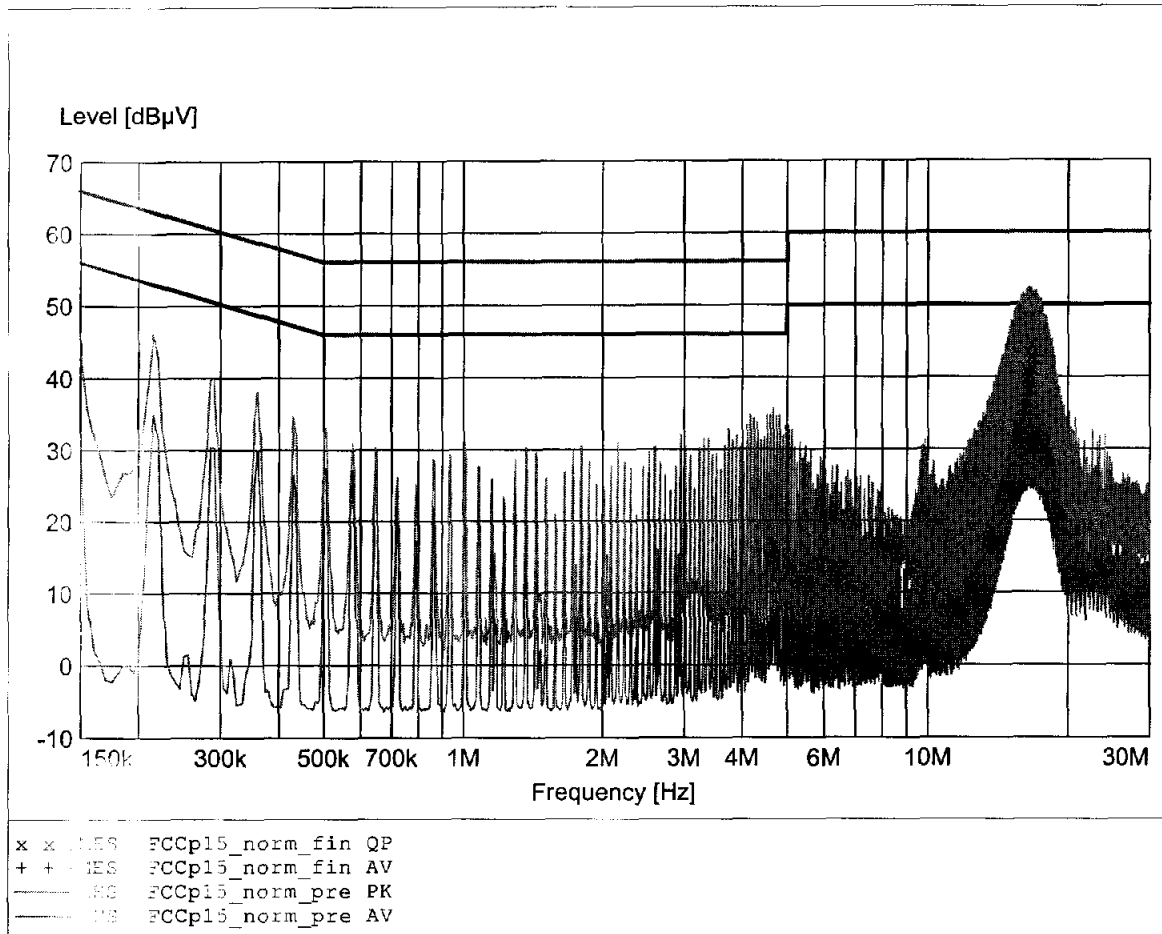
Reference to Subpart B

Appendix D

Conducted limits AC Power line

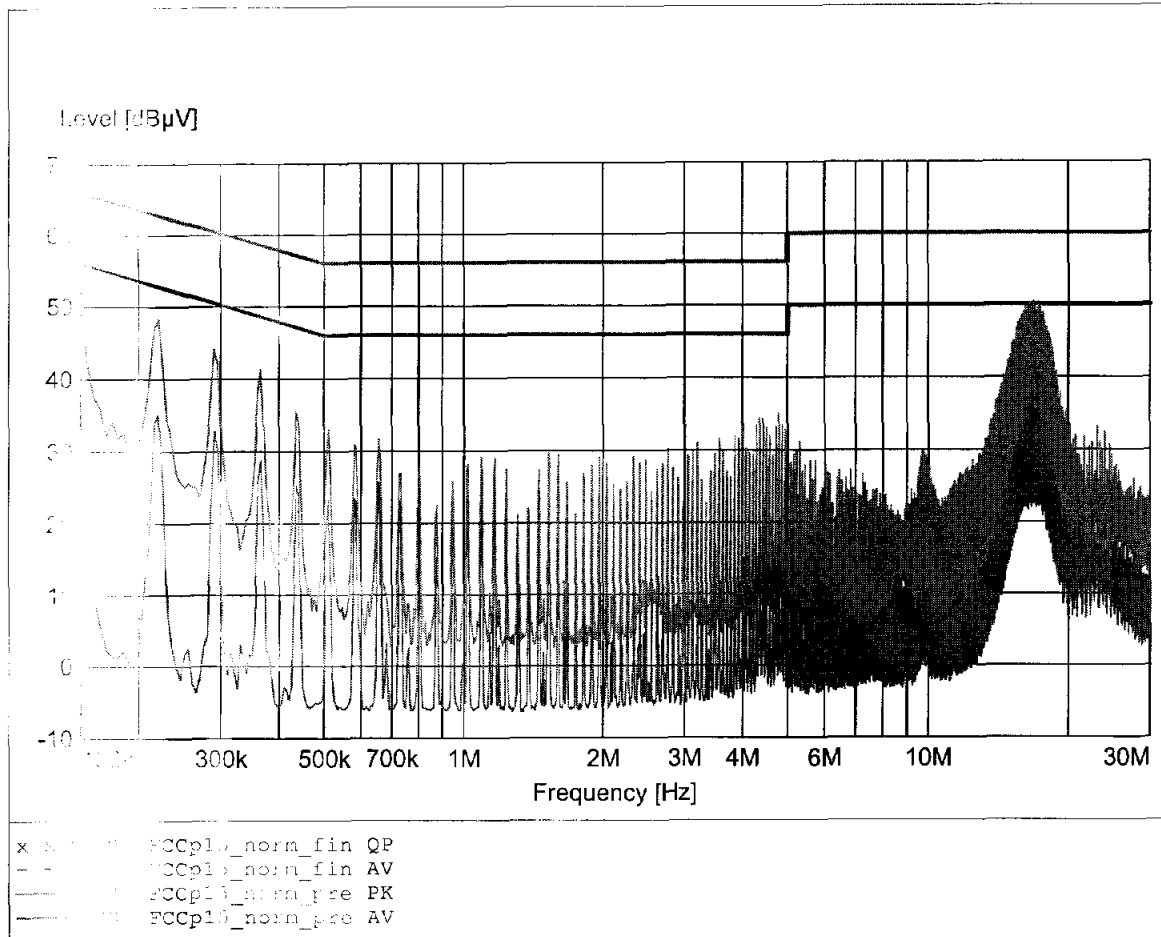
EMI voltage test in the ac-mains according to FCC part 15

EUT: QUAIL DIGITAL
Manufacturer: QUAIL LTD
Operating Condition: Unom: 120 V AC, Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: charger
mode: UPCS



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

EUT: QUAIL DIGITAL
Manufacturer: QUAIL LTD
Operating Condition: Unom: 120 V AC, Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: charger
mode: UPCS



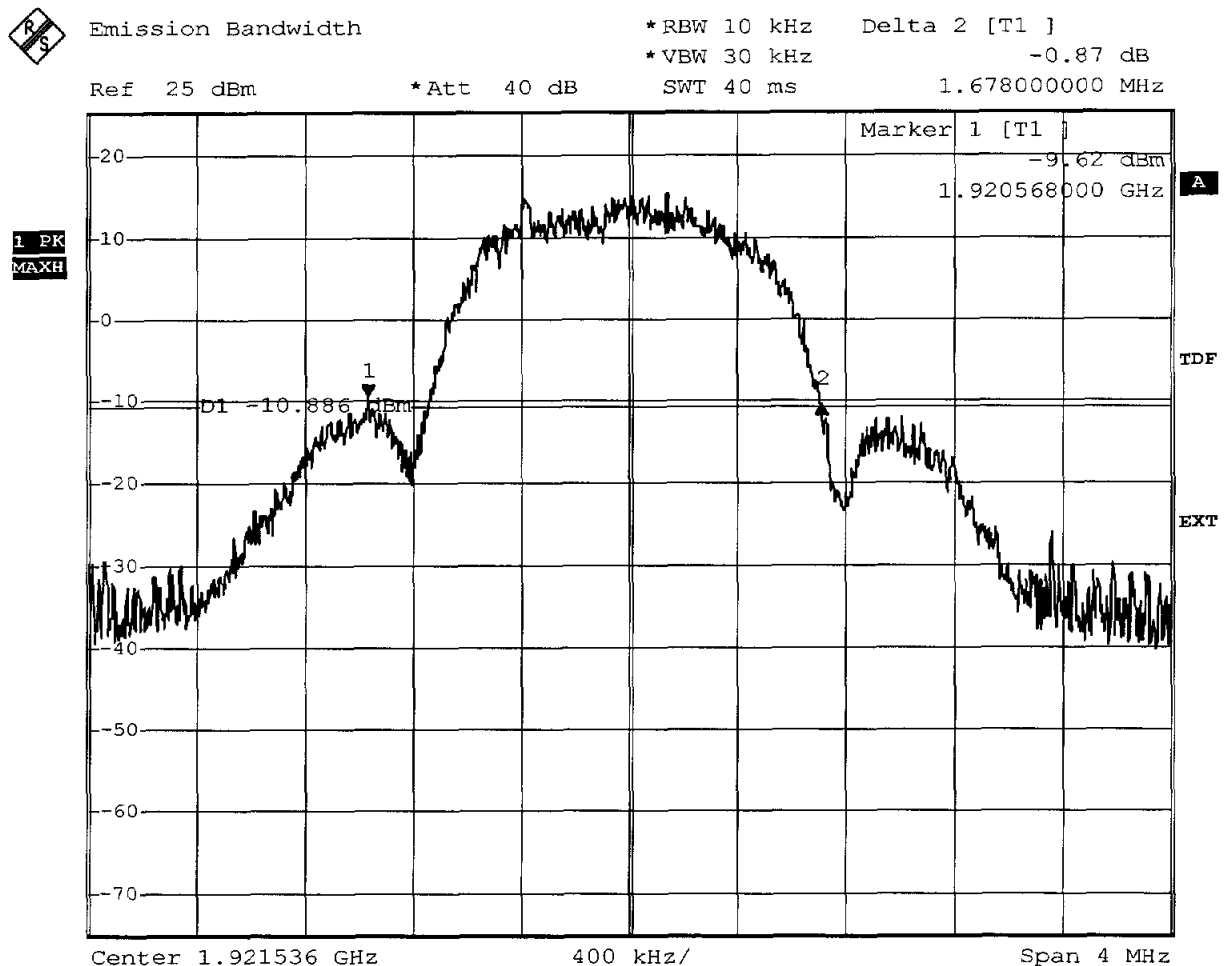
Appendix E

Emission bandwidth

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT	Quail Digital
Model	QD-BP6 (Portable Part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth
Measured Bandwidth	Emission Bandwidth = 1.678MHz
Max. Permitted Power	Limit = 2.5 MHz
Measured Power	
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.3
Date: 15.MAR.2006 13:16:29

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 : 1920.998MHz
Higher frequency : 1922.006MHz

