

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:

CeoTronics AG

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 5th day of September, 2007



Michael Stima, Managing Director
UTAM, Inc.
822 Dow Rd.
P.O. Box 8126
Bridgewater, New Jersey 08807
Tel: (508) 526-3636

Affidavit #: CEOT090507

Appendix C

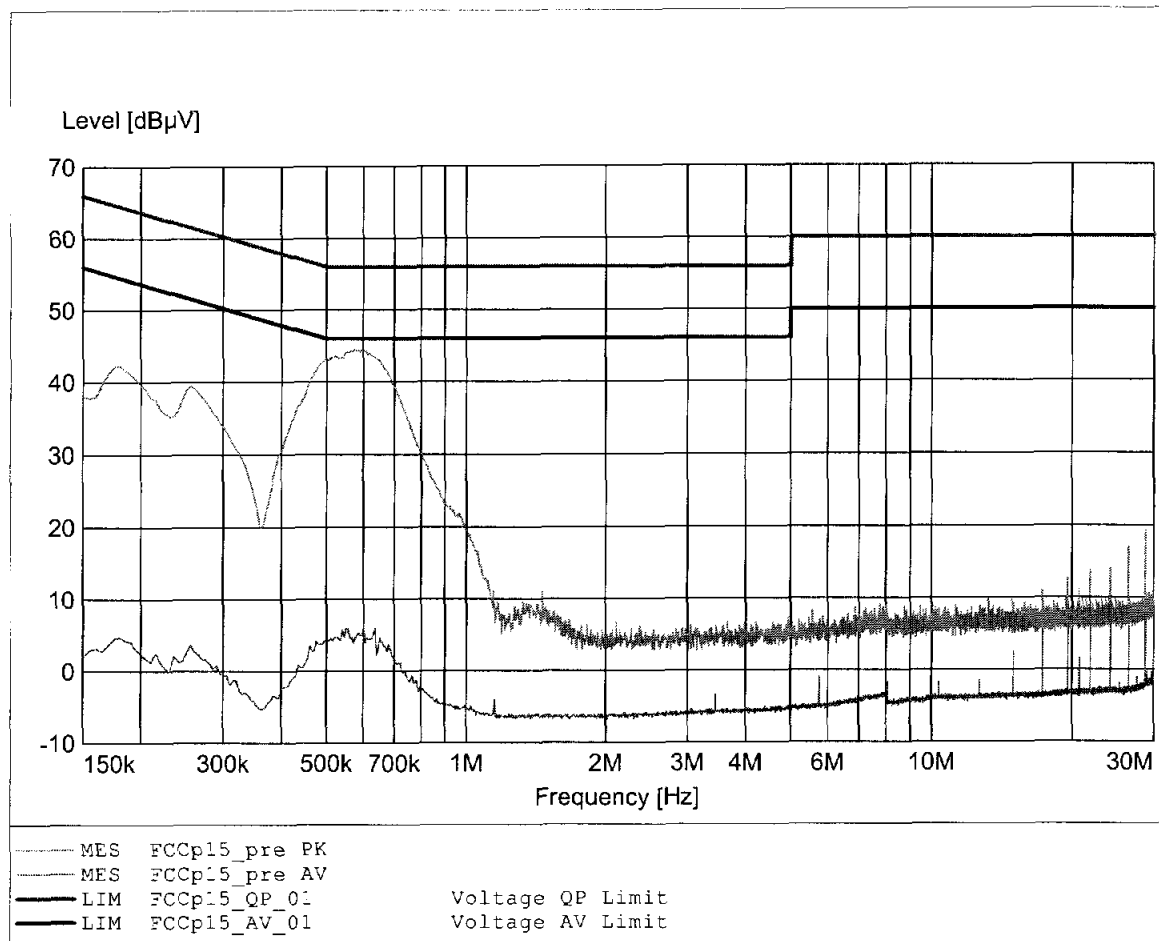
Reference to Subpart B

Appendix D

Conducted limits AC Power line

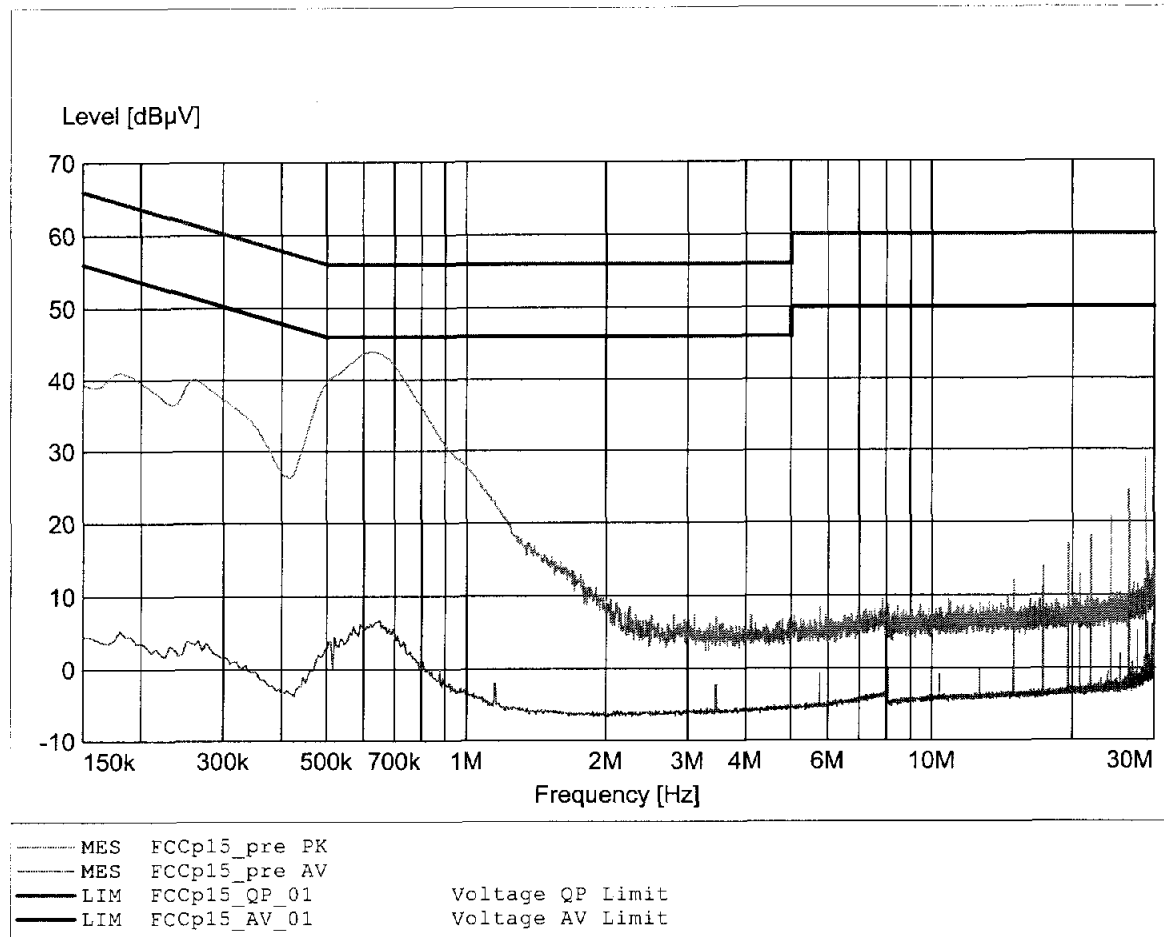
EMI voltage test in the ac-mains according to FCC part 15

EUT: DECT M5 Radio Module Ceotronics
Manufacturer: Ceotronics AG
Operating Condition: Unom: 230 VAC (AC/DC adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: M5Ceo_1 mode:link



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

EUT: DECT M5 Radio Module Ceotronics
Manufacturer: Ceotronics AG
Operating Condition: Unom: 320 VAC (AC/DC adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: M5Ceo_1 mode:link



Appendix E

Emission bandwidth

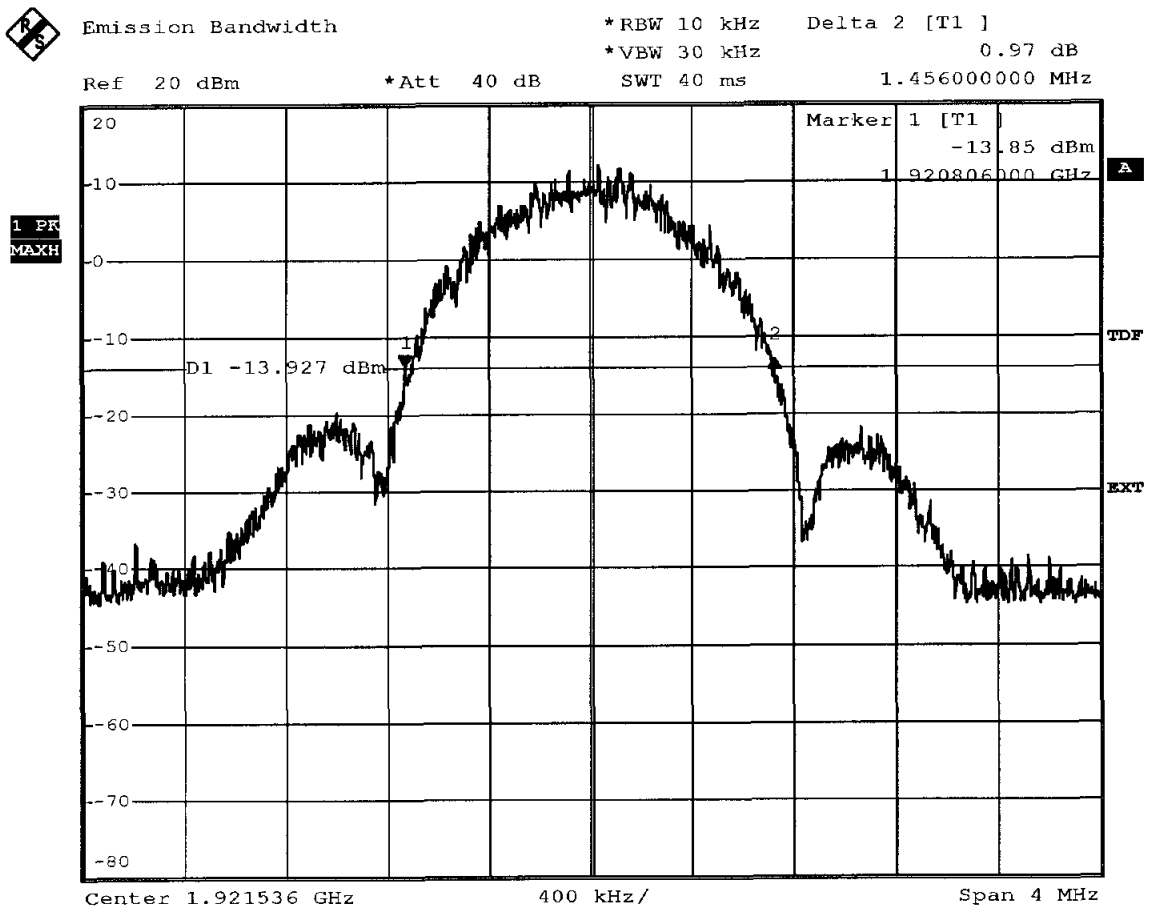
FCC Part 15.303(b) Emission bandwidth

Testprocedure ANSI 63.17-2006 6.1.3 UPCS

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.46MHz
Max. Permitted Power	Limit = 2.5 MHz

Test result	Verdict = PASS
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Comment: Ansi C63.17-2006 6.1.3
Date: 1.AUG.2007 08:38:01

Measurement diagram

ETS Product Service AG
Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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

-6 dB points

Lower frequency : 1921.18MHz
Higher frequency : 1921.844MHz

-12 dB points

Lower frequency : 1921.038MHz
Higher frequency : 1922.044MHz

FCC Part 15.303(b) Emission bandwidth

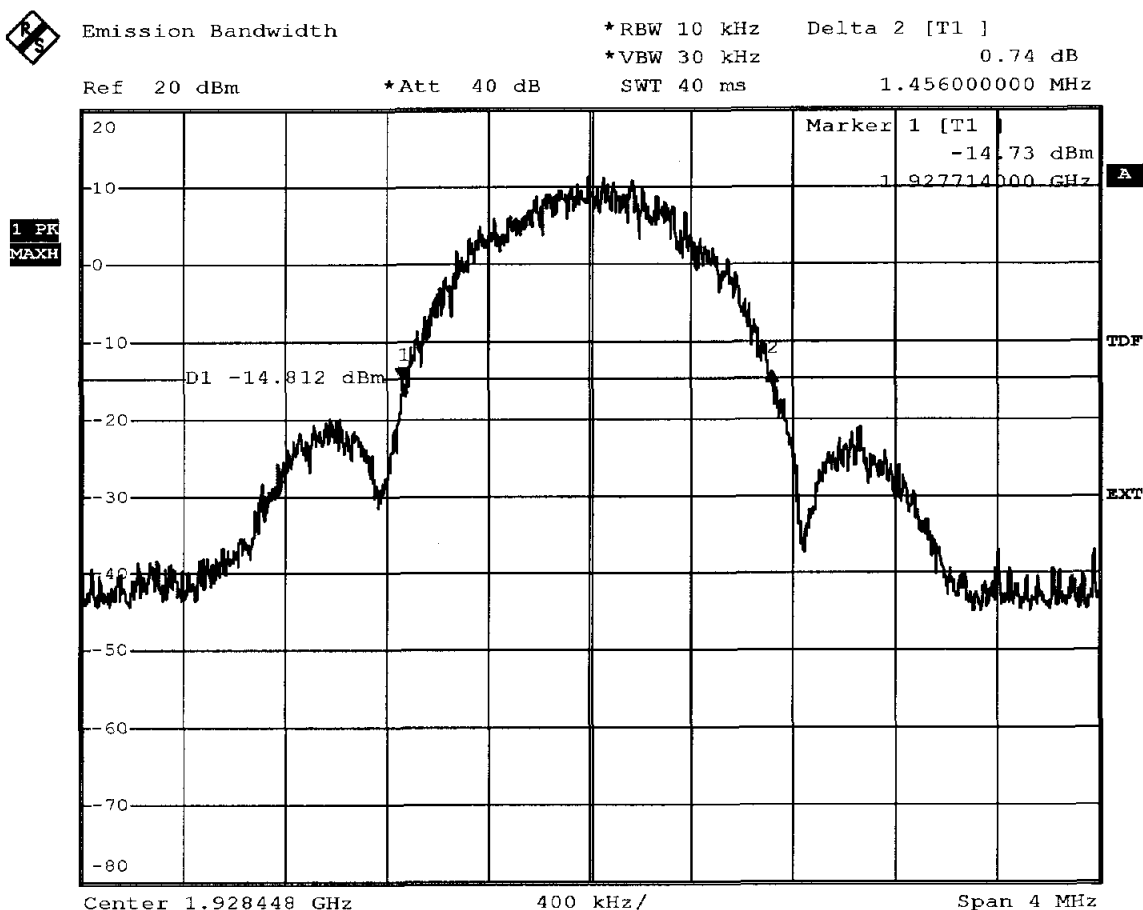
Testprocedure ANSI 63.17-2006 6.1.3

UPCS

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.3 Emission bandwidth

Measured Bandwidth	Emission Bandwidth = 1.46MHz
Max. Permitted Power	Limit = 2.5 MHz

Test result	Verdict = PASS
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Comment: Ansi C63.17-2006 6.1.3

Date: 1.AUG.2007 08:43:19

Measurement diagram

ETS Product Service AG

Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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

-6 dB points

Lower frequency : 1928.074MHz
Higher frequency : 1928.83MHz

-12 dB points

Lower frequency : 1927.922MHz
Higher frequency : 1929MHz

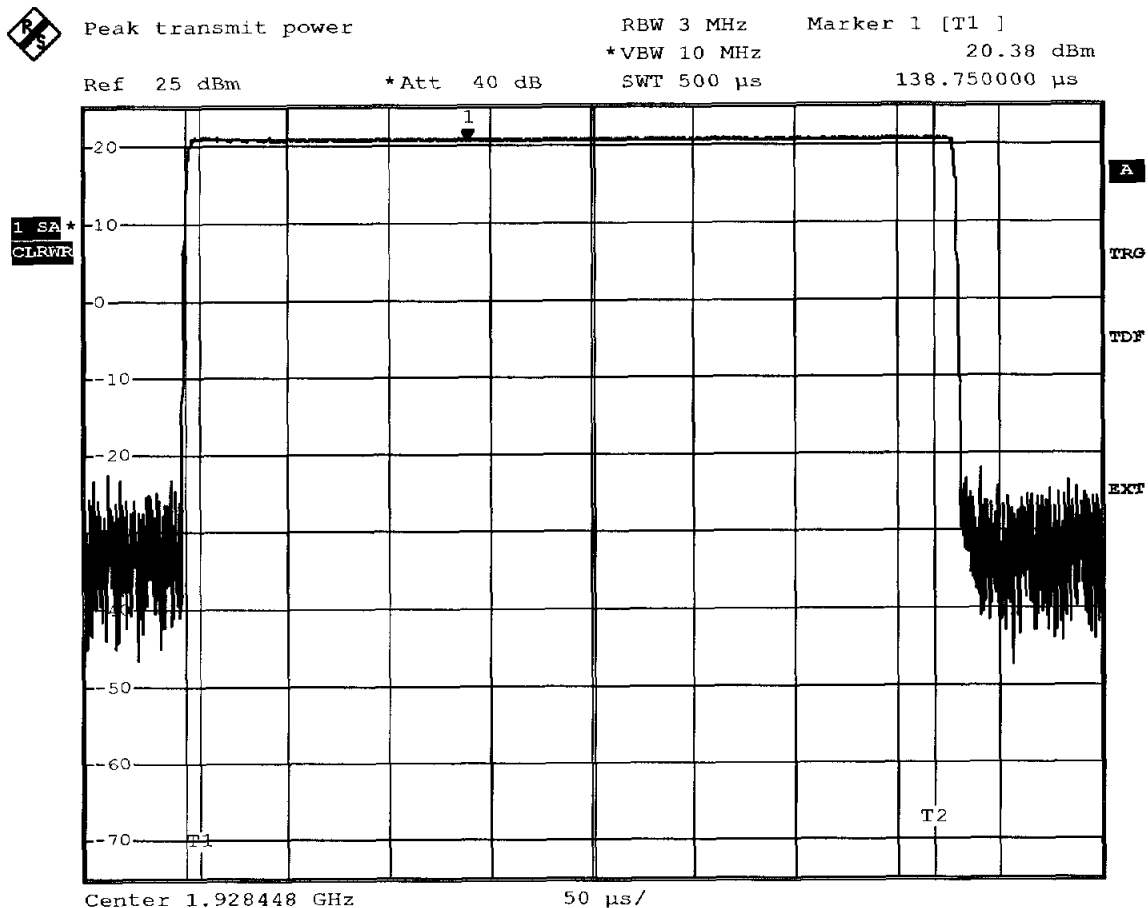
Appendix F

Peak Transmit Power

FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-2006 6.1.2 UPCS

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	1.456MHz
Max. Permitted Power	20,81 dBm
Measured Power	20,77 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-2006 6.1.2
 Date: 1.AUG.2007 08:48:29

Measurement diagram

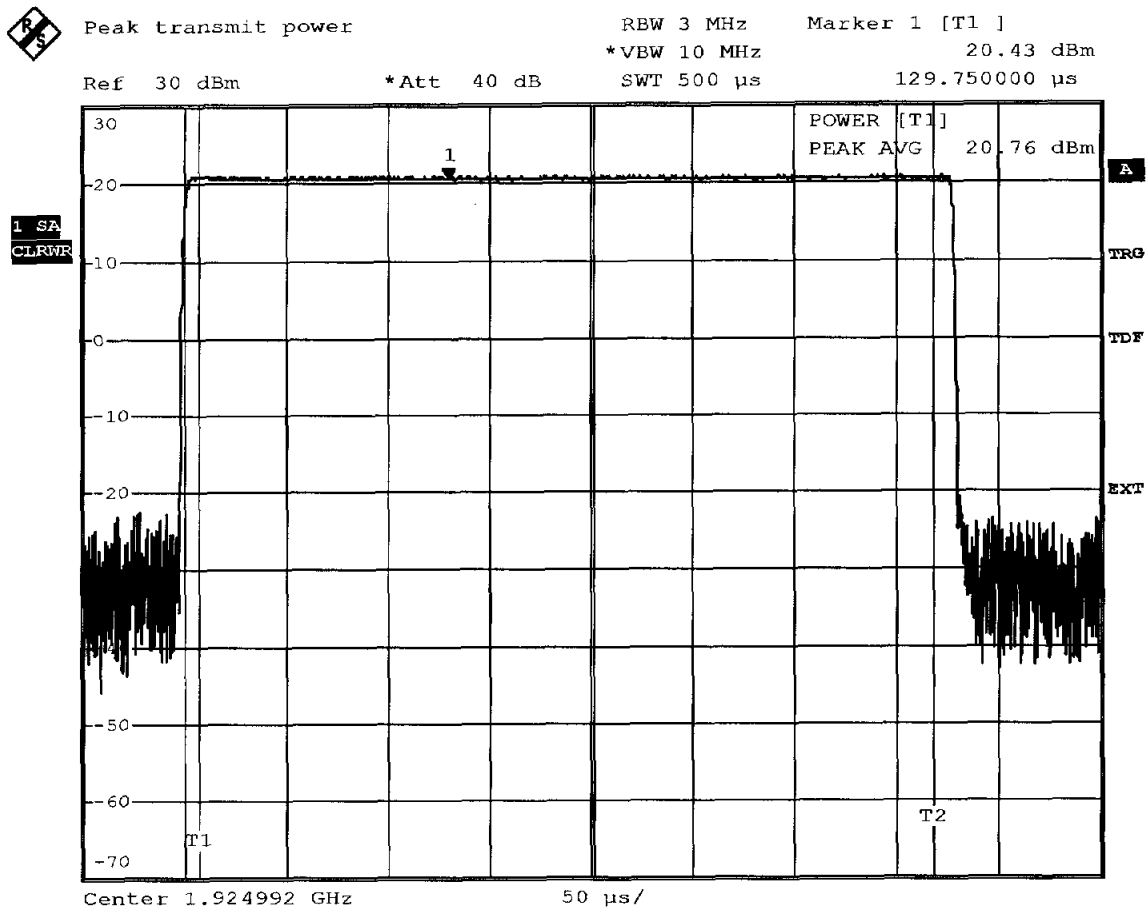
ETS Product Service AG
 Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-2006 6.1.2 UPCS

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	1.456MHz
Max. Permitted Power	20,81 dBm
Measured Power	20,76 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-2006 6.1.2
 Date: 1.AUG.2007 08:54:06

Measurement diagram

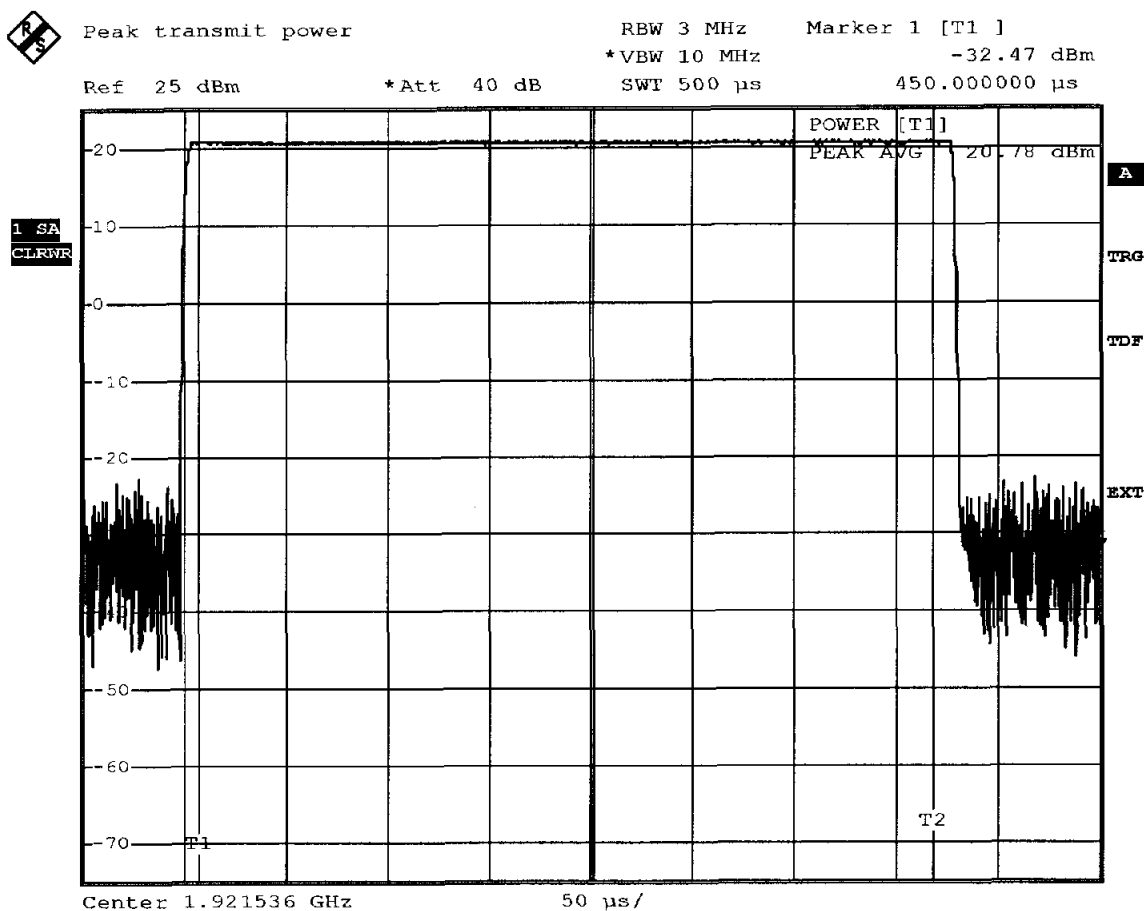
ETS Product Service AG
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FCC Part 15.319(c) Peak Transmit Power limit

