



National Testing Center for Digital Electronic Product (TDE)
Shenzhen Academy of Metrology and Quality Inspection (SMQ)

Certificate

Of Compliance

No: WT078003046

The applicant

Samsung Electronics Huizhou Co., Ltd.

Chenjiang Town, Huizhou City, Guangdong Province, China

has successfully demonstrated that its product

DVD Receiver

**HT-A100, HT-A100W, HT-XA100, HT-XA105, HT-XA100H, HT-A100H, HT-A100C,
HT-XA100C, HT-XA105C, HT-A100Q, HT-XA100Q, HT-XA105Q**

is compliant with

FCC Part 15:Subpart B

The certificate of compliance shows that the tested sample technically complies with the standards listed above.
The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole
production.



Authorized Signer:

Issued Date:

Dec 26, 2007



Canada



EMC TEST REPORT

For

DVD Receiver

Model Number: HT-A100, HT-A100W, HT-XA100, HT-XA105

Report Number : WT078003046

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory
Site Location	:	Guangdong EMC Compliance Test Center Bldg. Of Metrology & Quality Inspection, Longzhu Road, Shenzhen, Guangdong, China
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TEST REPORT DECLARATION

Applicant : Samsung Electronics Huizhou Co., Ltd
Chenjiang Town, Huizhou City, Guangdong Province, China

Manufacturer : Samsung Electronics Huizhou Co., Ltd
Chenjiang Town, Huizhou City, Guangdong Province, China

Factory 1 : Samsung Electronics Huizhou Co., Ltd
Chenjiang Town, Huizhou City, Guangdong Province, China

Factory 2 : Tianjin Samsung Electronics Company
300457, TSWC12, 4th Avenue, TEDA, Tianjin, China

Factory 3 : Samsung Electronics Slovakia s.r.o
Hviezdoslavova 807,924 27 Galanta, Slovakia

Factory 4 : P.T. Samsung Electronics Indonesia Co
Cikarang Industrial Estate JI, Jababeka Raya Blok F 29-33 Cikarang. Bekasi
17530, INDONESIA

EUT Description : DVD Receiver
HT-A100, HT-A100W, HT-XA100, HT-XA105,

MODEL No : HT-XA100H, HT-A100H, HT-A100C, HT-XA100C,
HT-XA105C, HT-A100Q, HT-XA100Q, HT-XA105Q

Brand name : SAMSUNG

Test Standards:

FCC Part 15 Subpart B

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

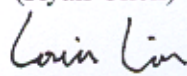
Tested by:


(Ryan Chen)

Date:

Dec 26. 2007

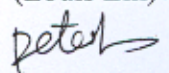
Checked by:


(Louis Lin)

Date:

Dec 26. 2007

Approved by:


(Peter Lin)

Date:

Dec 26. 2007

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Section	Test Results
Conducted Disturbance	Section 15.107	Pass
Radiated Disturbance	Section 15.109	Pass
Antenna Power Conduction	Section 15.111	Pass

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Committee for Laboratories (**CNAS**) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (**FCC**), and the registration number are **97379**(open area test site) and **274801**(semi anechoic chamber).

The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (**VCCI**), and the registration number are **R-1974**(open area test site) , **R-1966**(semi anechoic chamber), **C-2117**(mains ports conducted interference measurement) and **T-180**(telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (**IC**), and the registration number is **IC4174**.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is **E2024086Z02**.

Measurement Uncertainty

2.3. Measurement Uncertainty

Available upon request.

3. PRODUCT DESCRIPTION

3.1. EUT Description

Description : DVD Receiver

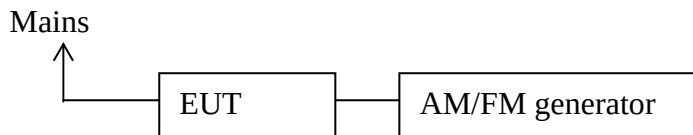
Applicant : Samsung Electronics Huizhou Co., Ltd

Model Number : HT-A100, HT-A100W, HT-XA100, HT-XA105

Input Power : AC 120V/60Hz

Remark: HT-A100, HT-A100W, HT-XA100 and HT-XA105 use the same electrical circuit, components, except that model and enclosure different. EMC test shall perform on model HT-A100 only.

3.2. Block Diagram of EUT Configuration



3.3. Support Equipment List

Table 2 Ancillary Equipment

Name	Model No	S/N	Manufacturer	Cables and Cords	Used “√”
DVD Standard test disc	TDVP-501	--	A.BEX	--	✓
CD Standard test disc	TCD-782	--	A.BEX	--	
iPod	MA446ZP	8K63899YV9M	APPLE	1.2m	✓
USB Disk	Cruzer Micro	--	SanDisk	--	✓

3.4. Operating Condition of EUT

Test mode 1: Play DVD

Test mode 2: Connect to memory and play mp3

Test mode 3: Amplifier

Test mode 4: FM 88MHz

Test mode 5: FM 98MHz

Test mode 6: FM 108Hz

3.5. Test Conditions

Temperature: 23-24℃

Relative Humidity: 44-62%

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Conducted Disturbance

Table 3 Conducted Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB3319	EMI Test Receiver	Rohde & Schwarz	ESCS30	Jan.25 2007	1 year
SB4357	AMN	Rohde & Schwarz	ESH2-Z5	Jan.25 2007	1 year
SB2585	AM/FM generator	Jung Jin	JSG-1101B	Jan.27 2007	1 year

4.2. Test Equipment Used to Measure Radiated Disturbance

Table 4 Radiated Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB4538	EMI Test Receiver	Rohde & Schwarz	ESIB7	Jan.25 2007	1 year
SB5472/02	Bilog Antenna	SCHWARZBECK	VULB9163	Jan.25 2007	1 year
SB2585	AM/FM generator	Jung Jin	JSG-1101B	Jun.27 2007	1 year

4.3. Test Equipment Used to Antenna Power Conduction

Table 5 Antenna Power Conduction Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB3319	EMI Test Receiver	Rohde & Schwarz	ESCS30	Jan.25 2007	1 year
SB3436/01	Combine network	Rohde & Schwarz	SCA-Comp	Jan.25 2007	1 year
SB2585	AM/FM generator	Jung Jin	JSG-1101B	Jun.27 2007	1 year

5. CONDUCTED DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1. Test Standard

FCC Part 15 Section 15.107

5.1.2. Test Limit

Table 6 Conducted Disturbance Test Limit (Class B)

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

* Decreasing linearly with logarithm of the frequency

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The emissions don't show in below are too low against the limits, the test curves are shown in the APPENDIX I

Table 7 Conducted Disturbance Test Data

Model No.: HT-A100									
Test Mode: 1									
Line					Neutral				
Frequency (MHz)	Quasi-Peak		Average		Frequency (MHz)	Quasi-Peak		Average	
	Reading (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Limit (dB μ V)		Reading (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Limit (dB μ V)
0.225	58.6	62.6	47.9	52.6	0.170	60.1	64.9	49.1	54.9
0.280	56.9	60.8	47.3	50.8	0.210	60.1	63.2	49.6	53.2
0.360	48.5	58.7	36.7	48.7	0.255	58.4	61.5	47.3	51.5
0.895	44.3	56	39.9	46	0.555	47.5	56	42.4	46
17.450	46.1	60	34.6	50	17.700	55.8	60	43.7	50

Table 8 Conducted Disturbance Test Data

Model No.: HT-A100									
Test Mode: 2									
Line					Neutral				
Frequency (MHz)	Quasi-Peak		Average		Frequency (MHz)	Quasi-Peak		Average	
	Reading (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Limit (dB μ V)		Reading (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Limit (dB μ V)
0.165	60.8	65.2	51.0	55.2	0.165	60.2	65.2	52.1	55.2
0.175	58.9	64.7	50.3	54.7	0.185	58.3	64.2	50.3	54.3
0.225	59.2	62.6	49.6	52.6	0.210	58.8	63.2	50.1	53.2
0.390	51.3	58.0	44.5	48.0	0.230	58.2	62.4	48.9	52.4
0.560	47.7	56	43.0	46	0.395	50.9	57.9	44.9	47.9
17.600	51.7	60	42.6	50	0.900	45.0	56	40.3	46
---	---	---	---	---	17.720	42.7	60	32.4	50

Table 9 Conducted Disturbance Test Data

Model No.: HT-A100									
Test Mode: 3									
Line					Neutral				
Frequency (MHz)	Quasi-Peak		Average		Frequency (MHz)	Quasi-Peak		Average	
	Reading (dBμV)	Limit (dBμV)	Reading (dBμV)	Limit (dBμV)		Reading (dBμV)	Limit (dBμV)	Reading (dBμV)	Limit (dBμV)
0.225	56.6	62.6	49.1	52.6	0.230	56.0	62.4	48.3	52.4
0.280	52.0	60.8	45.9	50.8	0.245	56.9	61.9	48.5	51.9
0.395	51.9	57.9	43.3	47.9	0.280	53.1	60.8	47.4	50.8
0.900	45.5	56	40.2	46	0.395	52.0	57.9	43.3	47.9
17.750	55.0	60	46.7	50	17.750	54.6	60	46.5	50

Table 10 Conducted Disturbance Test Data

Model No.: HT-A100									
Test Mode: 4									
Line					Neutral				
Frequency (MHz)	Quasi-Peak		Average		Frequency (MHz)	Quasi-Peak		Average	
	Reading (dBμV)	Limit (dBμV)	Reading (dBμV)	Limit (dBμV)		Reading (dBμV)	Limit (dBμV)	Reading (dBμV)	Limit (dBμV)
0.225	58.1	62.6	48.7	52.6	0.225	57.7	62.6	48.9	52.6
0.335	48.4	59.3	40.5	49.3	0.400	46.2	57.8	37.1	47.8
0.545	48.4	56	41.4	46	0.605	43.8	56	35.2	46
0.955	44.2	56	34.9	46	0.815	44.2	56	33.9	46
20.690	47.0	60	38.6	50	20.670	47.8	60	39.5	50

Table 11 Conducted Disturbance Test Data

Model No.: HT-A100									
Test Mode: 5									
Line					Neutral				
Frequency (MHz)	Quasi-Peak		Average		Frequency (MHz)	Quasi-Peak		Average	
	Reading (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Limit (dB μ V)		Reading (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Limit (dB μ V)
0.240	56.5	62.0	48.2	52.0	0.240	56.8	62.0	48.6	52.0
0.280	51.3	60.8	47.5	50.8	0.280	52.6	60.8	47.7	50.8
0.395	52.0	57.9	44.5	47.9	0.395	51.7	57.9	44.9	47.9
0.785	41.2	56	36.1	46	0.785	45.3	56	41.3	46
17.560	50.9	60	43.7	50	18.060	49.9	60	43.4	50