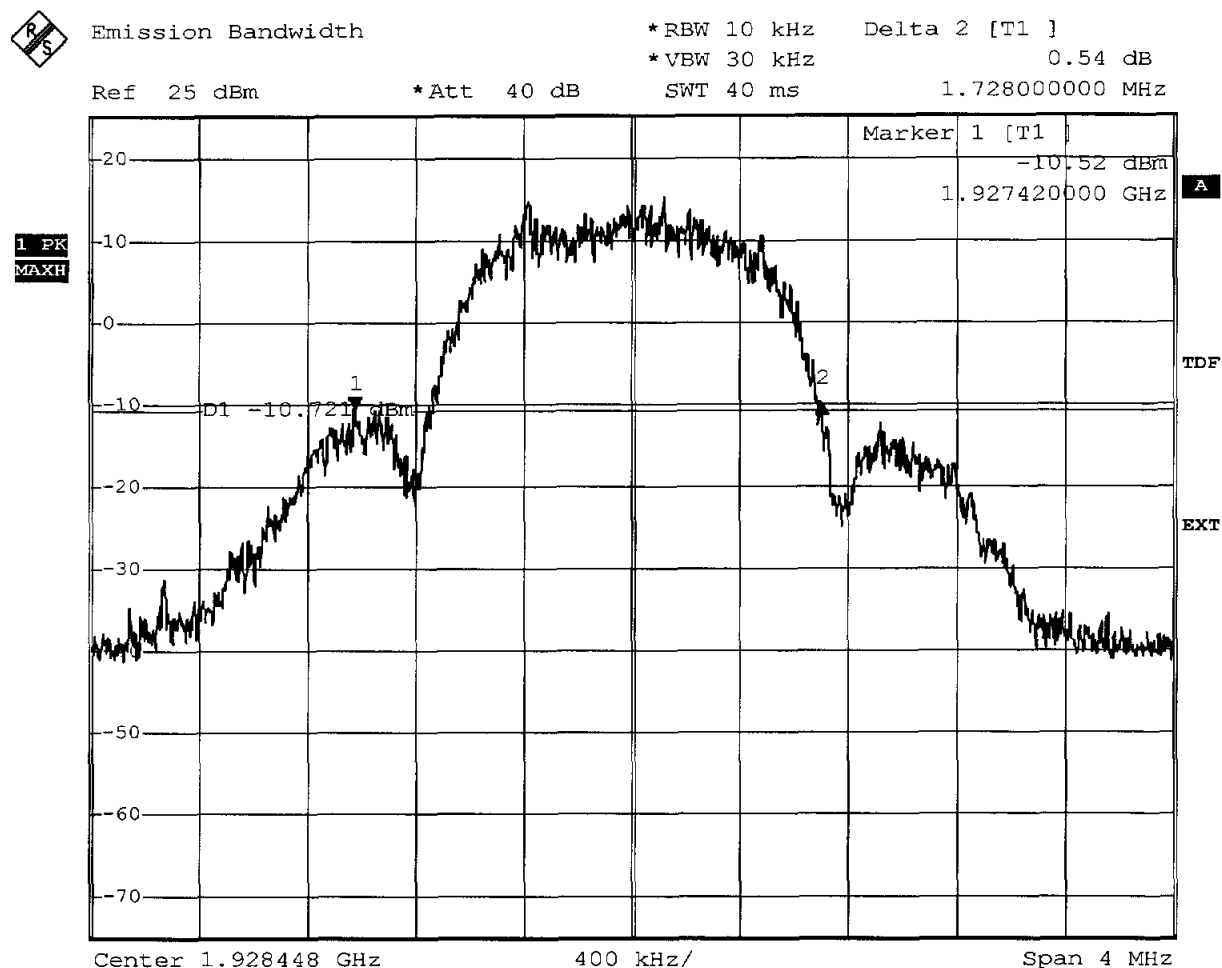
-12 dB points

Lower frequency : 1920.922MHz
Higher frequency : 1922.128MHz

FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-1998 6.1.3 UPCS

EUT	Quail Digital
Model	QD-BP6 (Portable Part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth
Measured Bandwidth	Emission Bandwidth = 1.728MHz
Max. Permitted Power	Limit = 2.5 MHz
Measured Power	
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.3
Date: 15.MAR.2006 13:11:46

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 : 1927.958MHz
Higher frequency : 1928.938MHz

-12 dB points

Lower frequency : 1927.846MHz
Higher frequency : 1929.038MHz

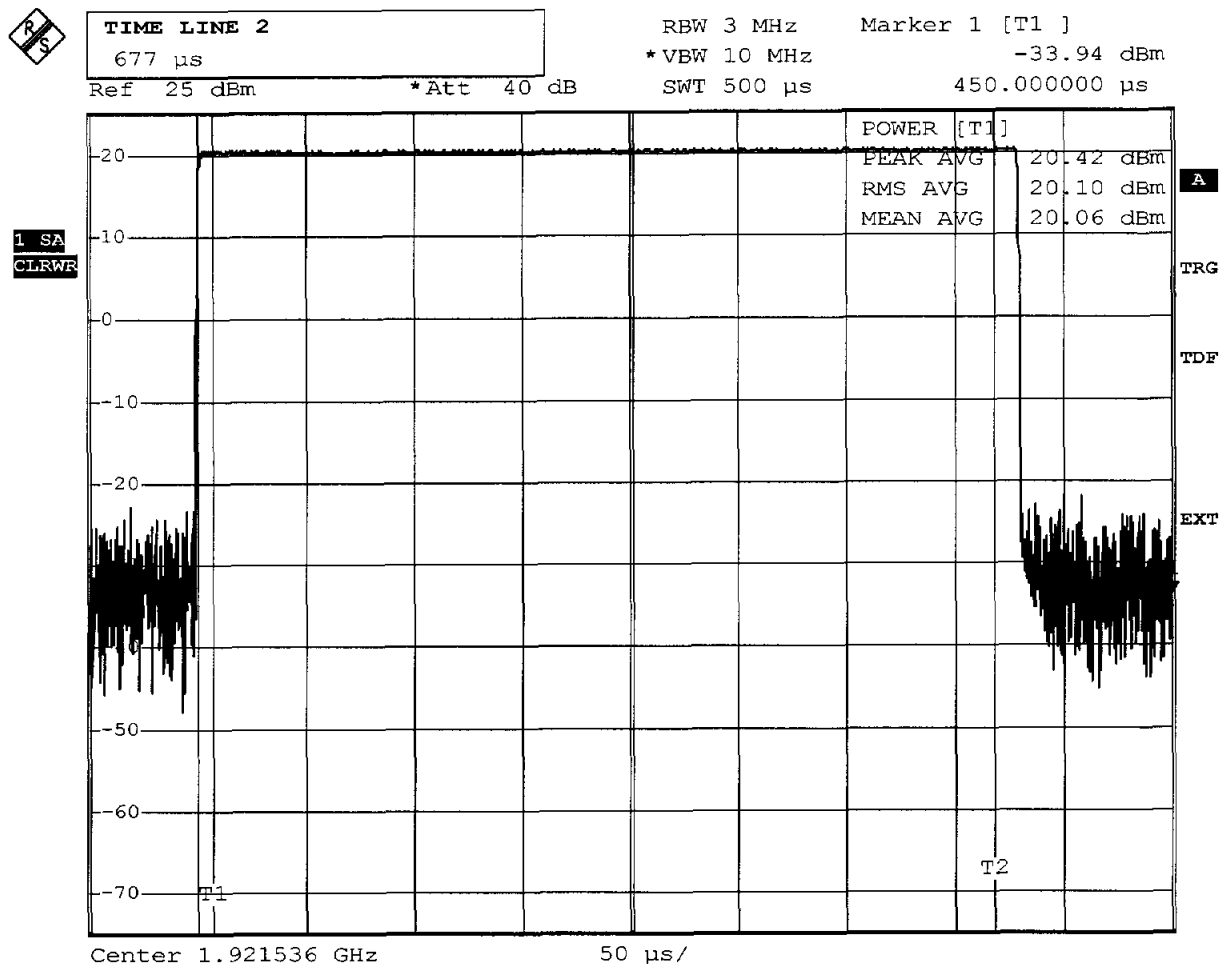
Appendix F

Peak Transmit Power

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2
UPCS

EUT	Quail Digital
Model	QD-BP6 (Portable Part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Fully charged battery
Measured Bandwidth	1.728MHz
Max. Permitted Power	21,18 dBm
Measured Power	20,42 dBm
Test result	Verdict = PASS



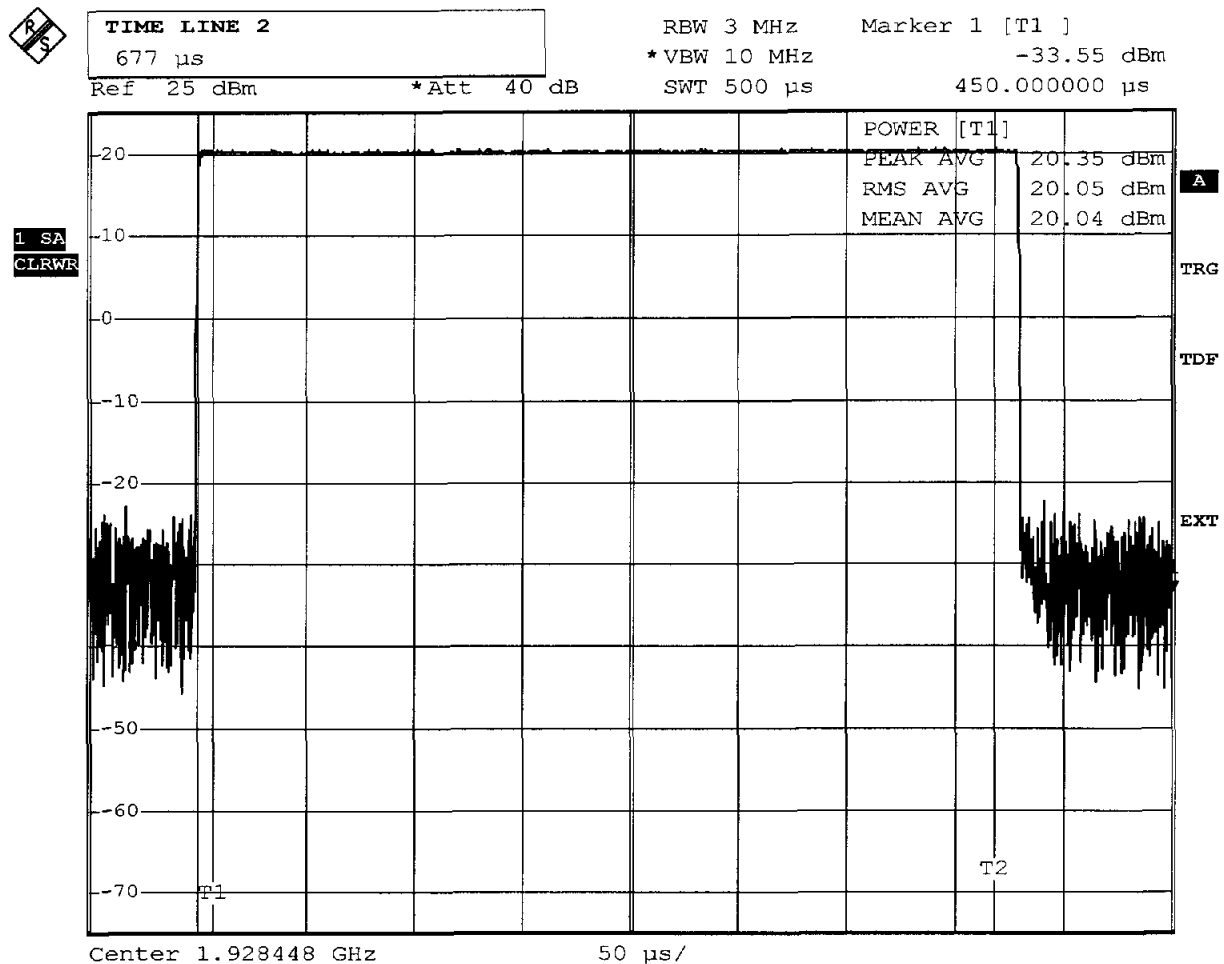
Comment: Ansi C63.17-1998 6.1.2
Date: 15.MAR.2006 15:14:19

Measurement diagram

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-1998 6.1.2 UPCS

EUT	Quail Digital
Model	QD-BP6 (Portable Part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Fully charged battery
Measured Bandwidth	1.728MHz
Max. Permitted Power	21,18 dBm
Measured Power	20,35 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.2
Date: 15.MAR.2006 15:15:15