Testprocedure ANSI 63.17-2006 6.1.2 UPCS

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.2 Peak transmit power
Supply	Vnom
Measured Bandwidth	1.456MHz
Max. Permitted Power	20,81 dBm
Measured Power	20,78 dBm
Test result	Verdict = PASS



Comment: Ansi C63.17-2006 6.1.2

Date: 1.AUG.2007 08:50:55

Measurement diagram

ETS Product Service AG

Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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Appendix G

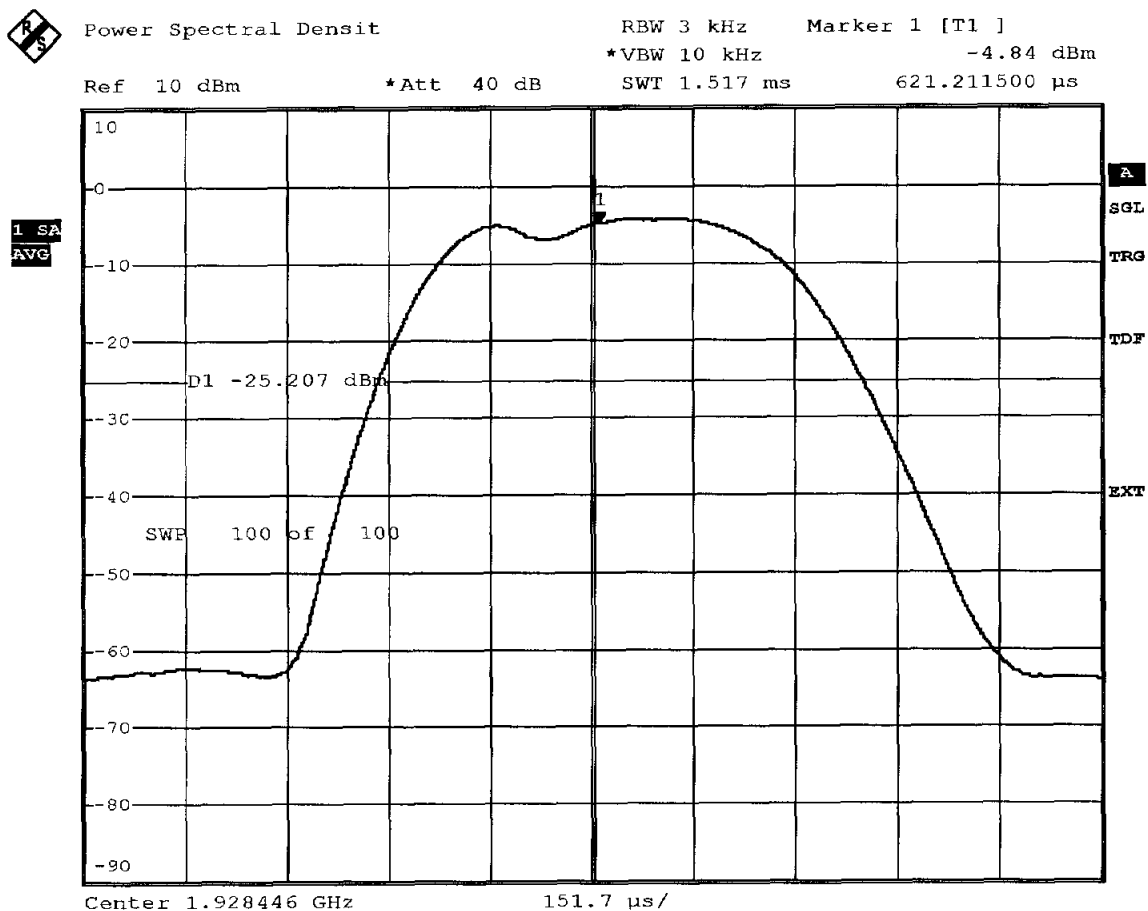
Power spectral density

FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5 UPCS

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1928,446000 MHz
Total pulse energy in mW	0,000147 mW
Wideband pulse duration in ms	0,379250 ms
PSD in mW	0,3875 mW
PSD in dBm	-4,1167 dBm

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



Comment: Ansi C63.17-2006 6.1.5
 Date: 1.AUG.2007 08:45:13

Measurement diagram

ETS Product Service AG

Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

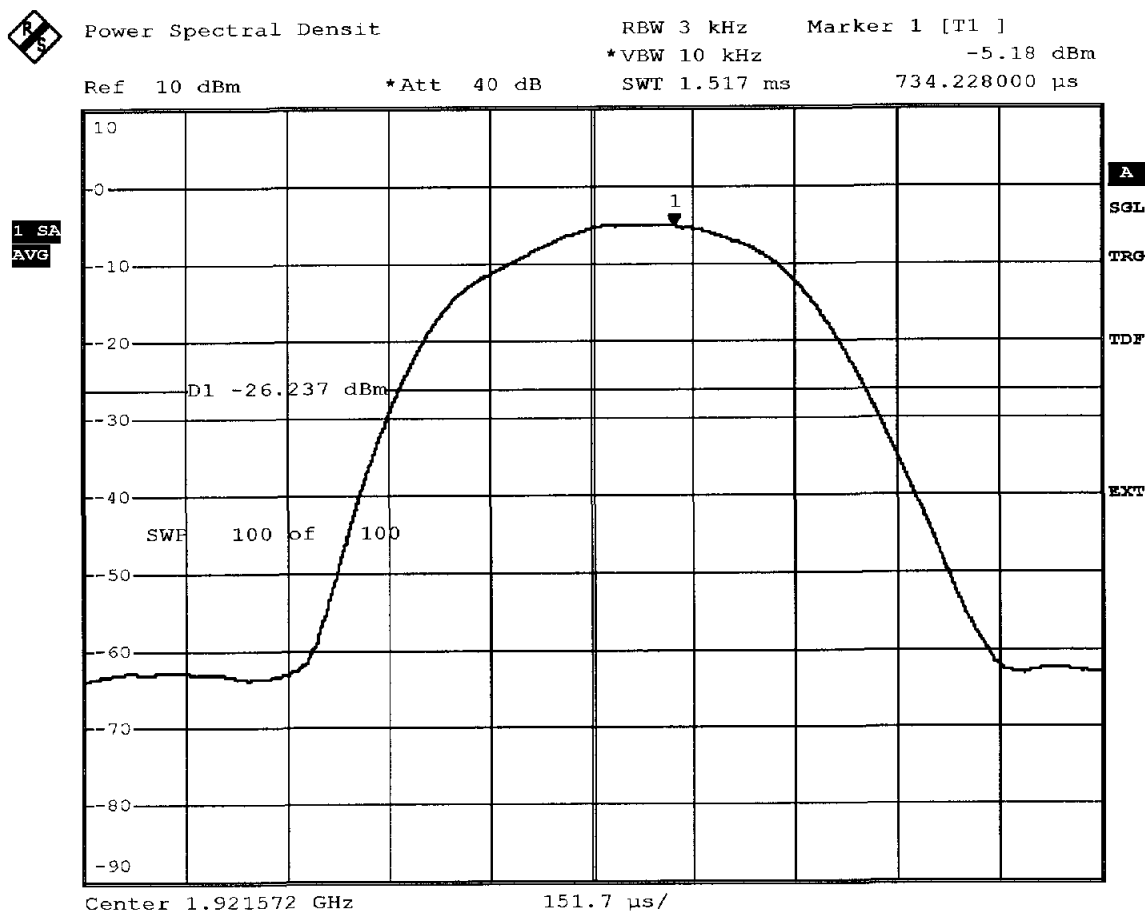
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FCC Part 15.319(d) Power spectral density

Testprocedure ANSI 63.17-2006 6.1.5 UPCS

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.5 Power spectral density
Peak Frequency in MHz	1921,572000 MHz
Total pulse energy in mW	0,000103 mW
Wideband pulse duration in ms	0,379250 ms
PSD in mW	0,2726 mW
PSD in dBm	-5,6455 dBm

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



Comment: Ansi C63.17-2006 6.1.5
 Date: 1.AUG.2007 08:40:44

Measurement diagram

ETS Product Service AG
 Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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Appendix H

Directional gain of the antenna

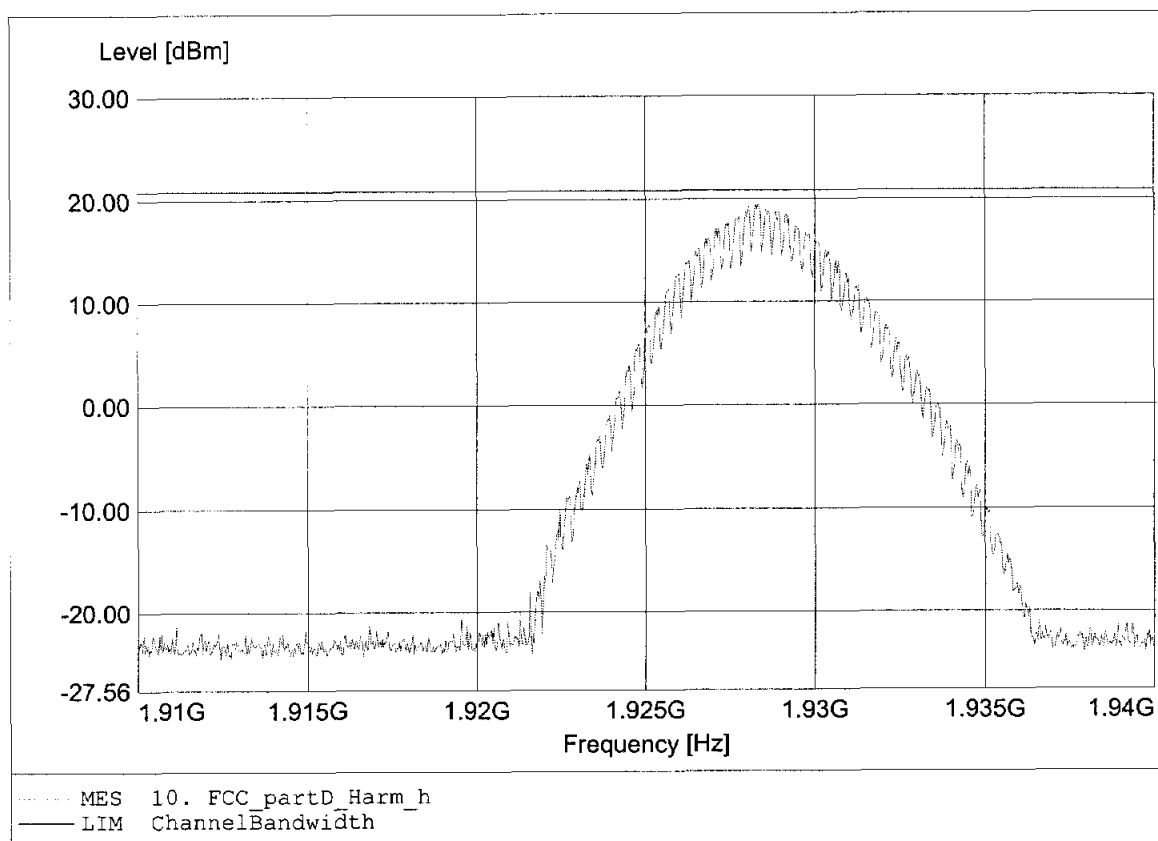
Appendix I

Radio frequency radiation exposure

Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

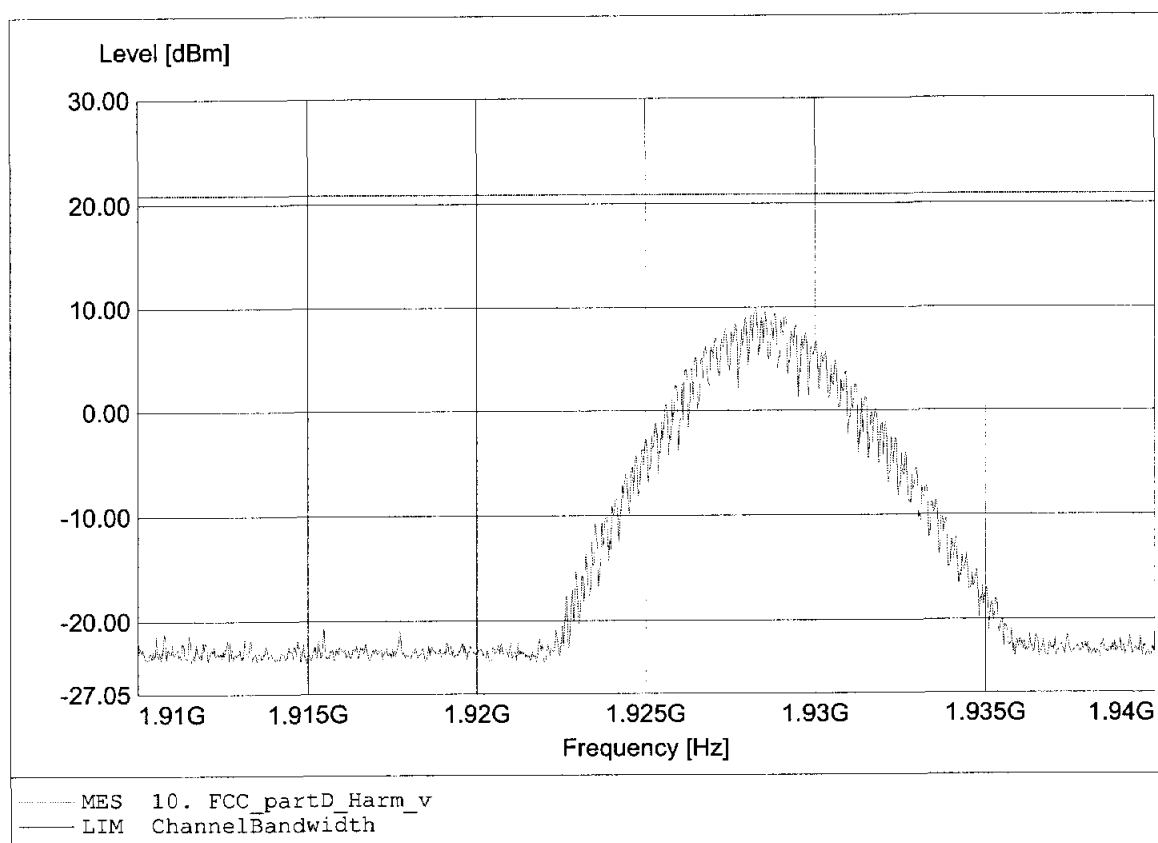
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:19.54dBm RBW: 5 MHz



Peak Transmit Power, Radiated

FCC RULES PART 15, SUBPART D

Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 025,
Comment 2: Freq:1.928GHz Pmax:10.00dBm RBW: 5 MHz



Appendix J

Monitoring threshold

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 01.08.2007 12:47:28
 Reference to the EUT G0M20707-0026 / M5Ceo_1
 Comment: 7.3.3_b
 DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:00:20.5156250	-57,4 -83,4	-85,8 -95,5	-86,2 -95,7	-86,3 -95,6	-86,2 -95,5	Interferer off
00:00:26.4062500	-52,5 -55,9	-55,7 -55,9	-55,3 -55,5	-68 -69	-74 -76,1	Interferer on
00:00:49.9375000	-55,4 -55,9	-55,4 -55,9	-54,8 -55,6	-50 -67,7	-21,7 -41,8	OK 1
00:00:54.6562500	-55,7 -55,9	-55,7 -55,9	-55,3 -55,6	-68,2 -69	-57,5 -75,5	
00:00:59.0937500	-55,2 -55,9	-55,4 -55,9	-54,7 -55,6	-51,3 -67,9	-22,3 -41,7	OK 2
00:01:03.6875000	-55,7 -55,9	-55,7 -55,9	-55,3 -55,6	-68 -69	-58,4 -75,6	
00:01:09.3281250	-55,1 -55,9	-55,3 -55,9	-54,6 -55,6	-49,8 -67,8	-22,5 -43	OK 3
00:01:14.5781250	-55,7 -55,9	-55,7 -55,9	-55,3 -55,5	-68,1 -69	-58,4 -75,5	
00:01:17.3437500	-55 -55,9	-55 -55,9	-54,7 -55,6	-50,2 -67,8	-22,2 -41,9	OK 4
00:01:19.4687500	-55,6 -55,9	-55,7 -55,9	-55,3 -55,5	-67,9 -69	-57,1 -75,6	
00:01:23.4375000	-54,9 -55,9	-55,4 -55,9	-54,8 -55,6	-49,2 -67,6	-22,4 -41,6	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 01.08.2007 12:50:20
 Reference to the EUT G0M20707-0026 / M5Ceo_1

 Comment: 7.3.3_c

DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:03:17.7031250	-86,3 -95,4	-85,1 -95,6	-86 -95,5	-86,4 -95,6	-57,5 -83,5	Interferer off
00:03:21.6718750	-55,7 -55,9	-55,6 -55,9	-55,3 -55,5	-74,2 -76	-56,6 -69	Interferer on
00:03:31.1406250	-55,3 -55,9	-55,5 -55,9	-48,6 -55,5	-22,2 -41,6	-55,6 -68,6	OK 1
00:03:33.2187500	-55,6 -55,9	-55,6 -55,9	-55,3 -55,5	-73,9 -76	-58,7 -69	
00:03:36.2031250	-55,3 -55,9	-55,1 -55,9	-49,7 -55,5	-22,3 -41,9	-56 -68,6	OK 2
00:03:38.8593750	-55,7 -55,9	-55,7 -55,9	-55,3 -55,5	-56,8 -75,3	-68,2 -69,1	
00:03:42.2187500	-55,6 -55,9	-55,5 -55,9	-48,3 -55,5	-22,2 -41,4	-55,7 -68,6	OK 3
00:03:45.0312500	-55,7 -55,9	-55,7 -55,9	-55,3 -55,5	-57,4 -75,3	-68 -69,1	
00:03:52.0312500	-55,6 -55,9	-55,4 -55,9	-48,9 -55,5	-21,9 -41,1	-57,2 -68,9	OK 4
00:03:59.1875000	-55,6 -55,9	-55,7 -55,9	-55,3 -55,5	-58,6 -75,3	-68,2 -69,1	
00:04:01.8125000	-55,5 -55,9	-55,2 -55,9	-50,2 -55,5	-21,9 -41,5	-54 -68,6	OK 5

Log file

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 01.08.2007 12:54:02
 Reference to the EUT G0M20707-0026 / M5Ceo_1

 Comment: 7.3.3_d

 DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:06:18.8437500	-85,7 -95,4	-86,6 -95,5	-57,7 -83,6	-86,1 -95,7	-85,8 -95,3	Interferer off
00:06:24.1093750	-55,7 -55,9	-51,7 -55,9	-55,3 -55,5	-73,3 -75	-78,1 -82	Interferer on
00:06:59.4843750	-55,1 -55,9	-55,4 -55,9	-54,4 -55,6	-50,2 -71,6	-22,3 -41,5	OK 1
00:07:01.9062500	-55,7 -55,9	-51,2 -55,9	-55,3 -55,5	-56,3 -74,4	-78,3 -82	
00:07:38.0468750	-55,2 -55,9	-55,4 -55,9	-55 -55,6	-50 -71,2	-21,9 -41,9	OK 2
00:07:40.9062500	-55,6 -55,9	-55,7 -55,9	-55,3 -55,5	-56,6 -74,4	-78,6 -81,9	
00:07:44.1406250	-55 -55,9	-55,2 -55,9	-54,5 -55,6	-51,4 -71,4	-22,5 -42	OK 3
00:07:47.2812500	-55,7 -55,9	-55,6 -55,9	-55,3 -55,5	-73,3 -75	-57,1 -79,7	
00:07:50.0625000	-55,2 -55,9	-55,1 -55,9	-55,2 -55,6	-50,7 -71,4	-22,3 -42,3	OK 4
00:07:52.6562500	-55,7 -55,9	-55,6 -55,9	-55,3 -55,5	-73,3 -75	-58,2 -80,1	
00:07:58.4375000	-55,2 -55,9	-55,4 -55,9	-54,7 -55,5	-51,4 -71,8	-22,1 -42,3	OK 5

Log file

ETS Product Service AG
 Storkower Str. 38C, D-15526 Reichenwalde

Test case Rev. Draft ANSI_7.3.3_least_interfered_channel.xml
 Date 01.08.2007 13:02:35
 Reference to the EUT GOM20707-0026 / M5Ceo_1
 Comment: 7.3.3_e
 DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:15:41.5312500	-52,3 -78,5	-86,2 -95,6	-85,9 -95,4	-86,6 -95,6	-86,3 -95,5	Interferer off
00:15:45.8750000	-51,3 -55,9	-55,7 -55,9	-55,3 -55,5	-78,3 -81,8	-73,4 -75,2	Interferer on
00:15:49.3437500	-48,5 -55,9	-55,4 -55,9	-50 -55,5	-22,4 -42,2	-56,3 -73,8	OK 1
00:15:51.7187500	-48,2 -55,9	-55,6 -55,9	-55,3 -55,5	-78 -81,8	-73,3 -75,1	
00:15:54.0312500	-48,8 -55,9	-55 -55,9	-47,5 -55,5	-22,4 -41,4	-56,2 -73,9	OK 2
00:15:57.7968750	-51,2 -55,9	-55,7 -55,9	-55,3 -55,5	-78,6 -81,8	-73,3 -75,2	
00:16:01.9218750	-55,3 -55,9	-55,1 -55,9	-49,2 -55,5	-21,7 -41,9	-52,6 -72,4	OK 3
00:16:04.7968750	-55,7 -55,9	-55,7 -55,9	-55,3 -55,5	-78,2 -81,8	-52 -73,4	
00:16:08.1718750	-55,5 -55,9	-55,2 -55,9	-47,3 -55,5	-22,4 -42	-52,5 -72,5	OK 4
00:16:10.9062500	-55,7 -55,9	-55,7 -55,9	-55,3 -55,5	-78,1 -81,8	-52,7 -73,8	
00:16:21.0468750	-55,5 -55,9	-55 -55,9	-47,2 -55,5	-22,3 -41,8	-52,9 -72,6	OK 5