Table 12 Conducted Disturbance Test Data

Model No.: HT-A100									
Test Mode: 6									
Line					Neutral				
Frequency (MHz)	Quasi-Peak		Average		Frequency (MHz)	Quasi-Peak		Average	
	Reading (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Limit (dB μ V)		Reading (dB μ V)	Limit (dB μ V)	Reading (dB μ V)	Limit (dB μ V)
0.240	57.3	62.0	49.0	52.0	0.240	57.3	62.0	48.9	52.0
0.280	52.2	60.8	47.0	50.	0.280	53.3	60.8	46.2	50.8
0.395	51.4	57.9	43.9	47.9	0.395	51.2	57.9	43.7	47.9
0.765	39.4	56	33.6	46	0.785	46.1	56	42.2	46
17.620	51.6	60	42.3	50	17.290	50.5	60	42.9	50

6. RADIATED DISTURBANCE TEST

6.1. Test Standard and Limit

6.1.1. Test Standard

FCC Part 15 Section 15.109

6.1.2. Test Limit

Table 13 Radiated Disturbance Test Limit (Class B)

FREQUENCY MHz	FIELD STRENGTHS LIMITS dB (μV/m)
30 ~ 88	40.0
88 ~ 216	43.5
216 ~ 960	46.0
960 ~	54.0

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set **3 meters** away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

Emissions don't show below are too low against the limits, the test curves are shown in the APPENDIX I

Table 14 Radiated Disturbance Test Data

Model No.: HT-A100			
Test Mode: 1			
Frequency MHz	Readings dB(μ V/m)	Polarization	Limits dB (μ V/m)
296.991	42.9	Horizontal	46.0
445.511	42.7	Horizontal	46.0
296.991	40.9	Vertical	46.0
445.501	41.1	Vertical	46.0

Table 15 Radiated Disturbance Test Data

Model No.: HT-A100			
Test Mode: 2			
Frequency MHz	Readings dB(μ V/m)	Polarization	Limits dB (μ V/m)
297.052	41.4	Horizontal	46.0
445.511	42.4	Horizontal	46.0

Table 16 Radiated Disturbance Test Data

Model No.: HT-A100			
Test Mode: 3			
Frequency MHz	Readings dB(μ V/m)	Polarization	Limits dB (μ V/m)
445.511	38.8	Vertical	46.0
296.991	37.4	Horizontal	46.0
445.511	41.0	Horizontal	46.0

Table 17 Radiated Disturbance Test Data

Model No.: HT-A100			
Test Mode: 4			
Frequency MHz	Readings dB(μ V/m)	Polarization	Limits dB(μ V/m)
296.991	41.1	Vertical	46.0
445.511	41.0	Vertical	46.0
296.991	42.8	Horizontal	46.0
445.511	42.3	Horizontal	46.0

Table 18 Radiated Disturbance Test Data

Model No.: HT-A100			
Test Mode: 5			
Frequency MHz	Readings dB(μ V/m)	Polarization	Limits dB(μ V/m)
297.012	42.3	Horizontal	46.0
445.511	40.3	Vertical	46.0
445.511	39.0	Vertical	46.0

Table 19 Radiated Disturbance Test Data

Model No.: HT-A100			
Test Mode: 6			
Frequency MHz	Readings dB(μ V/m)	Polarization	Limits dB(μ V/m)
297.012	40.4	Vertical	46.0
445.511	41.3	Vertical	46.0
296.991	42.9	Horizontal	46.0

7. ANTENNA POWER CONDUCTION TEST

7.1. Test Standard and Limit

7.1.1. Test Standard

FCC Part 15 Section 15.111

7.1.2. Test Limit

Table 20 Antenna Power Conduction Test Limit

Equipment Type	Limit Values dB(μ V) 75 Ω
Frequency modulation sound receivers	51.7

7.2. Test Procedure

The antenna terminals of the receivers or associated equipment and the auxiliary signal generator are connected to the measuring set by means of coaxial cables and a resistive combining network having a minimum attenuation of 6dB. The impedance as seen from the receiver or associated equipment shall be equal to the nominal antenna input impedance for which the receiver has been designed. The equipment under test shall be tuned to the wanted signal.

The measuring set is tuned to the relevant radiated frequency and the disturbance level is measured taking into account the attenuation between the receiver antenna terminal and the measuring set input.

7.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

7.4. Test Data

Table 21 Antenna Power Conduction Test Data

Model No.: HT-A100		
Test Mode: 4		
Frequency MHz	Readings (dB μ V)	Limits (dB μ V)
98.750	32.7	51.7
197.375	34.9	51.7
296.125	29.9	51.7

Table 22 Antenna Power Conduction Test Data

Model No.: HT-A100		
Test Mode: 5		
Frequency MHz	Readings (dB μ V)	Limits (dB μ V)
108.687	35.7	51.7
217.437	35.7	51.7
326.187	30.9	51.7

Table 23 Antenna Power Conduction Test Data

Model No.: HT-A100		
Test Mode: 7		
Frequency MHz	Readings (dB μ V)	Limits (dB μ V)
118.687	38.0	51.7
237.437	39.2	51.7
356.125	33.6	51.7

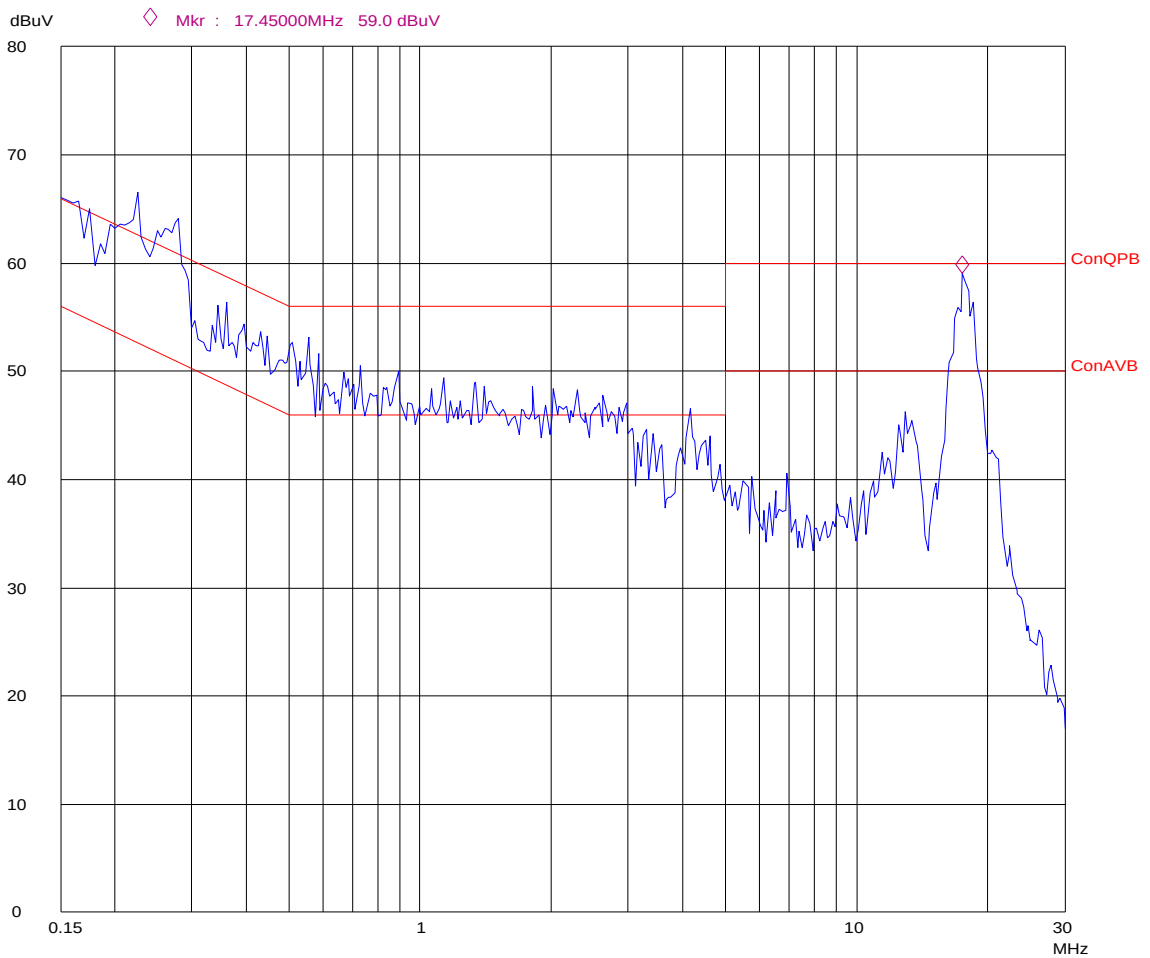
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APPENDIX I TEST CURVES