Measurement diagram

Appendix G

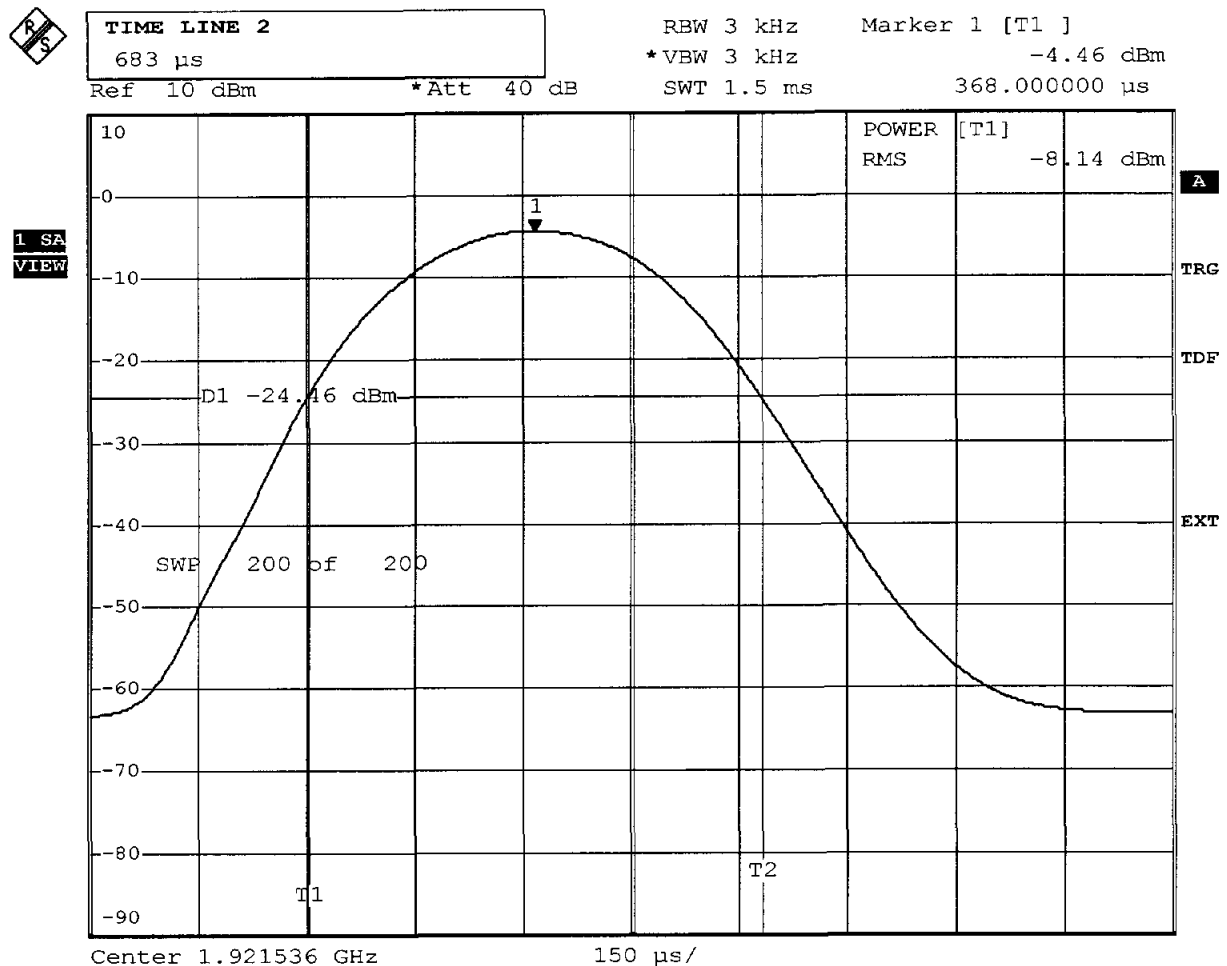
Power spectral density

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5 UPCS

EUT	Quail Digital
Model	QD-BP6 (Portable Part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	-8.139 dBm
Value in mW	0.153mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



Comment: Ansi C63.17-1998 6.1.5
Date: 15.MAR.2006 15:21:01

Measurement diagram

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-1998 6.1.5 UPCS

EUT	Quail Digital
Model	QD-BP6 (Portable Part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density

Measured Maximum	-8.176 dBm
Value in mW	0.152mW
Maximal permitted	limit=3mW
Test result	Verdict = PASS



TIME LINE 1

48 μ s

Ref 10 dBm

*Att 40 dB

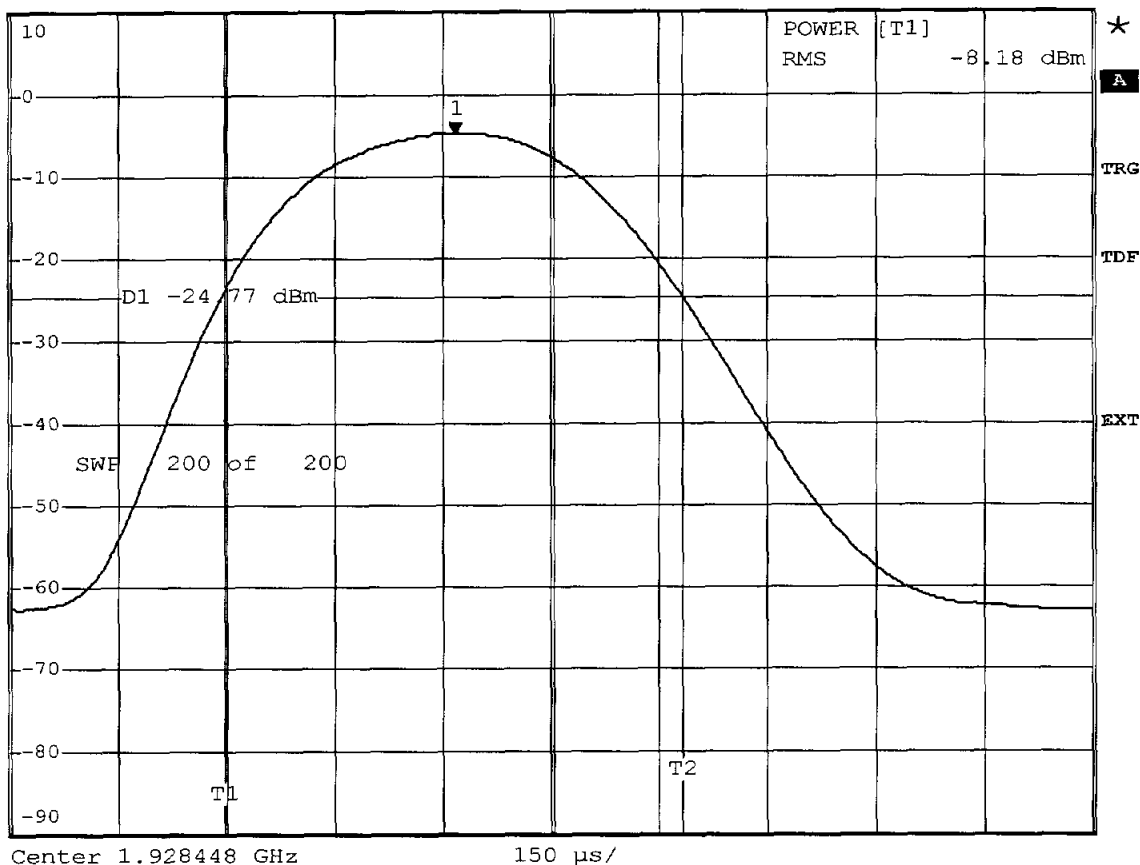
RBW 3 kHz

Marker 1 [T1]

*VBW 3 kHz

-4.77 dBm

SWT 1.5 ms

368.000000 μ s1 SA
VIEW

Comment: Ansi C63.17-1998 6.1.5

Date: 15.MAR.2006 15:24:31

Measurement diagram

Appendix H

Directional gain of the antenna

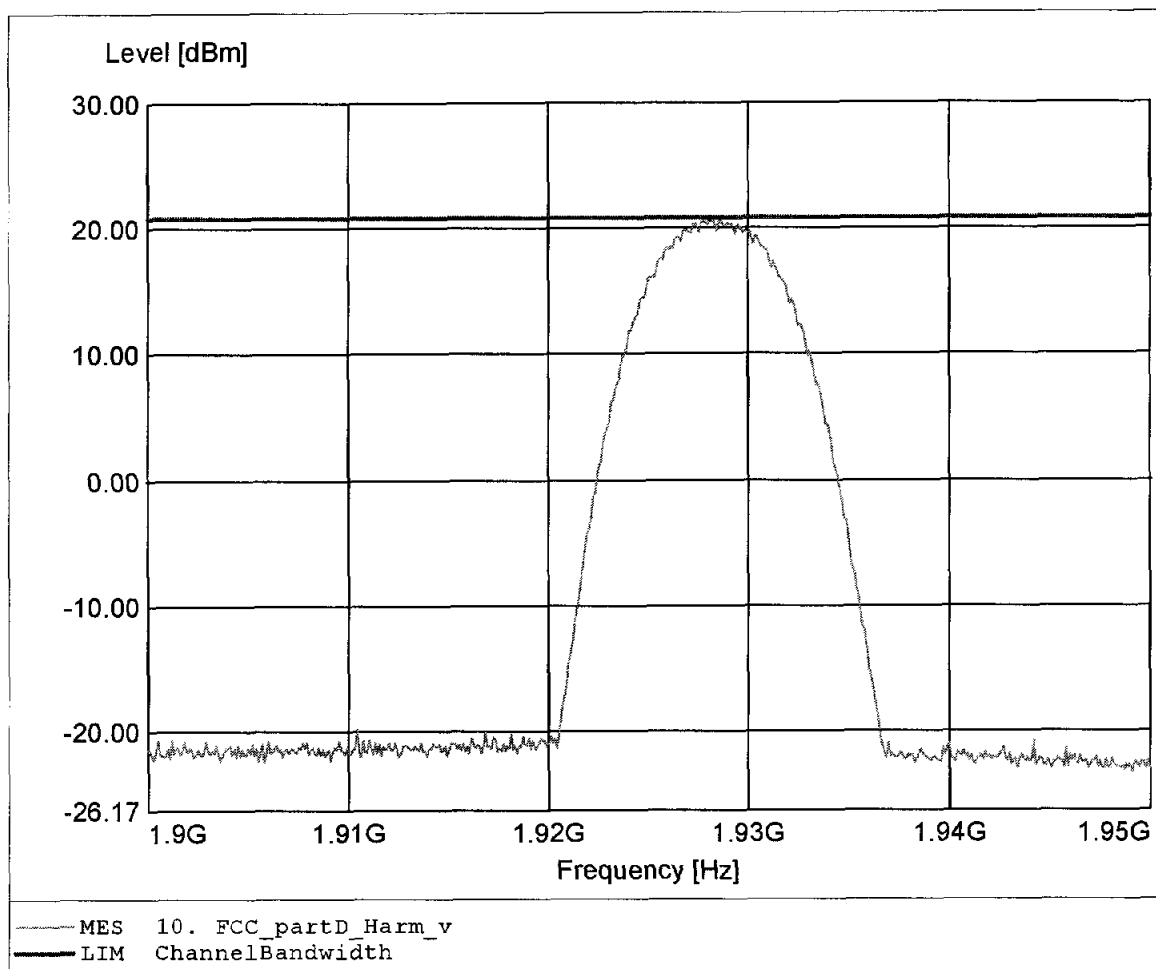
Appendix I

Radio frequency radiation exposure

Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

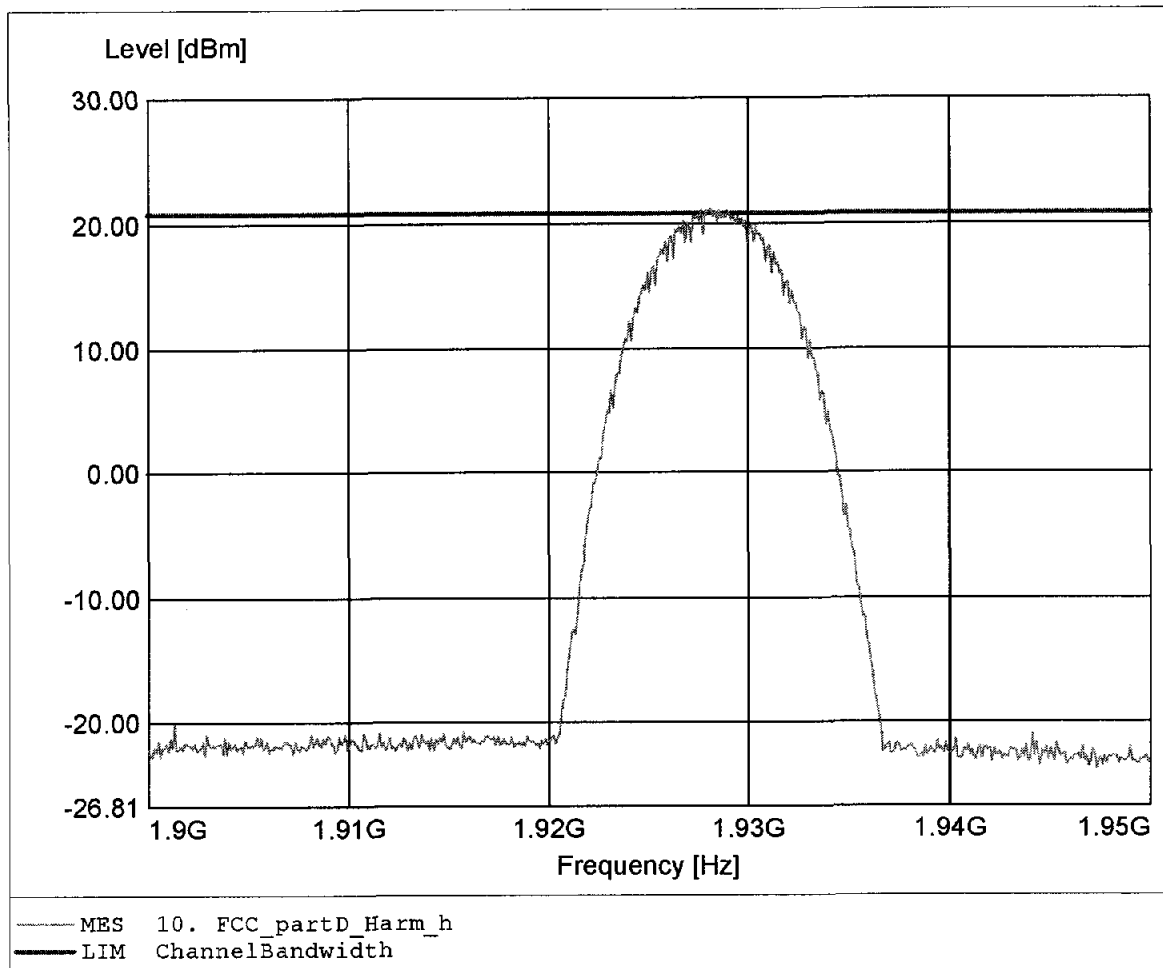
Approval Holder: QUAIL LTD
EUT: QUAIL DIGITAL
Model / channel: QD-BP6 (Portable Part) / 0
Test Site / Operator: ETS / Mr. Schlaps
Temperature/ Voltage: 25°C / Unom: 3.60 V DC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.929GHz Pmax:20.58dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