Log file

Test case Rev. Draft ANSI_7.3.2_upper_threshold.xml
 Date 01.08.2007 10:00:32
 Reference to the EUT G0M20707-0026 / M5Ceo_1
 Comment: initial setup
 DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:02:49.3593750	-53,9 -54,1	-53,7 -53,9	-50,7 -53,6	-54 -54,2	-54 -54,2	-53.4 dBm
00:03:15.2343750	-54,8 -55	-52,9 -54,9	-54,4 -54,6	-55 -55,2	-54,9 -55,1	-54.4 dBm
00:03:40.2343750	-55,7 -56	-55,7 -55,9	-55,3 -55,5	-52,7 -55,9	-55,8 -56,1	-55.4 dBm
00:04:01	-56,7 -57	-52,2 -56,9	-56,5 -56,7	-56,6 -56,9	-56,8 -57,1	-56.4 dBm
00:04:23.7031250	-57,7 -58	-57,6 -57,9	-57,3 -57,7	-51,5 -57,9	-57,8 -58,1	-57.4 dBm
00:04:46.2500000	-58,7 -59	-52,3 -59	-58,3 -58,7	-58,6 -58,9	-58,7 -59,1	-58.4 dBm
00:05:08.9687500	-59,6 -60,1	-59,6 -60	-53,4 -59,6	-59,4 -59,9	-59,8 -60,2	-59.4 dBm
00:05:26.9218750	-60,7 -61,1	-53,1 -60,9	-60,3 -60,6	-60,6 -61	-60,7 -61,1	-60.4 dBm
00:05:51.0781250	-61,6 -62,1	-61,5 -61,9	-61,3 -61,8	-53,8 -62	-61,6 -62,1	-61.4 dBm
00:06:10.5937500	-55,6 -63,1	-62,4 -62,9	-62,3 -62,8	-62,4 -63	-62,6 -63,1	-62.4 dBm
00:06:45.2812500	-63,5 -64,1	-56 -63,9	-63,2 -63,7	-63,4 -64	-63,5 -64,1	-63.4 dBm
00:07:29.7343750	-57,7 -64,9	-64,3 -64,9	-64,2 -64,7	-64,3 -65	-64,6 -65,2	-64.4 dBm
00:07:46.5312500	-49,5 -65,3	-22,3 -41,5	-55,9 -65,5	-63,8 -66	-63,5 -66,2	Upper threshold level- 65.4dBm

 Log file

ETS Product Service AG
 Storkower Str. 38C, D-15526 Reichenwalde

Appendix K

Monitoring of intended transmit window and maximum reaction time

Test case Rev. Draft ANSI_7.5_reaction_time_high_ch.xml
 Date 01.08.2007 10:33:54
 Reference to the EUT G0M20707-0026 / M5Ceo_1
 Comment: 7.5_high_ch_50/35us
 DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:40:09.3437500	-86,5 -95,6	-86,1 -95,4	-85,9 -95,5	-86,8 -95,5	-57,5 -83,6	Interferer off
00:40:16.6250000	-22,3 -42,1	-56,7 -79,1	-73,4 -92,3	-73,7 -93	-57,3 -83,1	Test connection
00:40:30.0312500	-52,6 -55,9	-55,2 -55,4	-55,4 -55,6	-55,7 -55,9	-51,9 -67,3	50µs interferer on, no test connection
00:40:56.7500000	-75,5 -93	-71,6 -90,6	-51,2 -74,5	-22 -41,7	-57,4 -78,1	Test connection
00:41:02.4375000	-55,7 -55,9	-55,2 -55,4	-55,4 -55,6	-50,5 -55,9	-46,2 -63,7	35µs interferer on, no test connection

 Log file

Test case Rev. Draft ANSI_7.5_reaction_time_low_ch.xml
 Date 01.08.2007 10:41:09
 Reference to the EUT G0M20707-0026 / M5Ceo_1
 Comment: 7.5_low_ch_50/35us
 DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:47:16.2812500	-57,3 -83,2	-85,3 -95,5	-85,4 -95,5	-86,4 -95,5	-85,1 -95,5	Interferer off
00:47:23.2656250	-49,9 -73,3	-22,6 -41,8	-57,1 -79,2	-73,1 -92	-77,3 -93,5	Test connection
00:47:31.5937500	-50,9 -67	-55,7 -56	-55,2 -55,5	-55,6 -55,8	-55,8 -56	50µs interferer is on, no test connection
00:48:18.4062500	-72,3 -91,1	-50,8 -74,1	-22,4 -41,5	-56,5 -78,9	-72,1 -92	Test connection
00:48:25.0781250	-45,9 -62,7	-55,8 -56	-50,7 -55,4	-55,6 -55,8	-55,8 -56	35µs interferer is on, no test connection

Log file

Appendix L

Monitoring bandwidth

Appendix M

Random waiting interval

Appendix N

Duration of Transmission

Test case Rev. Draft
 ANSI_8.2.2._Transmission_duration_PP_only.xml
 Date 03.08.2007 12:52:58
 Reference to the EUT G0M20707-0026 / M5Ceo_1
 Comment: initial setup

DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:10:48.0312500	-86 -95,8	-62,9 -88,5	-86,1 -95,7	-62,7 -88,3	-86,1 -95,9	No test connection
00:10:58.3125000	-72,3 -91	-50,7 -74,2	-22,3 -41,9	-55,3 -78,2	-71,5 -91,3	Test connection on channel 2
00:40:58.5937500	-72,2 -91,2	-22,5 -41,9	-22,2 -42,1	-56,4 -79,2	-71,6 -90,8	Test connection on channel 2, change to channel 3
00:40:58.7812500	-50,2 -74	-21,8 -42	-56,3 -78,4	-74,4 -91,9	-75,5 -93,3	Test connection on channel 3
01:10:58.7187500	-51 -74,2	-22,7 -41,9	-55,5 -78,7	-50,4 -73,9	-22,3 -42,2	Test connection on channel 3, change to channel 0
01:10:59	-73 -91,7	-63 -87,9	-70,3 -91	-50,1 -73,8	-22,3 -42	Test connection on channel 0

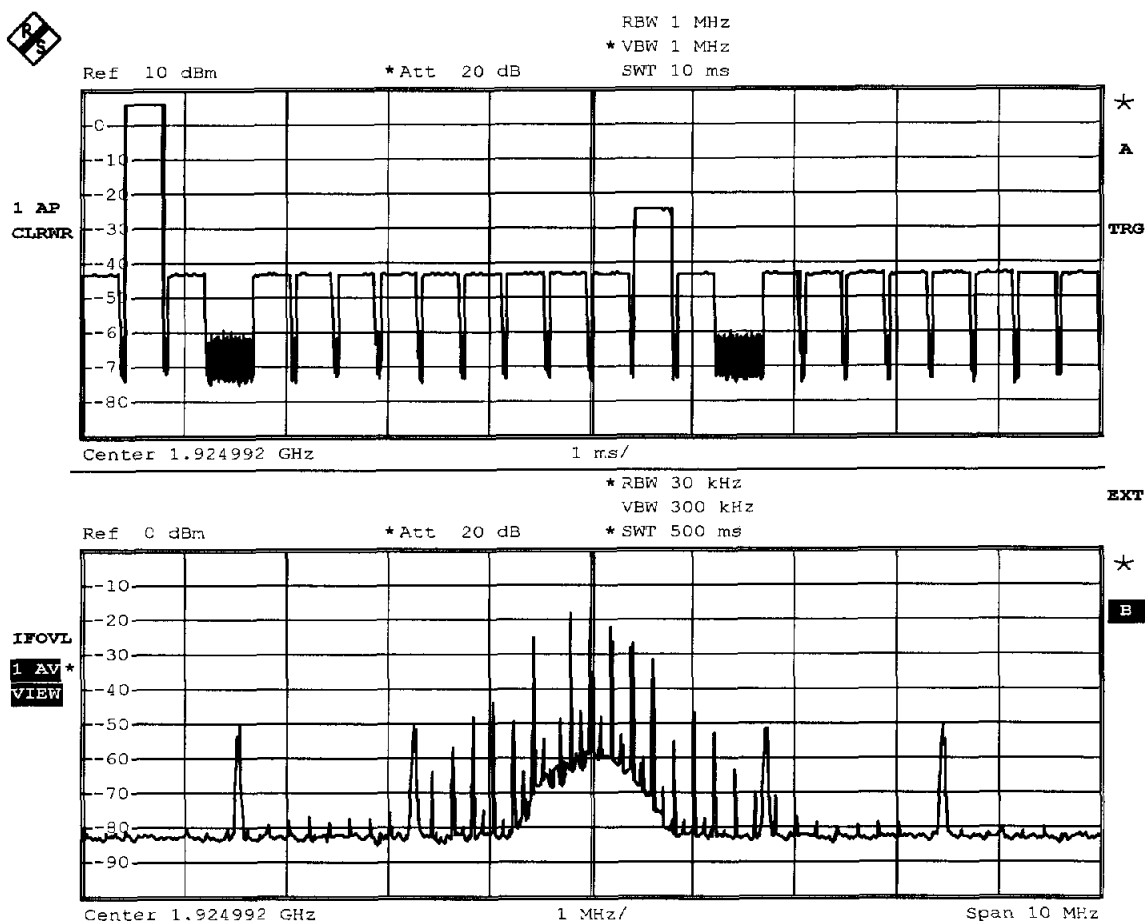
Log file

Appendix O

Connection acknowledgement

**ANSI C63.17-2006 Rev. Draft ANSI 8.2.1 Acknowledgements
UPCS1900**

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Approval Holder	Ceotronics AG
Temperature / Voltage	23°C / Vnom
Test Site / Operator	ETS / M.Schlaps
Test Specification	ANSI C63.17-2006 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

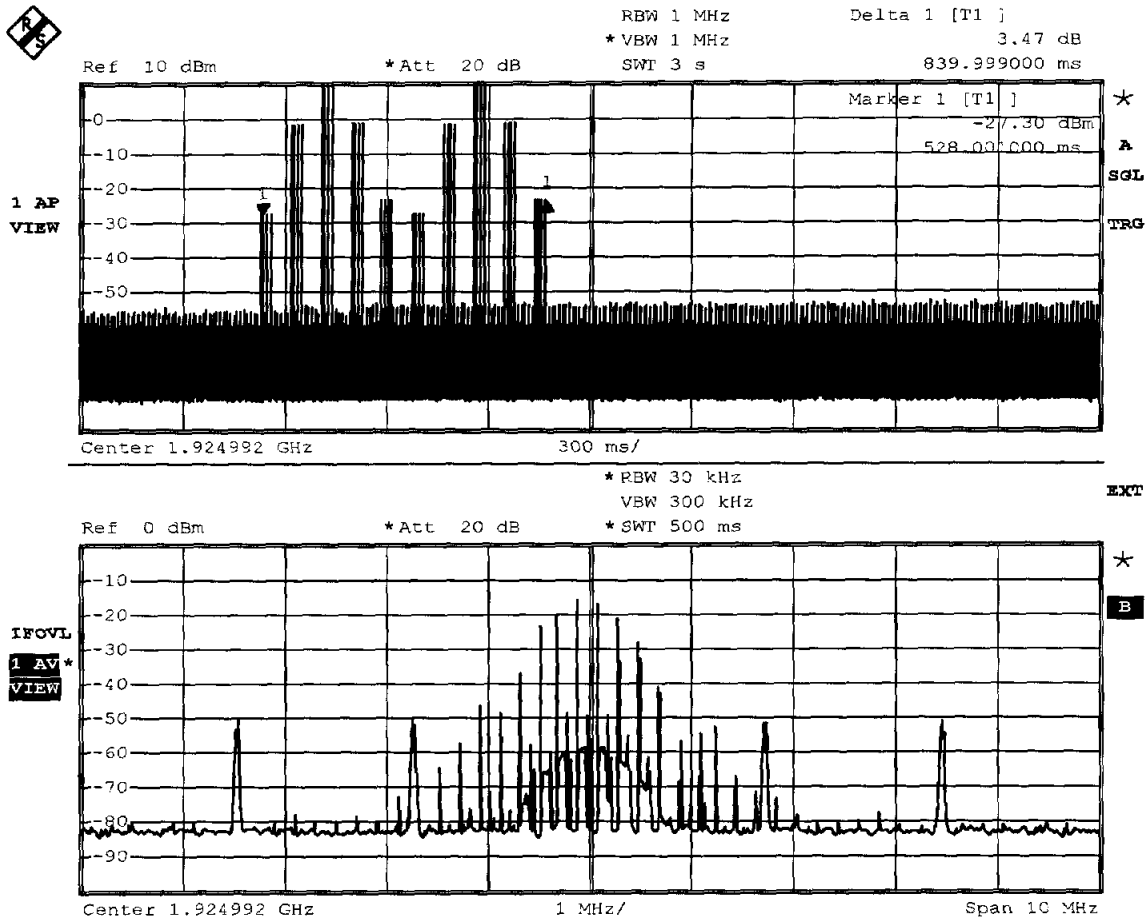


Comment: Ansi C63.17-1998 6.1.6.2
Date: 1.AUG.2007 11:06:50

Measurement diagram

**ANSI C63.17-2006 Rev. Draft ANSI 8.2.1 acknowledgements
UPCS1900**

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Approval Holder	Ceotronics AG
Temperature / Voltage	23°C / Vnom
Test Site / Operator	ETS / M.Schlaps
Test Specification	ANSI C63.17-2006 Rev. Draft ANSI 8.2.1 acknowledgements
Comment 1	paragraph a) blocked acknowledgements from the companion device
Comment 2	by blocking the Rx time slots from the companion device
Comment 3	The EUT cease transmission on the communications channel after 840 ms, Limit: < 1second



Comment: Ansi C63.17-1998 6.1.6.2
Date: 1.AUG.2007 11:29:20

Measurement diagram

Test case Rev. Draft ANSI_8.2.1_Acknowledgments_30s.xml
 Date 01.08.2007 10:49:55
 Reference to the EUT G0M20707-0026 / M5Ceo_1
 Comment: 8.2.1 Acknowledgments for b) and c)
 DECT M5 Radio Module Ceotronics
 Ceotronics AG

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	
00:00:39.6875000	-55,6 -55,9	-46,5 -55,8	-22,4 -42,1	-51,6 -55,8	-55,4 -56	Test connection
00:00:50.5781250	-55,5 -55,9	-50 -55,8	-22 -41,8	-51,5 -55,8	-55 -56	Block acknowledge- ments from the companion device
00:00:53.0937500	-55,7 -55,9	-55,6 -55,8	-86,4 -95,7	-55,6 -55,8	-55,8 -56	No transmissio n

 Log file

Appendix P

Selected channel, power accuracy, segment occupancy

Test case
confirmation.xml

Rev. Draft ANSI_7.3.4_selected channel

Date 01.08.2007 10:28:28

Reference to the EUT

G0M20707-0026 / M5Ceo_1

Comment:

initial setup

DECT M5 Radio Module Ceotronics
Ceotronics AG

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	
00:33:58.7500000	-85,9 -95,5	-57,5 -83,5	-87,1 -95,5	-86,3 -95,6	-86,7 -95,5	Interferer off
00:34:07.3281250	-55,7 -55,9	-52,9 -55,8	-55,2 -55,5	-73,8 -75,9	-73,8 -76,1	Interferer on
00:35:17.8437500	-55,2 -55,9	-55,1 -55,9	-47,3 -55,4	-22,3 -42,2	-55,1 -74,2	OK 1
00:35:48.5312500	-55,5 -55,9	-55,2 -55,8	-54,8 -55,5	-50,8 -71,1	-22 -41,5	OK 2

Log file

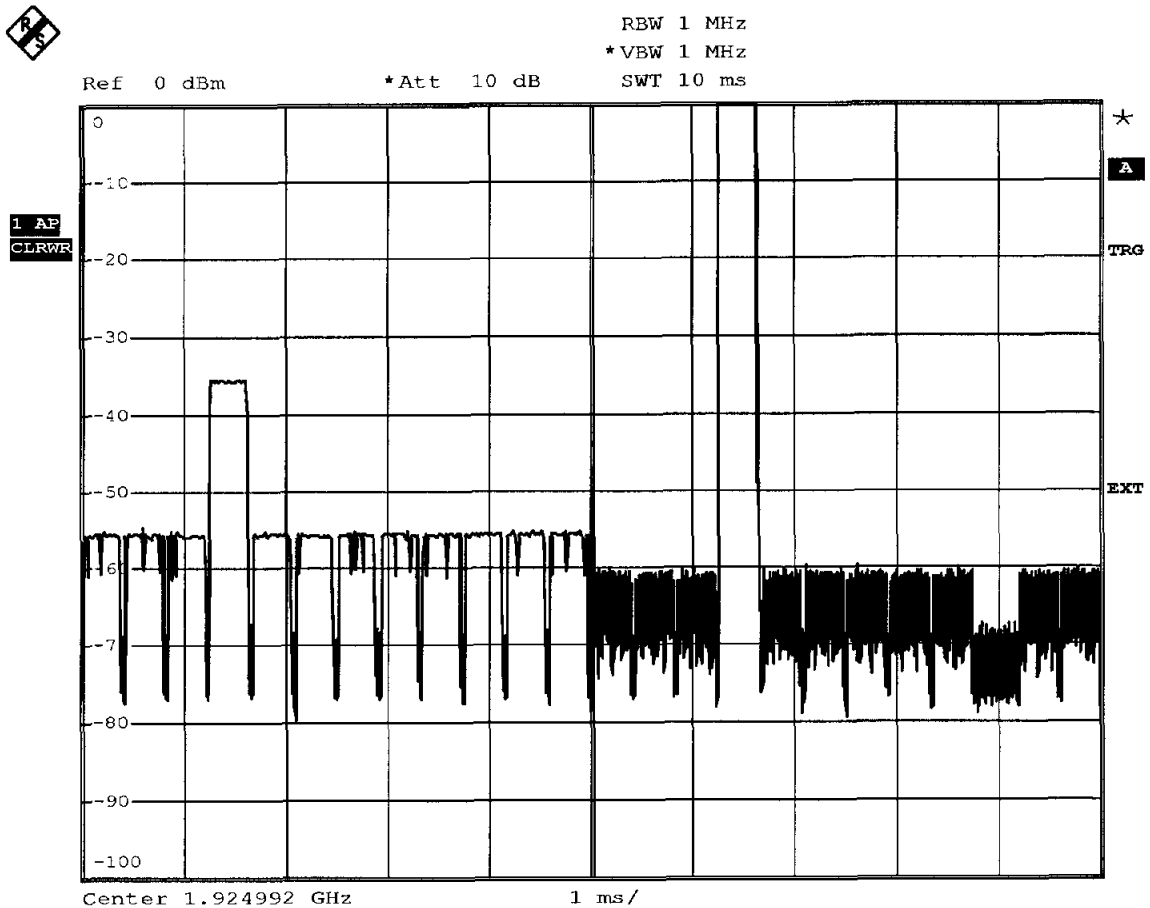
ETS Product Service AG
Storkower Str. 38C, D-15526 Reichenwalde

Appendix Q

Duplex connections

ANSI 8.3.2 Duplex connections
Subclause 8.3.2 (d)

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Approval Holder	Ceotronics AG
Temperature / Voltage	23°C / Vnom
Test Site / Operator	ETS / M.Schlaps
Test Specification	ANSI C63.17-2006 Revision Draft
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 6.1.6.2
Date: 1.AUG.2007 10:49:22

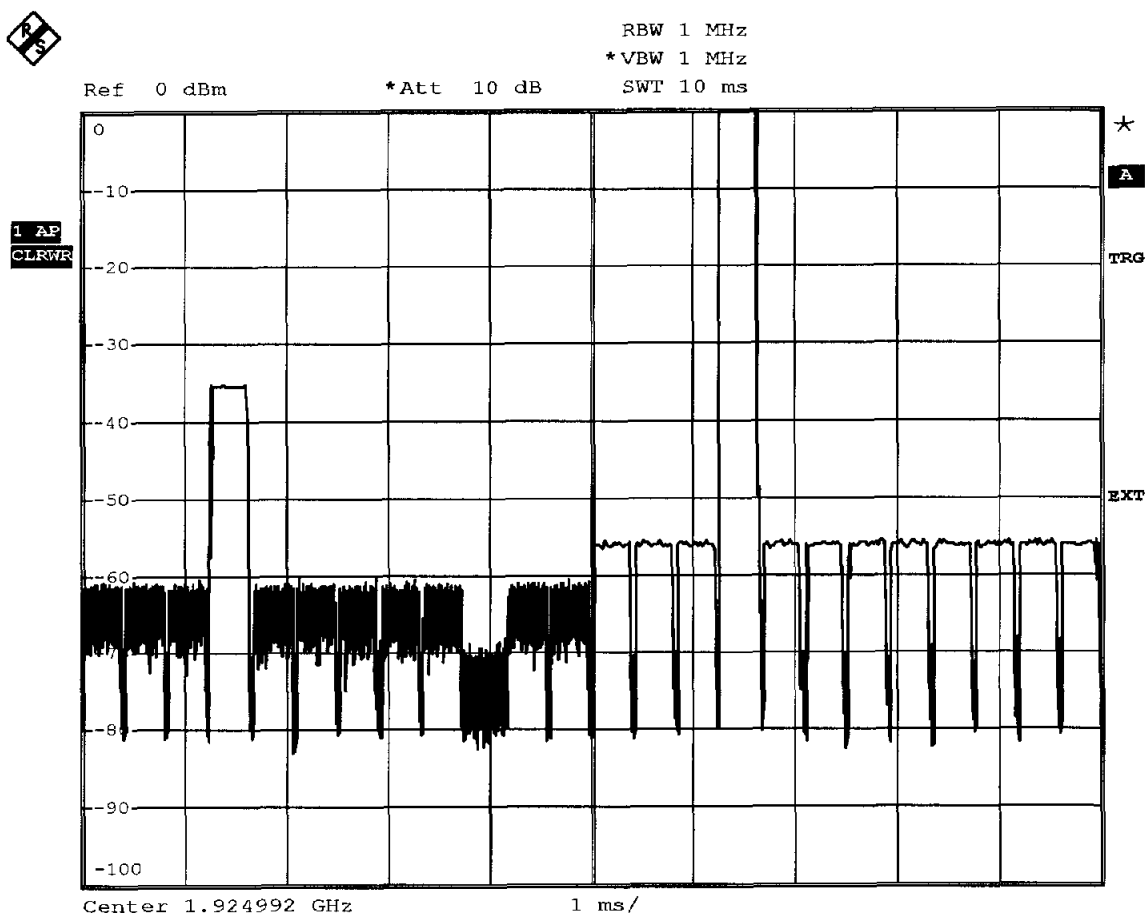
Measurement diagram

ETS Product Service AG
Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

Page 1 of 1

ANSI 8.2.3 Duplex connections
Subclause 8.3.2 (f)

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Approval Holder	Ceotronics AG
Temperature / Voltage	23°C / Vnom
Test Site / Operator	ETS / M.Schlaps
Test Specification	ANSI C63.17-2006 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 6.1.6.2
Date: 1.AUG.2007 10:52:39

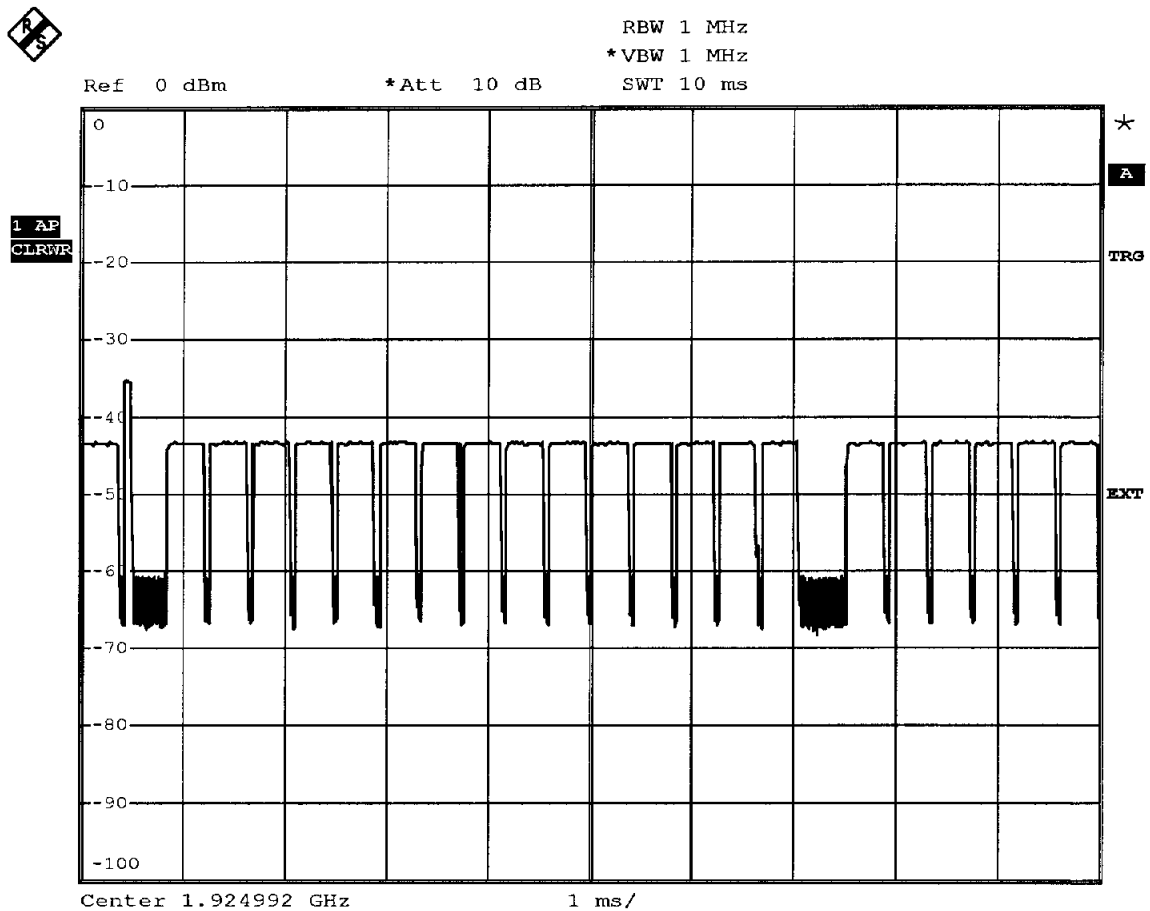
Measurement diagram

ETS Product Service AG
Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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ANSI 8.2.3 Duplex connections
Subclause 8.3.2 (g)