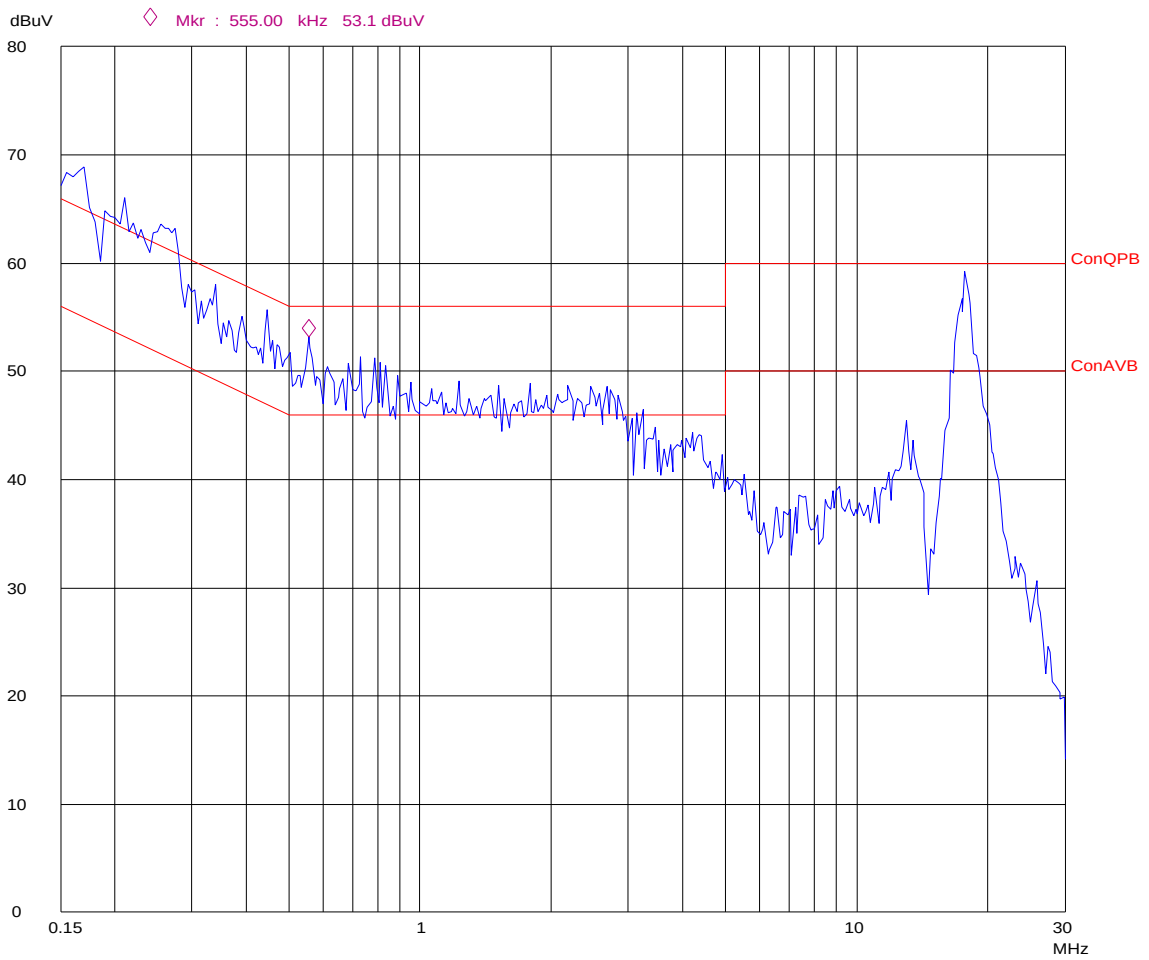
Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: Play DVD
Test Spec: L
Comment: AC 120V/60Hz



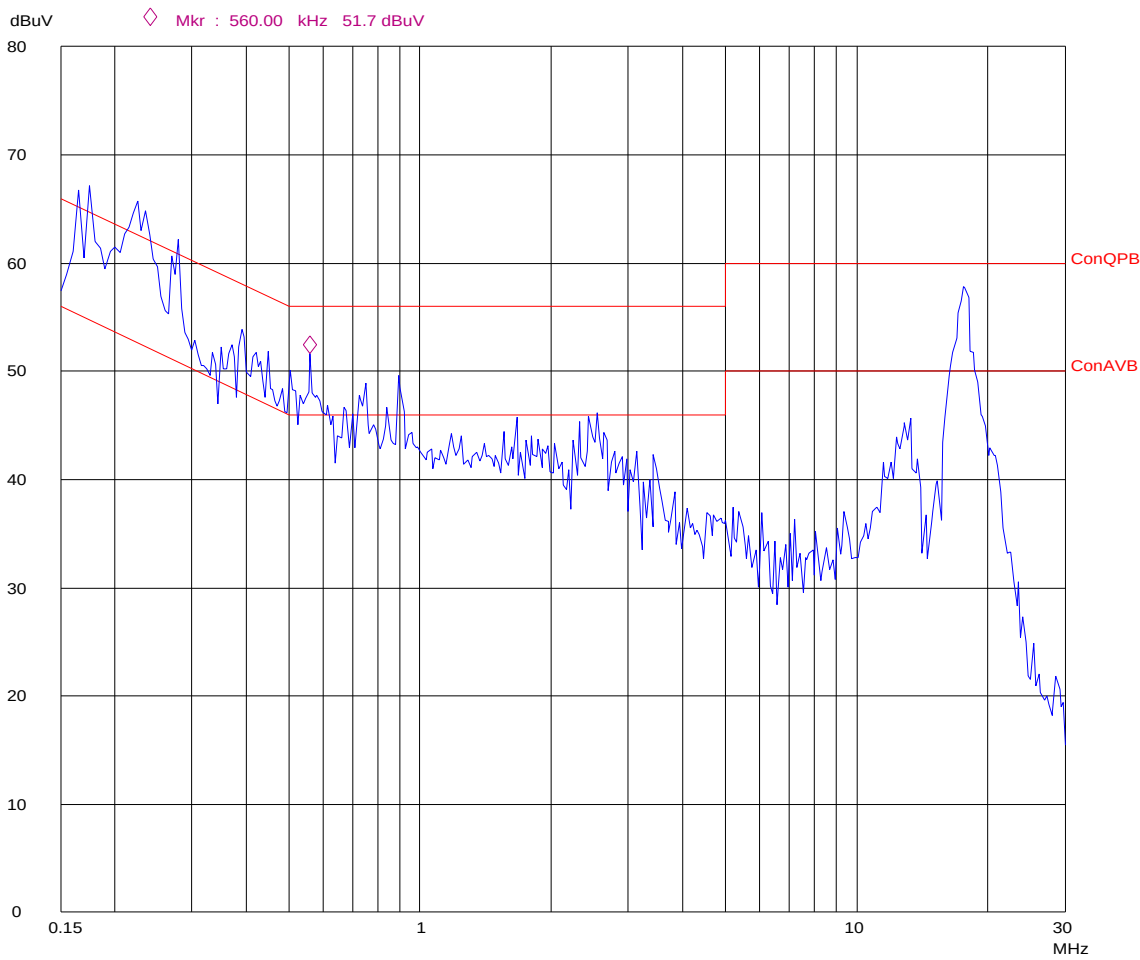
Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: Play DVD
Test Spec: N
Comment: AC 120V/60Hz



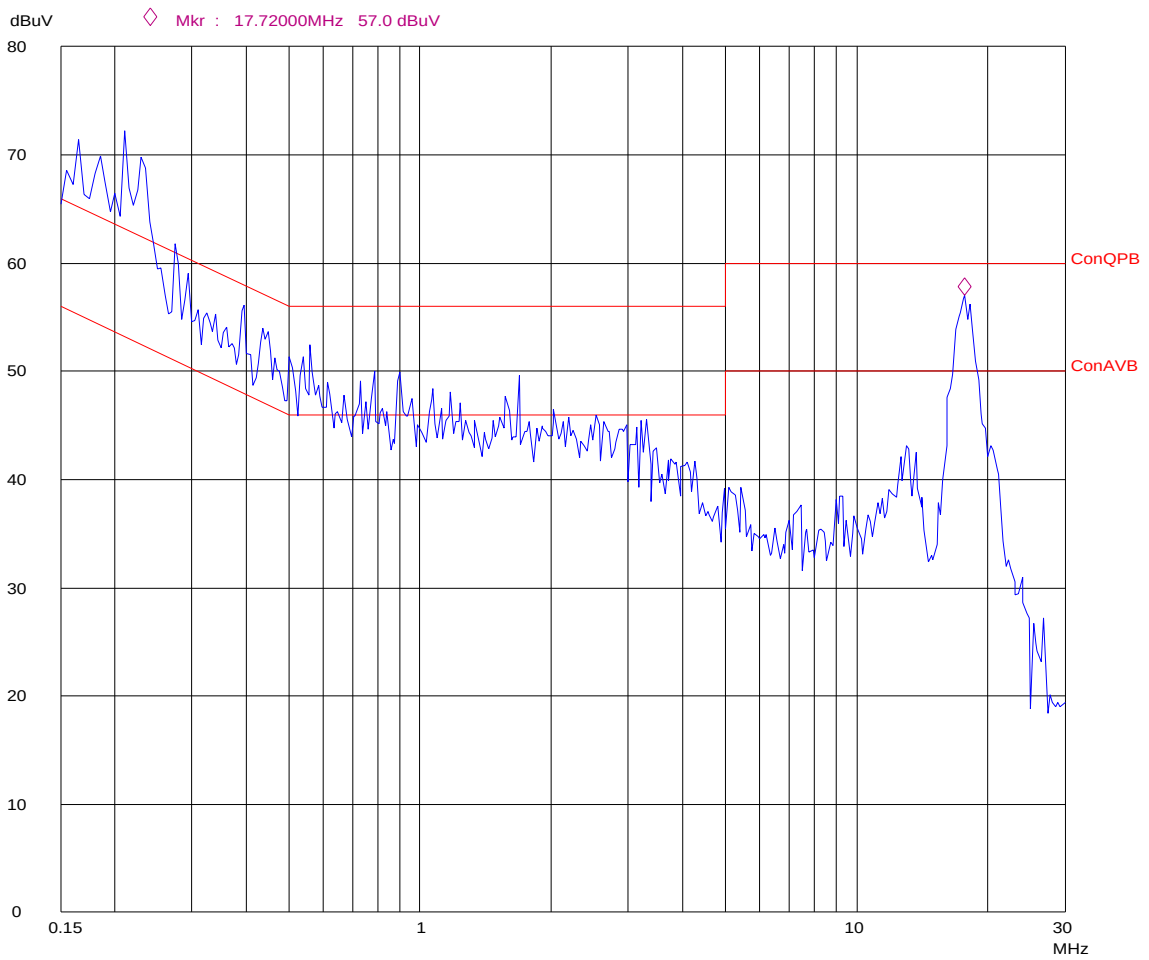
Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: Connet to memory and play mp3
Test Spec: L
Comment: AC 120V/60Hz



