


Test Report of FCC CFR 47 Part 15 Subpart B

On Behalf of

Kobian Canada INC

FCC ID: YH5-9DTB7
Product Description: MID
Test Model No.: HS-9DTB7
MID9308CM, MID9308HCM, MID9308CE, MID9308HCE
Supplementary Model: MY9308P, , MY93**P, MY93**G, MY93**E, MY93**S,
MW93**P, MW93**G, MW93**E, MW93**S, MID93**CM,
MID93**CE, MID93**HCM, MID93**HCE (** Can be 01-99)
Brand Name: HENA, Hipstreet
Prepared for: Kobian Canada INC
5-560 Denison St., Markham, Ontario, L3R 2M8, Canada
Prepared by: Bontek Compliance Testing Laboratory Co., Ltd
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Report No.: BCT13HR268E-2
Issue Date: September 10, 2013
Test Date: August 15-September 8, 2013

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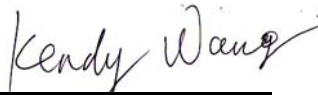

Kendy Wang

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Kobian Canada INC
Address of Applicant:	5-560 Denison St., Markham, Ontario, L3R 2M8, Canada
Manufacturer:	Hena Digital Technology (Shenzhen) Co., Ltd.
Address of Manufacturer:	3F, South Tower, Jiuzhou Electric Building, Southern No, 12Rd, High-tech Industrial Park, Nanshan District, Shenzhen, China

General Description of E.U.T

Items	Description
EUT Description:	MID
Trade Name:	HENA, Hipstreet
Test Model No.:	HS-9DTB7
Supplementary Model:	MID9308CM, MID9308HCM, MID9308CE, MID9308HCE MY9308P, , MY93**P, MY93**G, MY93**E, MY93**S, MW93**P, MW93**G, MW93**E, MW93**S, MID93**CM, MID93**CE, MID93**HCM, MID93**HCE (** Can be 01-99)
WIFI Module:	
Frequency Band:	2412MHz~2462MHz
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20/40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Rated Voltage:	Input: 5VDC 2.0A from AC/DC adapter
Adapter Description:	Model:K15S050200U Input: AC 100-240V 50/60Hz 0.5A Output: 5VDC 2.0A

Remark: * The test data gathered are from the production sample provided by the manufacturer.
* Supplementary models have the same circuit, but with different appearance

1.2 Test Standards

The report of EUT is prepared in accordance with FCC Rules and Regulations Part 15 Subpart B 2006. The objective of the manufacturer is to demonstrate compliance with the described above standards.

1.3 Test Facility

All measurement required was performed at laboratory of Bontek Compliance Testing Laboratory Ltd at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China.

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 338263

BONTEK COMPLIANCE TESTING LABORATORY LTD. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 338263, March 03, 2011.

IC Registration No.: 7631A

The 3m alternate test site of BONTEK COMPLIANCE TESTING LABORATORY LTD. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on January 25, 2011.

CNAS - Registration No.: L3923

BONTEK COMPLIANCE TESTING LABORATORY LTD. to ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. The acceptance letter from the CNAS is maintained in our files: Registration: L3923, March 22, 2012.

TUV – Registration No.: 50242657-0001

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. An assessment of the laboratory was conducted according to the "Procedures and Conditions for EMC Test Laboratories" with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-003

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 Support Equipments

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

Support equipments or special accessories in test configuration:

AUX Description:	Manufacturer	Model No.	Certificate	CABLE
Host Computer	Dell	78MD82X	CE, FCC	1.5m Unshielded Power Cord
Monitor	Dell	E178Pc	CE, FCC	1.5m Unshielded Power Cord 1.8m shielded data Cable with core
Keyboard	Dell	L100	CE, FCC	1.8m shielded data Cable with core
Mouse	Dell	OCJ339	CE, FCC	1.8m shielded data Cable with core
Printer	EPSON	P330A	CE, FCC	1.2m Unshielded Power Cord 1.5m shielded data Cable