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Approval Holder	Ceotronics AG
Temperature / Voltage	23°C / Vnom
Test Site / Operator	ETS / M.Schlaps
Test Specification	ANSI C63.17-2006 Revision Draft
Comment 1	No connection establish 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 6.1.6.2
Date: 1.AUG.2007 10:55:17

Measurement diagram

ETS Product Service AG
Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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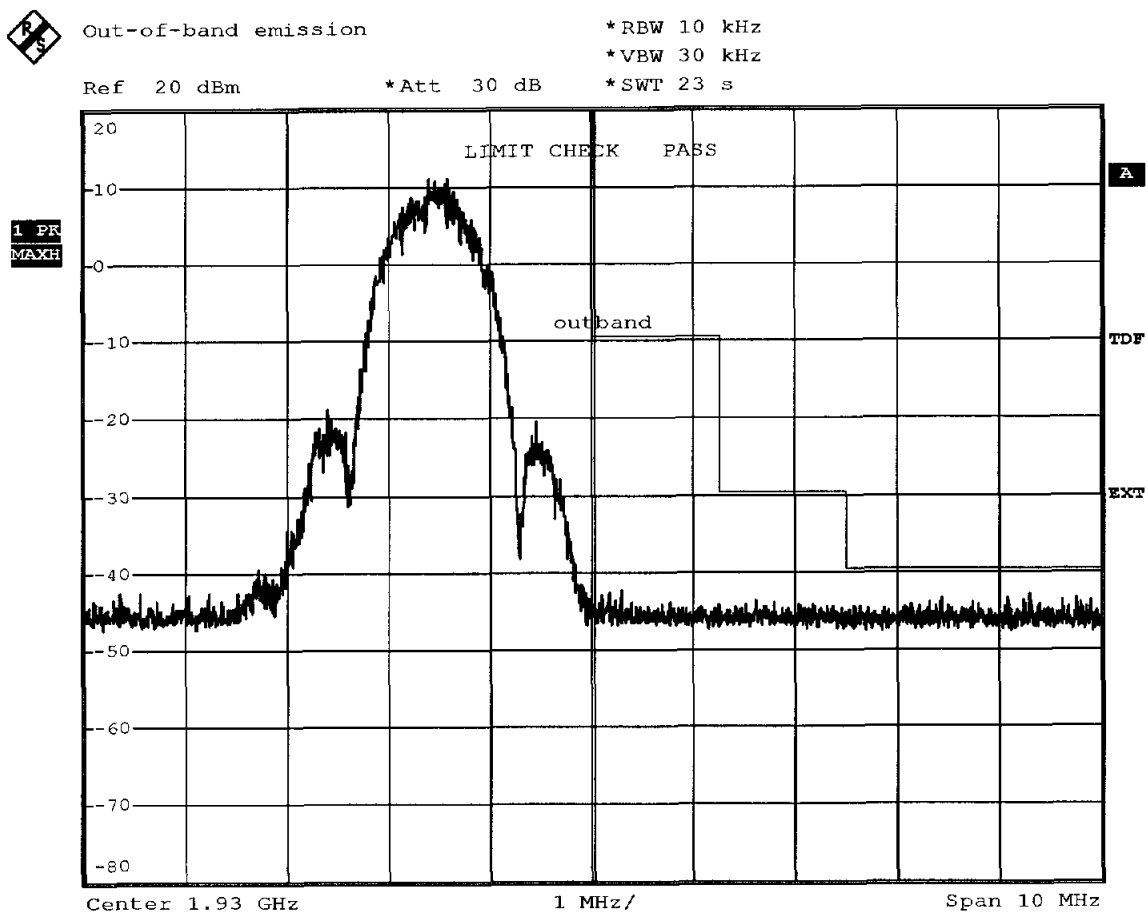
Appendix R

Emissions inside and outside the sub-band

FCC Part 15.323(d.1) Out-of-band emission**Testprocedure ANSI 63.17-2006 6.1.6.2
UPCS**

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.6.2 Out-of-band emission

measurement on the highest carrier
Carrier=1928.448MHz



Comment: Ansi C63.17-2006 6.1.6.2
Date: 1.AUG.2007 09:21:16

Measurement diagram

ETS Product Service AG

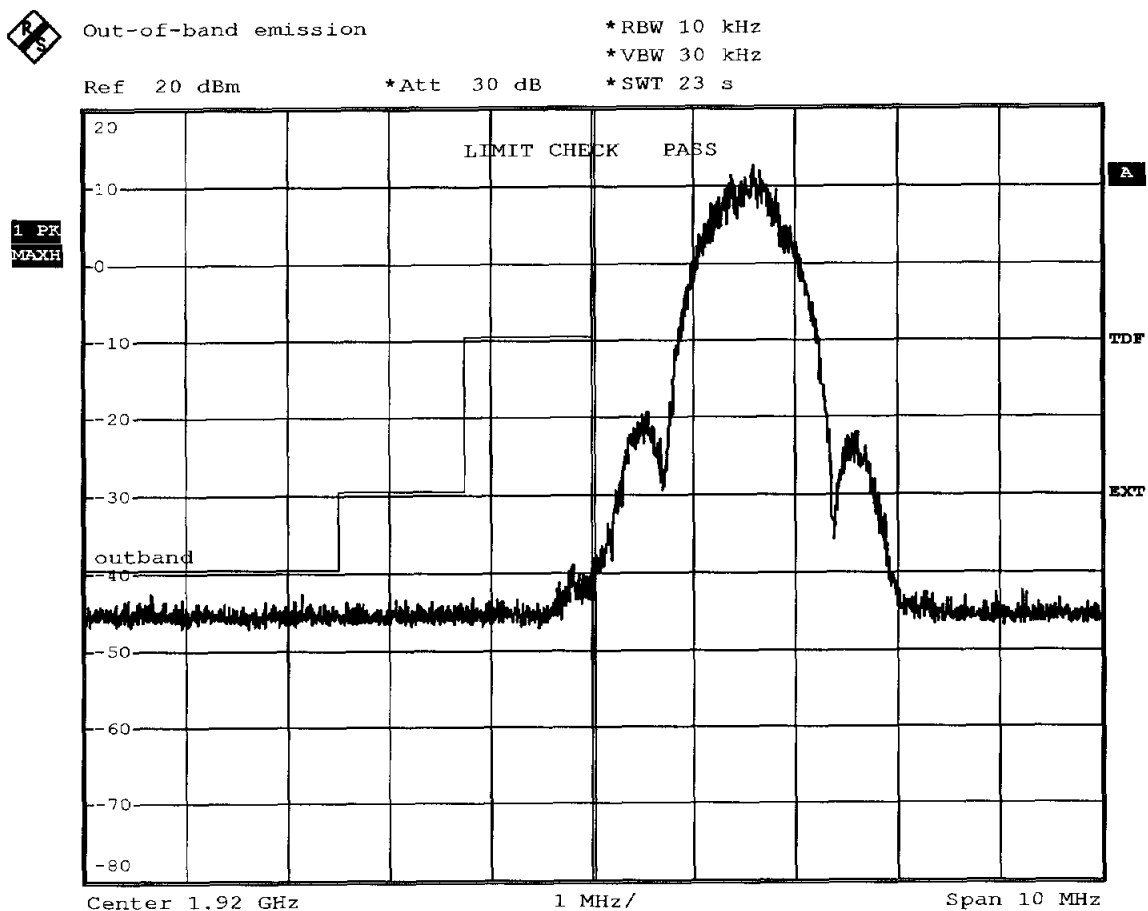
Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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FCC Part 15.323(d.1) Out-of-band emission**Testprocedure ANSI 63.17-2006 6.1.6.2
UPCS**

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.6.2 Out-of-band emission

measurement on the lowest carrier
Carrier=1921.536MHz



Comment: Ansi C63.17-2006 6.1.6.2
Date: 1.AUG.2007 09:16:10

Measurement diagram

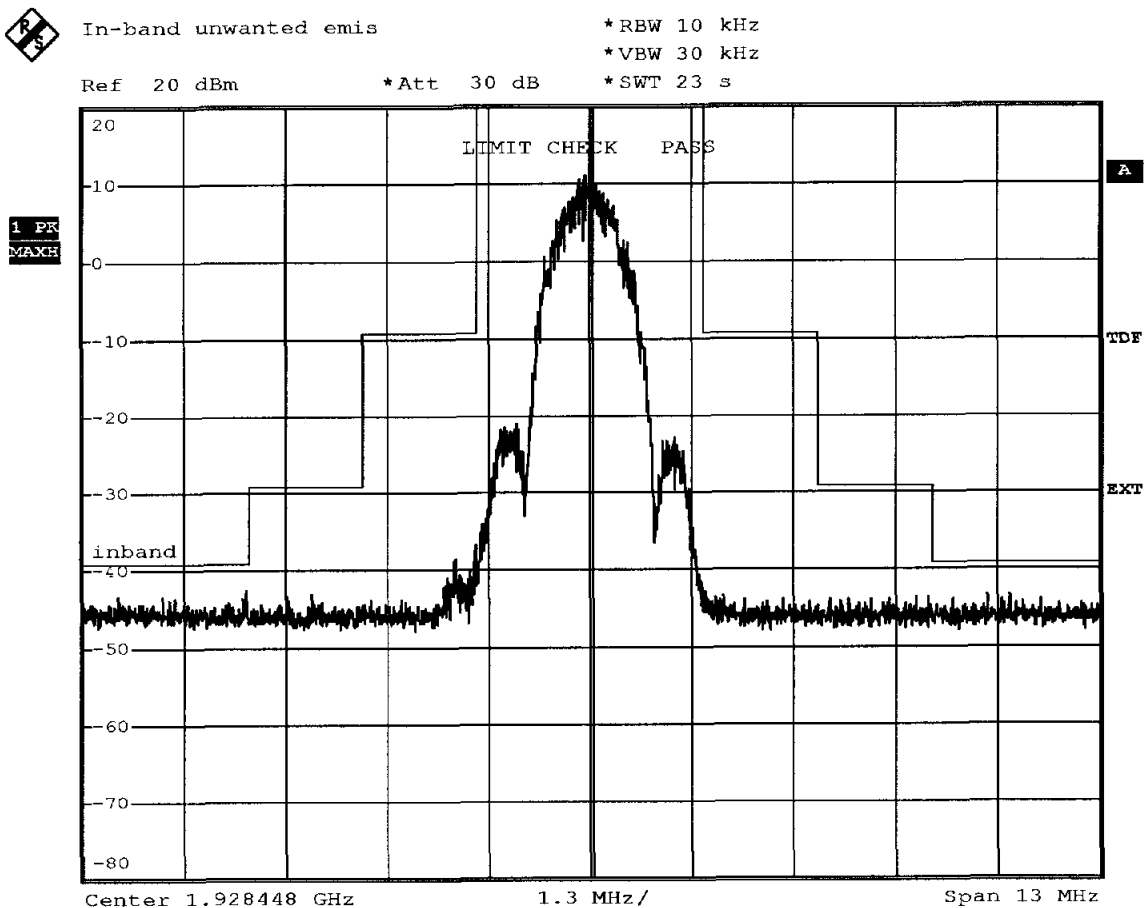
ETS Product Service AG
Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

Page 1 of 1

FCC Part 15.323(d.2) In-band unwanted emission**Testprocedure ANSI 63.17-2006 6.1.6.1
UPCS**

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.6.1 In-band unwanted emission

1.456MHz



Comment: Ansi C63.17-2006 6.1.6.1

Date: 1.AUG.2007 09:19:02

Measurement diagram

ETS Product Service AG

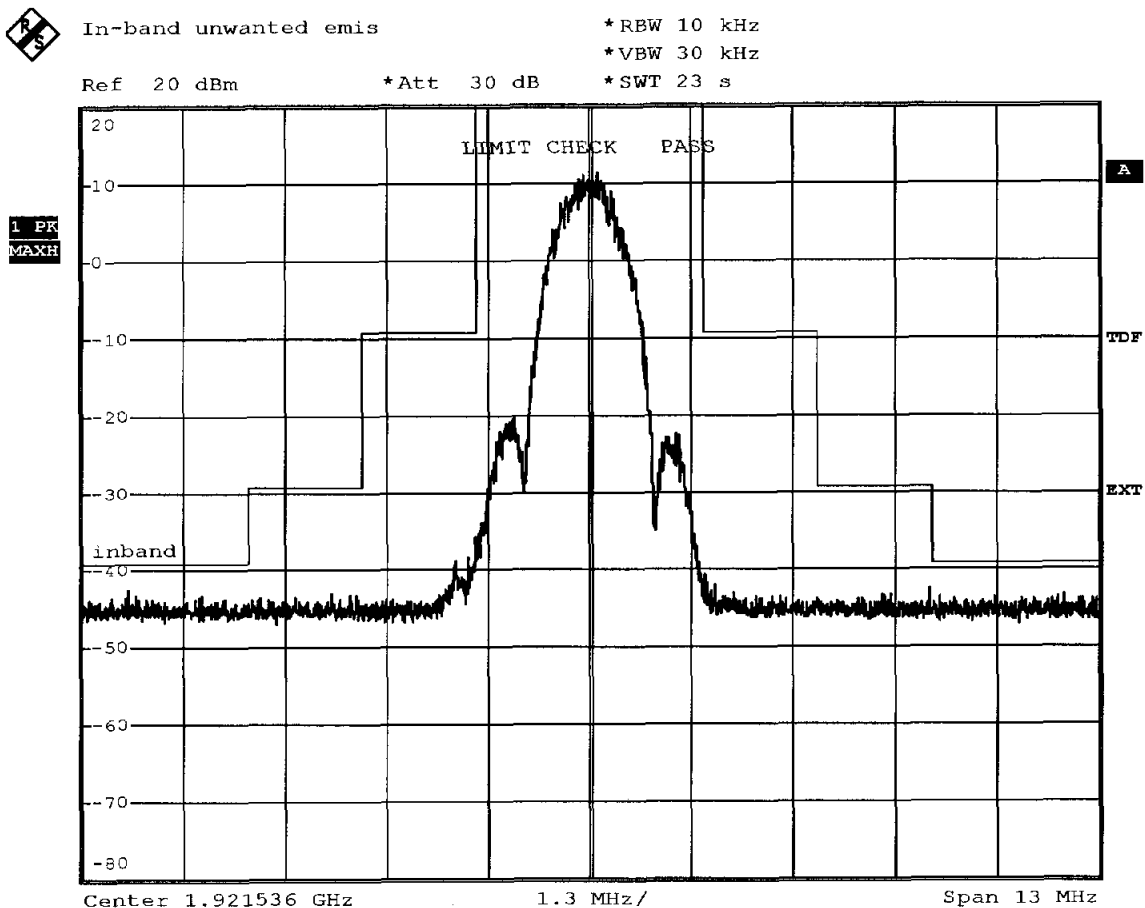
Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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FCC Part 15.323(d.2) In-band unwanted emission**Testprocedure ANSI 63.17-2006 6.1.6.1
UPCS**

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.1.6.1 In-band unwanted emission

1.456MHz



Comment: Ansi C63.17-2006 6.1.6.1
Date: 1.AUG.2007 09:13:16

Measurement diagram

ETS Product Service AG

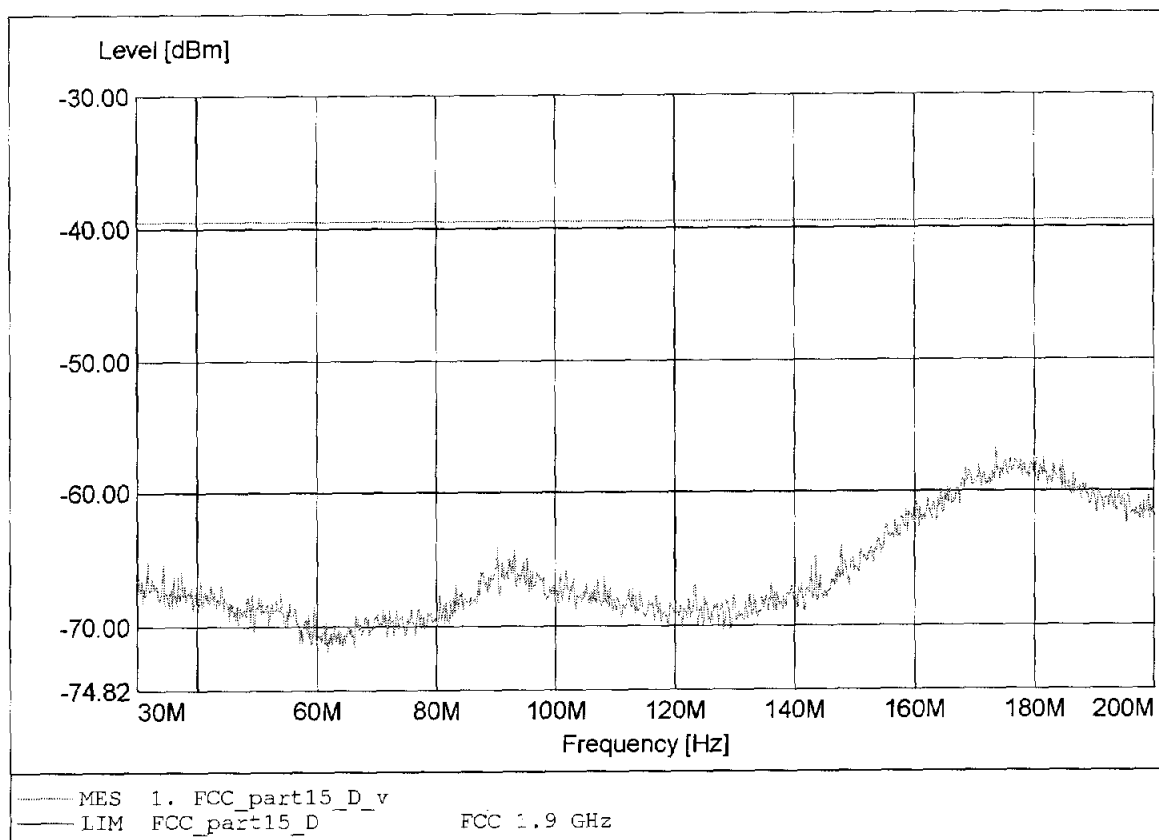
Storkower Str. 38C, D-15526 REICHENWALDE B. BERLIN

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Spurious emissions under normal conditions

FCC RULES PART 15, SUBPART D

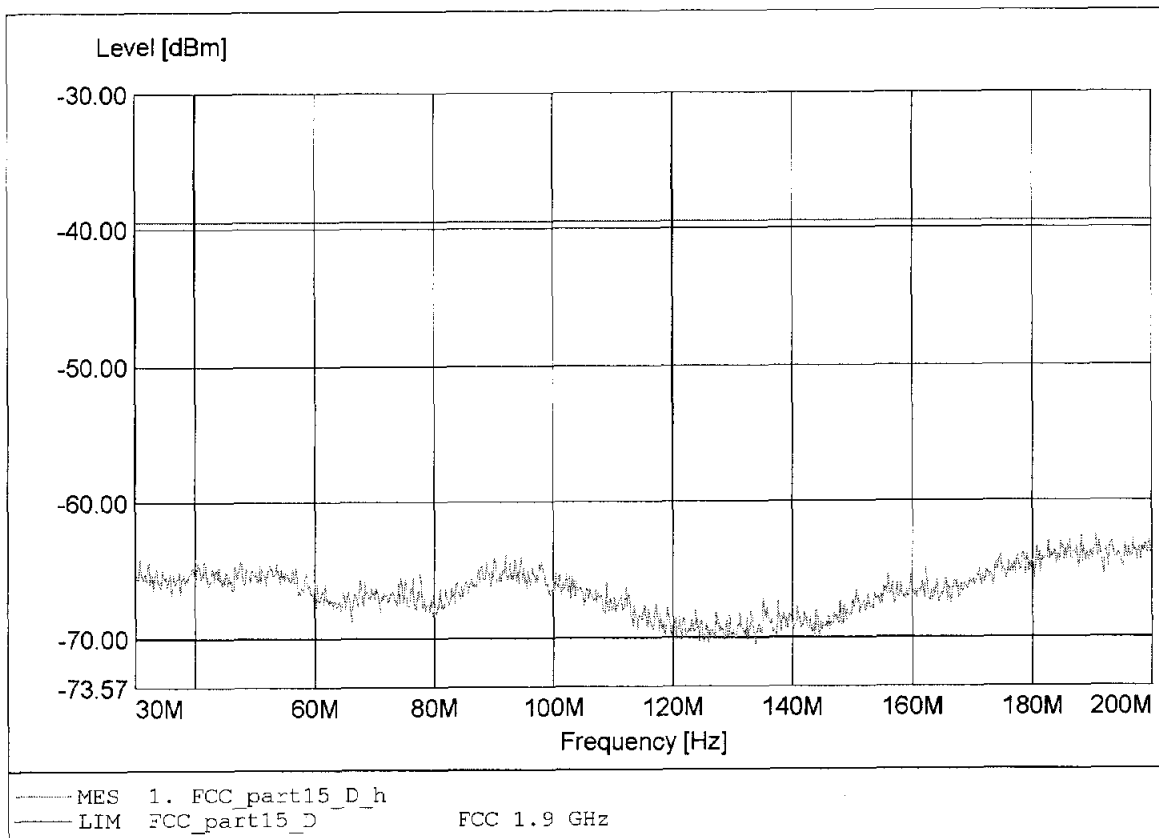
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116,
Comment 2: Freq:173.556MHz Pmax:-56.76dBm RBW: 100 kHz



Spurious emissions under normal conditions

FCC RULES PART 15, SUBPART D

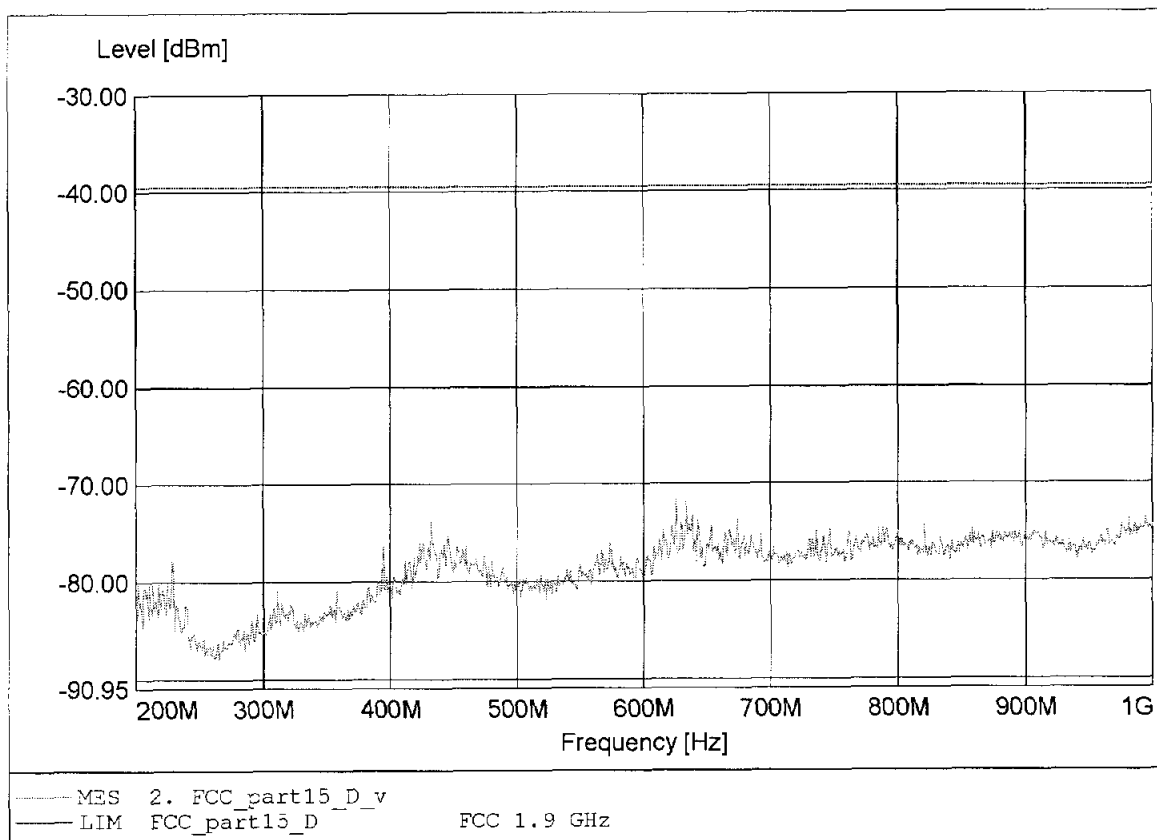
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cerovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116,
Comment 2: Freq:190.556MHz Pmax:-62.57dBm RBW: 100 kHz



