



香港標準及檢定中心
Hong Kong Standards and Testing Centre

Date : 2005-11-14

No. : HM155339

TEST REPORT

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Applicant:

Graco Children's Products Inc
150 Oaklands Blvd
Exton, PA 19341
United States

Description of Samples:

Model name: BABY MONITOR
Model no.: 2M06
Brand name: GRACO
FCC ID: M6Y2M06T

Date Samples Received:

2005-10-15

Date Tested:

2005-10-24 to 2005-11-02

Investigation Requested:

FCC Part 15 Regulations-Subpart C

Conclusions:

The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks:

LEE Kam Chuen, EMD
for Chief Executive

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate
New Territories, Hong Kong

1.2 Applicant Details
Applicant

Graco Children's Products Inc
150 Oaklands Blvd
Exton, PA 19341
United States

HKSTC Code Number for Applicant

HOT001

Manufacturer

HONOR TONE LTD
UNIT1-2, 23/F., C.C.T. TELECOM BLDG.
NO.11 WO SHING ST., N.T., HK

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**1.3 Equipment Under Test [EUT]
Description of Sample**

Model Name: BABY MONITOR
Manufacturer: HONOR TONE LTD
Brand Name: GRACO
Model Number: 2M06
Input Voltage: 9Vd.c. with Jack

The AC/DC Adaptor used for the tests was provided by the applicant with the following details: Model Number: U060020D11, Input: 120VAC 60Hz, 6.5W, Output: 6VDC 200mA

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Graco Children's Products Inc, BABY MONITOR. The transmitter is a Trigger transmitter. The EUT continues to transmit while Trigger is being pressed. It is Voice transmitter, Modulation by Microphone, and type is Amplitude modulation.

1.4 Date of Order

2005-10-15

1.5 Submitted Sample(s):

1 Sample per model

1.6 Test Duration

2005-10-24 to 2005-11-02

1.7 Country of Origin

China

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.4:2003 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2003	N/A	☒	☐	☐
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	☒	☐	☐
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2003	N/A	☒	☐	☐

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

Test Requirement:	FCC 47CFR 15.249
Test Method:	ANSI C63.4:2003
Test Date:	2005-11-02
Mode of Operation:	Tx mode

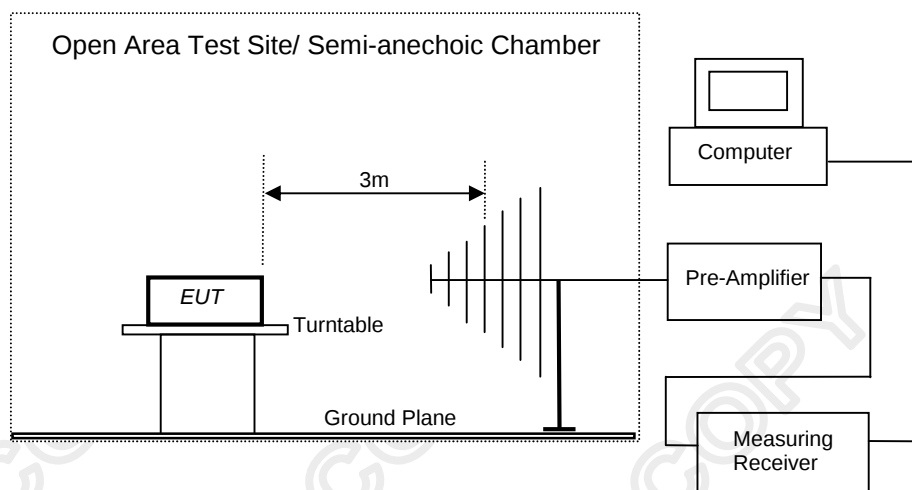
Test Method:

The sample was placed 0.8m above the ground plane on the *OATS / **Semi-anechoic Chamber, measurements in both horizontal and vertical antenna polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The worst case(s) of emission is/are shown in Test Results of the following pages.