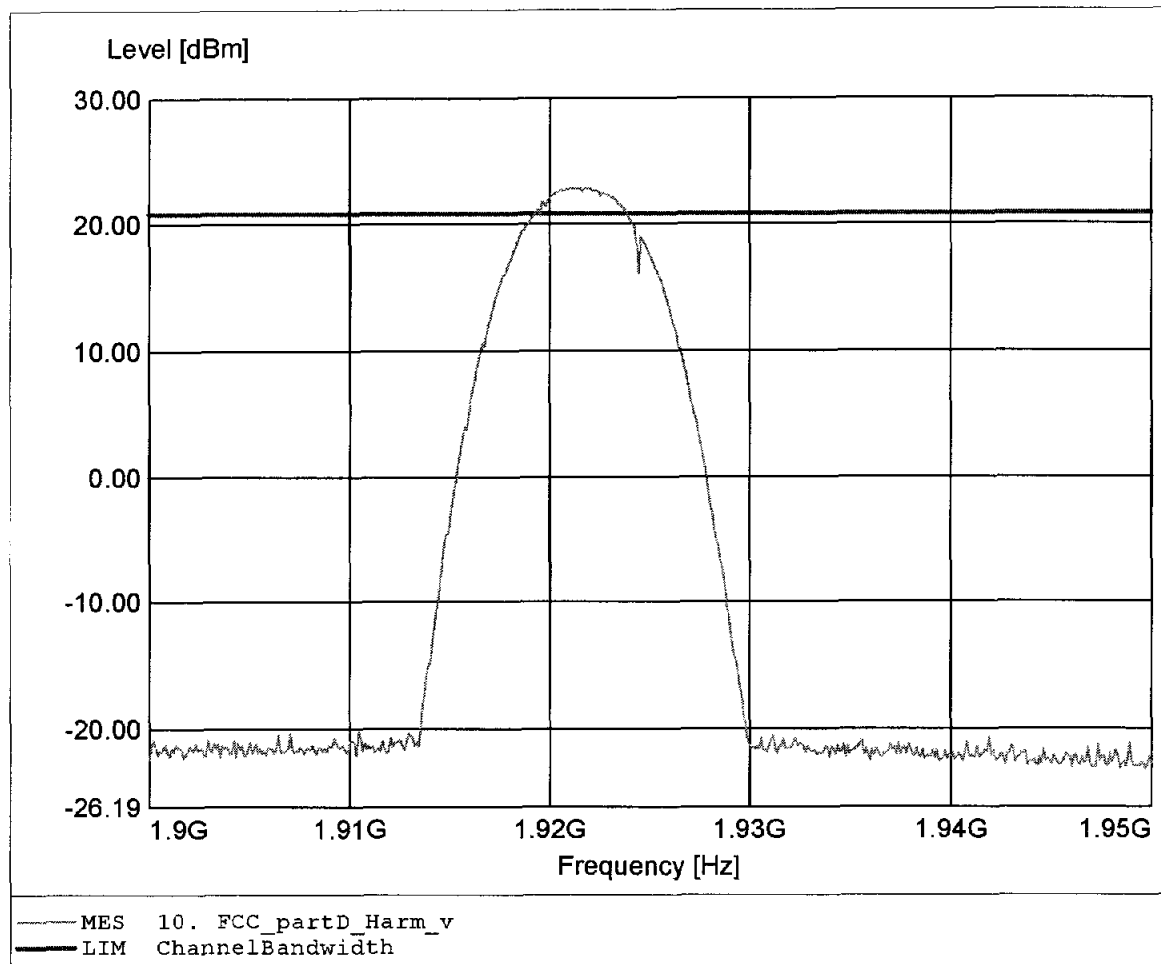
Approval Holder: QUAIL LTD
EUT: QUAIL DIGITAL
Model / channel: QD-BP6 (Portable Part) / 0
Test Site / Operator: ETS / Mr. Schlaps
Temperature/ Voltage: 25°C / Unom: 3.60 V DC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.928GHz Pmax:21.13dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

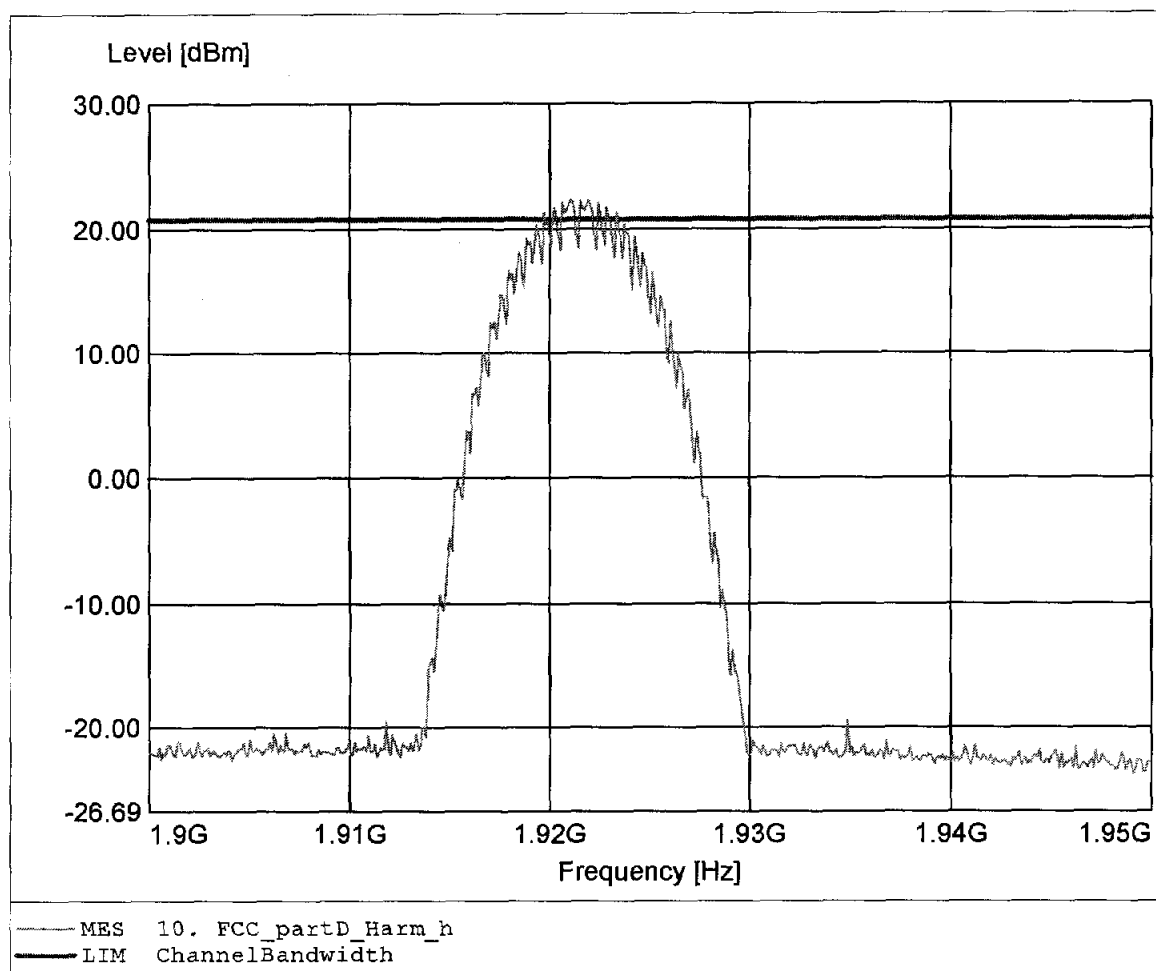
Approval Holder: QUAIL LTD
EUT: QUAIL DIGITAL
Model / channel: QD-BP6 (Portable Part) / 4
Test Site / Operator: ETS / Mr. Schlaps
Temperature/ Voltage: 25°C / Unom: 3.60 V DC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.922GHz Pmax:22.85dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

Approval Holder: QUAIL LTD
EUT: QUAIL DIGITAL
Model / channel: QD-BP6 (Portable Part) / 4
Test Site / Operator: ETS / Mr. Schlaps
Temperature/ Voltage: 25°C / Unom: 3.60 V DC
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D,
Comment 2: Freq:1.922GHz Pmax:22.32dBm RBW: 5 MHz



Appendix J

Monitoring threshold

Test case Rev. Draft ANSI_7.3.2_upper_theshold.xml
 Date 16.03.2006 09:51:11
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: initial setup
 Quail Digital
 Quail LTd

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	
00:04:19.5781250	-52,2 -52,5	-52,1 -52,3	-52,3 -52,5	-49,1 -52,2	-51,8 -52	-52 dBm
00:04:35.5937500	-53,2 -53,5	-53,1 -53,3	-53,3 -53,5	-49,9 -53,2	-52,8 -53	-53 dBm
00:04:45.8593750	-54,1 -54,5	-50,7 -54,3	-54,3 -54,5	-54 -54,2	-53,8 -54	-54 dBm
00:04:56.3125000	-55 -55,3	-51,4 -55,2	-55,2 -55,4	-55 -55,2	-54,6 -54,9	-55 dBm
00:05:08.0312500	-56 -56,3	-56 -56,2	-55,9 -56,2	-55,9 -56,2	-52 -55,8	-56 dBm
00:05:24.6250000	-57 -57,4	-56,9 -57,2	-56,9 -57,2	-56,8 -57,1	-52 -56,8	-57 dBm
00:05:37.8125000	-57,9 -58,4	-57,9 -58,2	-57,8 -58,2	-57,8 -58,1	-53,2 -57,8	-58 dBm
00:05:49.1406250	-58,9 -59,4	-58,8 -59,2	-58,8 -59,2	-58,7 -59,1	-53,2 -58,6	-59 dBm
00:06:00.2031250	-60 -60,4	-59,9 -60,3	-59,8 -60,1	-59,8 -60,1	-54,4 -59,9	-60 dBm
00:06:14.3437500	-60,9 -61,4	-60,8 -61,3	-54,8 -61,1	-60,8 -61,2	-52,7 -60,9	-61 dBm
00:06:53.4375000	-62,8 -63,4	-55,5 -63	-54,1 -63,1	-62,7 -63,2	-62,5 -63	-62 dBm
00:07:30.4062500	-62,8 -64,4	-60,8 -64,3	-49,6 -63,8	-22,9 -41,9	-51 -63,5	-63 dBm
00:07:40.9218750	-63 -64,4	-55,9 -63,9	-60,3 -64,2	-47,7 -63,5	-22 -42,5	-64 dBm
00:08:12.6250000	-52,3 -64,8	-22,9 -41,9	-47,6 -64,9	-53,6 -64,8	-63,8 -65	Upper threshold level: -65dBm

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 16.03.2006 10:22:13
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.3.3_b
 Quail Digital
 Quail LTd