Spurious emissions under normal conditions

FCC RULES PART 15, SUBPART D

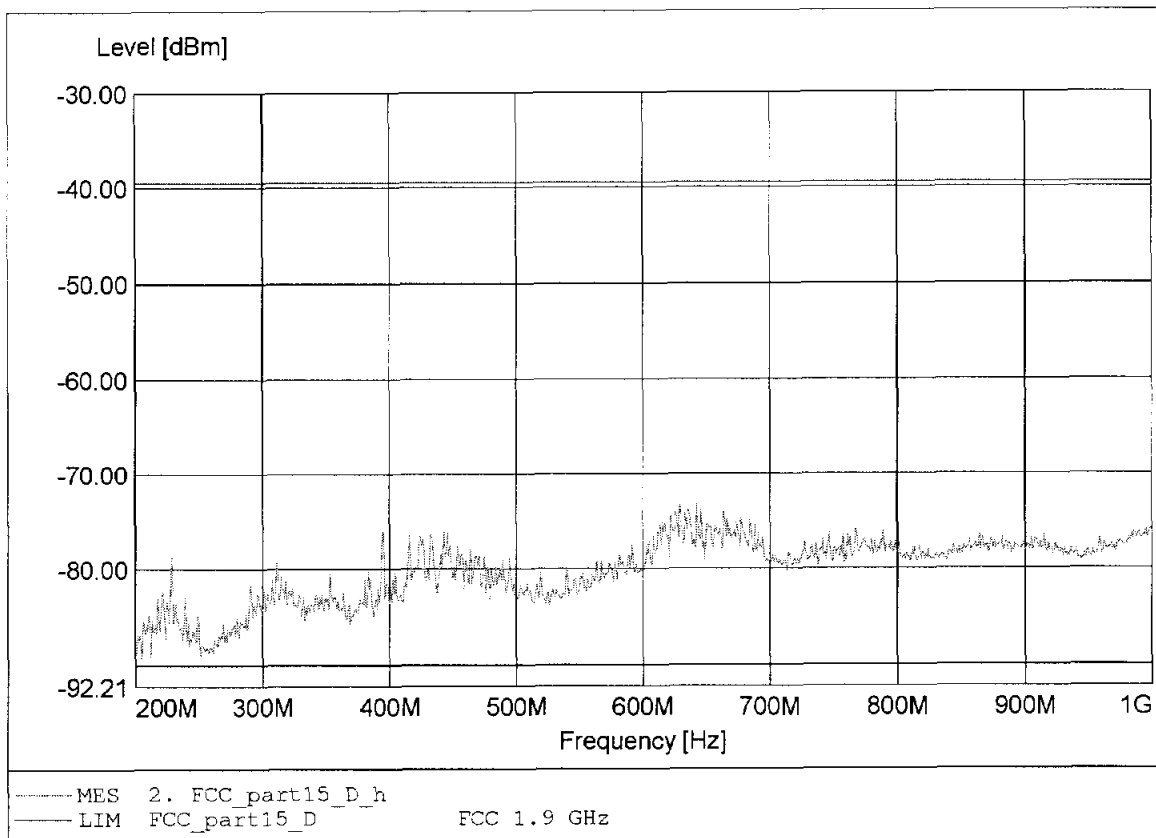
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq: 625.778MHz Pmax: -71.72dBm RBW: 100 kHz



Spurious emissions under normal conditions

FCC RULES PART 15, SUBPART D

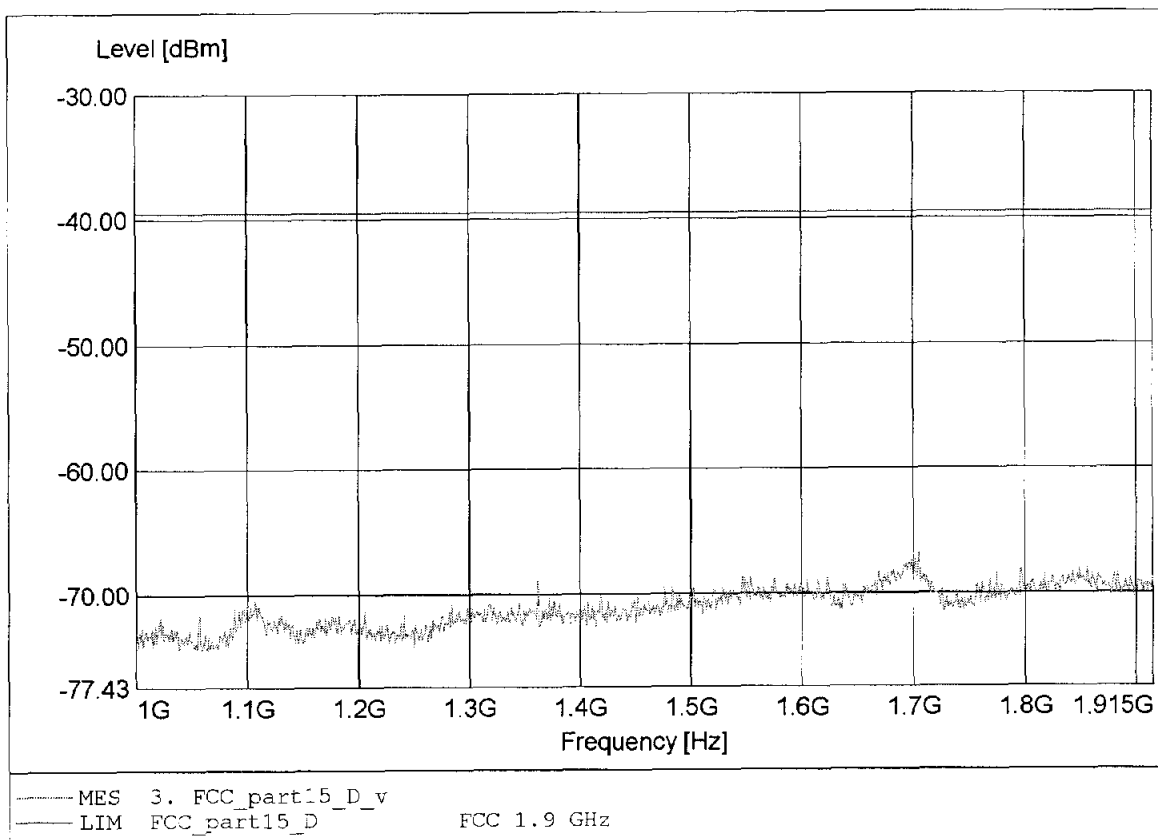
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cerovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:629.333MHz Pmax:-73.19dBm RBW: 100 kHz



Spurious emissions under normal conditions

FCC RULES PART 15, SUBPART D

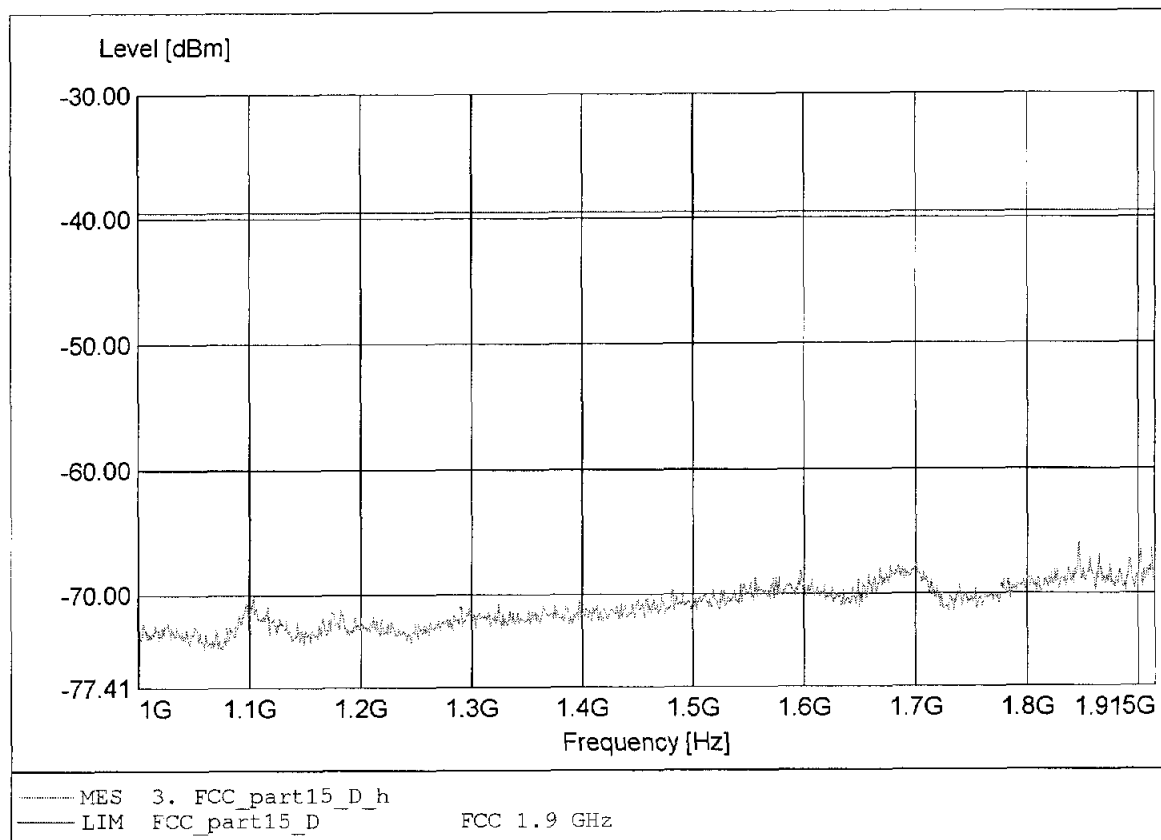
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:1.705GHz Pmax:-66.75dBm RBW: 100 kHz



Spurious emissions under normal conditions

FCC RULES PART 15, SUBPART D

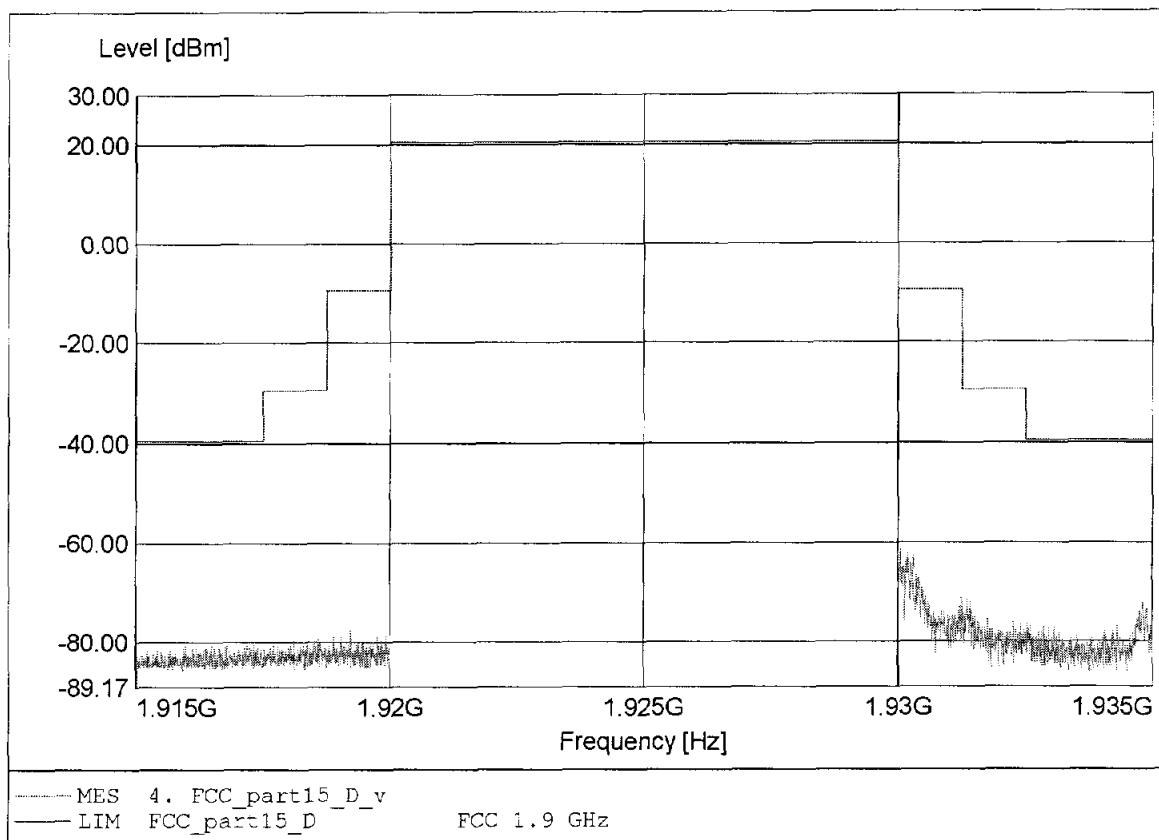
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:1.846GHz Pmax:-65.89dBm RBW: 100 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

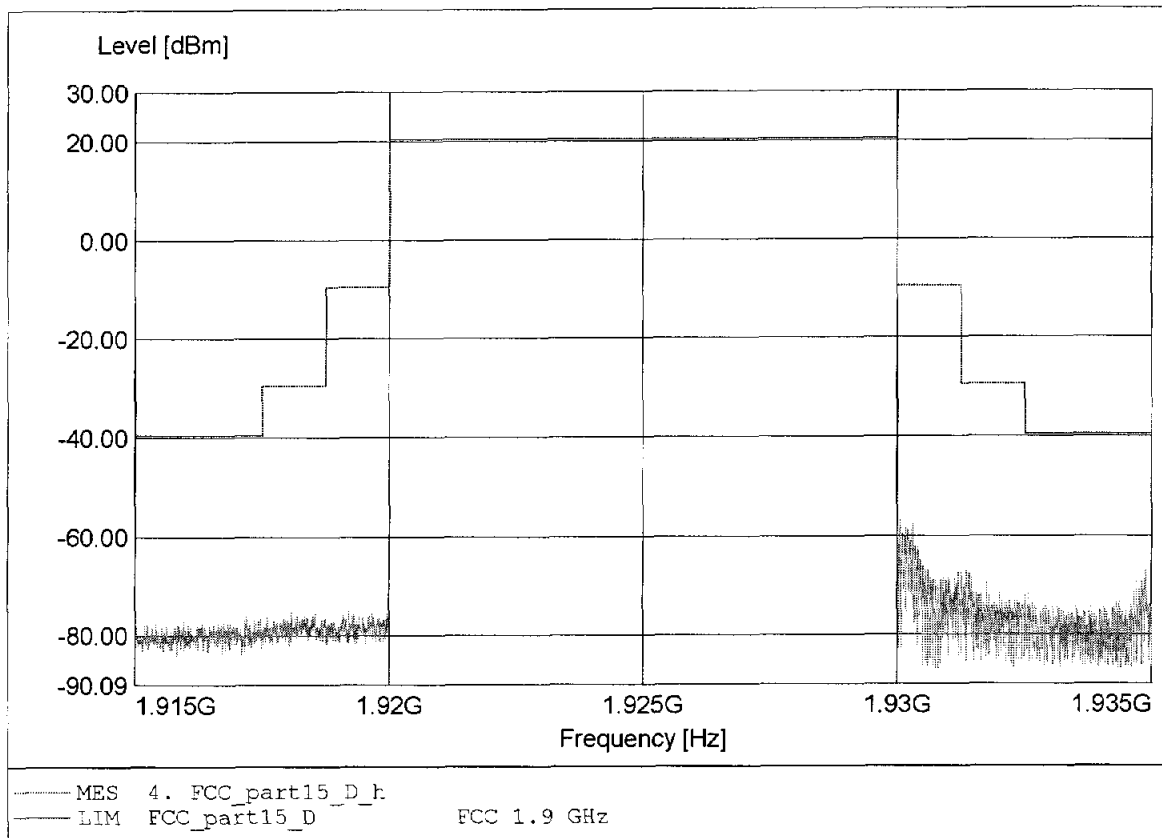
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:1.930GHz Pmax:-61.29dBm RBW: 10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

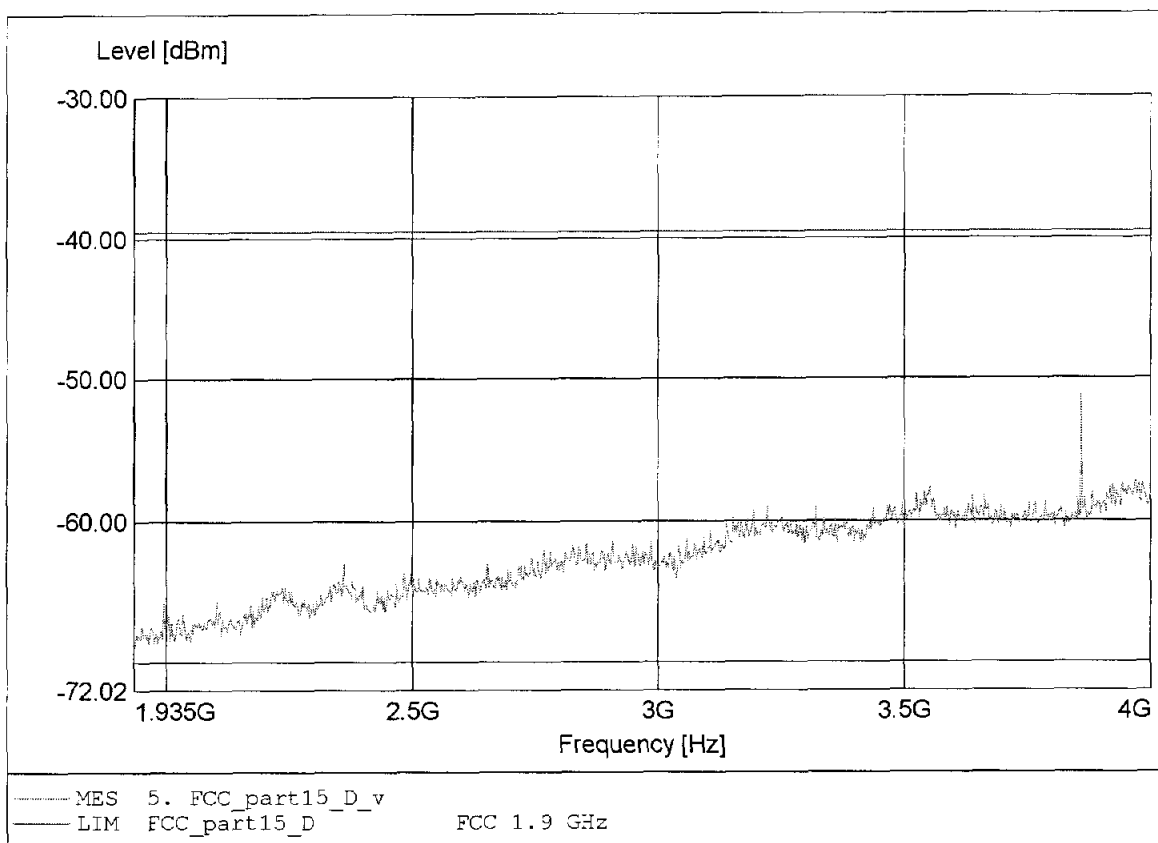
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:1.930GHz Pmax:-56.88dBm RBW: 10 kHz



Spurious emissions under normal conditions

FCC RULES PART 15, SUBPART D

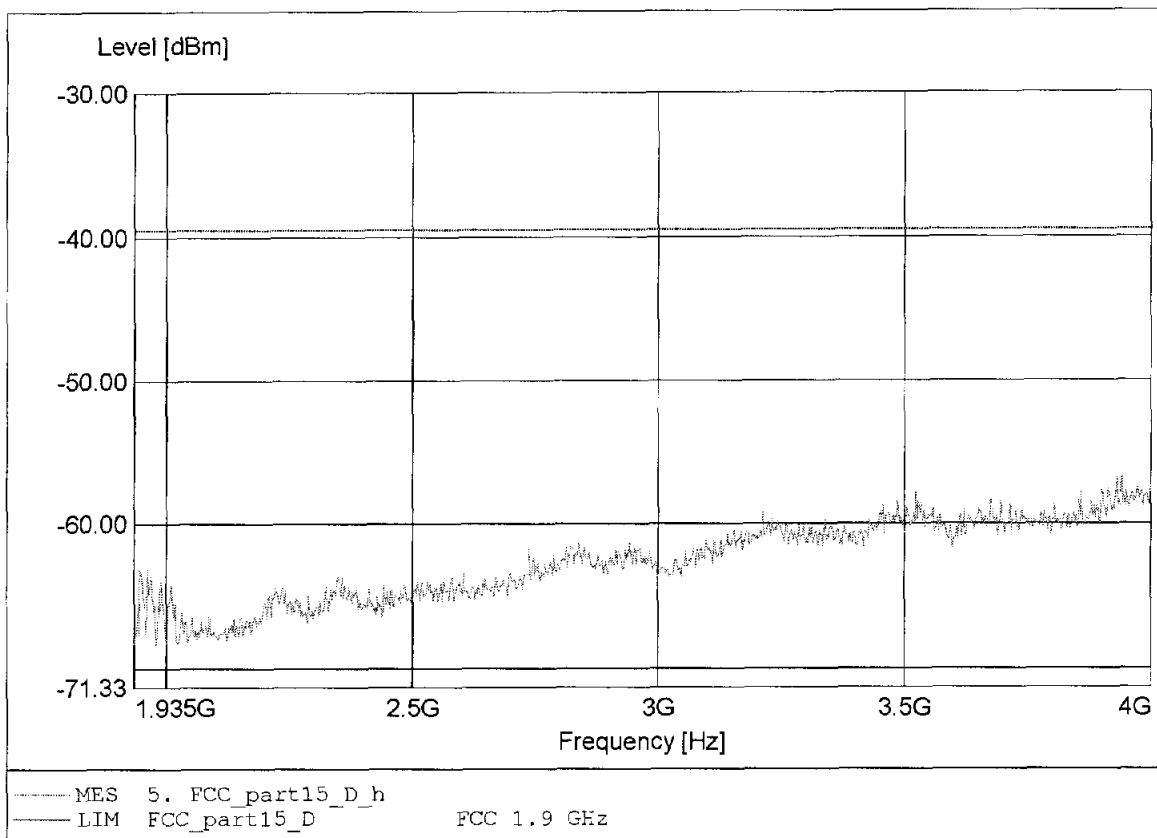
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:3.858GHz Pmax:-51.24dBm RBW: 100 kHz