* OATS [Open Area Test Site] located at HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657.

** Semi-anechoic chamber located at HKSTC filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756. (This has been used in the report)

Test Setup:



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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of CH A: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
906.7	55.1	26.9	82.0	12,589.3	50,000	Vertical
1813.4	No Emission Detected				500	Vertical
* 2720.1					500	Vertical
* 3626.8					500	Vertical
* 4533.5					500	Vertical
* 5440.2					500	Vertical
6346.9					500	Vertical
* 7253.6					500	Vertical
* 8160.3					500	Vertical
* 9067.0					500	Vertical

Remarks:

- *: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB
1GHz to 18GHz ±4.4dB

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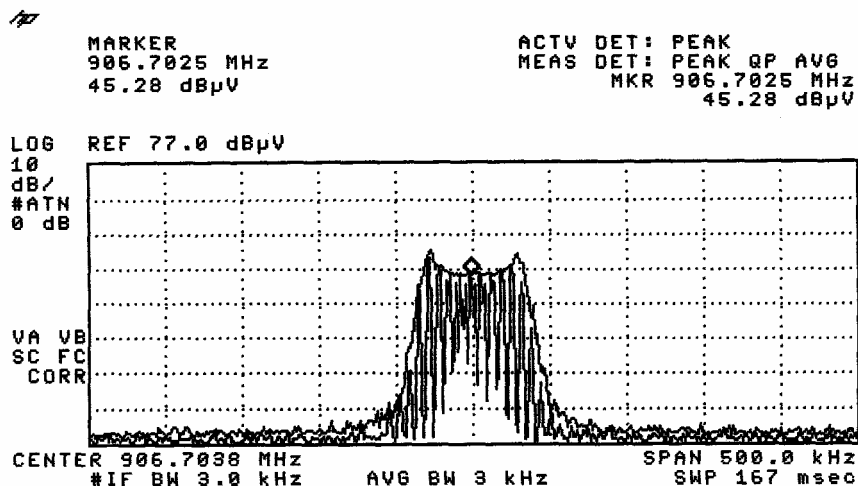
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Results of CH A: Pass



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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of CH B: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
906.0	55.3	26.9	82.2	12,882.5	50,000	Vertical
1812.0	No Emission Detected				500	Vertical
* 2718.0					500	Vertical
* 3624.0					500	Vertical
* 4530.0					500	Vertical
* 5436.0					500	Vertical
6342.0					500	Vertical
* 7248.0					500	Vertical
* 8154.0					500	Vertical
* 9060.0					500	Vertical

Remarks:

- *: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB
1GHz to 18GHz ±4.4dB

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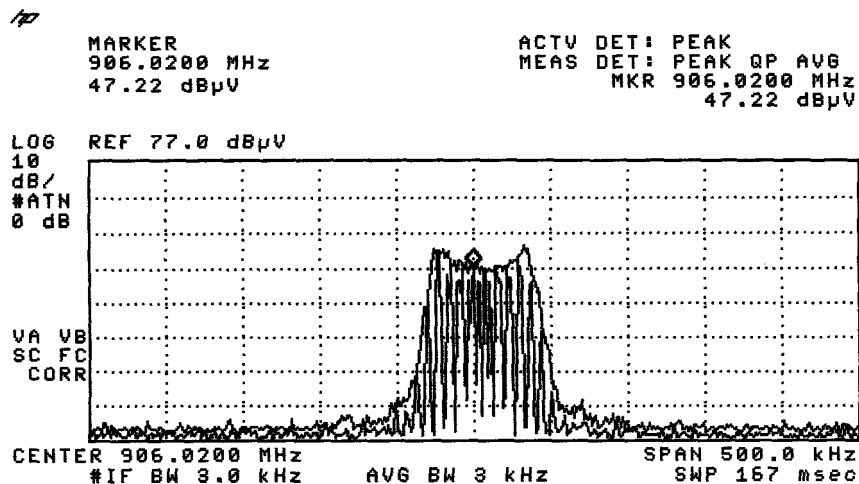
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Results of CH B: Pass