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	
00:36:32.0781250	-86 -95,8	-86 -95,8	-74,7 -90,1	-86,2 -95,7	-87,5 -96	No interference
00:37:05.0781250	-57,9 -58,2	-57,7 -58	-53,8 -57,9	-69,8 -71	-75,2 -77,8	Interferer on
00:37:22.7031250	-57,6 -58,2	-57,3 -58	-56,1 -58	-48,9 -68,7	-22,1 -41,9	OK 1
00:37:36.8750000	-57,9 -58,2	-57,8 -58	-57,7 -58	-69,8 -71	-60,8 -74,5	
00:37:49.1250000	-57,7 -58,2	-57,7 -58	-57,7 -58	-69,9 -71	-22,1 -42,7	OK 2
00:38:13.2500000	-57,9 -58,2	-57,8 -58	-57,7 -58	-70 -71	-60,4 -74,4	
00:38:30.3281250	-57,5 -58,2	-57,4 -58	-56,1 -58	-47,8 -68,6	-22,6 -41,8	OK 3
00:38:36.7187500	-57,8 -58,2	-57,7 -58	-57,7 -58	-69,9 -71	-62,7 -77,1	
00:38:53.4687500	-57,7 -58,2	-57,5 -58	-56 -58	-48,5 -68,7	-22,8 -42,2	OK 4
00:39:00.2343750	-57,9 -58,2	-57,8 -58	-57,7 -58	-69,9 -71	-62,1 -76,7	
00:39:20.2812500	-57,6 -58,2	-57,5 -58	-56 -58	-47,6 -68,7	-22,7 -42	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 16.03.2006 10:47:27
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.3.3_c
 Quail Digital
 Quail LTd

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	
00:43:34.2343750	-87,3 -95,9	-85,4 -95,7	-85,2 -95,8	-85 -95,8	-79,6 -93,6	No interference
00:43:40.1093750	-57,9 -58,2	-57,8 -58	-57,7 -58	-75,4 -77,8	-69 -70,8	Interferer on
00:49:10.4375000	-57,3 -58,2	-56 -58	-49,2 -57,9	-22,5 -42,7	-53,8 -70,3	OK 1
00:49:18.5468750	-57,9 -58,2	-57,7 -58	-57,7 -58	-59,6 -73,8	-69,8 -70,8	
01:03:10.5156250	-57,5 -58,2	-56 -58	-47,2 -57,8	-22,7 -42,4	-51,4 -70,2	OK 1
01:03:20.2968750	-57,9 -58,2	-57,8 -58	-57,7 -58	-59,9 -76,5	-69,7 -70,8	
01:03:35.5625000	-57,5 -58,2	-56,6 -58	-47 -57,8	-22,7 -42,3	-53,4 -70,3	OK 1
01:03:41.6093750	-57,9 -58,2	-57,8 -58	-57,7 -58	-60,3 -76,4	-69,7 -70,8	
01:03:57.0468750	-57,4 -58,2	-55,7 -58	-48,8 -57,9	-22,1 -42,3	-53,6 -70,3	OK 1
01:04:04.3906250	-57,9 -58,2	-57,8 -58	-57,7 -58	-61,6 -76,7	-69,7 -70,9	
01:04:31.0312500	-57,2 -58,2	-56,7 -58	-47,5 -57,8	-22,5 -42,2	-52,7 -70,2	OK 1

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 16.03.2006 10:54:11
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.3.3_d
 Quail Digital
 Quail LTd

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	
01:09:24.1093750	-85,8 -95,8	-86,9 -95,8	-84,5 -95,9	-86,8 -96	-60,1 -75,5	No interference
01:09:31.1093750	-57,9 -58,2	-57,8 -58	-57,6 -58	-74,8 -76,7	-59,9 -75,1	Interferer on
01:09:45.1250000	-57,6 -58,2	-57,5 -58	-56,4 -58	-48,7 -71,2	-22,6 -42,7	OK 1
01:09:53.8437500	-57,9 -58,2	-57,8 -58	-57,7 -58	-74,5 -76,8	-60,9 -79,9	
01:10:07.8593750	-57,7 -58,2	-57,3 -58	-56,4 -58	-48,3 -71,6	-22,3 -42,3	OK 2
01:10:12.9843750	-57,9 -58,2	-57,7 -58	-57,6 -58	-74,8 -76,7	-61,3 -80,2	
01:10:29.9531250	-57,5 -58,2	-57,4 -58	-55,9 -58	-48,7 -70,8	-22,4 -42,7	OK 3
01:10:34.4375000	-57,9 -58,2	-57,8 -58	-57,7 -58	-74,7 -76,7	-60,6 -80,1	
01:10:49.1406250	-57,6 -58,2	-57,6 -58	-56,3 -58	-48,9 -71,1	-22,3 -41,9	OK 4
01:10:53.7656250	-57,9 -58,2	-57,8 -58	-57,7 -58	-74,6 -76,7	-61,6 -80,2	
01:11:12	-57,6 -58,2	-57,5 -58	-54 -58	-48,5 -71,3	-22,2 -41,9	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 16.03.2006 11:01:24
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.3.3_e
 Quail Digital
 Quail LTd

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	
01:14:10.7812500	-86,8 -96,1	-87,3 -96	-86,9 -95,8	-83,4 -95,4	-86,1 -96,1	No interference
01:15:21.3750000	-57,9 -58,2	-57,7 -58	-53 -57,9	-79,5 -83,6	-74,8 -76,8	Interference on
01:15:56.1250000	-57,3 -58,2	-56,6 -58	-46,9 -57,8	-22,3 -42,3	-52,8 -74,7	OK 1
01:16:01.3281250	-57,9 -58,2	-57,8 -58	-57,7 -58	-61,5 -80,3	-74,2 -76,8	
01:16:17.0468750	-57,5 -58,2	-56,2 -58	-46,9 -57,8	-23 -42	-52,9 -74,9	OK 2
01:16:23.1875000	-57,9 -58,2	-57,7 -58	-57,7 -58	-60,9 -80	-74,8 -76,8	
01:16:46.2343750	-57,1 -58,2	-56,3 -58	-47,9 -57,9	-22,9 -42,1	-53,4 -74,8	OK 3
01:16:50.8437500	-57,9 -58,2	-57,8 -58	-57,7 -58	-60,7 -79,9	-74,7 -76,8	
01:17:07.0625000	-57,4 -58,2	-55,5 -58	-46,3 -57,8	-22,5 -42,3	-52,9 -74,4	OK 4
01:17:11.3281250	-57,9 -58,2	-57,8 -58	-57,7 -58	-61,7 -80	-74,5 -76,8	
01:17:32.6875000	-57,4 -58,2	-56,7 -58	-46,6 -57,8	-22,3 -41,9	-53 -74,9	OK 5

Log file

Appendix K

Monitoring of intended transmit window and maximum reaction time

Test case Rev. Draft ANSI_7.5_reaction_time_high_ch.xml
 Date 16.03.2006 11:50:07
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.5_high_ch_50 / 35us
 Quail Digital
 Quail LTd

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	
00:10:07.0781250	-79,6 -93,7	-86,6 -95,8	-86,4 -95,8	-86,8 -95,8	-86,1 -96	No interference
00:10:33.5468750	-22,4 -43	-53,1 -78,7	-68,1 -88,1	-76,7 -93,9	-76,6 -94,5	Test connection
00:10:50.7968750	-53,1 -58,1	-57,9 -58,1	-57,6 -57,9	-57,5 -57,8	-52,8 -68,7	50µs interferer, connection release
00:11:04.5937500	-22,3 -42,3	-53,1 -78,8	-64,8 -88,2	-76,3 -94	-76,5 -94,2	Test connection
00:12:05.2968750	-53,1 -58,1	-57,9 -58,1	-57,6 -57,9	-57,5 -57,8	-47,7 -64,4	35µs interferer, connection release

Log file

Test case Rev. Draft ANSI_7.5_reaction_time_low_ch.xml
 Date 16.03.2006 11:56:51
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.5_low_ch_35us
 Quail Digital
 Quail LTd

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	
00:19:21.0937500	-86,4 -95,8	-85,8 -95,7	-84,3 -95,4	-86,2 -95,9	-86,8 -95,6	No interference
00:19:38.0781250	-64 -87,6	-48,2 -73,3	-22,6 -42	-52,6 -78,5	-68,4 -90,9	Test connection
00:19:48.3750000	-53,3 -69,5	-57,7 -58	-53,1 -57,9	-57,5 -57,8	-57,4 -57,7	50µs interferer, connection release
00:20:04.5937500	-22,3 -42,1	-52,3 -78,8	-67,6 -87,9	-76,3 -93,8	-76,9 -94,2	Test connection
00:20:38.9062500	-48,3 -64,8	-57,7 -58	-57,7 -57,9	-57,6 -57,8	-57,4 -57,7	35µs interferer, connection release

Log file

Appendix L

Monitoring bandwidth

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 16.03.2006 11:37:02
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.4.1 simple compliance test_high_+30%
 Quail Digital
 Quail LTd

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	
00:00:18.3281250	-86,4 -95,9	-78,8 -93,2	-87,1 -95,8	-86,6 -95,9	-87 -95,9	No interference
00:00:35.5156250	-68,9 -89,4	-49,1 -73,3	-22,6 -41,4	-50,5 -76,8	-69,9 -90,7	Test connection
00:00:47.0937500	-57,8 -58,2	-57,9 -58,1	-53 -57,8	-57,5 -57,8	-85,9 -95,4	Interference on, connection release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 16.03.2006 11:31:28
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.4.1 simple compliance test_high_-30%
 Quail Digital
 Quail LTd

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	
01:48:09.3750000	-86,6 -95,8	-85,9 -95,7	-85,8 -95,9	-85,5 -95,8	-83,9 -95,2	Interferer off
01:48:29.1718750	-78,4 -94,3	-77,5 -93,9	-68,5 -89,1	-48,3 -72,9	-22,5 -42,3	Test connection
01:48:39.1875000	-57,9 -58,2	-57,9 -58,1	-57,6 -57,9	-57,5 -57,8	-60,2 -75,7	Interference on, connection release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 16.03.2006 11:27:42
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.4.1 simple compliance test_low_+30%
 Quail Digital
 Quail LTd

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	
01:44:10.3125000	-85,8 -95,9	-79,8 -93,9	-87 -96	-86 -95,8	-86,1 -95,7	No interference
01:44:27.9218750	-75,4 -93,2	-66,3 -87,8	-48,9 -71,9	-22,5 -42,2	-53,4 -79,3	Test connection
01:44:40.5312500	-85,3 -95,7	-57,7 -58	-57,7 -58	-52,8 -57,8	-57,4 -57,7	Interference on, connection release

Log file

Test case Rev. Draft ANSI_7.4.1_monitoring_bandwidth.xml
 Date 16.03.2006 11:22:20
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 7.4.1 simple compliance test_low_-30%
 Quail Digital
 Quail LTd

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	
01:30:19.5625000	-87,6 -95,9	-78,3 -92,8	-86,6 -95,7	-87 -95,9	-86,5 -95,9	No interference
01:38:20.3437500	-48,1 -72,8	-22,3 -41,8	-54,1 -79,5	-68,8 -90,7	-75,5 -93,8	Test connection
01:39:22.4062500	-87 -95,8	-57,7 -58	-53 -57,9	-57,6 -57,9	-57,5 -57,7	Interference on, Connection release

Log file

Appendix M

Random waiting interval

Appendix N

Duration of Transmission

Test case	Rev. Draft
ANSI_8.2.2._Transmission_duration_PP_only.xml	
	Date 17.03.2006 08:37:38
Reference to the EUT	G0M20603-0302 / QD-BP6 (Portable Part)
Comment:	initial setup
	Quail Digital
	Quail LTd