Spurious emissions under normal conditions

FCC RULES PART 15, SUBPART D

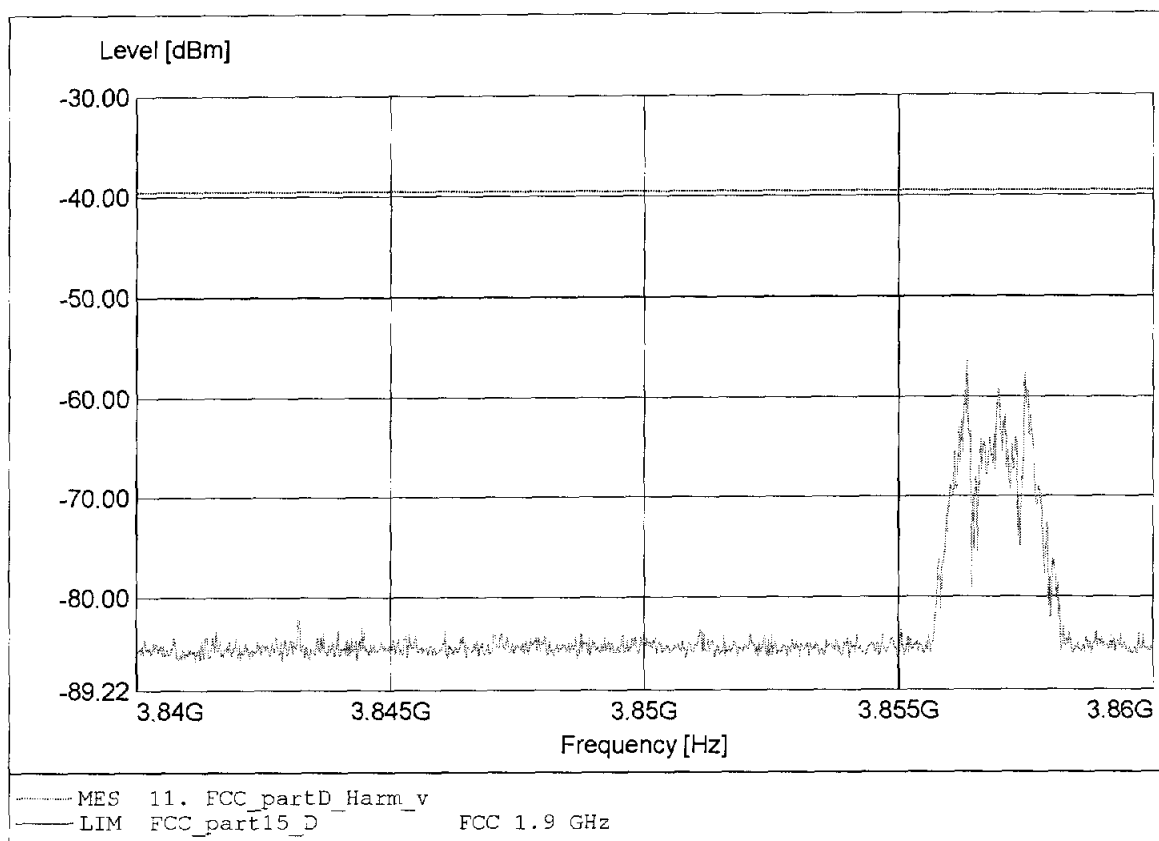
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:3.940GHz Pmax:-56.85dBm RBW: 100 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

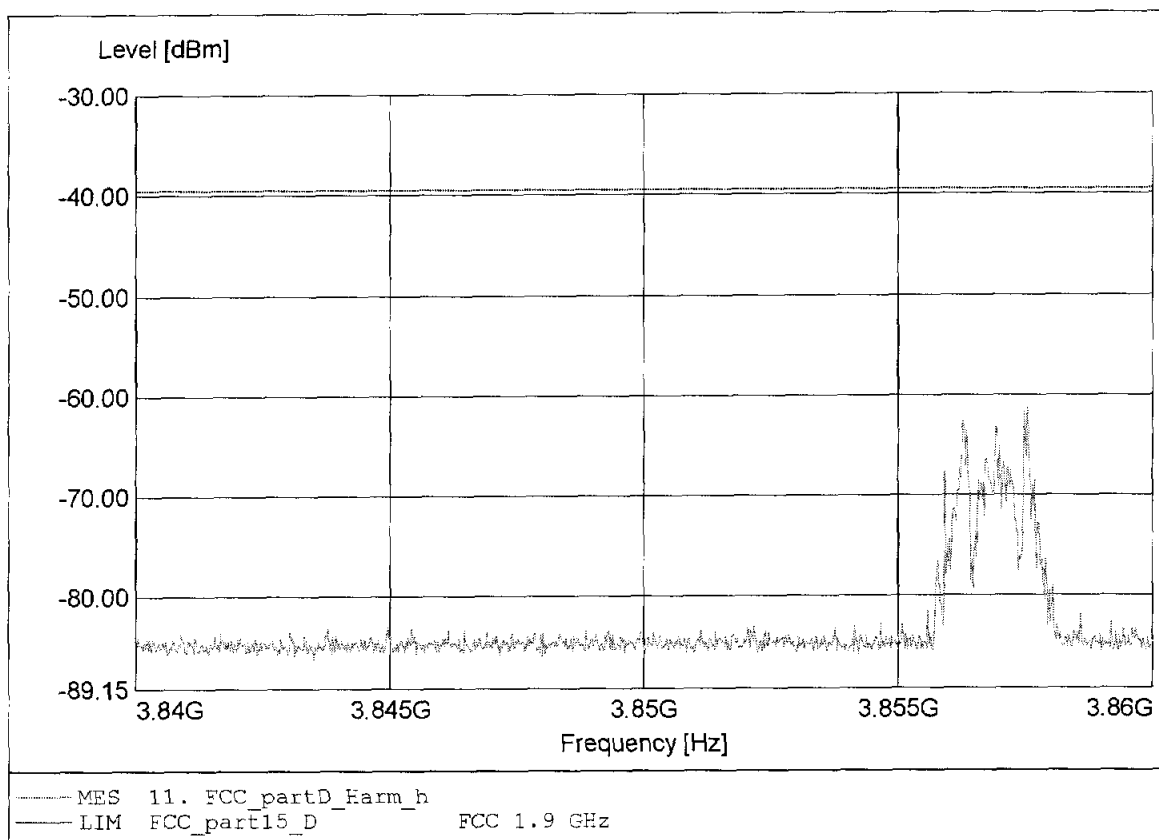
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:3.856GHz Pmax:-56.32dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

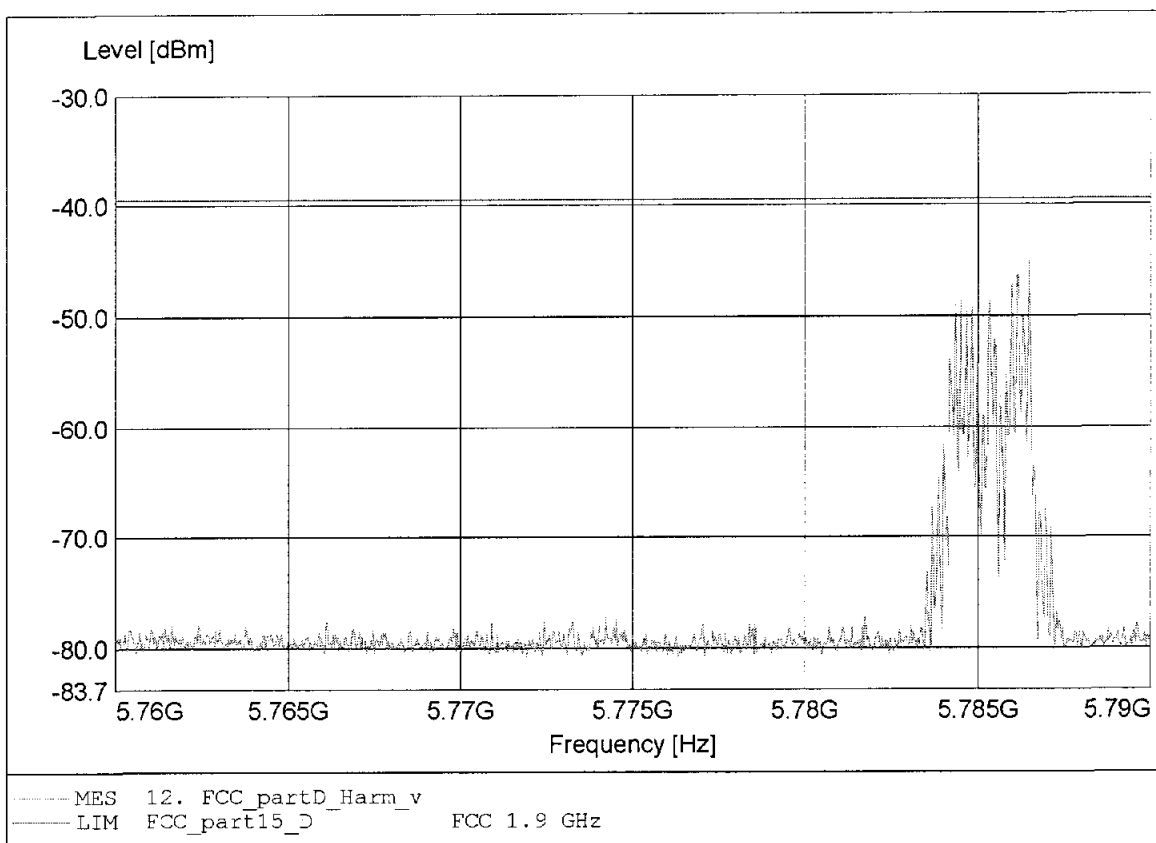
Approval Holder : Ceotronics AG
EUT : / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:3.858GHz Pmax:-61.21dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

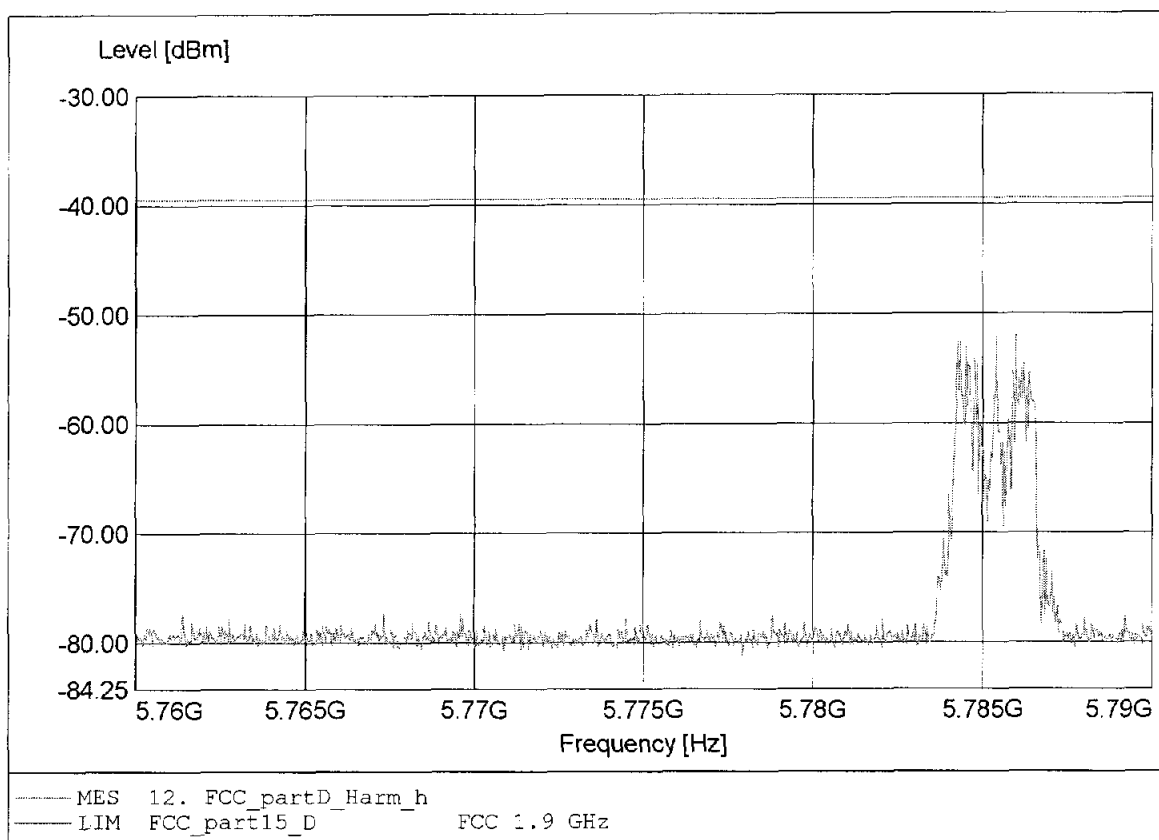
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:5.786GHz Pmax:-45.13dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

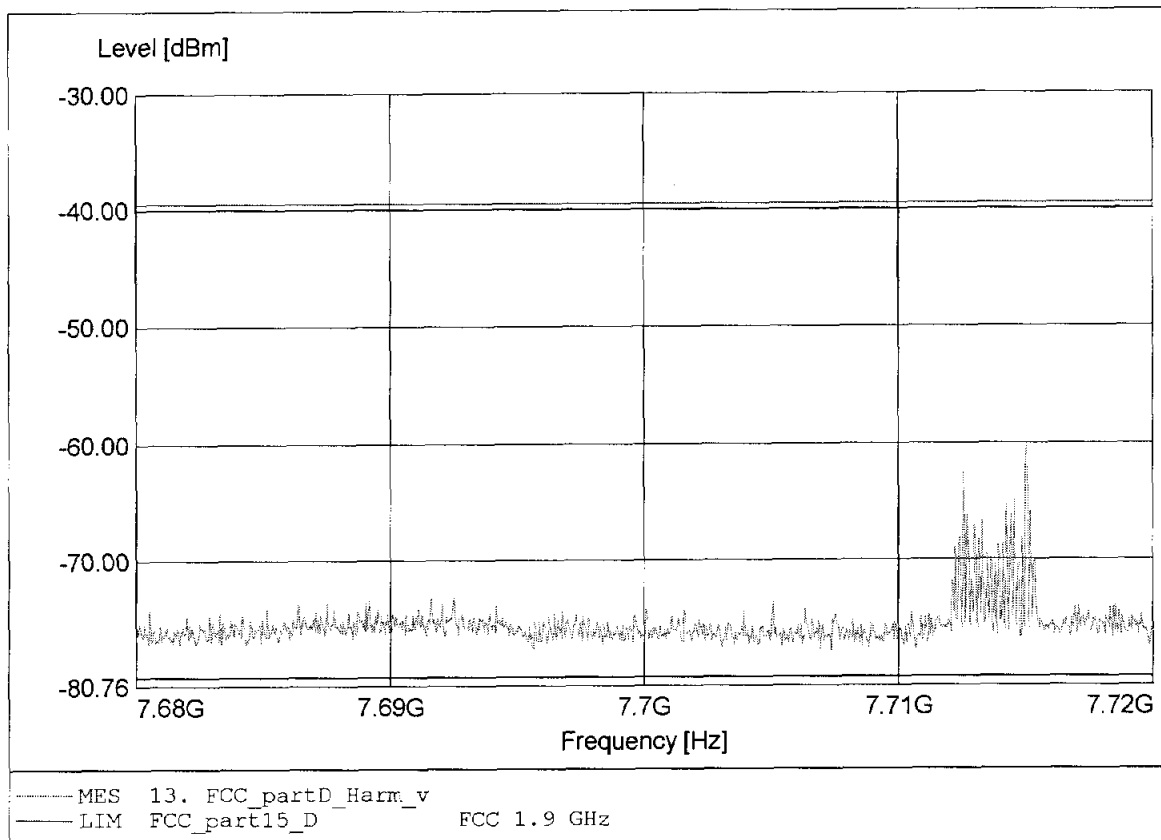
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq: 5.786GHz Pmax: -51.97dBm RBW: 10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

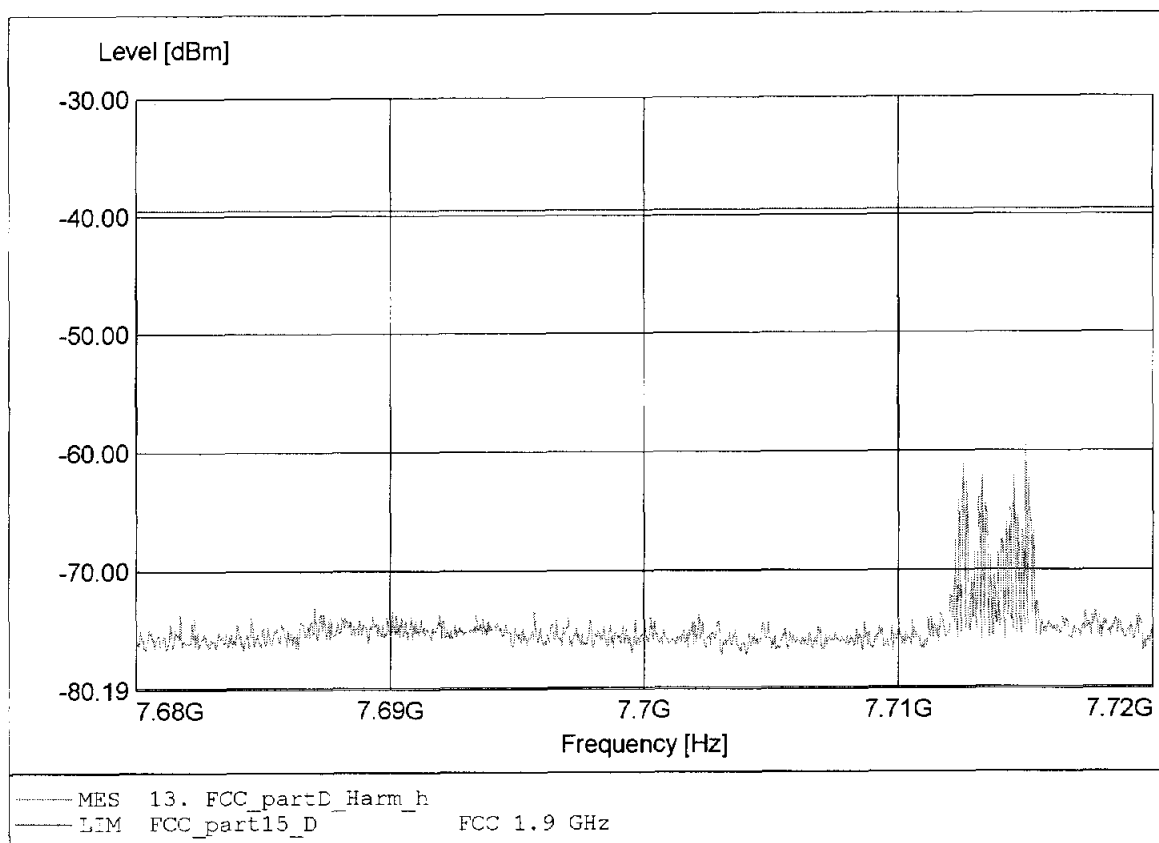
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:7.715GHz Pmax:-59.88dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

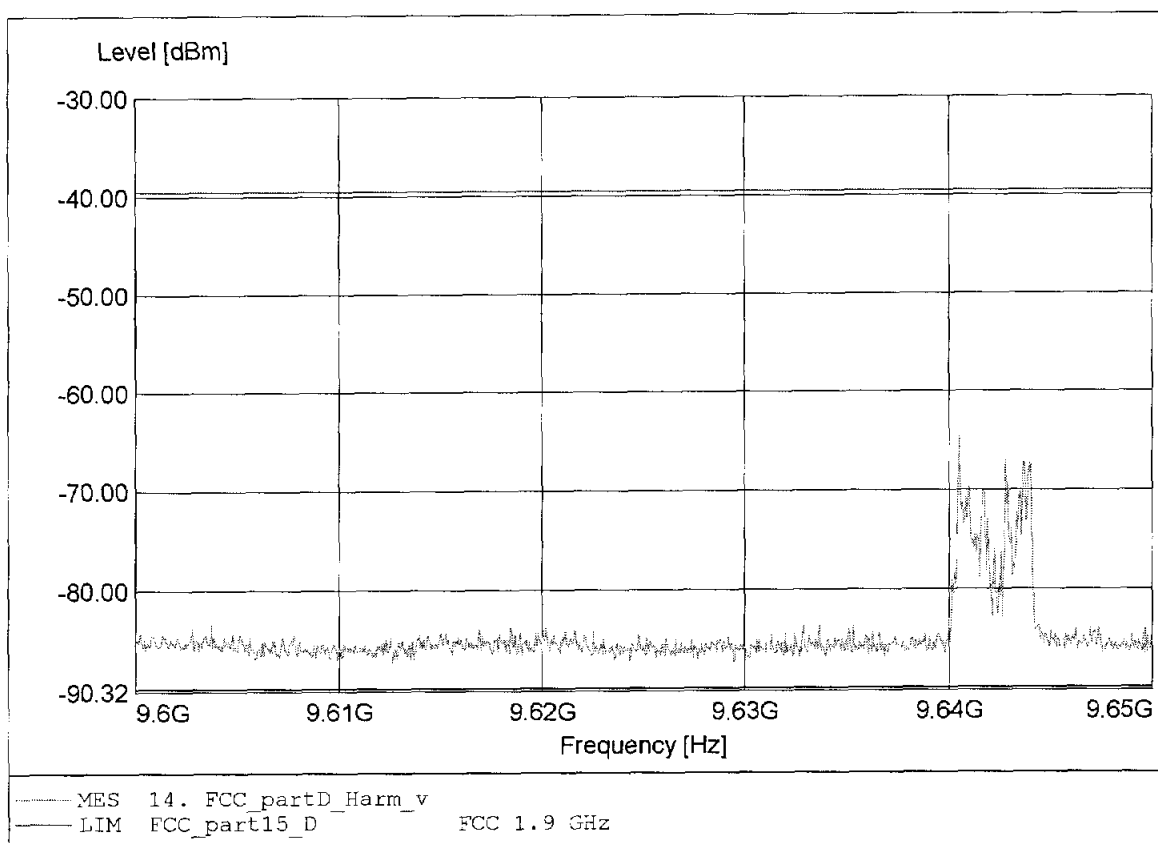
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:7.715GHz Pmax:-59.63dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

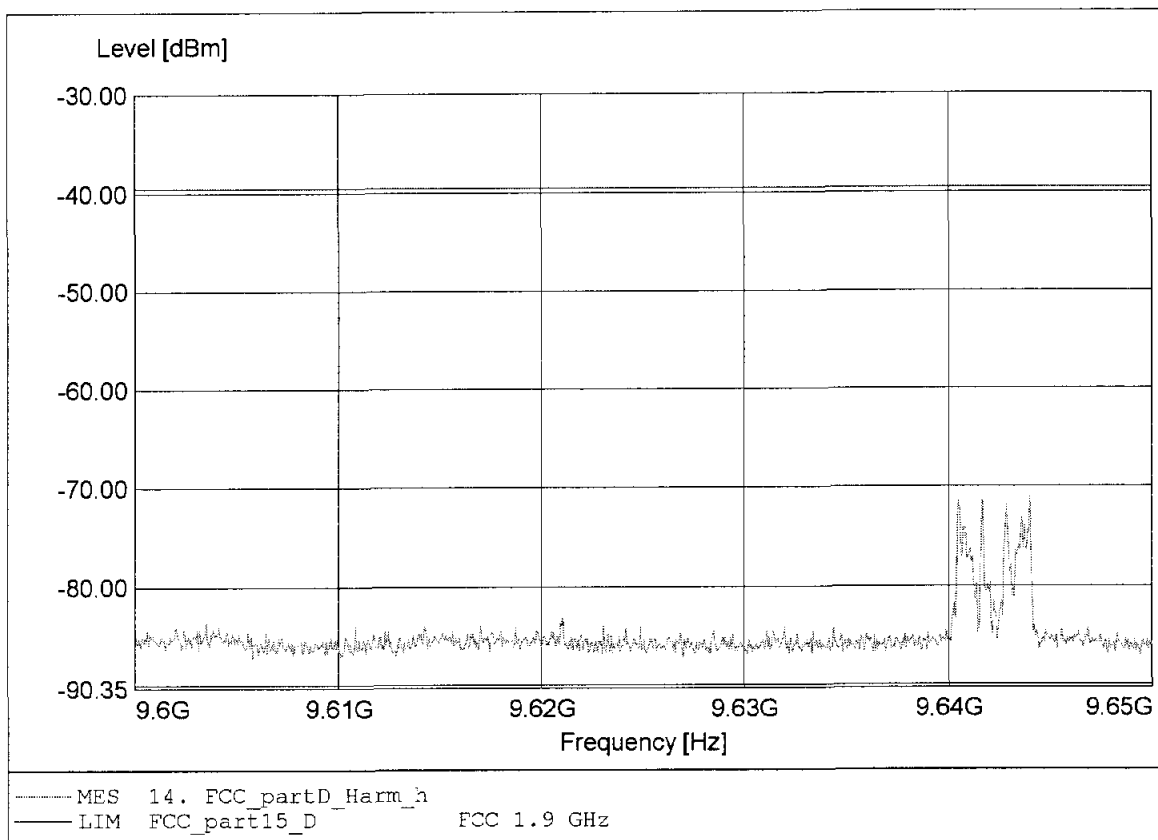
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:9.641GHz Pmax:-64.76dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