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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of CH X: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
908.0	53.8	26.9	80.7	10,839.3	50,000	Vertical
1816.0	No Emission Detected				500	Vertical
* 2724.0					500	Vertical
* 3632.0					500	Vertical
* 4540.0					500	Vertical
* 5448.0					500	Vertical
6356.0					500	Vertical
* 7264.0					500	Vertical
* 8172.0					500	Vertical
* 9080.0					500	Vertical

Remarks:

- *: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB
1GHz to 18GHz ±4.4dB

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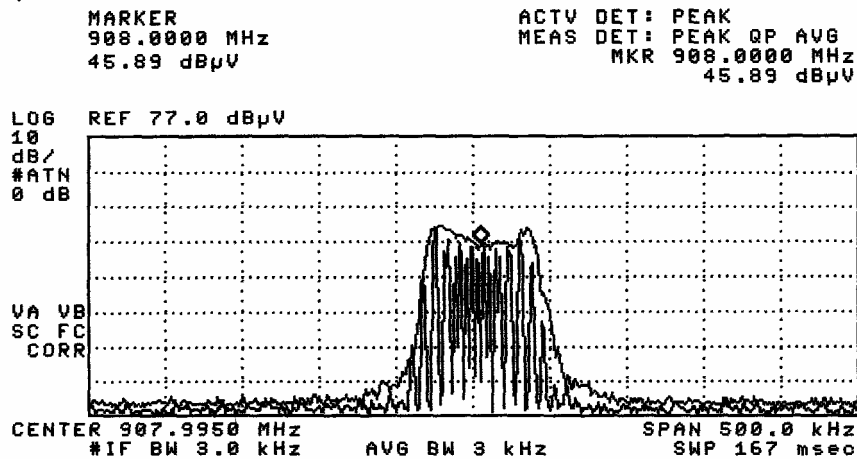
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Results of CH X: Pass



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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of CH Y: Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
907.3	51.6	26.9	78.5	8,414.0	50,000	Vertical
1814.6	No Emission Detected				500	Vertical
* 2721.9					500	Vertical
* 3629.2					500	Vertical
* 4536.5					500	Vertical
* 5443.8					500	Vertical
6351.1					500	Vertical
* 7258.4					500	Vertical
* 8165.7					500	Vertical
* 9073.0					500	Vertical

Remarks:

- *: Denotes restricted band of operation.
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB
1GHz to 18GHz ±4.4dB

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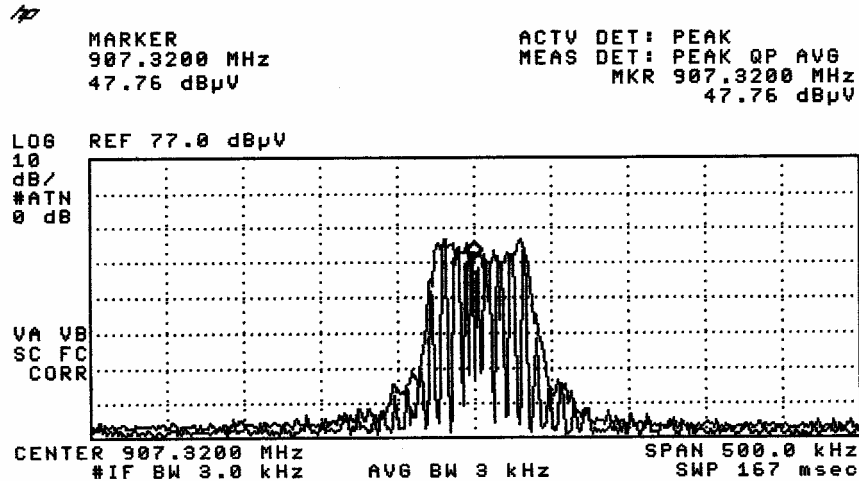
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Results of CH Y: Pass



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi - peak detector and above 1000MHz are based on measurements employing an average detector.