2.3 General Test Procedures

Conducted Emissions:The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

2.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

2.5 List of Measuring Equipments Used

Test equipments list of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration due date
1	EMI Test Receiver	R&S	ESCI	100687	2013-4-5	2014-4-4
2	EMI Test Receiver	R&S	ESPI	100097	2013-7-24	2014-7-23
3	Amplifier	HP	8447D	1937A02492	2013-4-5	2014-4-4
4	Single Power Conductor Module	FCC	FCC-LISN-5-50-1-01-CISPR25	07101	2013-4-5	2014-4-4
5	Single Power Conductor Module	FCC	FCC-LISN-5-50-1-01-CISPR25	07102	2013-4-5	2014-4-4
6	Positioning Controller	C&C	CC-C-1F	MF7802113	N/A	N/A
7	Signal generator	Rhode & Schwarz	SMIQ 03HD + option SM-B1, SMIQB11, SMIQB12, SMIQB14, SMIQB17, SMIQB20	1125.5555.46	2013-4-5	2014-4-4
8	GSM system simulator	Rhode & Schwarz	CMU200 + option K20, K21, K22, K23, K24, K27, K28, K29, K42, K65, B12, B41, B52, B66, B56	1100.0008.34	2013-4-5	2014-4-4
9	GSM system simulator	Agilent	8960 Series 10 E1985A + GSM_AMPS	B.01.76 GB42450443	2013-4-5	2014-4-4
10	Spectrum Analyzer	Agilent	E4404B	US41192833	2013-4-5	2014-4-4
11	6dB Attenuator	Atten	Attenuator	DC-4GHz	2013-4-5	2014-4-4
12	Digital Multimeter	Fluke	15B	91280239	2013-4-5	2014-4-4
13	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2013-4-9	2014-4-8
14	Horn Antenna	SCHWARZBECK	BBHA9120A	0499	2012-11-27	2013-11-26
15	Active Loop Antenna	DAZE	ZN30900A	1200	2013-4-6	2014-4-5
16	9kHz-2.4GHz signal generator 2024	MARCONI	10S/6625-99-457-8730	112260/042	2013-4-5	2014-4-4
17	10dB attenuator	ELECTRO-METRICS	EM-7600	836	2013-4-5	2014-4-4
18	Spectrum Analyzer	R&S	FSP	100397	2012-11-1	2013-10-31
19	Broadband preamplifier	SCHWARZBECK	BBV9718	9718-182	2013-4-5	2014-4-4
20	Temperature & Humidity Chamber	TOPSTAT	TOS-831A	3438A05208	2013-4-5	2014-4-4

3. SUMMARY OF TEST RESULTS

Standard	Test Items	Result
FCC Part 15 Subpart B	Conduction Emission, 0.15MHz to 30MHz	Pass
FCC Part 15 Subpart B	Radiation Emission, 30MHz to 1000MHz	Pass

4. TEST OF AC POWER LINE CONDUCTED EMISSION

4.1 Limit of AC Power Line Conducted Emission

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

4.2 EUT Setup

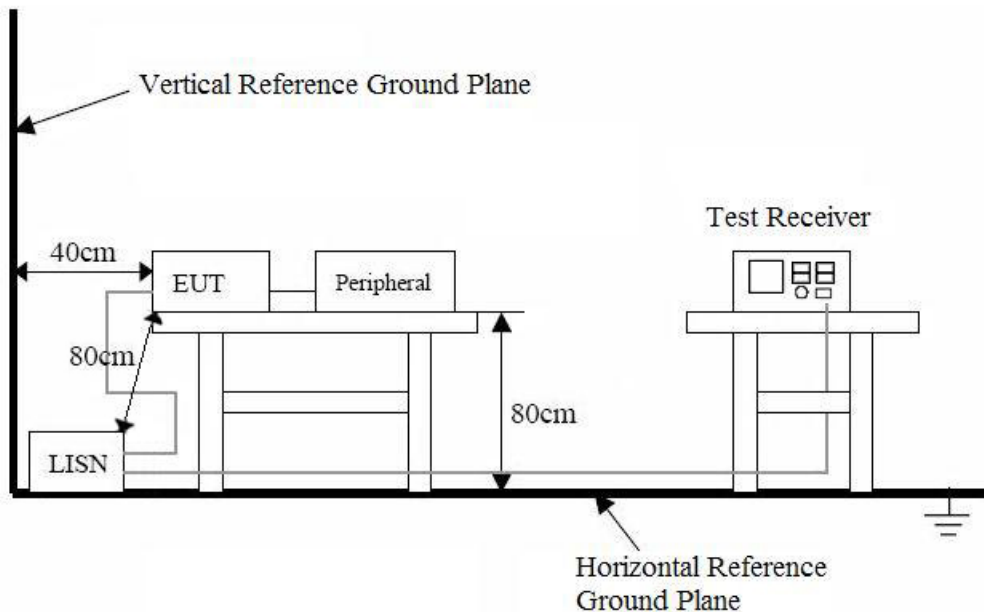
The setup of EUT is according with ANSI C63.4-2003 measurement procedure. The specification used was the FCC Rules and Regulations Part 15 Subpart B limits.