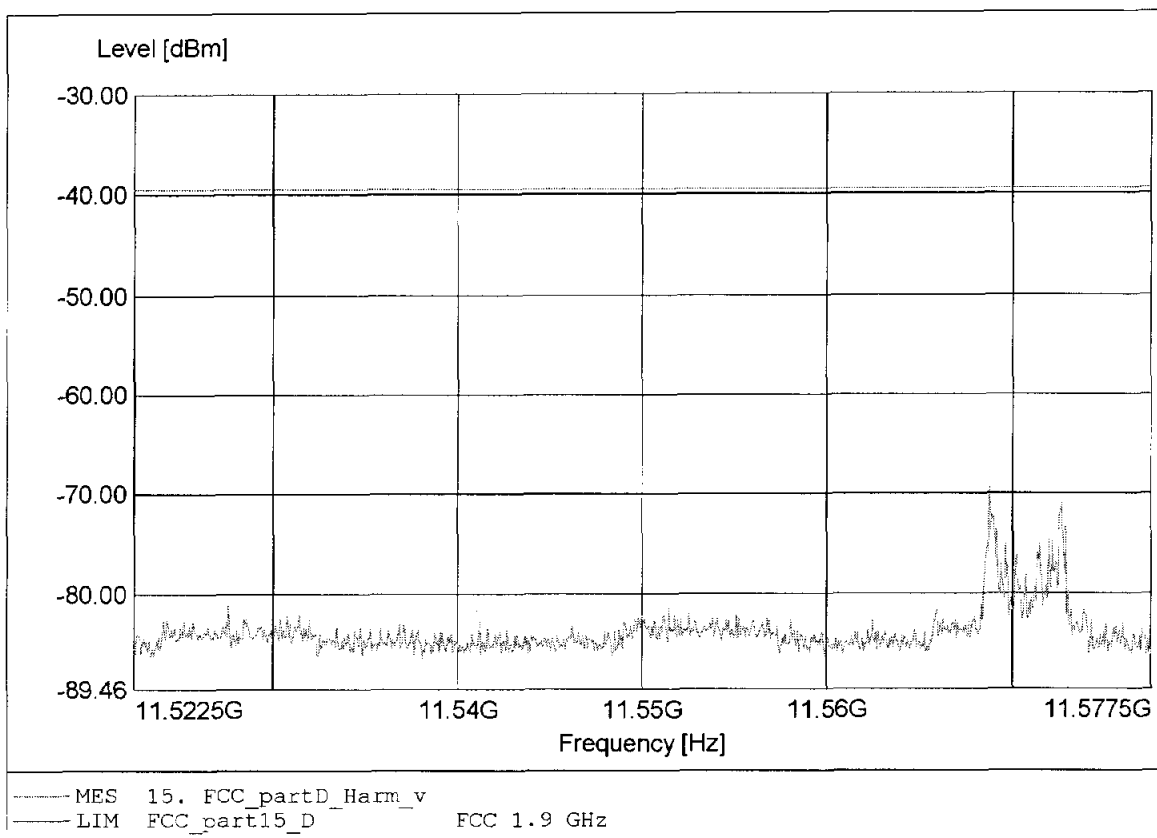
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:9.644GHz Pmax:-71.09dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

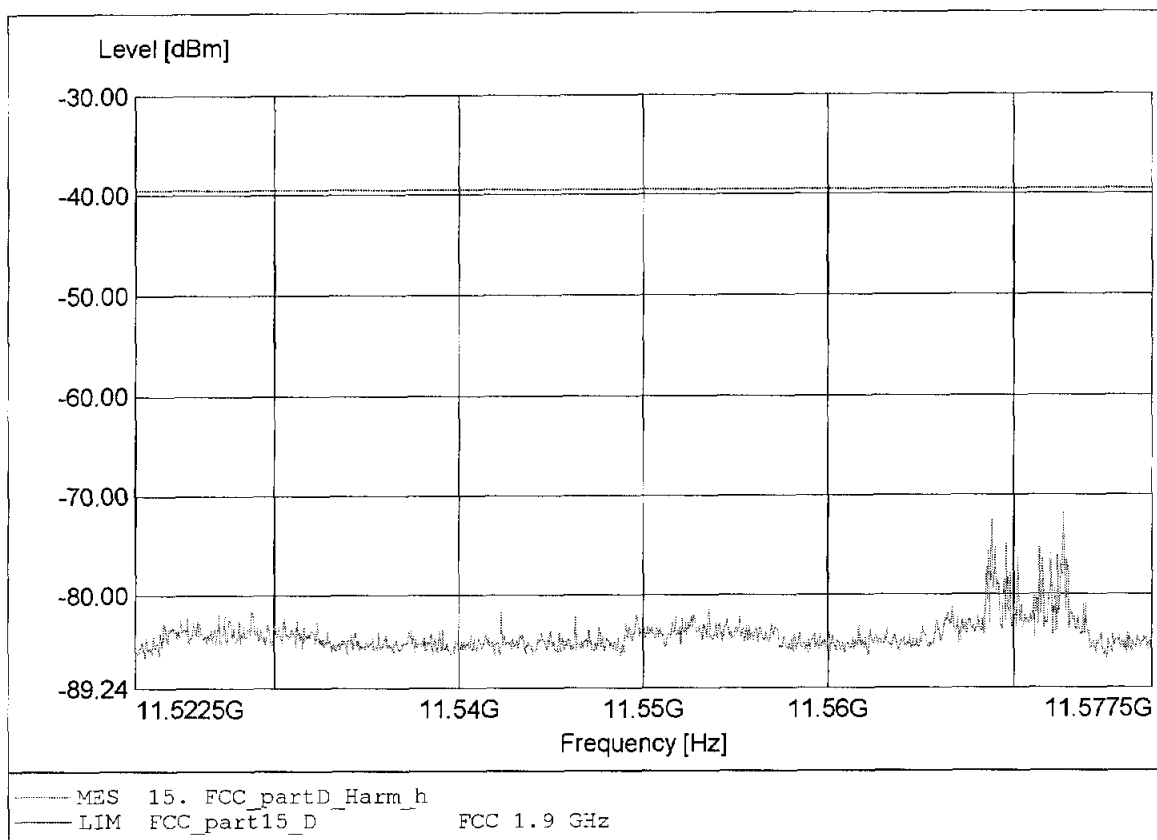
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:11.569GHz Pmax:-69.34dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

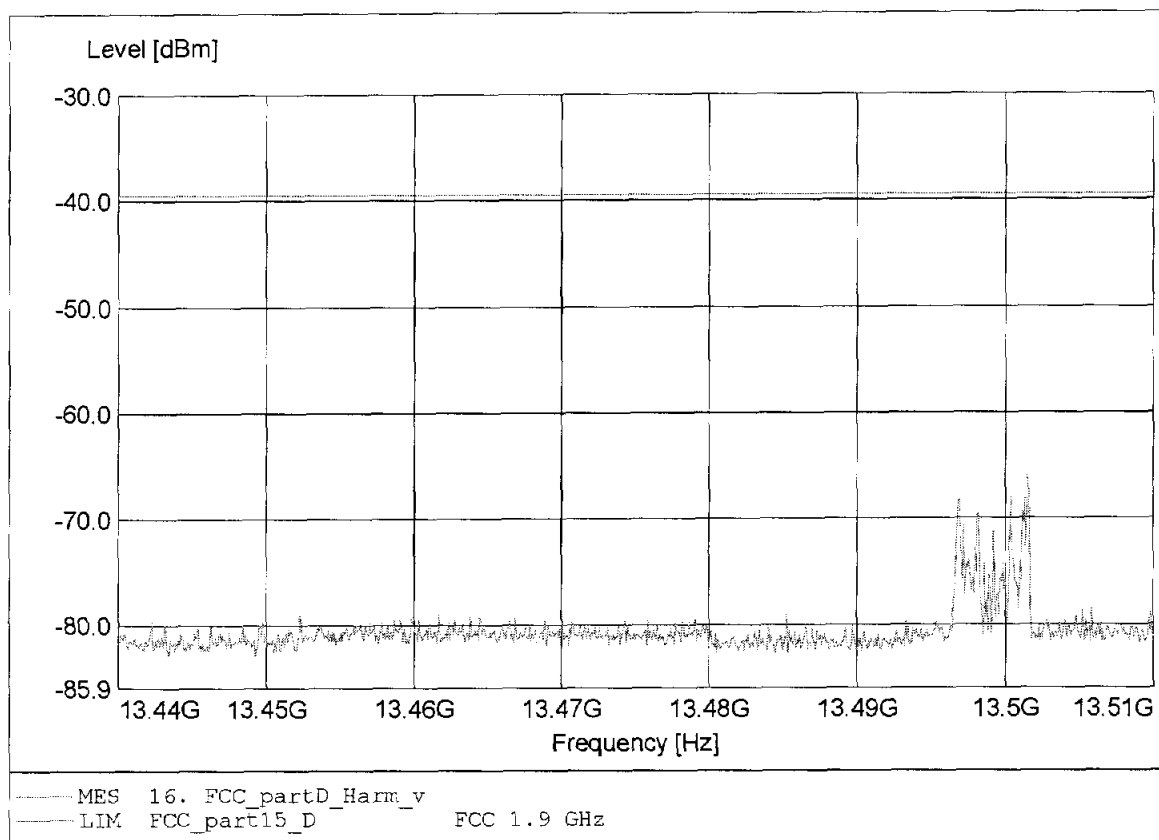
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:11.573GHz Pmax:-71.86dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

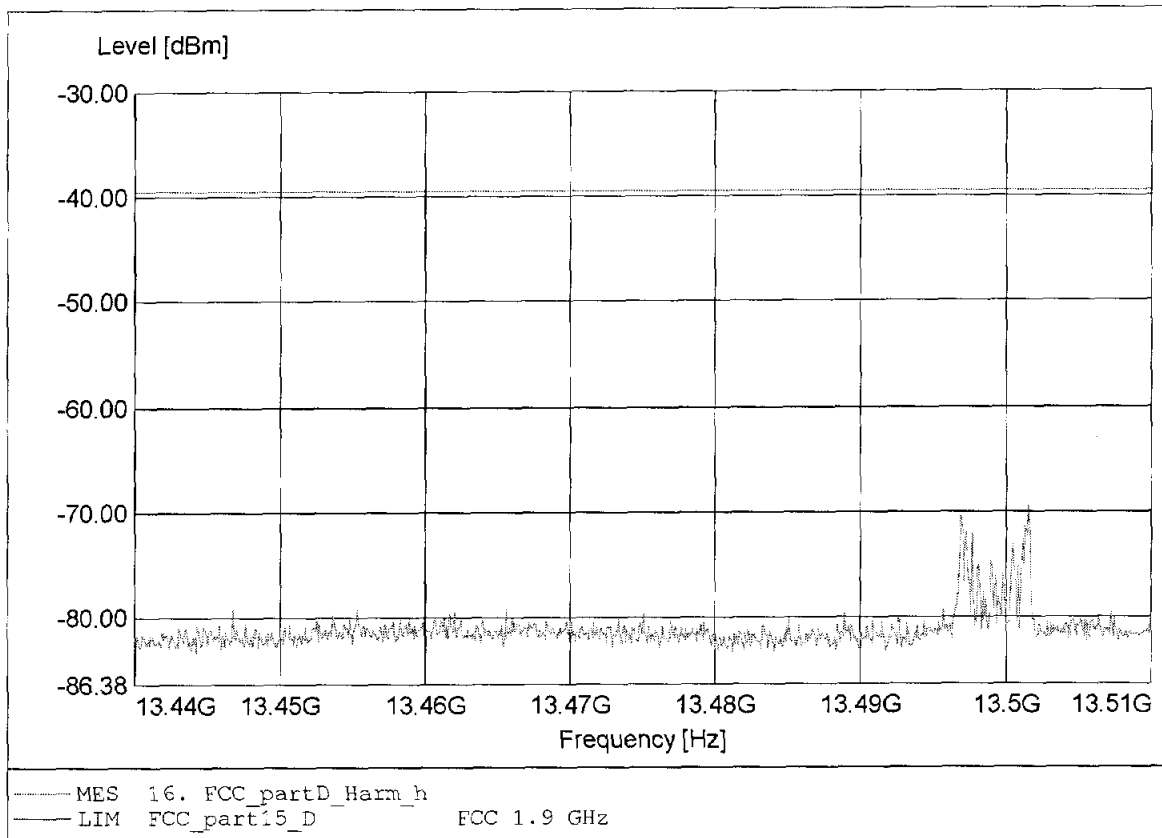
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:13.501GHz Pmax:-65.99dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

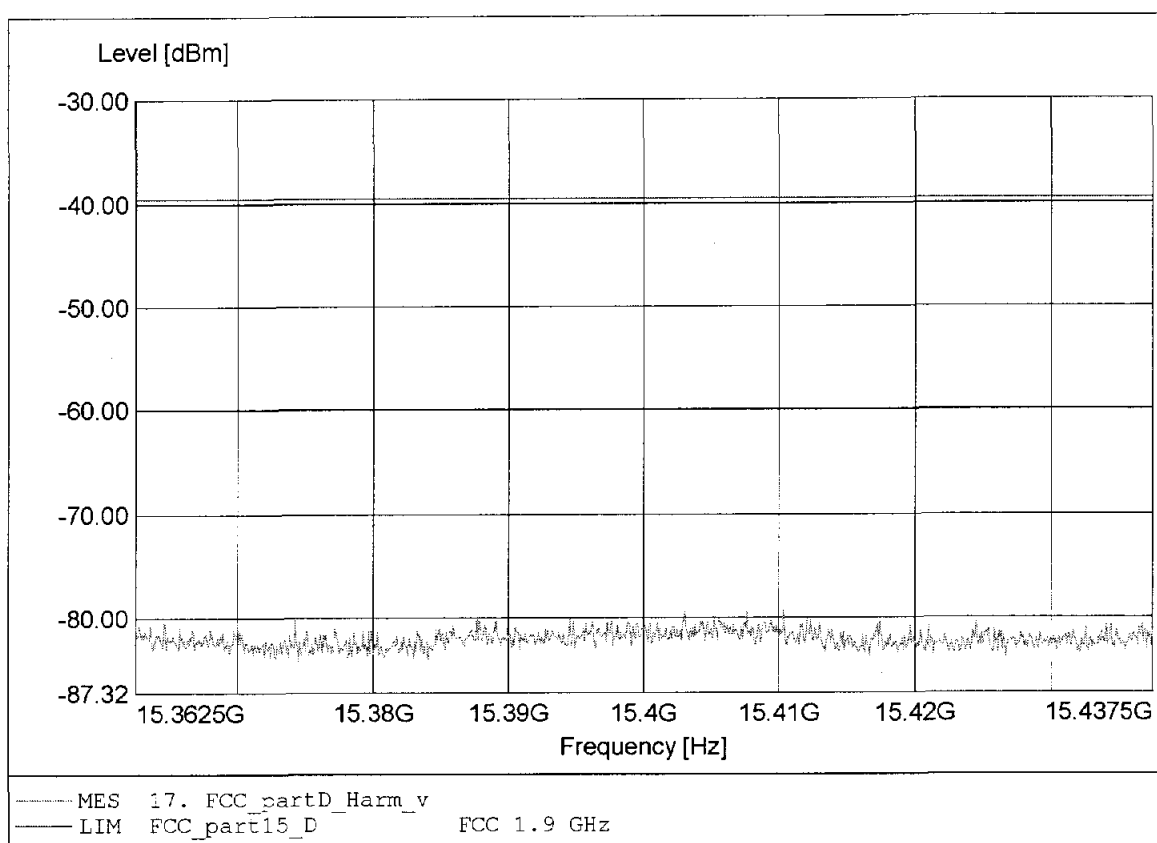
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:13.502GHz Pmax:-69.5dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

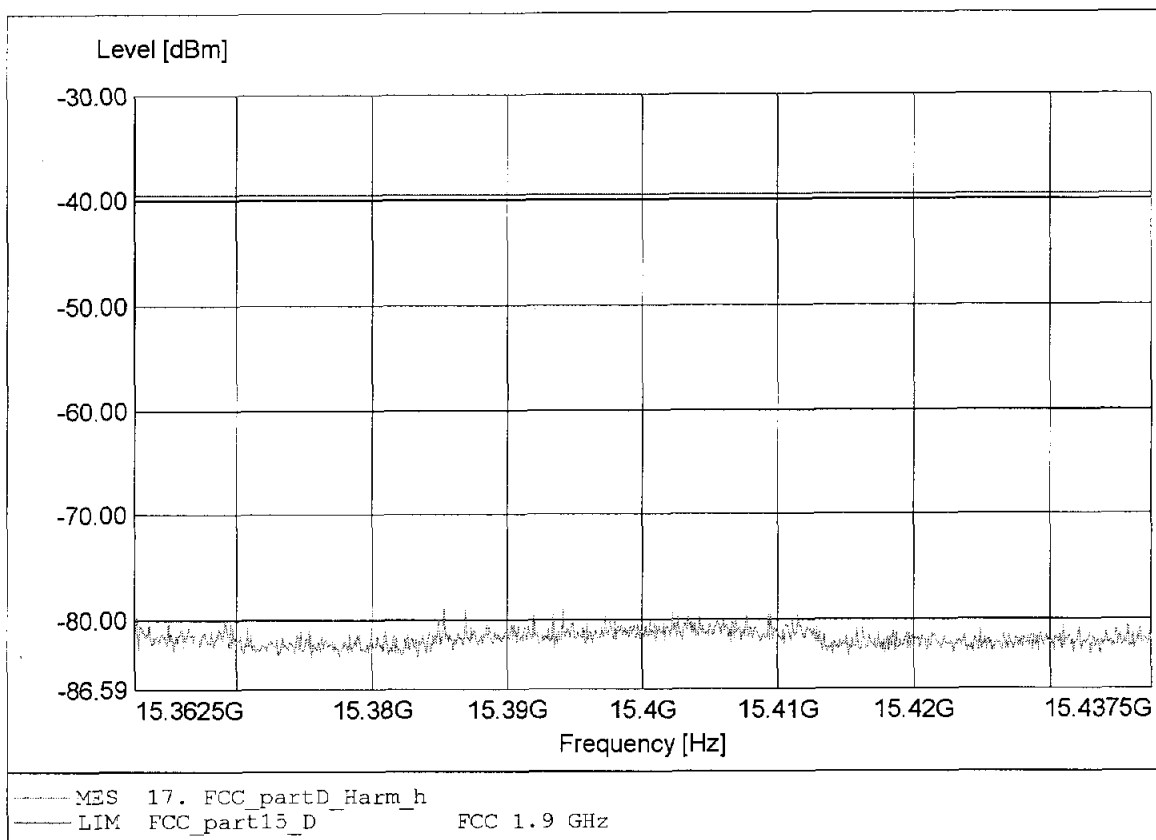
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:15.410GHz Pmax:-79.32dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

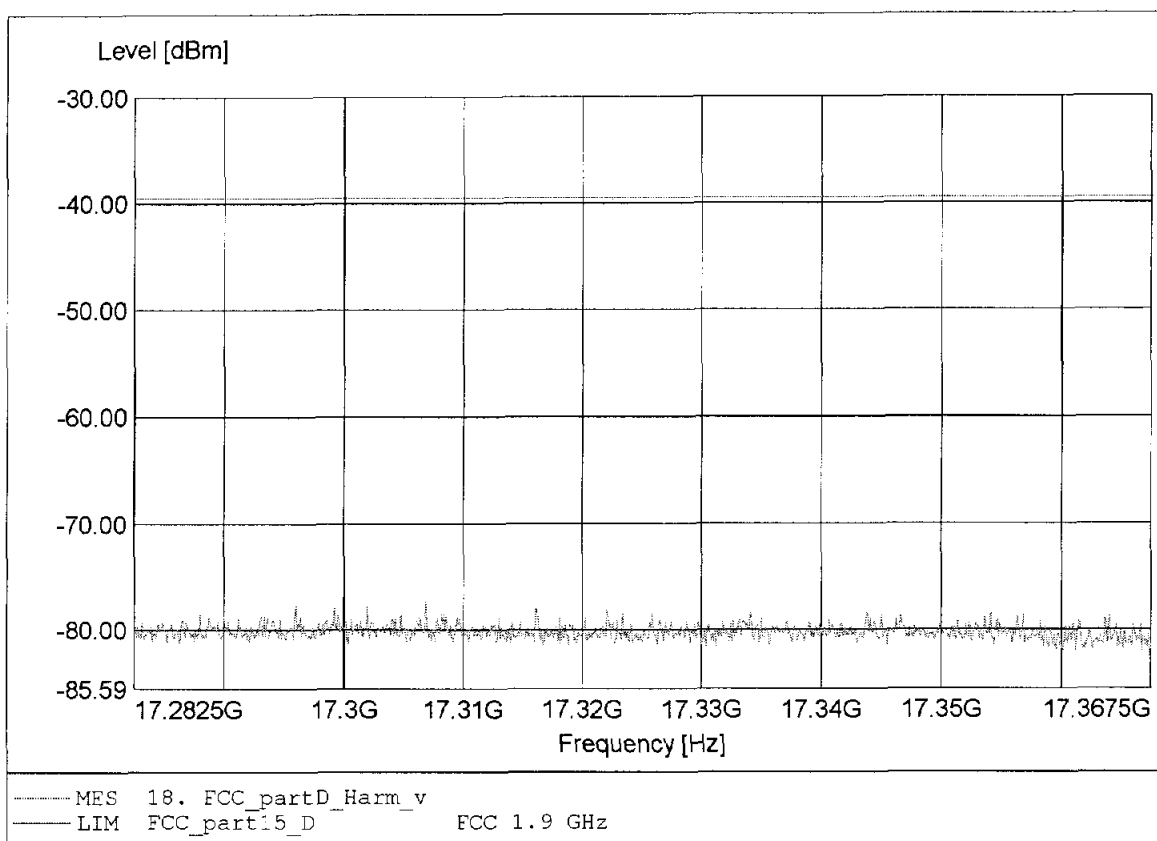
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:15.387GHz Pmax:-78.93dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

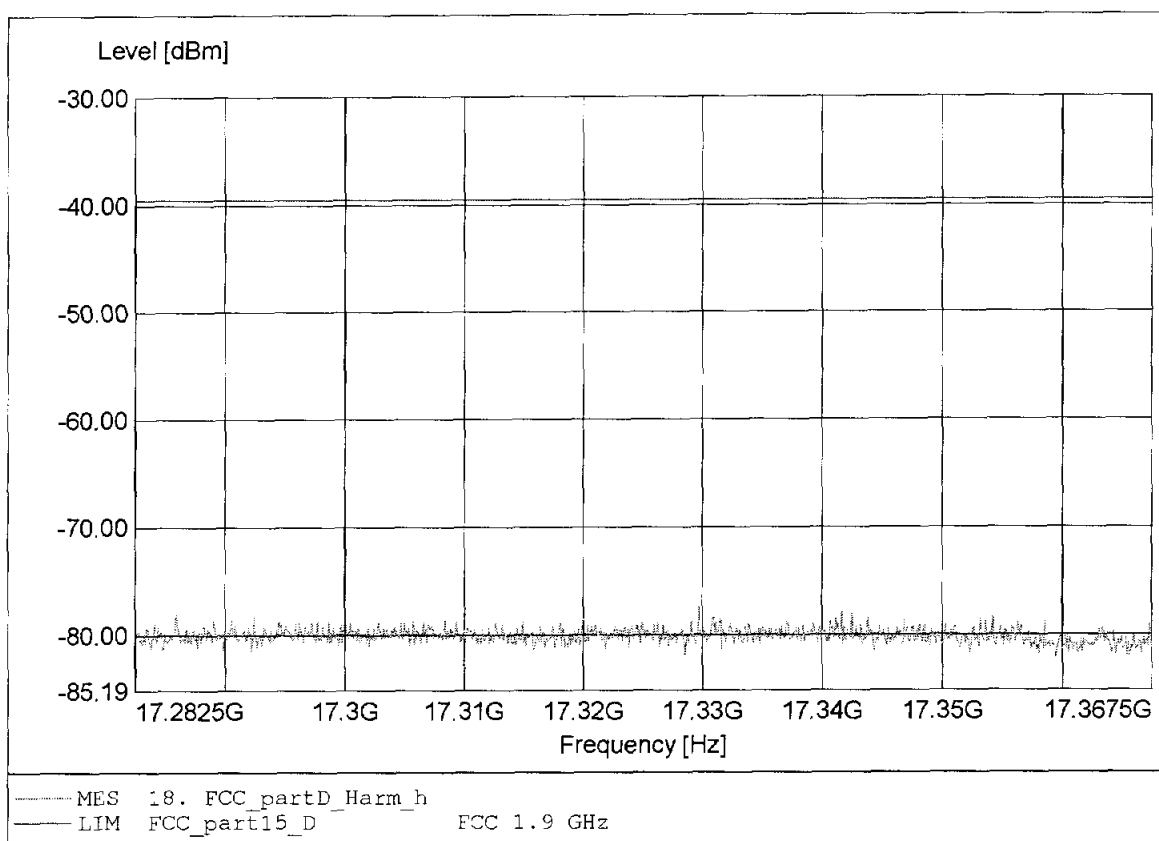
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:17.307GHz Pmax:-77.37dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