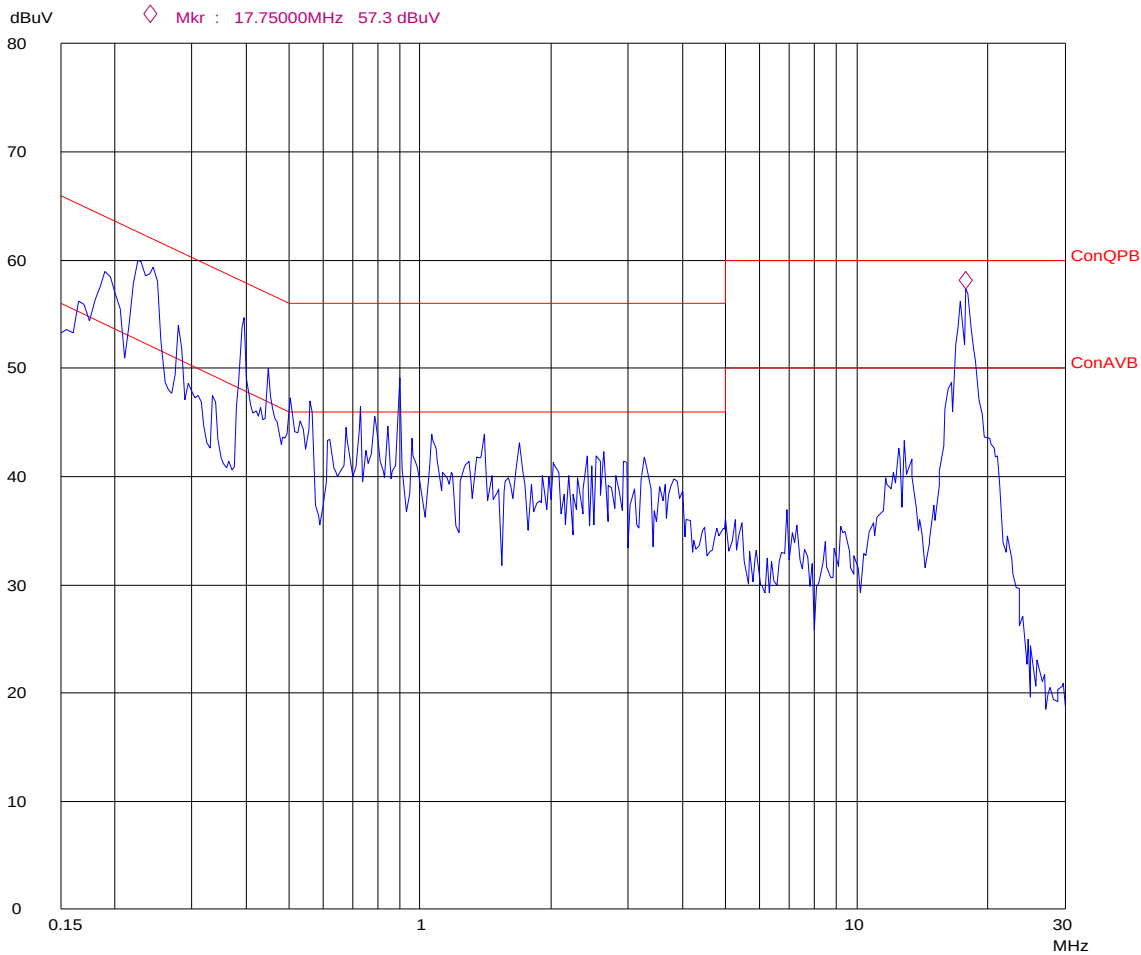
Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: Connet to memory and play mp3
Test Spec: N
Comment: AC 120V/60Hz



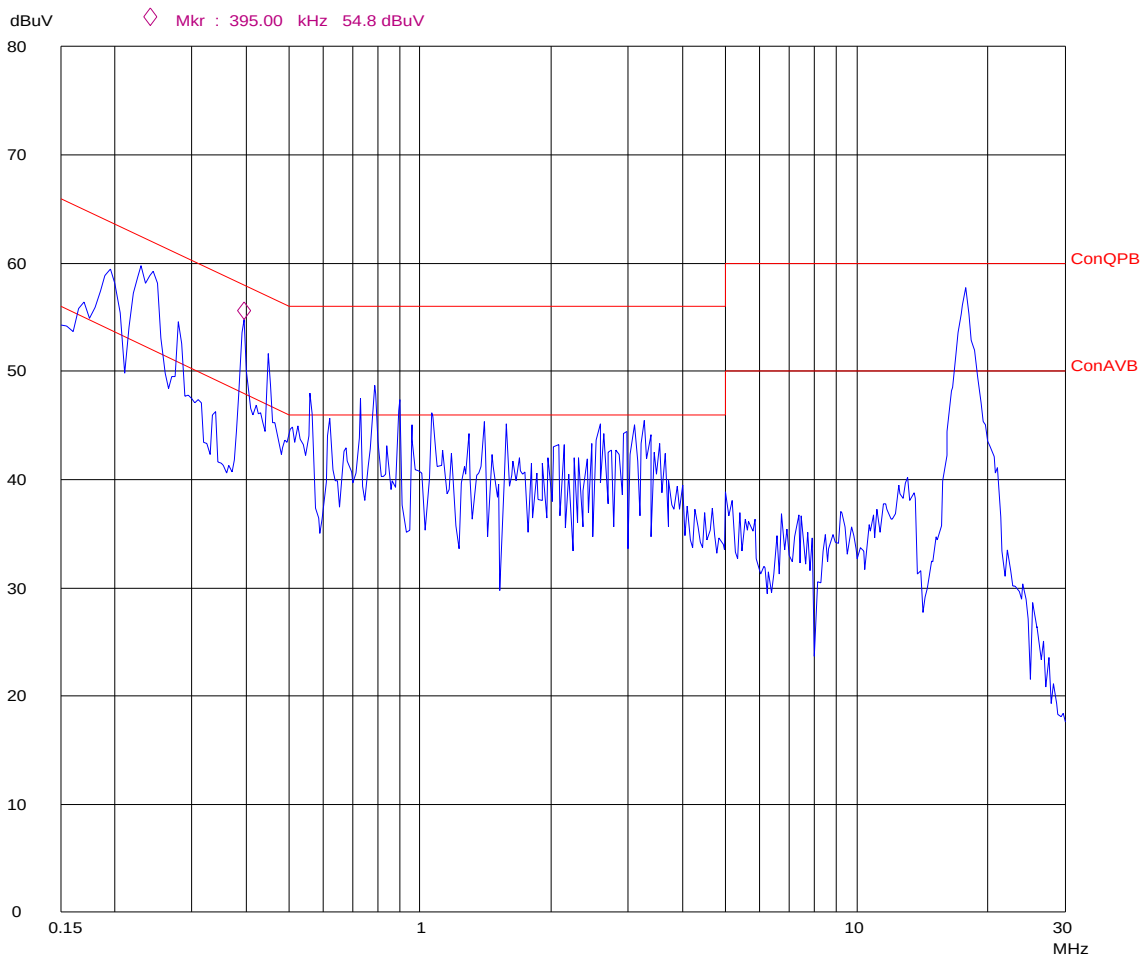
Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: Amplifier
Test Spec: L
Comment: AC 120V/60Hz



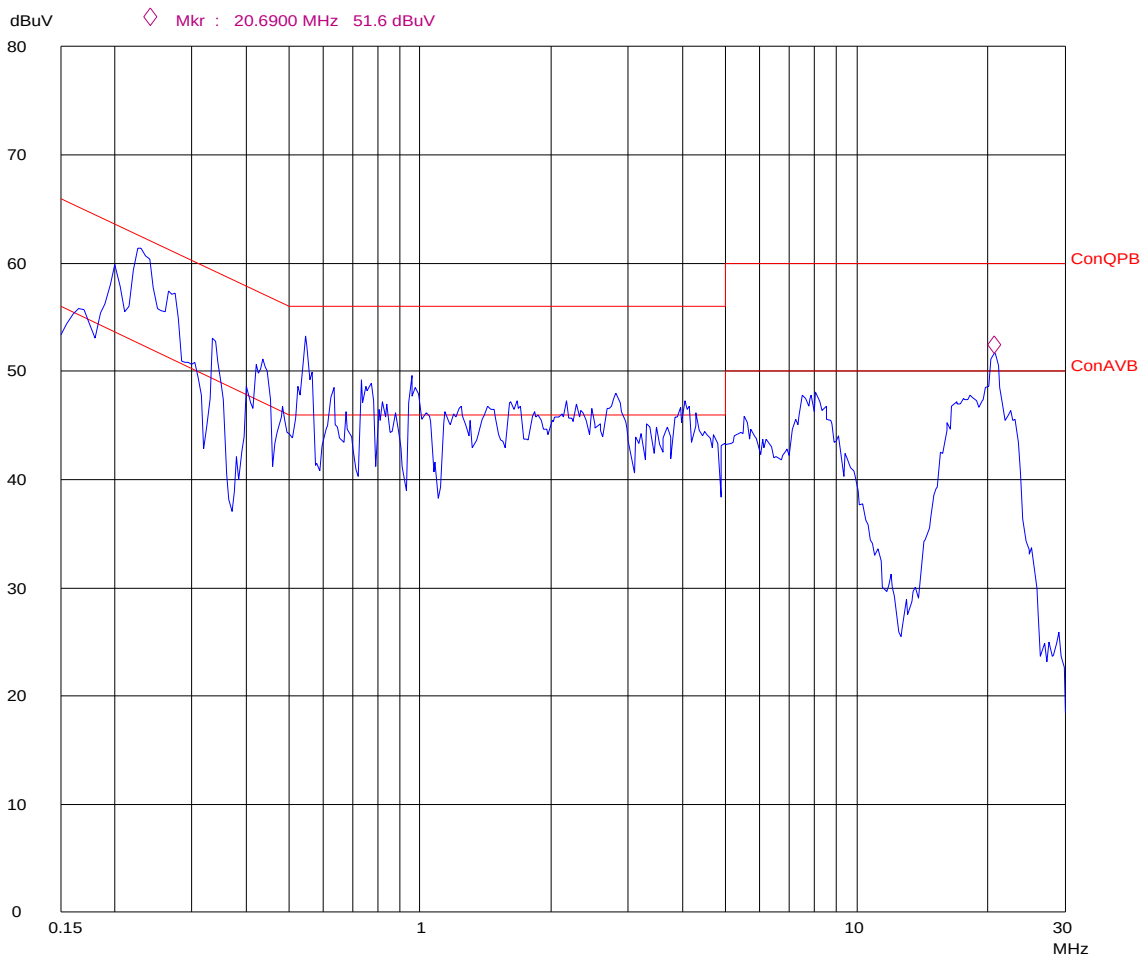
Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: Amplifier
Test Spec: N
Comment: AC 120V/60Hz