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m @3m μV/m	Limit @3m μV/m
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB
1GHz to 18GHz ±4.4dB

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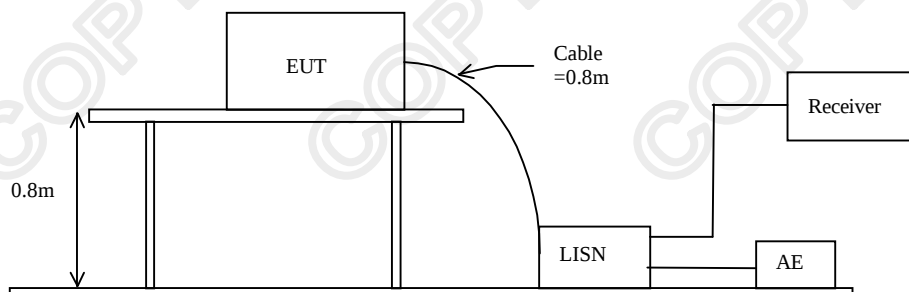
3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.4:2003
Test Date:	2005-10-21
Mode of Operation:	On Mode (Channel A, Tx) / On Mode (Channel B, Tx) / On Mode (Channel X, Tx) / On Mode (Channel Y, Tx)

Test Method:

The test was performed in accordance with ANSI C63.4: 2003, with the following: initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



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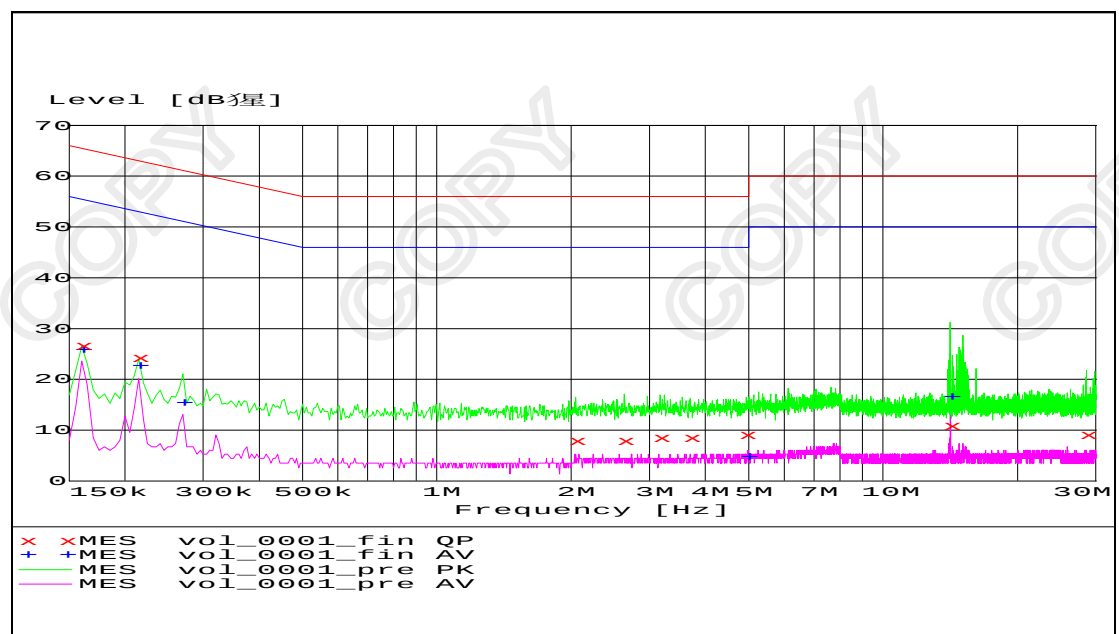
Limits for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of On Mode (Channel A, Tx): PASS



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Results of On Mode (Channel A, Tx): PASS