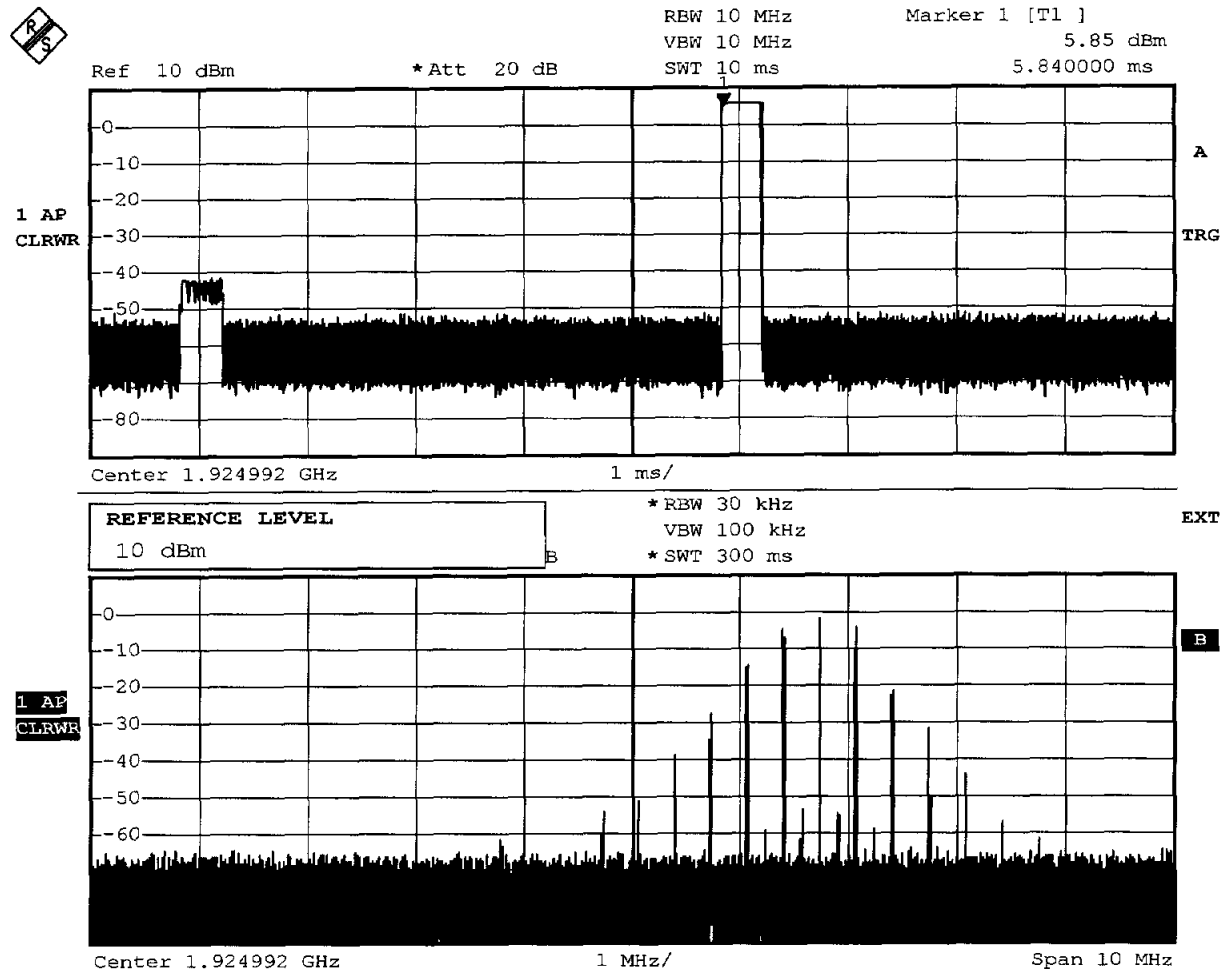
The LOG table shows the level changes on each Channel of the transmission system

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	
00:00:39.3125000	-76,2 -92,9	-62,4 -87	-47,7 -72,1	-22,1 -43,1	-54,1 -78,8	
00:30:33.0312500	-75,4 -93,6	-62,4 -87,1	-48,5 -72,7	-22,5 -43,1	-51,3 -78,3	No changed the channel

Log file

**ANSI C63.17-1998 Rev. Draft ANSI 8.2.2 Transmission duration
UPCS1900**

EUT	Quail Digital
Model	QD-BP6 (portable part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.2 Transmission duration
Comment 1	Monitoring of channels and time slots
Comment 2	Connection at channel 1, in time slot 14 (5,8 ms)
Comment 3	

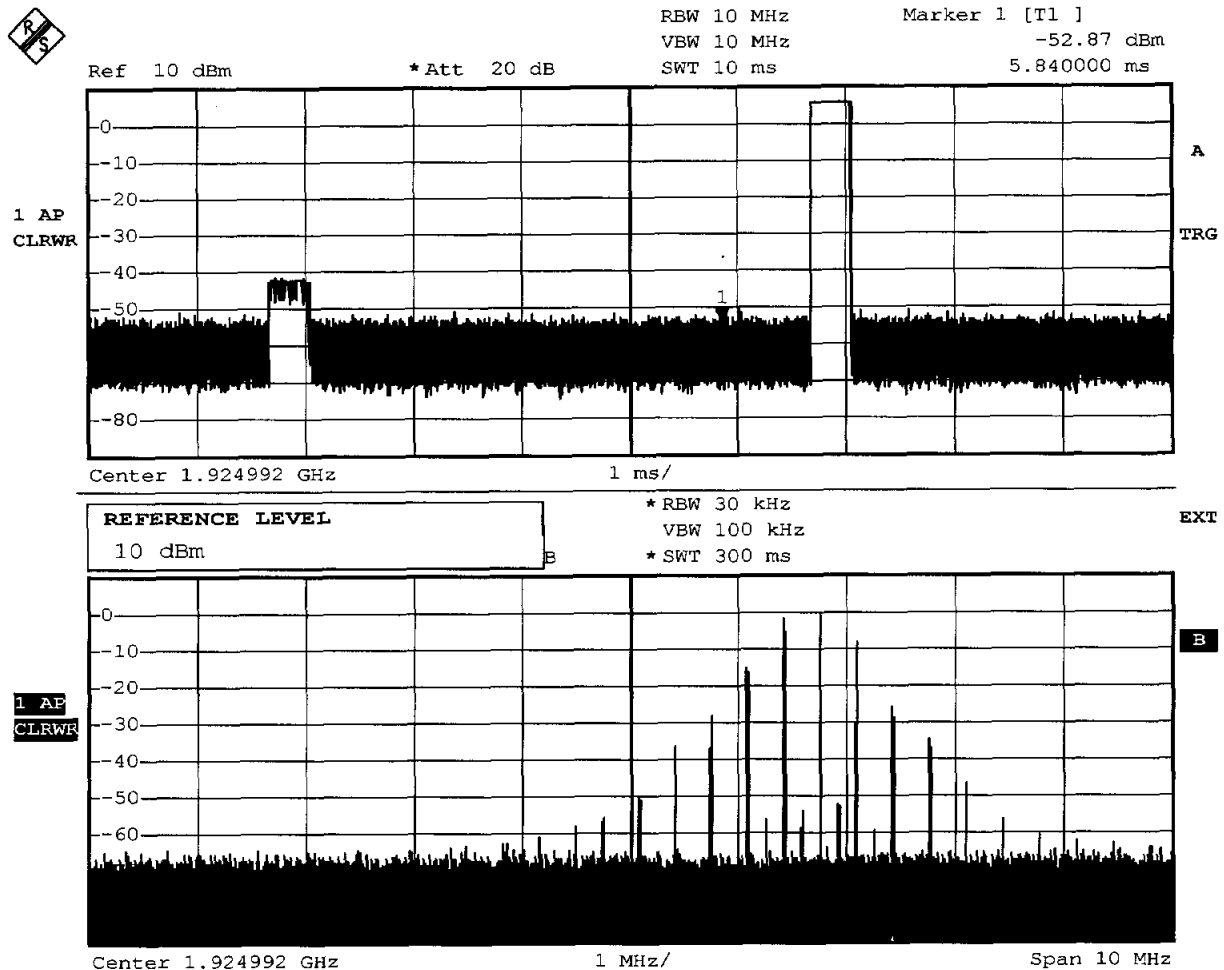


Comment: Ansi C63.17-1998
Date: 17.MAR.2006 08:39:50

Measurment diagramm

**ANSI C63.17-1998 Rev. Draft ANSI 8.2.2 Transmission duration
UPCS1900**

EUT	Quail Digital
Model	QD-BP6 (portable part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.2 Transmission duration
Comment 1	Monitoring of channels and time slots
Comment 2	Connection at channel 1, in time slot 16 (6,68 ms)
Comment 3	Change to timeslot 16 after 3 minuts

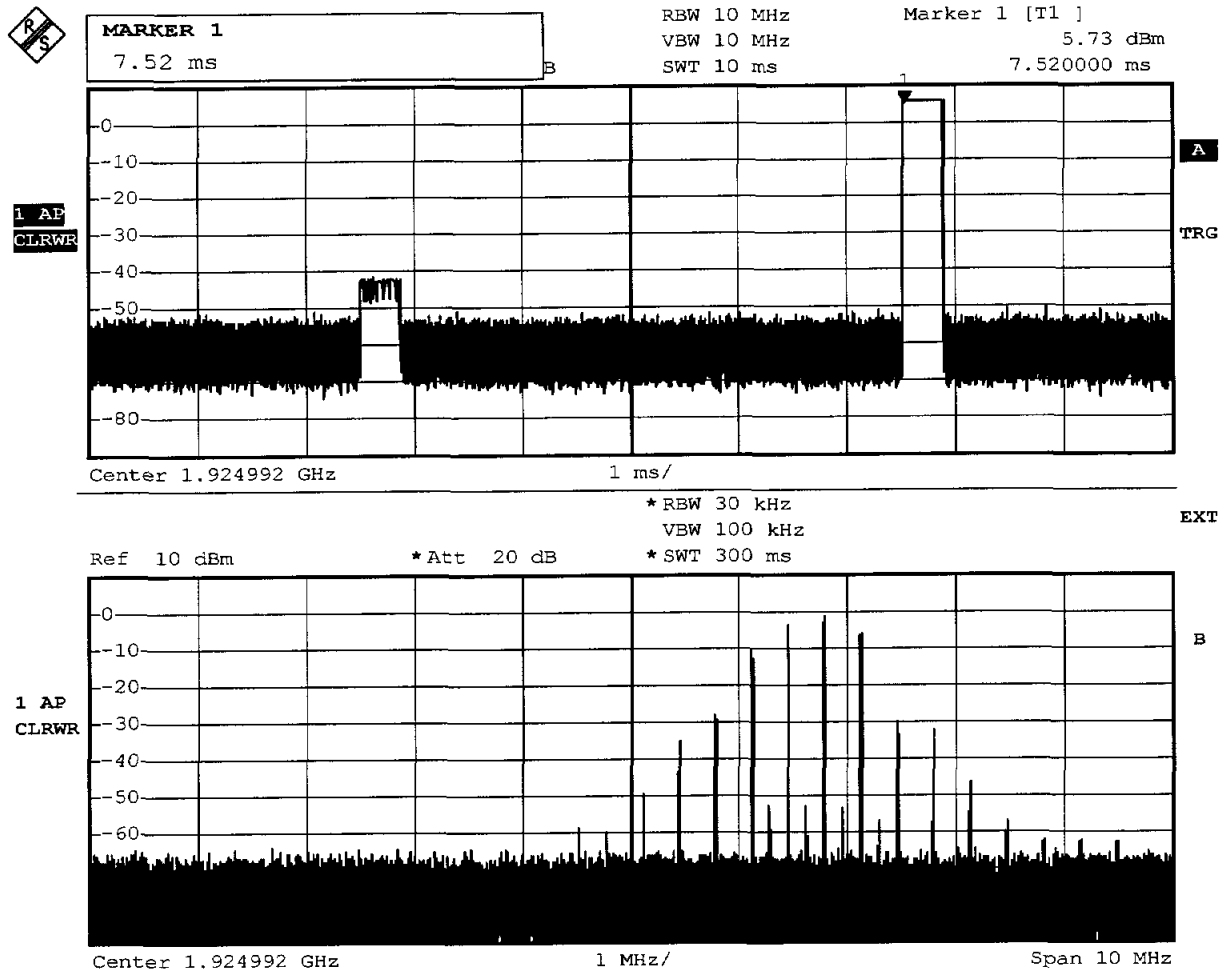


Comment: Ansi C63.17-1998
Date: 17.MAR.2006 08:42:02

Measurment diagramm

**ANSI C63.17-1998 Rev. Draft ANSI 8.2.2 Transmission duration
UPCS1900**

EUT	Quail Digital
Model	QD-BP6 (portable part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.2 Transmission duration
Comment 1	Monitoring of channels and time slots
Comment 2	Connection at channel 1, in time slot 16 (6,68 ms)
Comment 3	Changing to time slot 18 after 10 minutes