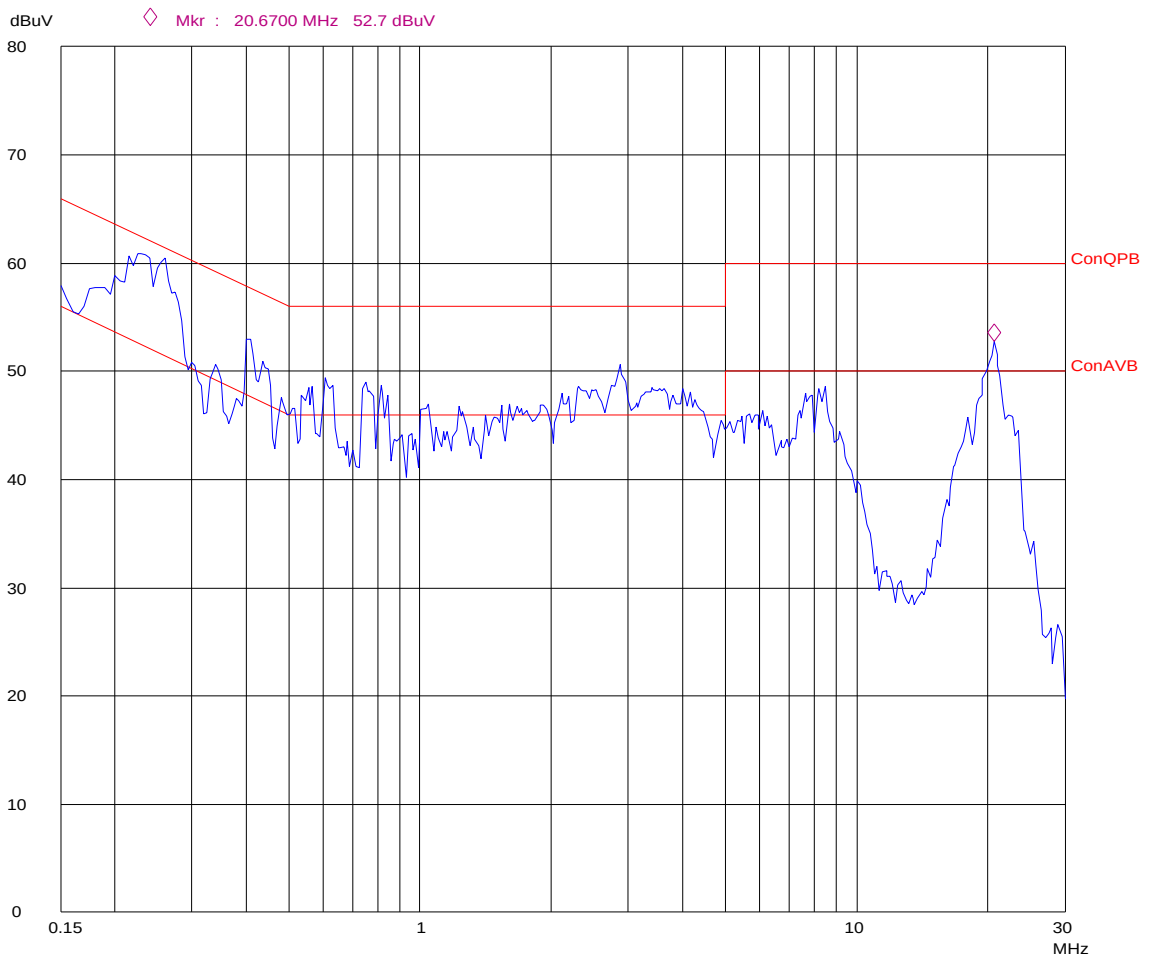
Conducted Disturbance

EUT: M/N:HT-A100
Op Cond: FM88MHz
Test Spec: L
Comment: AC 120V/60Hz



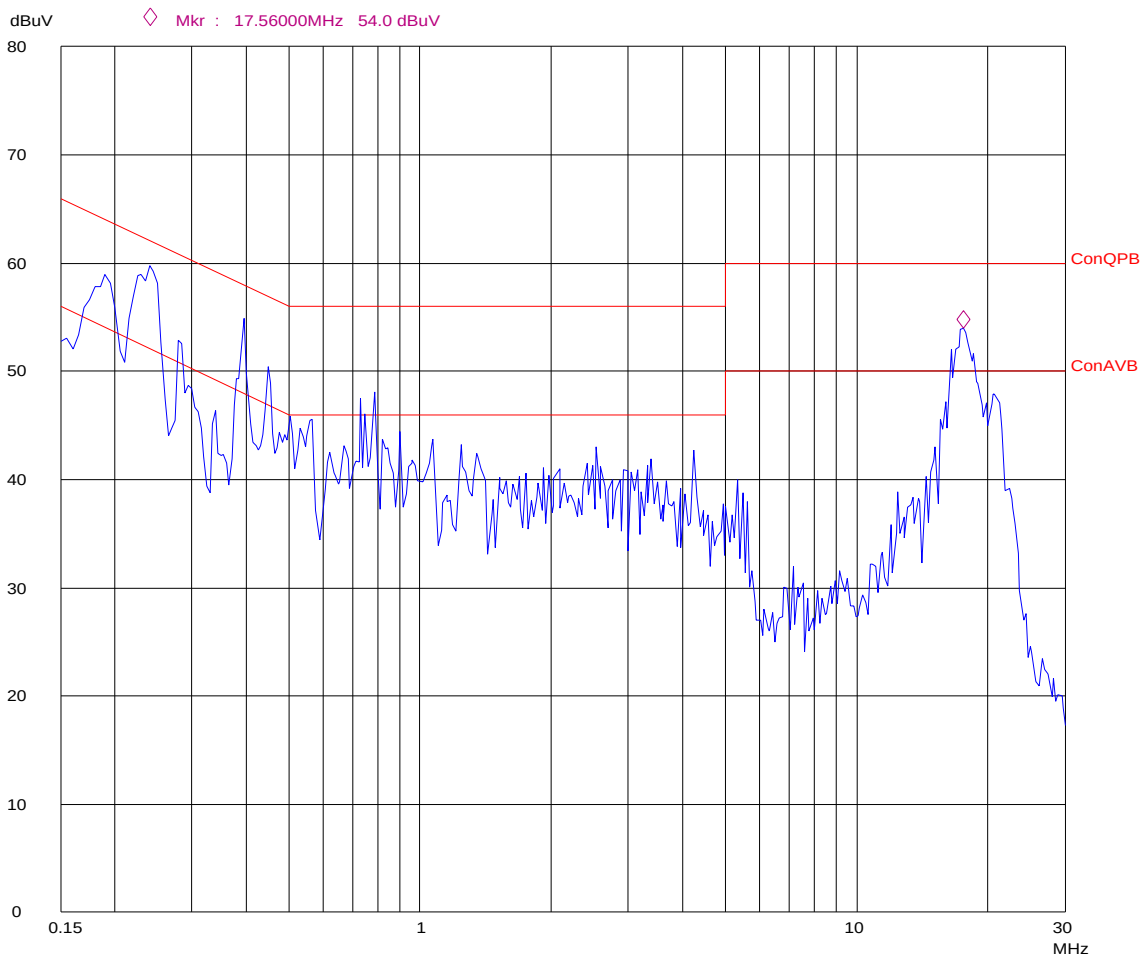
Conducted Disturbance

EUT: M/N:HT-A100
Op Cond: FM88MHz
Test Spec: N
Comment: AC 120V/60Hz



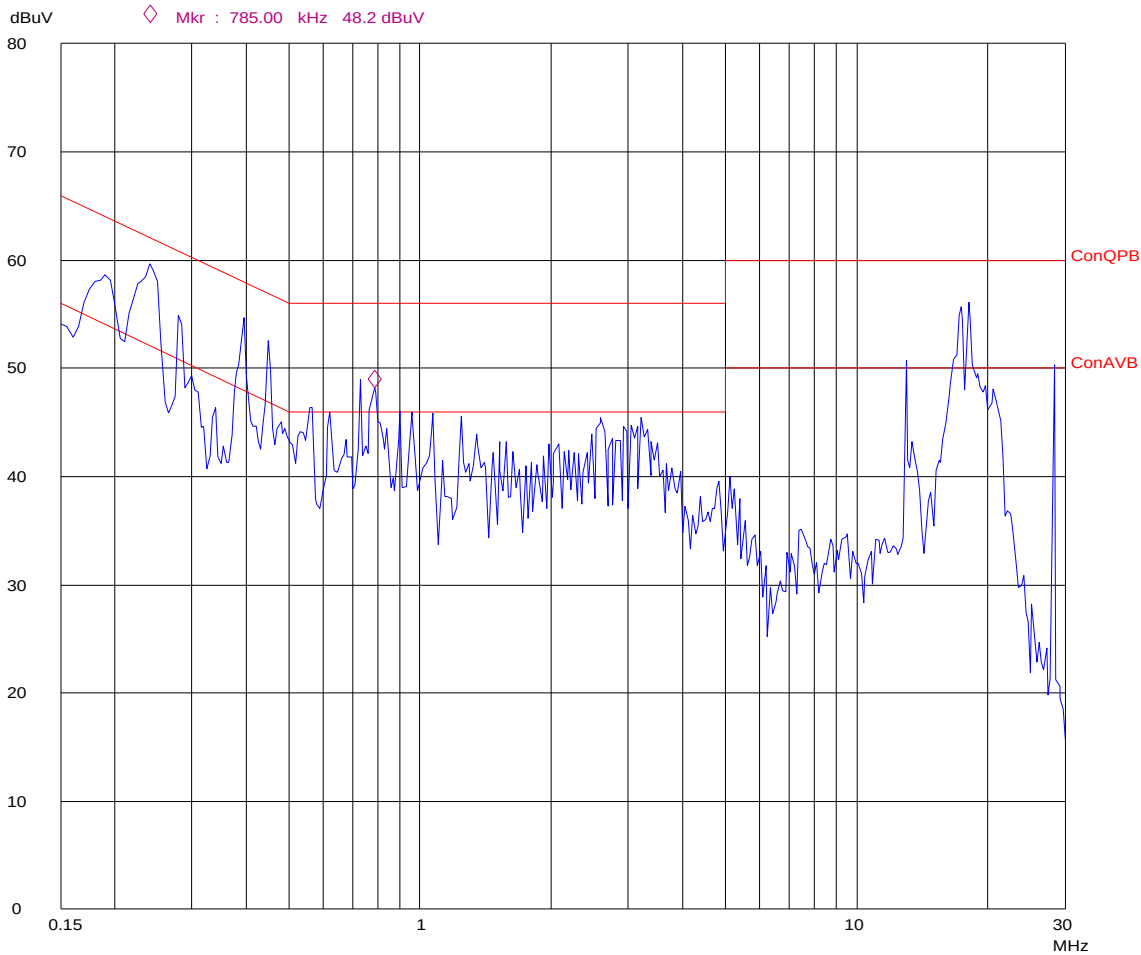
Conducted Disturbance