Conductor	Frequency	Quasi-Peak		Average	
Live or Neutral	MHz	Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	2.630	8.00	56.0	-*-	-*-
Live	3.165	8.50	56.0	-*-	-*-
Live	3.700	8.50	56.0	-*-	-*-
Live	4.940	9.00	56.0	-*-	-*-
Live	4.980	-*-	-*-	4.80	46.0
Live	14.165	-*-	-*-	16.50	50.0
Live	28.605	9.00	60.0	-*-	-*-
Neutral	0.160	26.50	66.0	25.70	56.0
Neutral	0.215	24.20	63.0	22.70	53.0
Neutral	0.270	-*-	-*-	15.40	51.0
Neutral	2.050	8.00	56.0	-*-	-*-
Neutral	14.130	10.90	60.0	-*-	-*-

Remarks:

Calculated measurement uncertainty: ± 2.8 dB

-*- Emission(s) that is far below the corresponding limit line.

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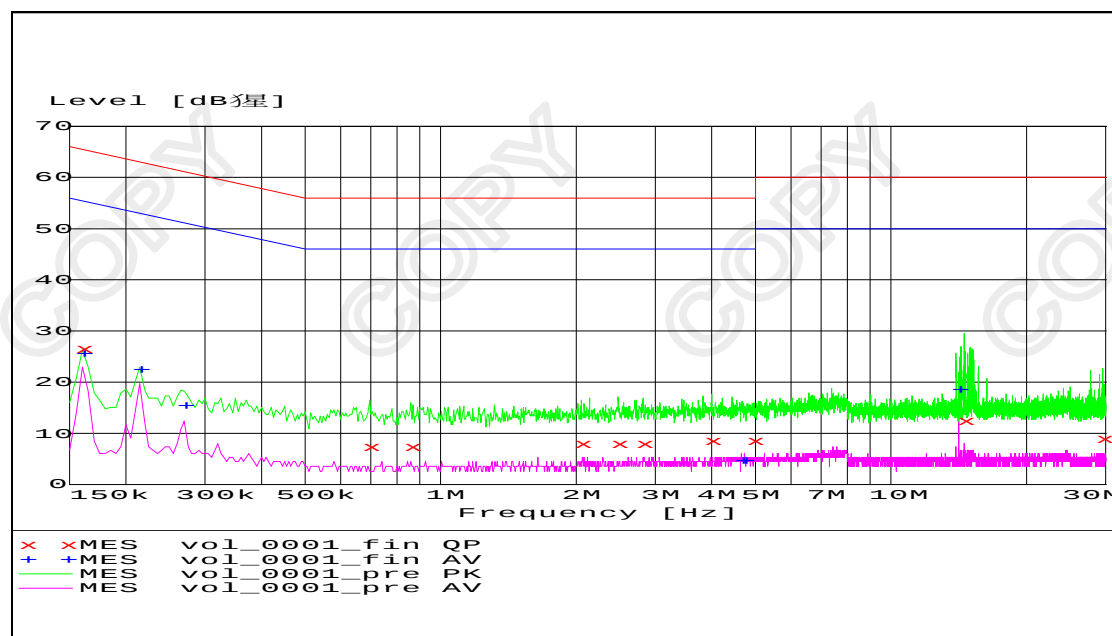
Limits for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of On Mode (Channel B, Tx): PASS



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Results of On Mode (Channel B, Tx): PASS

Conductor	Frequency	Quasi-Peak		Average	
Live or Neutral	MHz	Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	2.480	8.00	56.0	-*-	-*-
Live	4.000	8.50	56.0	-*-	-*-
Live	4.965	8.50	56.0	-*-	-*-
Live	14.155	-*-	-*-	18.40	50.0
Live	14.570	12.40	60.0	-*-	-*-
Live	29.595	9.00	60.0	-*-	-*-
Neutral	0.160	26.50	66.0	25.50	56.0
Neutral	0.215	-*-	-*-	22.50	53.0
Neutral	0.270	-*-	-*-	15.30	51.0
Neutral	0.695	7.40	56.0	-*-	-*-
Neutral	0.860	7.40	56.0	-*-	-*-
Neutral	2.055	8.00	56.0	-*-	-*-
Neutral	2.815	8.00	56.0	-*-	-*-
Neutral	4.655	-*-	-*-	4.60	46.0
Neutral	4.730	-*-	-*-	4.60	46.0

Remarks:

Calculated measurement uncertainty: ± 2.8 dB

-*- Emission(s) that is far below the corresponding limit line.