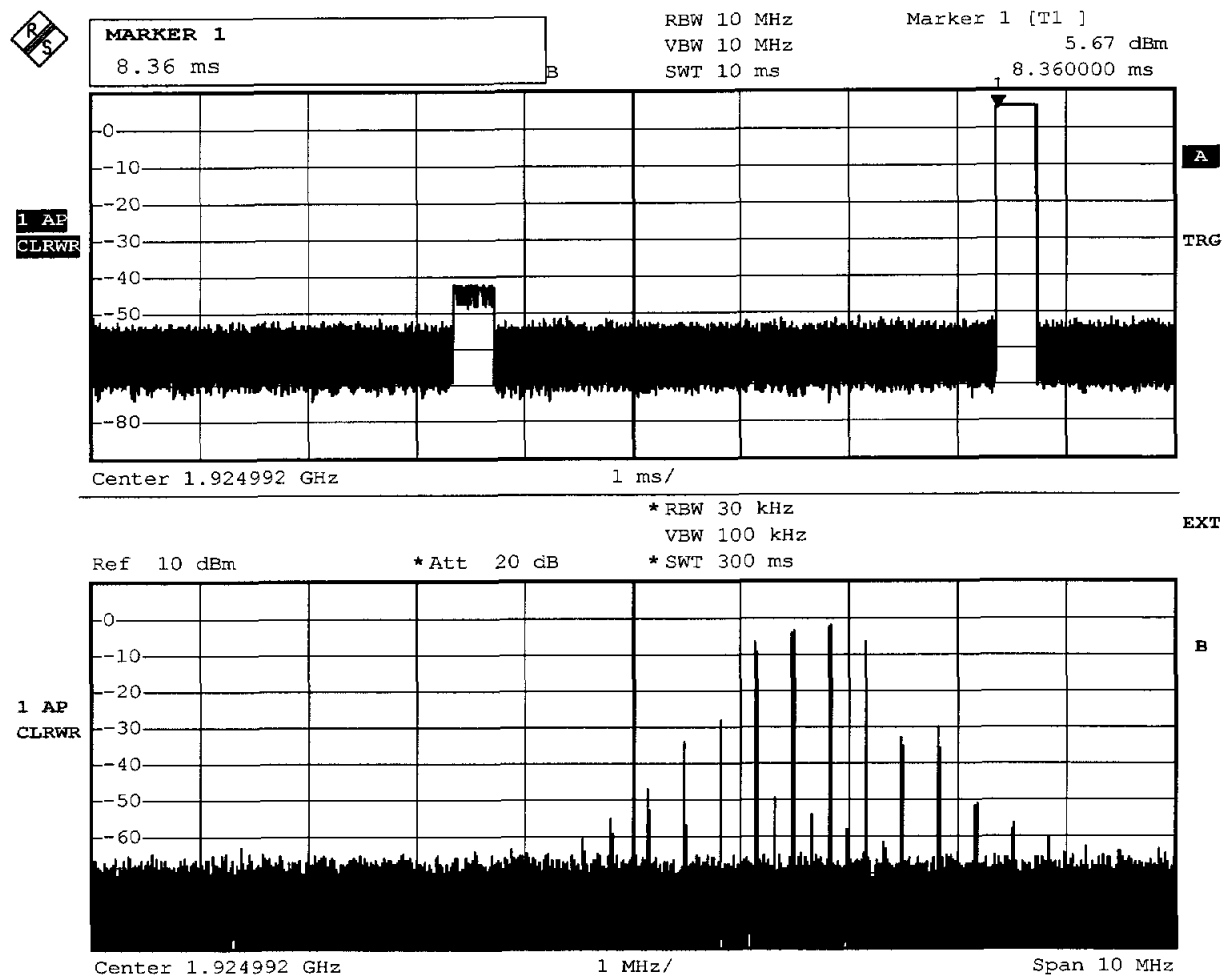


Comment: Ansi C63.17-1998
Date: 17.MAR.2006 08:52:20

Measurment diagramm

**ANSI C63.17-1998 Rev. Draft ANSI 8.2.2 Transmission duration
UPCS1900**

EUT	Quail Digital
Model	QD-BP6 (portable part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.2 Transmission duration
Comment 1	Monitoring of channels and time slots
Comment 2	Connection at channel 1, in time slot 20 (8,36 ms)
Comment 3	Changing to time slot 20 after 13 minutes



Comment: Ansi C63.17-1998

Date: 17.MAR.2006 09:05:57

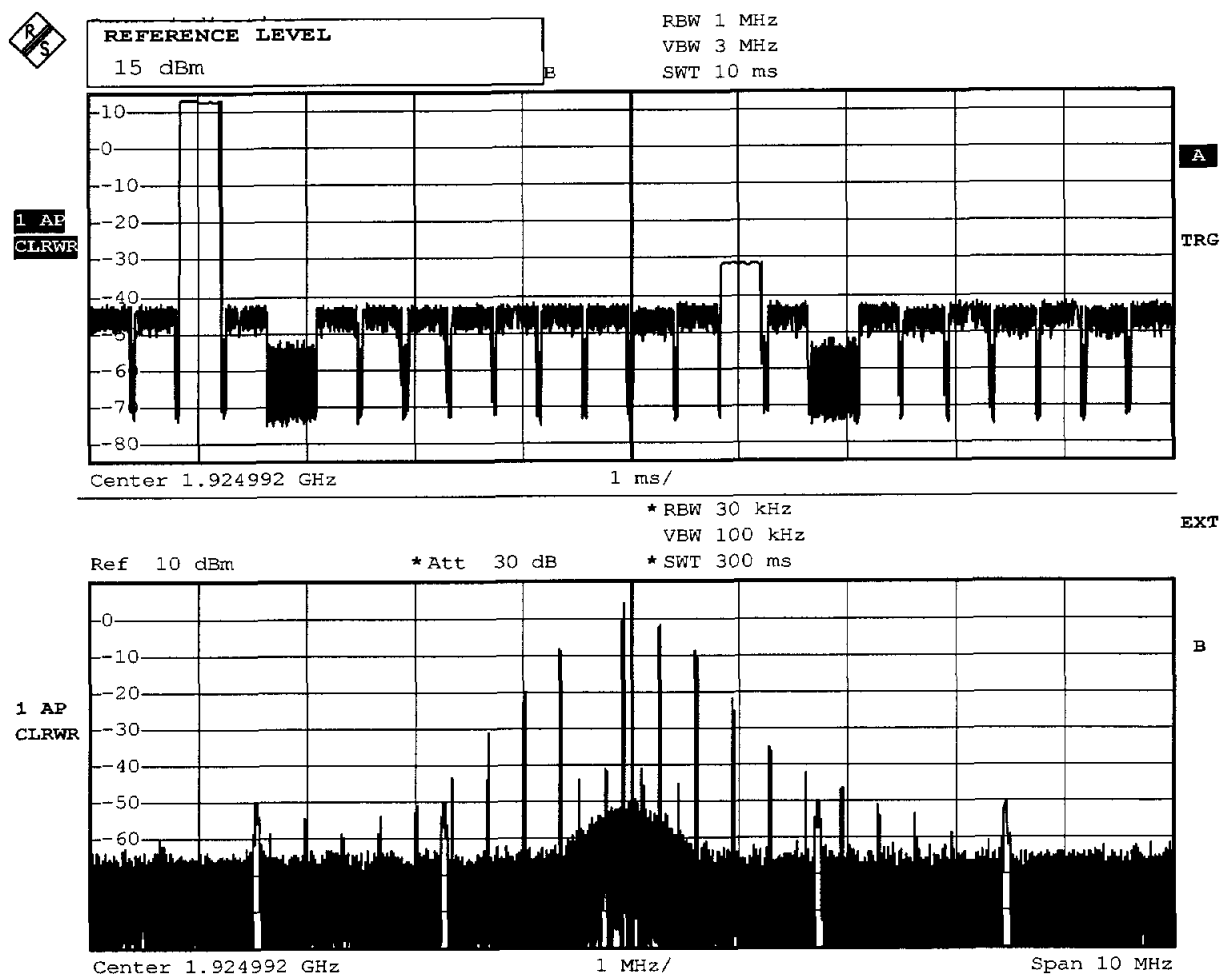
Measurment diagramm

Appendix O

Connection acknowledgement

**ANSI C63.17-1998 Rev. Draft ANSI 8.2.1 Acknowledgements
UPCS1900**

EUT	Quail Digital
Model	QD-BP6 (portable part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.1 acknowledgements
Comment 1	Test connection with unblocked acknowledgements
Comment 2	TDMA, two time slot are interference free
Comment 3	connection is establish

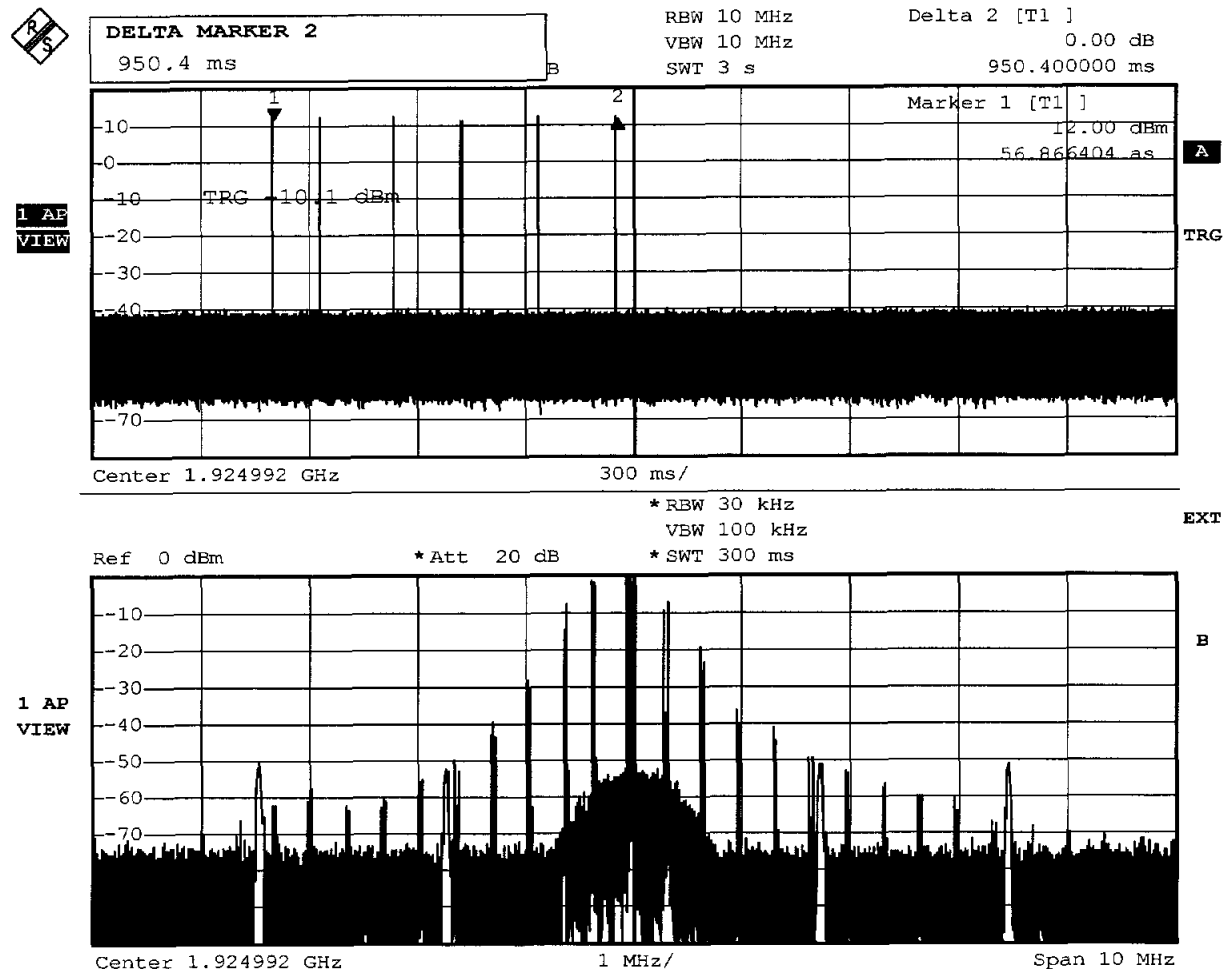


Comment: Ansi C63.17-1998
Date: 16.MAR.2006 13:03:56

Measurment diagramm

**ANSI C63.17-1998 Rev. Draft ANSI 8.2.1 acknowledgements
UPCS1900**

EUT	Quail Digital
Model	QD-BP6 (portable part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Rev. Draft ANSI 8.2.1 acknowledgements
Comment 1	paragraph a) blocked acknowledgements from the companion device
Comment 2	Limit: < 1second
Comment 3	EUT cease the transmission after 950.4 ms



Comment: Ansi C63.17-1998

Date: 17.MAR.2006 11:51:34

Measurment diagramm

Test case Rev. Draft ANSI_8.2.1_Acknowledgments_30s.xml
 Date 16.03.2006 12:54:10
 Reference to the EUT G0M20603-0302 / QD-BP6 (Portable Part)
 Comment: 8.2.1 Acknowledgments c)
 Quail Digital
 Quail LTd

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	
00:01:27.9687500	-56,7 -61,2	-48 -60,7	-21,8 -39,5	-49,6 -60,8	-59,5 -60,8	Connection on channel 2
00:01:31.7968750	-57,7 -61,2	-50,5 -60,9	-22,1 -42,2	-50,5 -60,8	-59,6 -60,8	Acknow- ledgments cease
00:01:36.8593750	-60,7 -61,2	-60,7 -61	-86,5 -95,6	-60,6 -61	-60,4 -60,8	Tx off after 6,06 second

Log file

Appendix P

Selected channel, power accuracy, segment occupancy

Test case
confirmation.xml

Rev. Draft ANSI_7.3.4_selected channel

Date 16.03.2006 11:07:57

Reference to the EUT

G0M20603-0302 / QD-BP6 (Portable Part)