EUT: M/N:HT-A100
Op Cond: FM98
Test Spec: L
Comment: AC 120V/60Hz



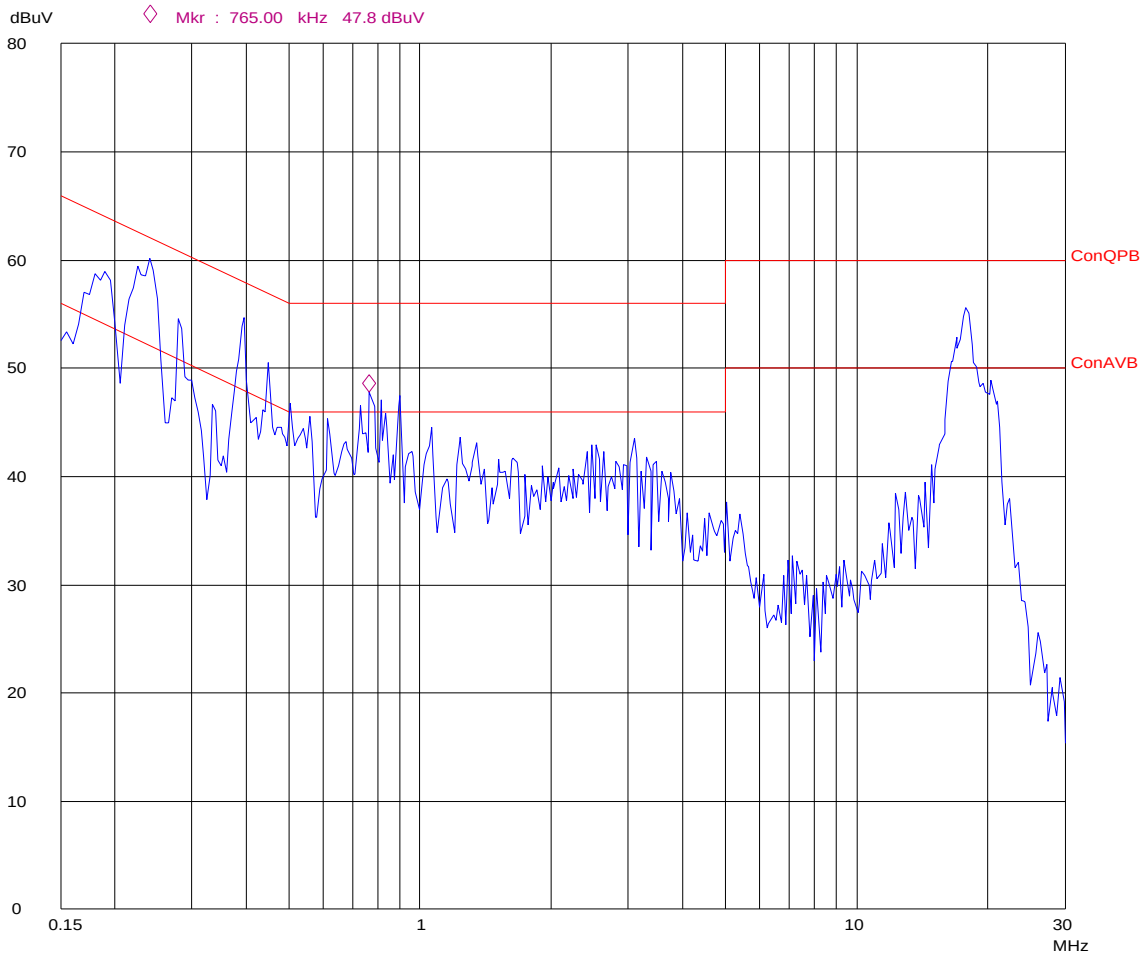
Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: FM98
Test Spec: N
Comment: AC 120V/60Hz



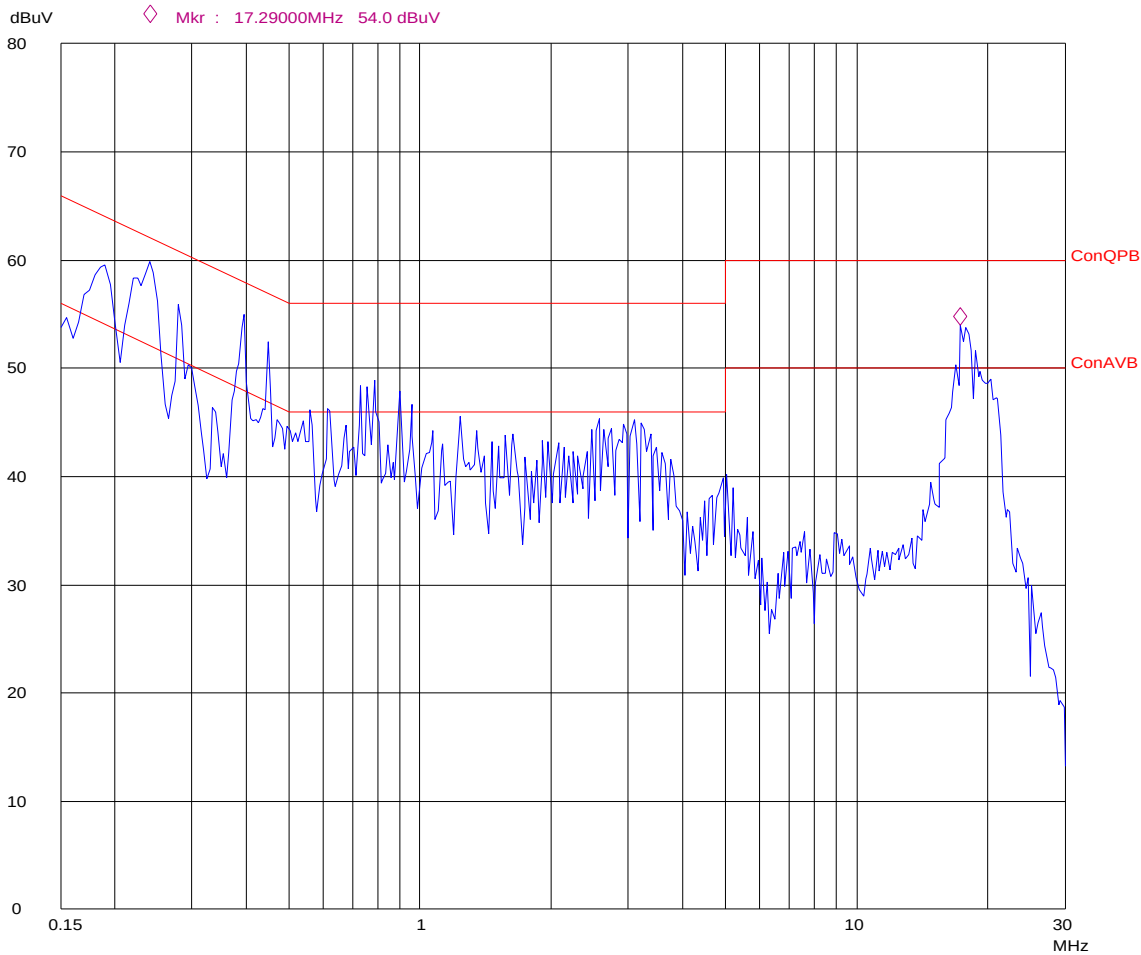
Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: FM108
Test Spec: L
Comment: AC 120V/60Hz