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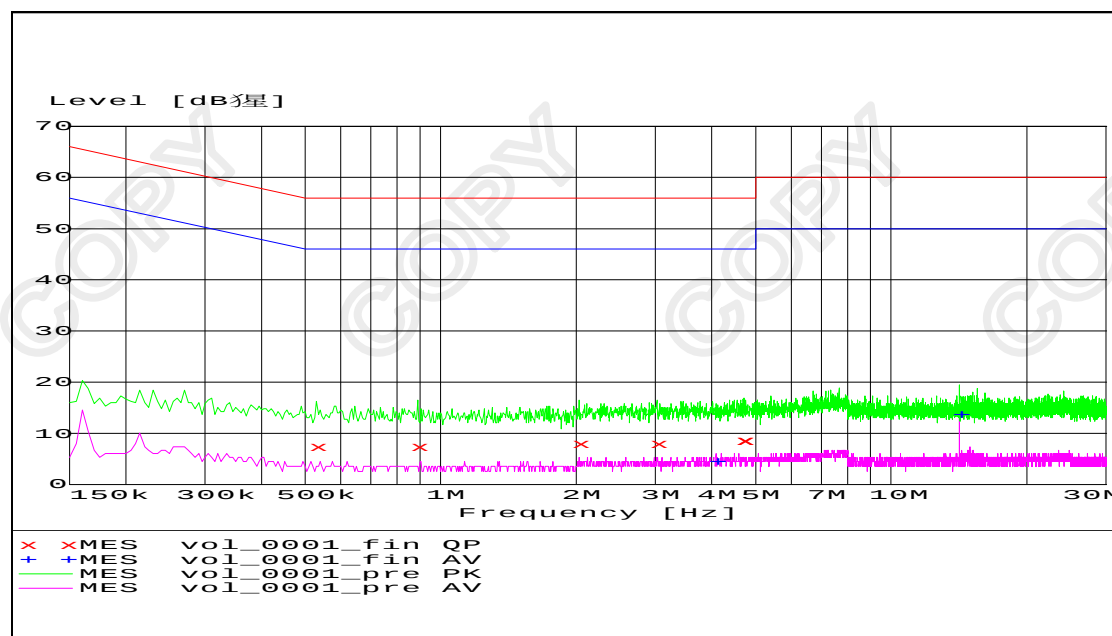
Limits for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of On Mode (Channel X, Tx): PASS



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Results of On Mode (Channel X, Tx): PASS

Conductor	Frequency	Quasi-Peak		Average	
Live or Neutral	MHz	Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	4.690	8.50	56.0	-*-	-*-
Live	14.185	-*-	-*-	13.60	50.0
Neutral	0.530	7.40	56.0	-*-	-*-
Neutral	0.890	7.40	56.0	-*-	-*-
Neutral	2.030	8.00	56.0	-*-	-*-
Neutral	3.020	8.00	56.0	-*-	-*-
Neutral	4.085	-*-	-*-	4.40	46.0
Neutral	4.715	8.50	56.0	-*-	-*-

Remarks:

Calculated measurement uncertainty: ± 2.8 dB

-*- Emission(s) that is far below the corresponding limit line.