Comment:

initial setup

Quail Digital
Quail LTd

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	
01:23:02.3750000	-86,4 -95,9	-79,4 -93,8	-85,8 -95,9	-86,6 -95,9	-86,8 -96	No interference
01:23:08.6406250	-57,9 -58,2	-57,5 -58	-57,7 -58	-75,1 -77,6	-75,6 -77,7	Interferer on
01:23:36.5000000	-57,5 -58,2	-57,7 -58	-55,3 -58	-48,7 -72,4	-22,7 -42,3	OK 1
01:24:57.2187500	-57,5 -58,2	-56,2 -58	-49,1 -57,9	-22,5 -42,5	-53 -75,9	OK 2

Log file

Appendix Q

Duplex connections

ANSI 8.2.3 Duplex connections

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

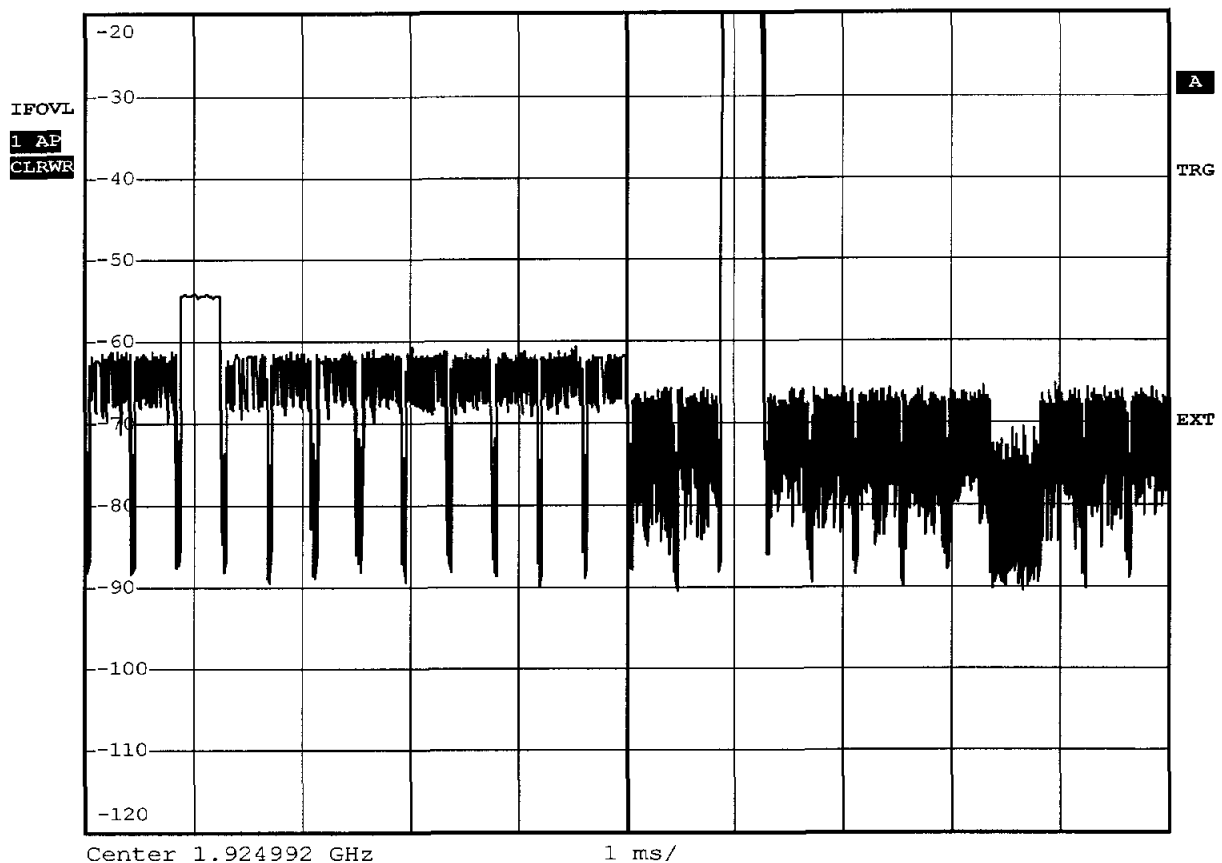
EUT	Quail Digital)
Model	QD-BP6 (Portable Part	
Applicant	Quail LTd	
Temperature	23°C	
Test Site / Operator	ETS	
Test Specification	ANSI C63.17-1998 Revision Draft	
Comment 1	Rx time slot 3 is interference free	
Comment 2	Connection in Rx time slot 3	
Comment 3	Verdict : PASS	



REFERENCE LEVEL	
-20 dBm	

Ref -20 dBm Att 10 dB

RBW 1 MHz
 *VBW 1 MHz
 SWT 10 ms



Comment: ANSI C63.17-1998

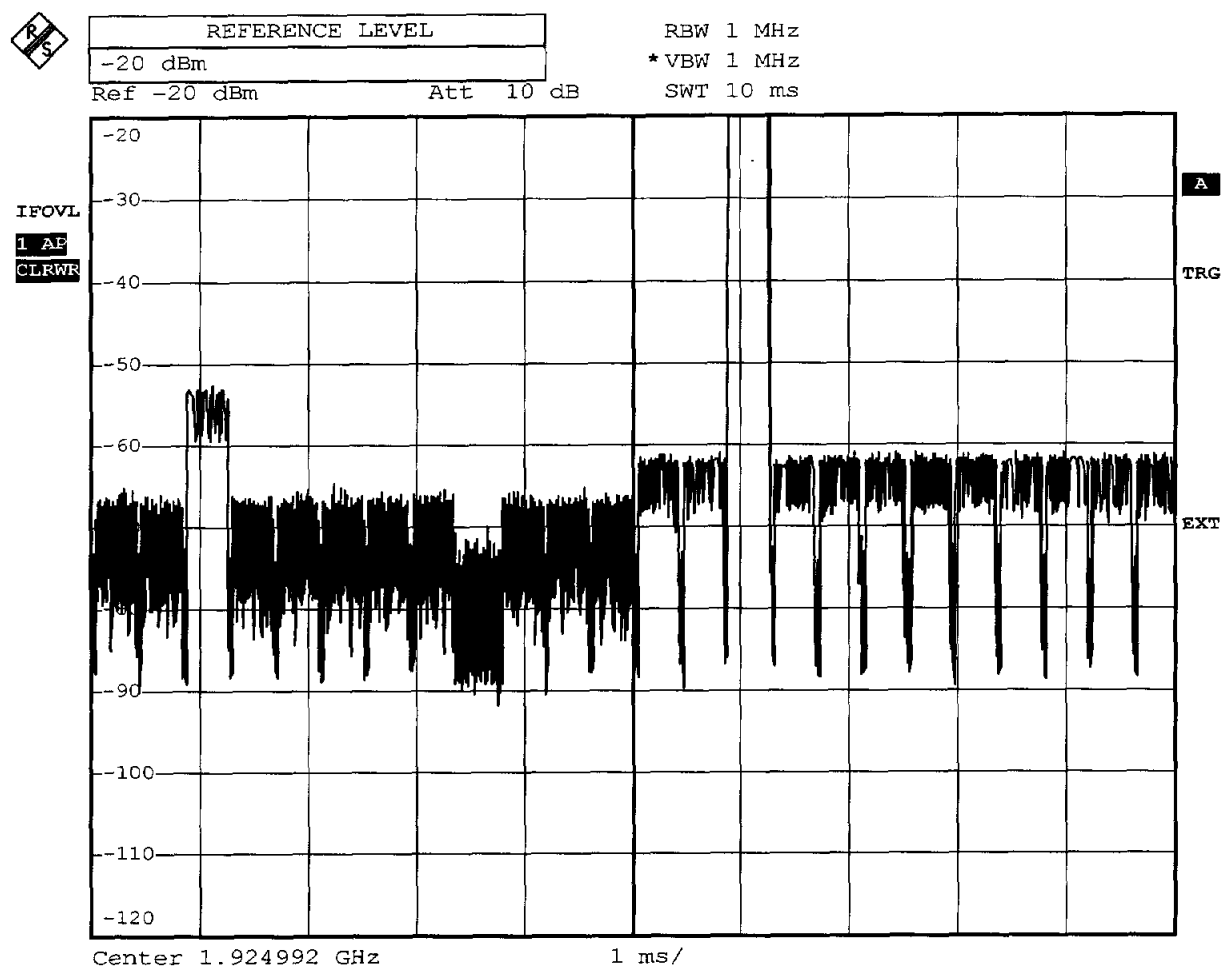
Date: 20.AUG.2005 09:02:52

Measurement diagram

ANSI 8.2.3 Duplex connections

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

EUT	Quail Digital
Model	QD-BP6 (Portable Part)
Applicant	Quail LTd
Temperature	23°C
Test Site / Operator	ETS
Test Specification	ANSI C63.17-1998 Revision Draft
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

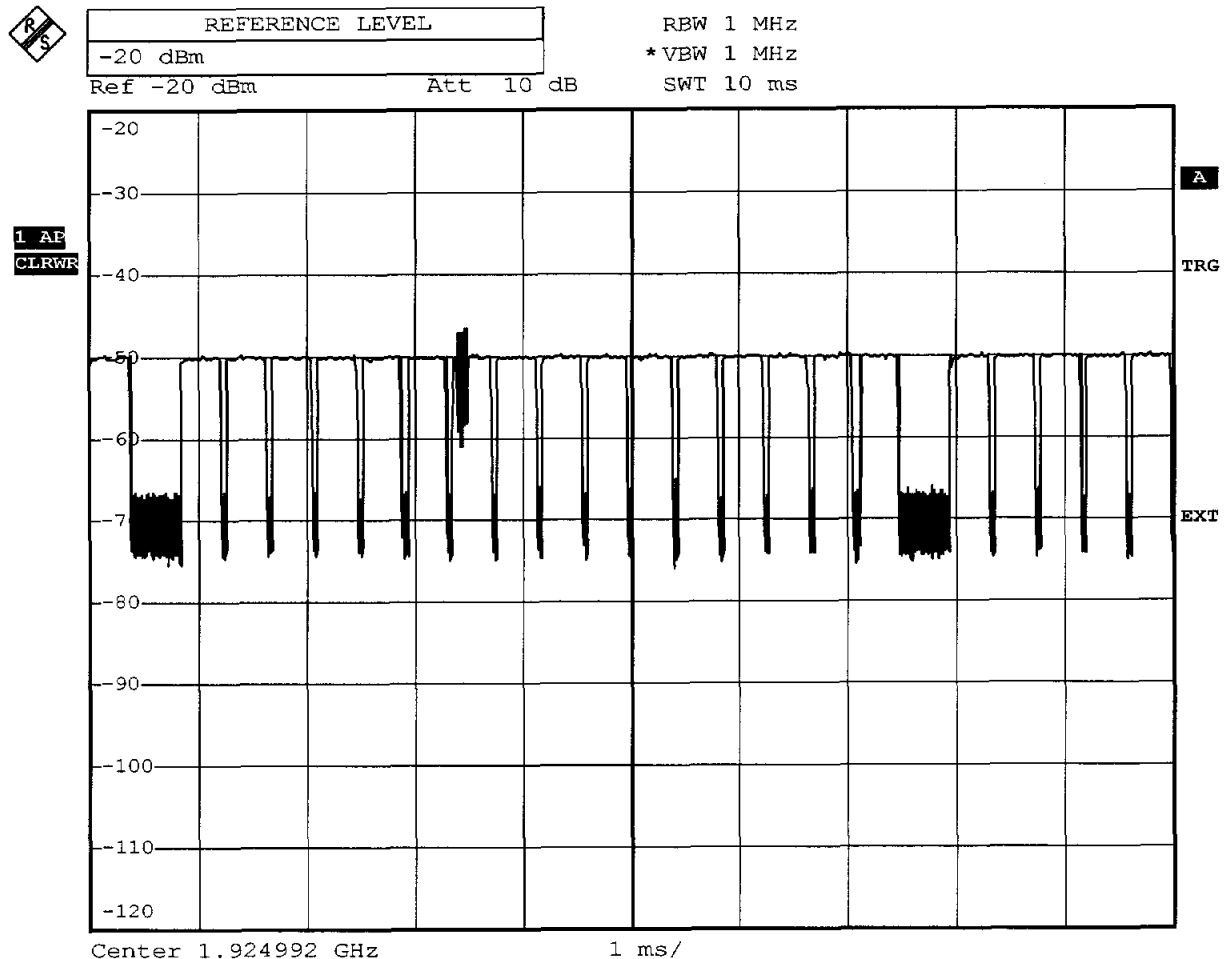
Date: 20.AUG.2005 09:08:28

Measurement diagram

ANSI 8.2.3 Duplex connections

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

EUT	Quail Digital)
Model	QD-BP6 (Portable Part)	
Applicant	Quail LTd	
Temperature	23°C	
Test Site / Operator	ETS	
Test Specification	ANSI C63.17-1998 Revision Draft	
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: 20.AUG.2005 09:15:48

Measurement diagram