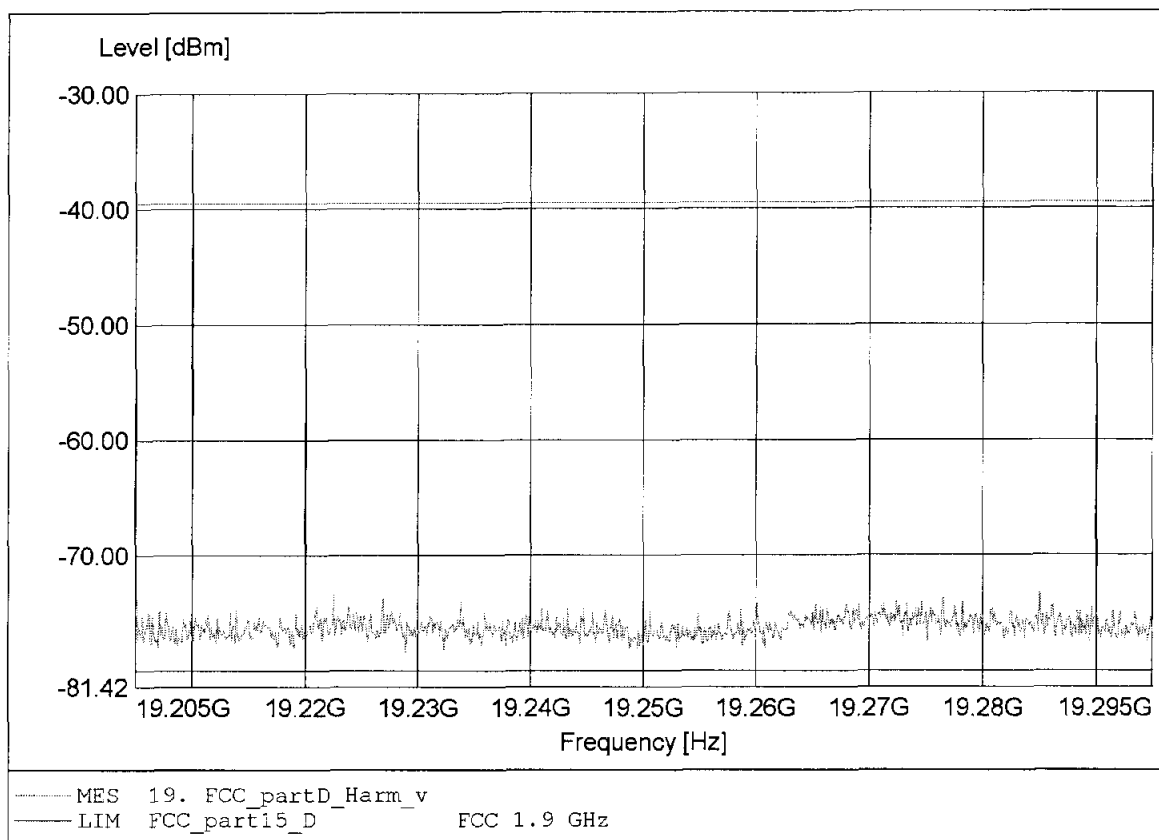
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:17.330GHz Pmax:-77.36dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

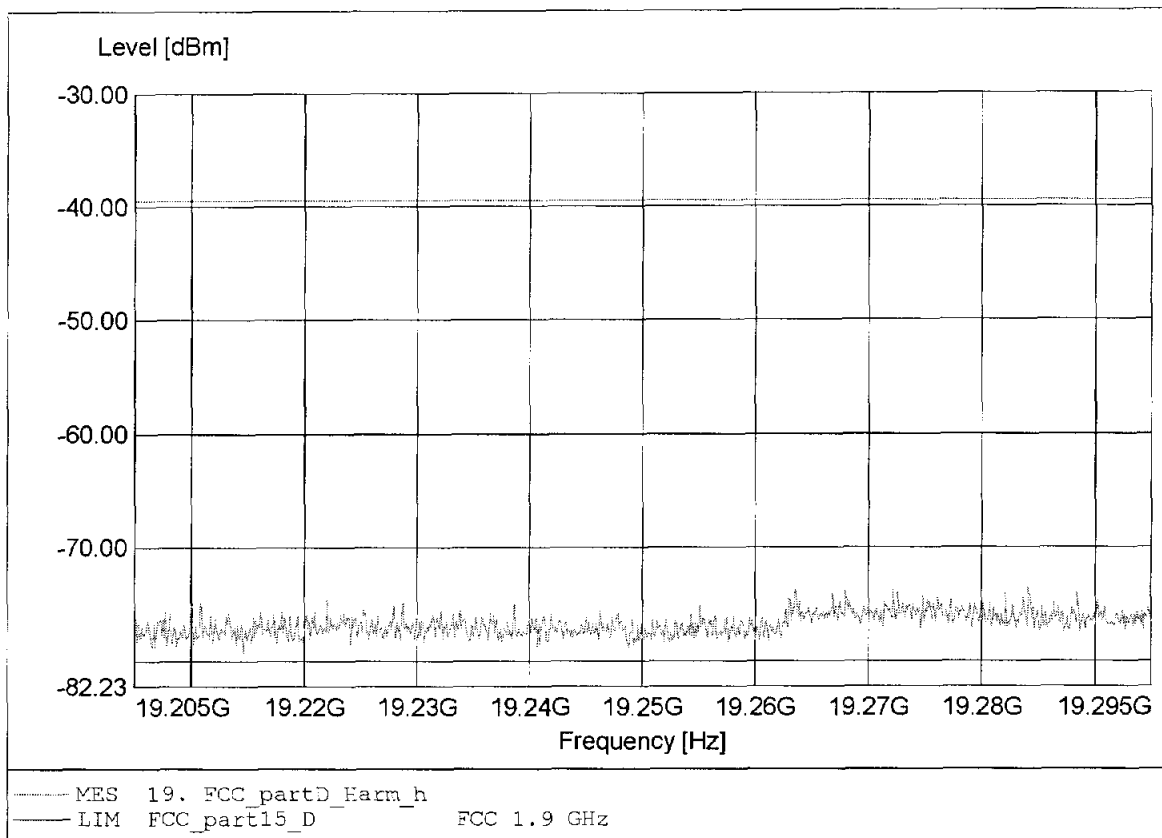
Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:19.285GHz Pmax:-73.34dBm RBW:10 kHz



Spurious emissions under normal conditions

FCC PART 15, SUBPART D (ANSI C63.17-1998, Subclause 6.1.6.3)

Approval Holder : Ceotronics AG
EUT / Model : DECT M5 Radio Module / M5Ceo_1 / PP
Conditions: ant.: 0 / ch.: 0
Operator : ETS / Mr. Cersovsky
Test Conditions: 25°C / Unom.: 3,6 V DC (AC/DC adaptor)
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 1m, Ant.: HL 025, ampl.
Comment 2: Freq:19.284GHz Pmax:-73.60dBm RBW:10 kHz



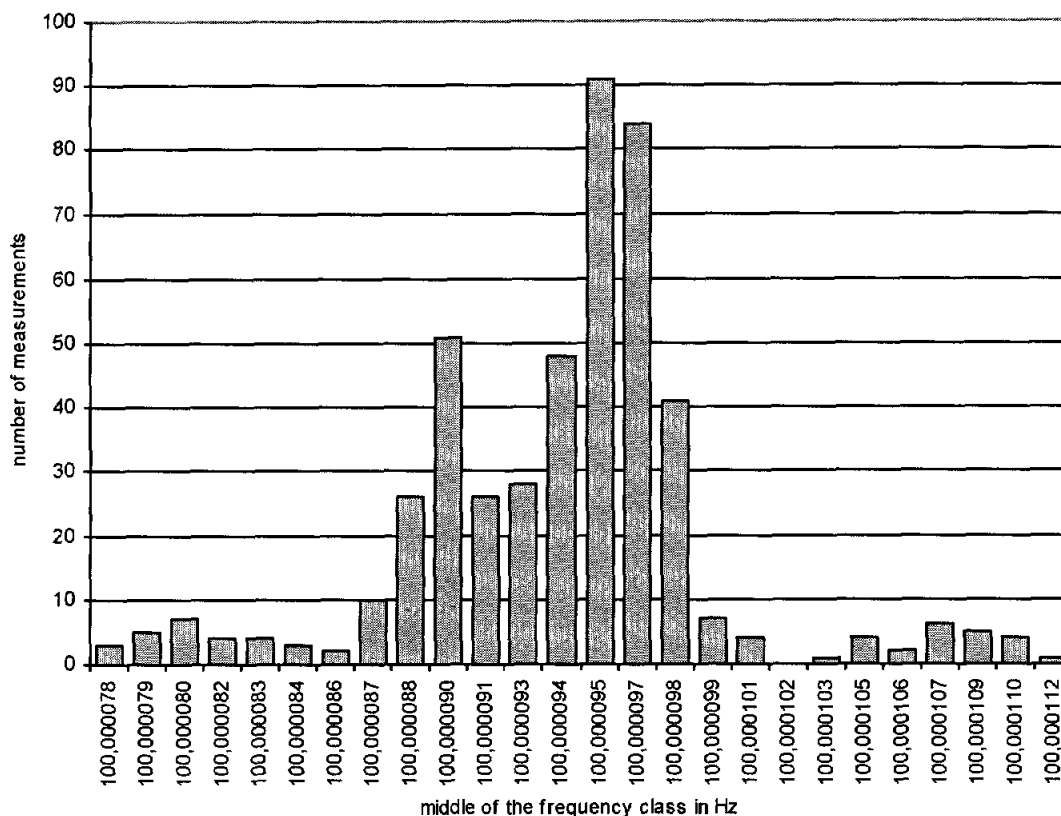
Appendix S

Frame period

FCC Part 15.323(e.1) Frame repetition**Test procedure ANSI 63.17-2006 6.2.2****UCPS**

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.2.2 Frame repetition

Width of the frequency class	0,000001 Hz
Mean	100,000094 Hz
Deviation	0,000005
Stability in ppm	0,160572 ppm
Test result	Verdict = PASS

Histogram

Measurement results

ETS Product Service AG

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FCC Part 15.323(e.4) Frame Period and jitter

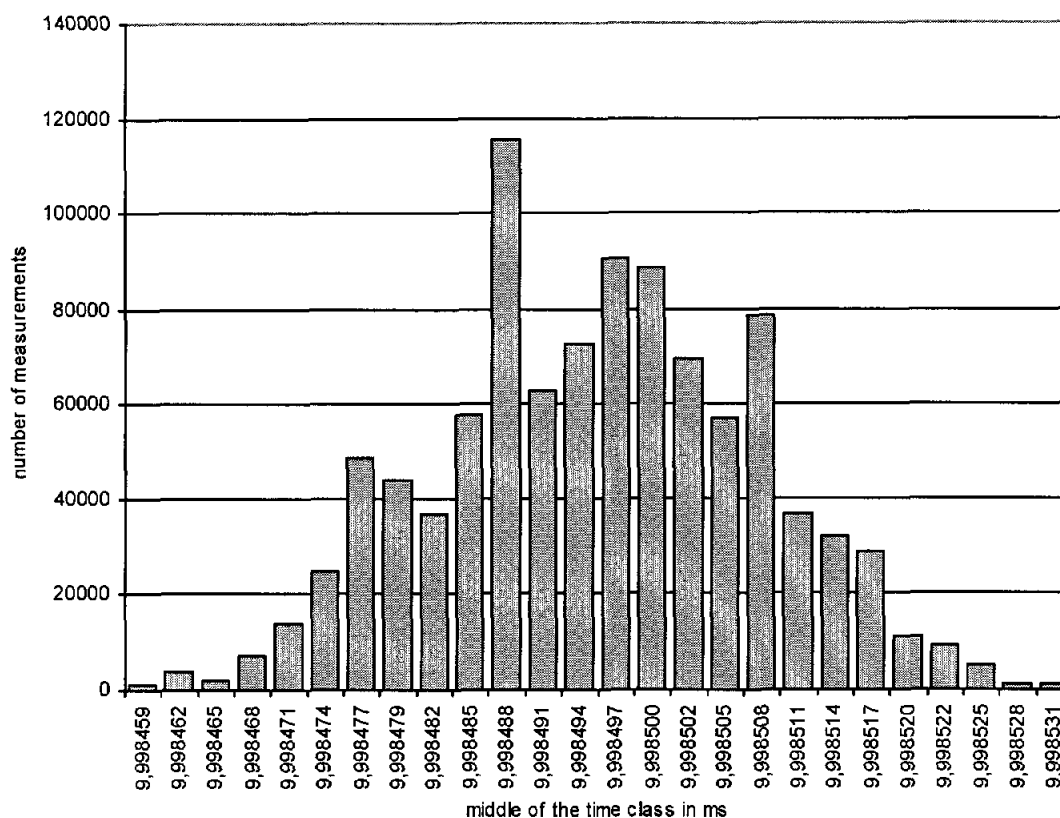
Testprocedure ANSI 63.17-2006 6.2.3

UCPS

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	23°C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.2.3 Frame Period and jitter

Width of the time class	0,002868 μ s
Mean	9,998495 ms
Deviation	0,000012
Max-Min	0,071712 μ s
Test result	Verdict = PASS

Histogram



Measurement diagram

ETS Product Service AG

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Appendix T

Frequency stability

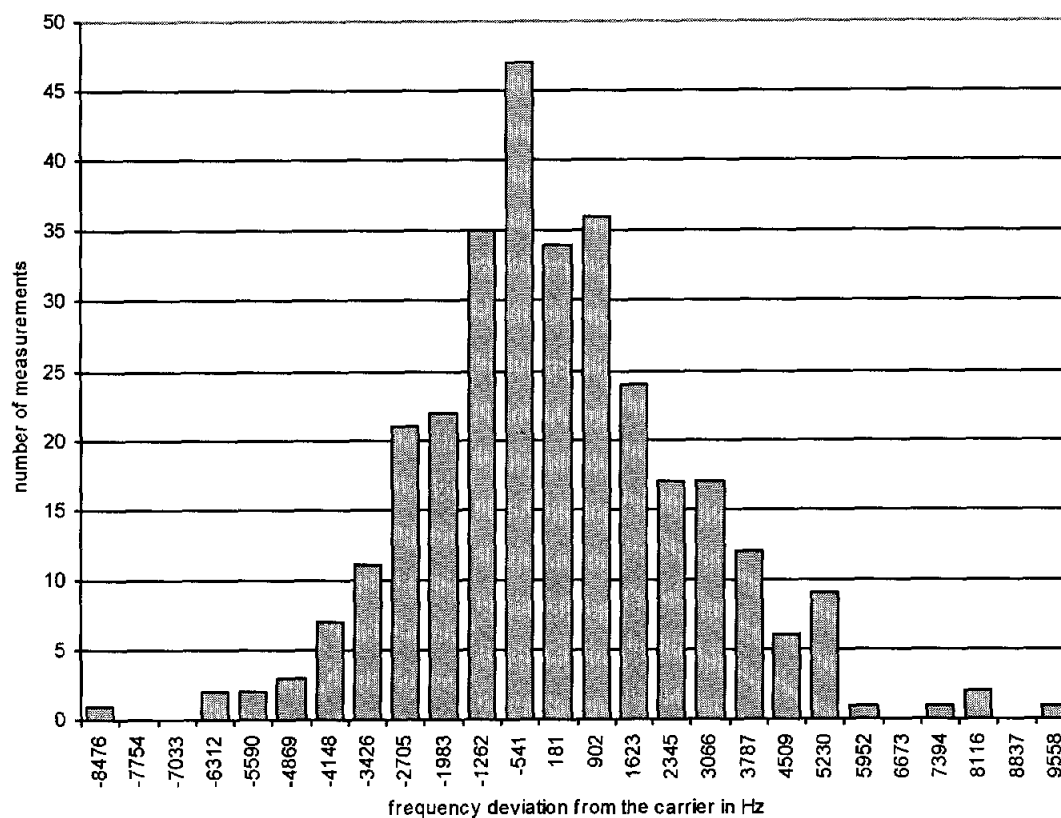
FCC Part 15.323(f) Frequency Stability

Testprocedure ANSI 63.17-2006 6.2.1

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	25 °C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.2.1 Frequency stability

Power supply	Vnom
Frequency of carrier	1924,999607 MHz
Measured mean	1924,999607 MHz
Stability (supply temp)	0 ppm (reference)
Result	Verdict = PASS
Stability over time	fmax : 4,90 ppm fmin : 4,47 ppm
Result	Verdict = PASS

Histogram



Measurement results

ETS Product Service AG

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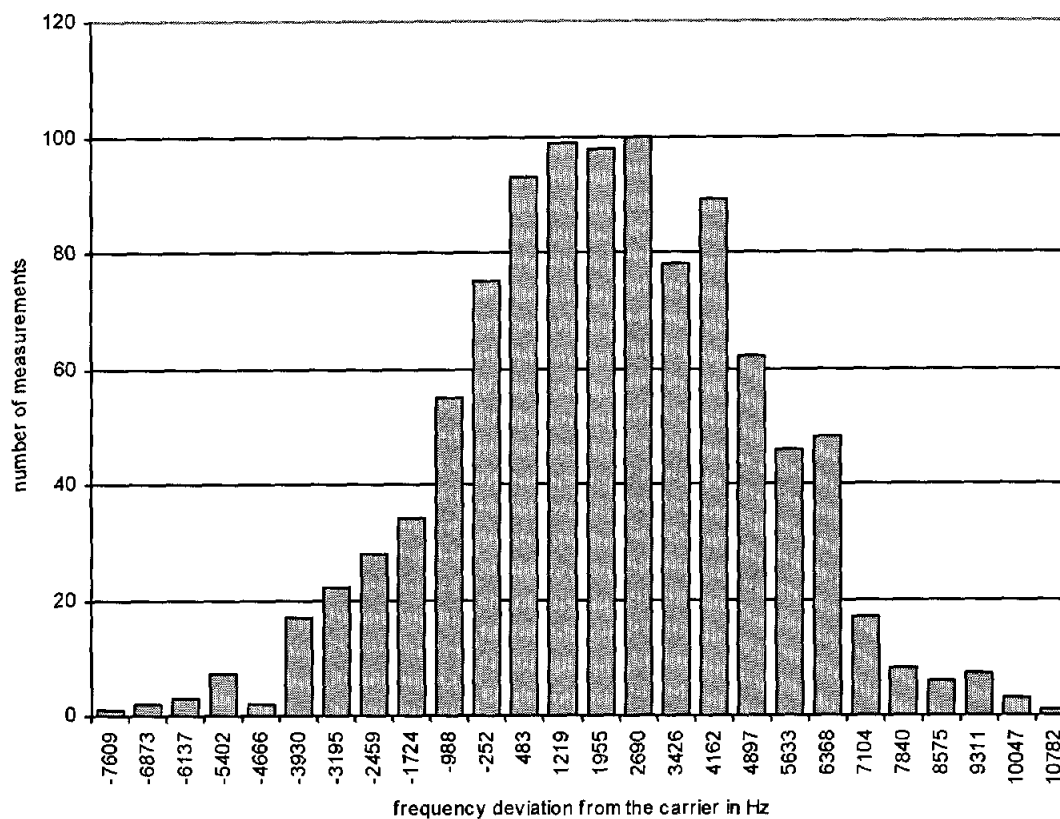
FCC Part 15.323(f) Frequency Stability

Testprocedure ANSI 63.17-2006 6.2.1

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	55 °C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.2.1 Frequency stability

Power supply	Vnom
Frequency of carrier	1924,999607 MHz
Measured mean	1925,001664 MHz
Stability (supply temp)	-1,07 ppm
Result	Verdict = PASS
Stability over time	fmax : 4,53 ppm fmin : 5,02 ppm
Result	Verdict = PASS

Histogram



 Measurement results

ETS Product Service AG

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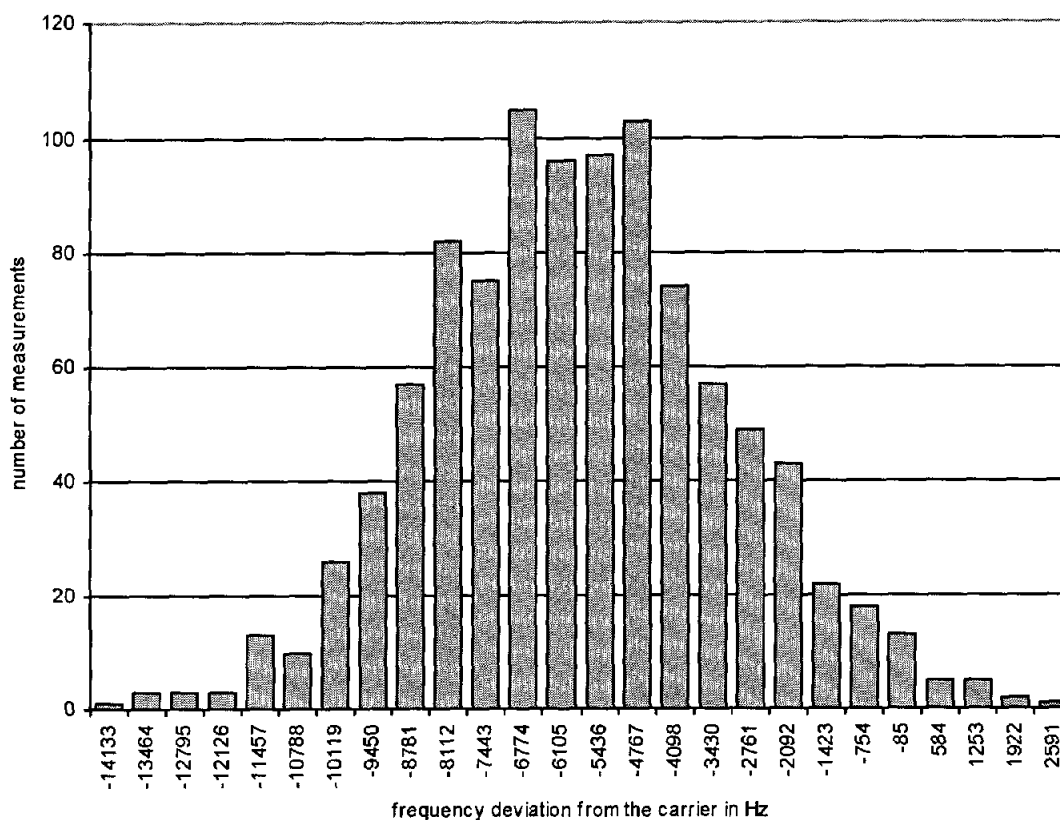
FCC Part 15.323(f) Frequency Stability

Testprocedure ANSI 63.17-2006 6.2.1

EUT	DECT M5 Radio Module Ceotronics
Model	M5Ceo_1
Applicant	Ceotronics AG
Temperature	-10 °C
Test Site / Operator	ETS Reichenwalde
Test Specification	6.2.1 Frequency stability

Power supply	Vnom
Frequency of carrier	1924,999607 MHz
Measured mean	1924,993816 MHz
Stability (supply temp)	3,01 ppm
Result	Verdict = PASS
Stability over time	fmax : 4,35 ppm fmin : 4,33 ppm
Result	Verdict = PASS

Histogram



Measurement results

ETS Product Service AG

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Appendix U

Receiver spurious emissions