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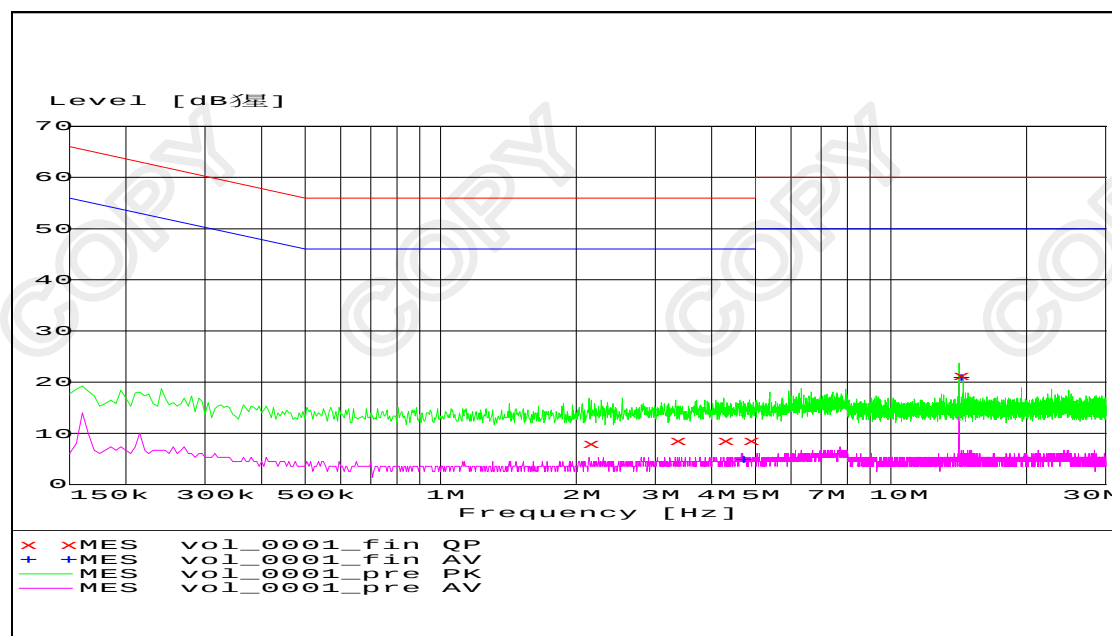
Limits for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of On Mode (Channel Y, Tx): PASS



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Results of On Mode (Channel Y, Tx): PASS

Conductor	Frequency	Quasi-Peak		Average	
Live or Neutral	MHz	Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	3.330	8.50	56.0	-*-	-*-
Live	4.850	8.50	56.0	-*-	-*-
Live	14.175	-*-	-*-	20.70	50.0
Neutral	2.135	8.00	56.00	-*-	-*-
Neutral	4.255	8.50	56.00	-*-	-*-
Neutral	14.175	21.50	60.00	20.70	50.00

Remarks:

Calculated measurement uncertainty: ± 2.8 dB

-*- Emission(s) that is far below the corresponding limit line.

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	15/06/04
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	15/06/04
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	15/06/04
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	15/06/04
EM011	ATTENUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	15/06/04
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	15/06/04
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	15/06/04
EM020	HORN ANTENNA	EMCO	3115	4032	30/07/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	30/07/03
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	08/02/03
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	13/01/04
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	04/10/04
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	28/10/03
EM195	ANTENNA POSITIONING MAST	EMCO	2075	2368	N/A
EM196	MULTI-DEVICE CONTROLLER	EMCO	2090	1662	N/A
EM223	HORN ANTENNA	EMCO	3160-09	08163126	18/06/04
EM224	HORN ANTENNA	EMCO	3160-09	08198430	20/06/04

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A	CM
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A	17/10/03
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	14/10/04
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	CM
EM142	PULSES LIMITER	R & S	ESH3Z2	357.8810.52	04/08/04
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	06/01/04
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	17/10/03
EM197	LISN	EMCO	4825/2	1193	05/06/04

Remarks:-

CM Corrective Maintenance
N/A Not Applicable or Not Available
TBD To Be Determined

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Appendix B

Photographs of EUT

Front View of the product



Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



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