Conducted Disturbance

EUT: N/N:HT-A100
Op Cond: FM108
Test Spec: N
Comment: AC 120V/60Hz



Radiated Disturbance

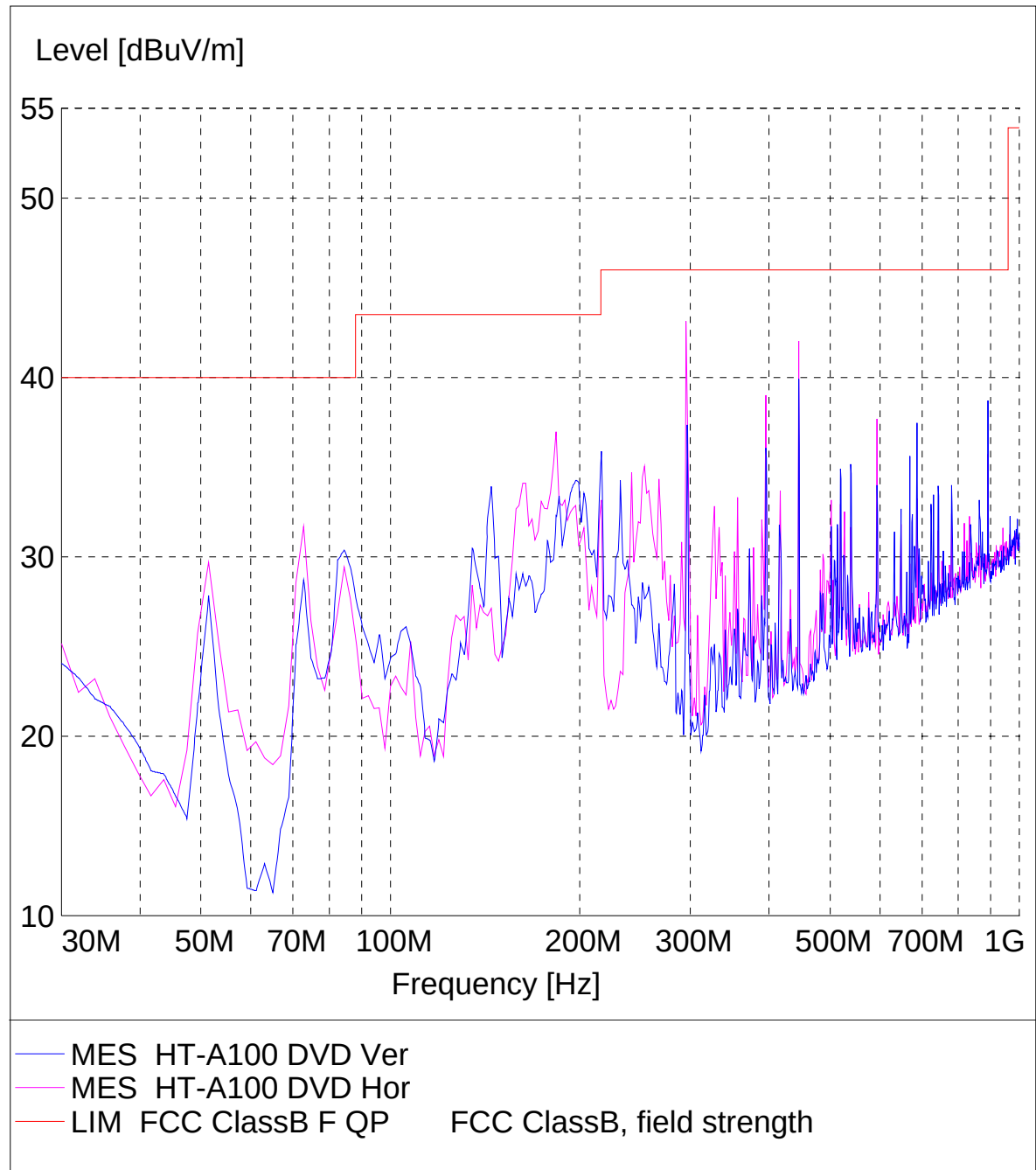
EUT: M/N:HT-A100

Operating Condition: Play DVD

Test Site: SMQ EMC Lab.SAC

Test Specification: Horizontal & Vertical

Comment : AC 120V/60Hz



Radiated Disturbance

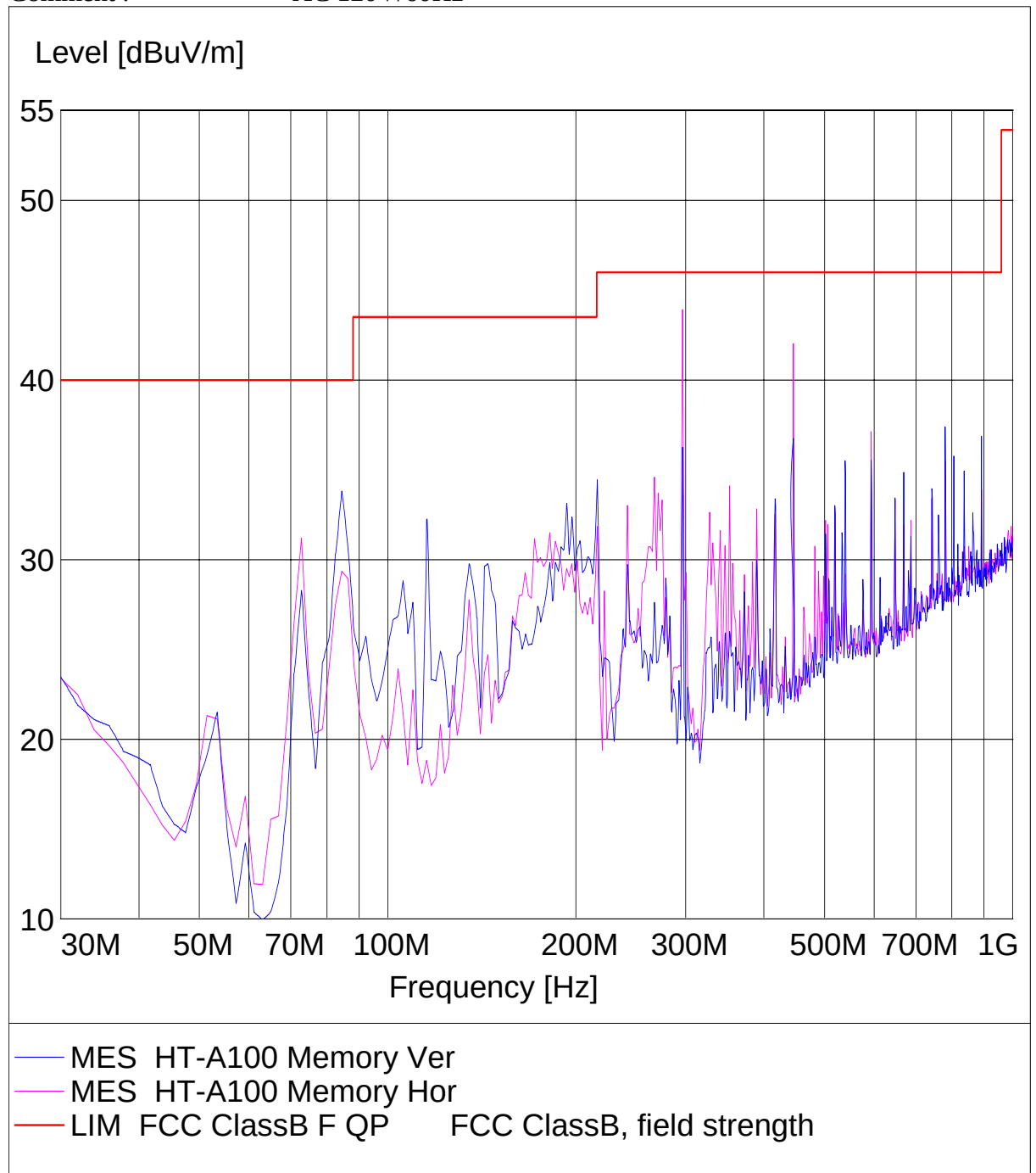
EUT: M/N:HT-A100

Operating Condition: Connect to memory and play MP3

Test Site: SMQ EMC Lab.SAC

Test Specification: Horizontal & Vertical

Comment : AC 120V/60Hz



Radiated Disturbance

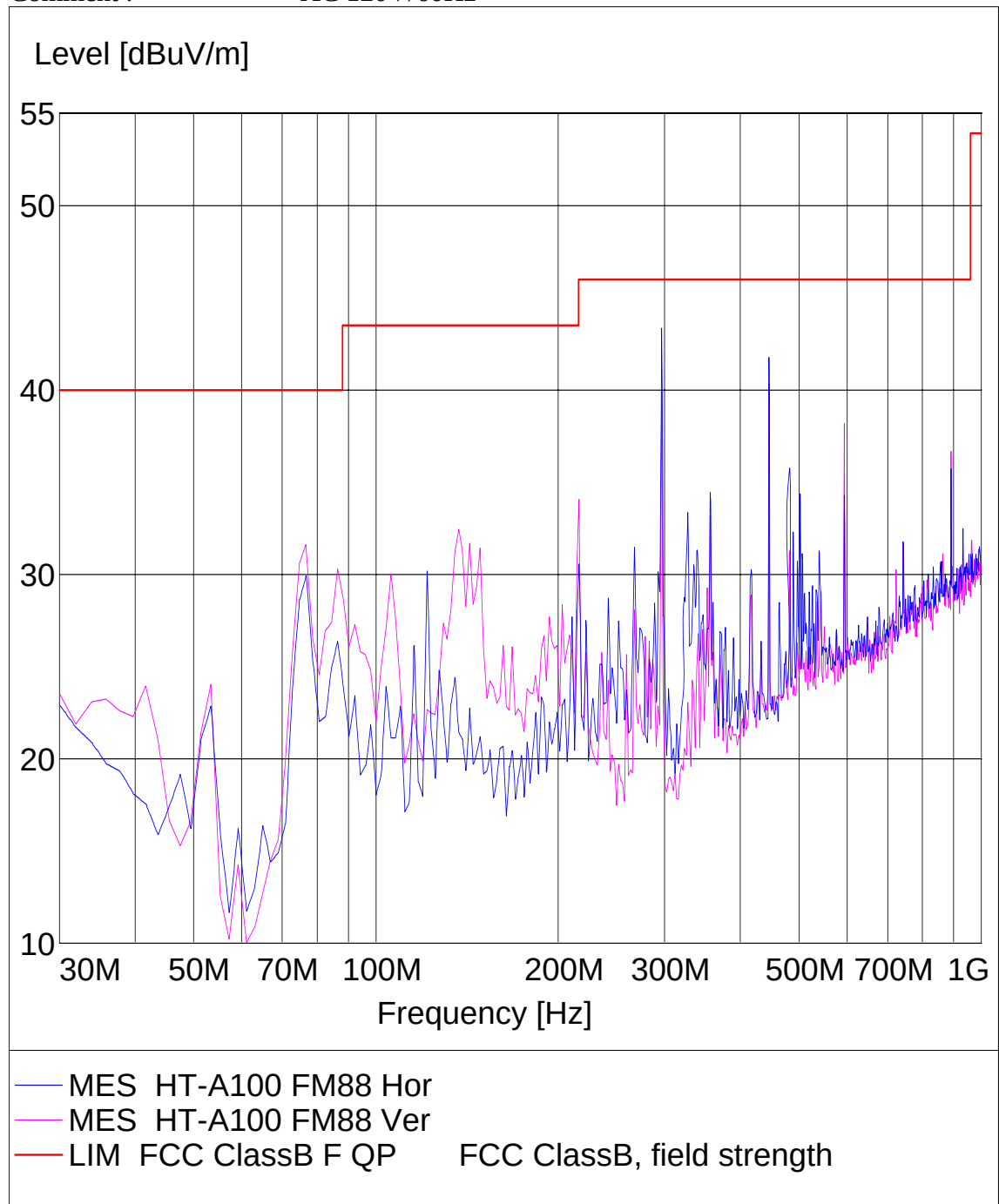
EUT: M/N:HT-A100

Operating Condition: FM88

Test Site: SMQ EMC Lab.SAC

Test Specification: Horizontal & Vertical

Comment : AC 120V/60Hz



Radiated Disturbance

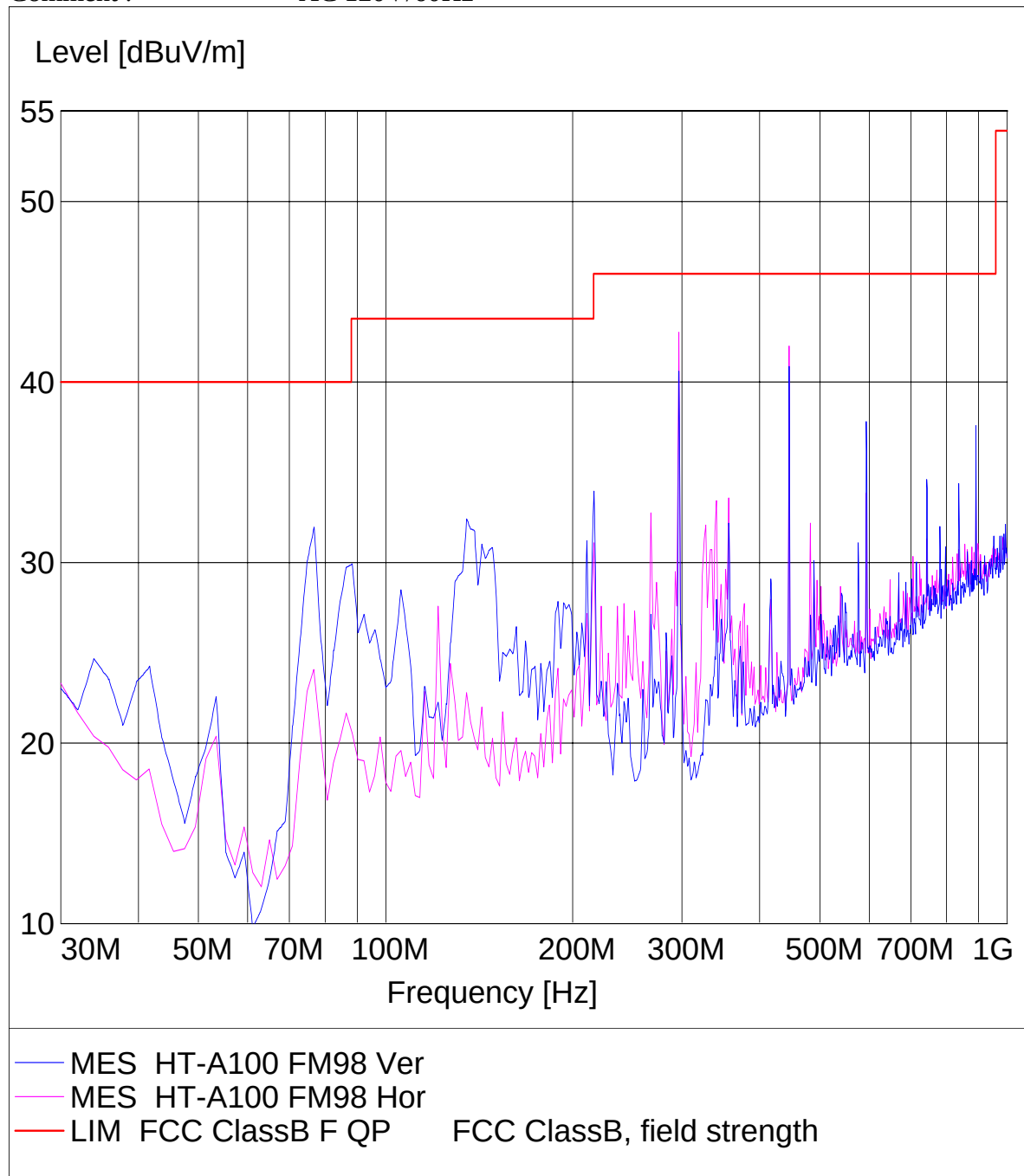
EUT: M/N:HT-A100

Operating Condition: FM98

Test Site: SMQ EMC Lab.SAC

Test Specification: Horizontal & Vertical

Comment : AC 120V/60Hz



Radiated Disturbance

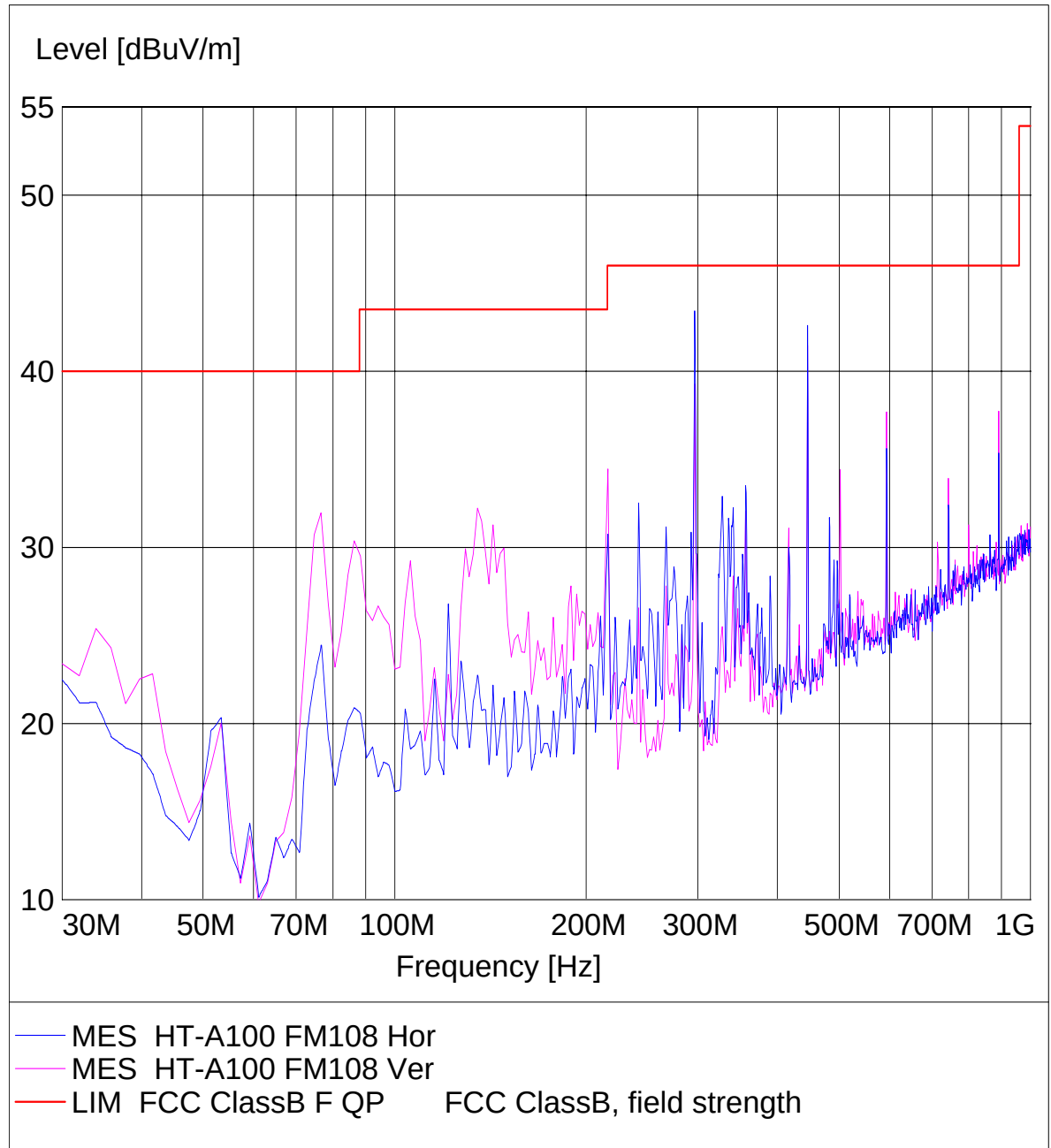
EUT: M/N:HT-A100

Operating Condition: FM108

Test Site: SMQ EMC Lab.SAC

Test Specification: Horizontal & Vertical

Comment : AC 120V/60Hz



APPENDIX II TEST PICTURES

Photo 1 Conducted Disturbance Test



Photo 2 Antenna Terminal Voltage Disturbance Test

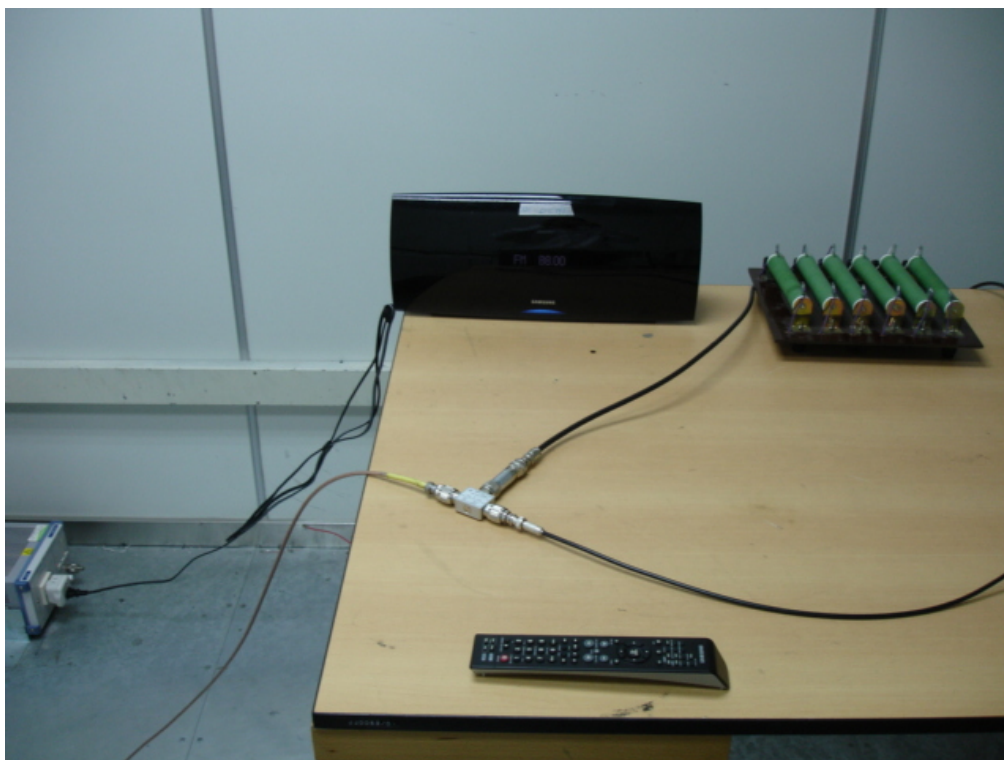


Photo 3 Radiated disturbances Test



Photo 4 Appearance of EUT



Photo 5 Appearance of EUT