The EUT was placed center and the back edge of the test table.

The AV cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.



Remark: The EUT was connected to a 120VAC/ 60Hz power source.

4.3 Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range.....150 KHz to 30 MHz
Detector.....Peak & Quasi-Peak & Average
Sweep Speed.....Auto
IF Band Width.....9 KHz

4.4 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB μ V of specification limits). Quasi-peak readings are distinguished with a "QP". Average readings are distinguished with a "AV".

4.5 Test Result

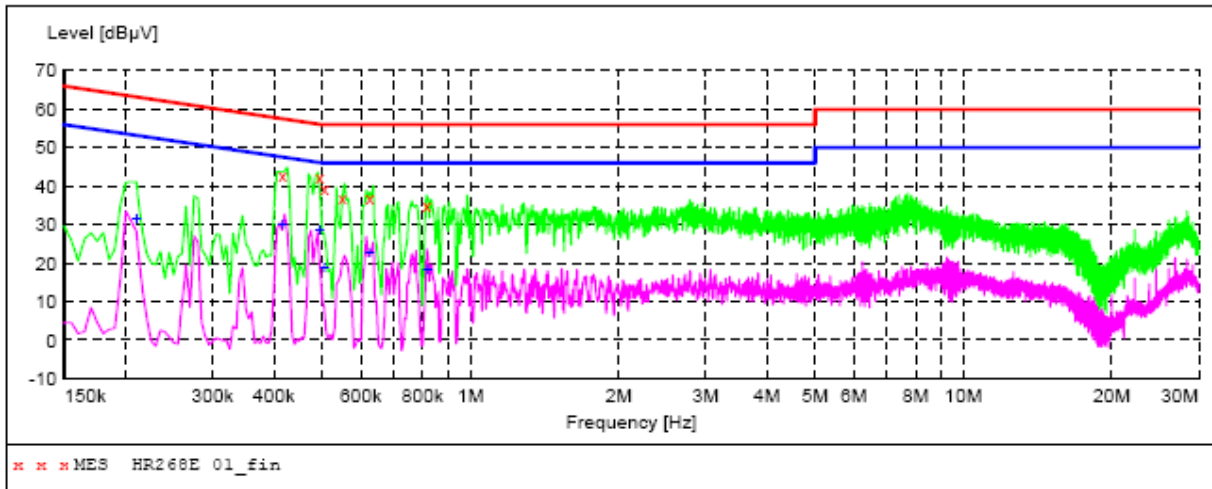
Temperature (°C) : 22~23	EUT: MID
Humidity (%RH) : 50~54	M/N: HS-9DTB7
Barometric Pressure (mbar) : 950~1000	Operation Condition: Connect to PC & SD /Charging & Camera/ SD Playing/HDMI Playing

Note: In all test modes, Connect to PC & SD, HDMI Playing ,Charging & Camera is the worst-case.

Conducted Emission:

EUT: MID
M/N: HS-9DTB7
Operating Condition: Charging & Camera
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: L Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HR268E 01_fin"

8/12/2013 13:49

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.415000	43.00	10.7	58	14.5	QP	L	---
0.495000	42.20	10.5	56	13.9	QP	L	---
0.505000	39.40	10.5	56	16.6	QP	L	---
0.550000	37.00	10.5	56	19.0	QP	L	---
0.625000	36.90	10.4	56	19.1	QP	L	---
0.815000	35.00	10.4	56	21.0	QP	L	---

MEASUREMENT RESULT: "HR268E 01_fin2"

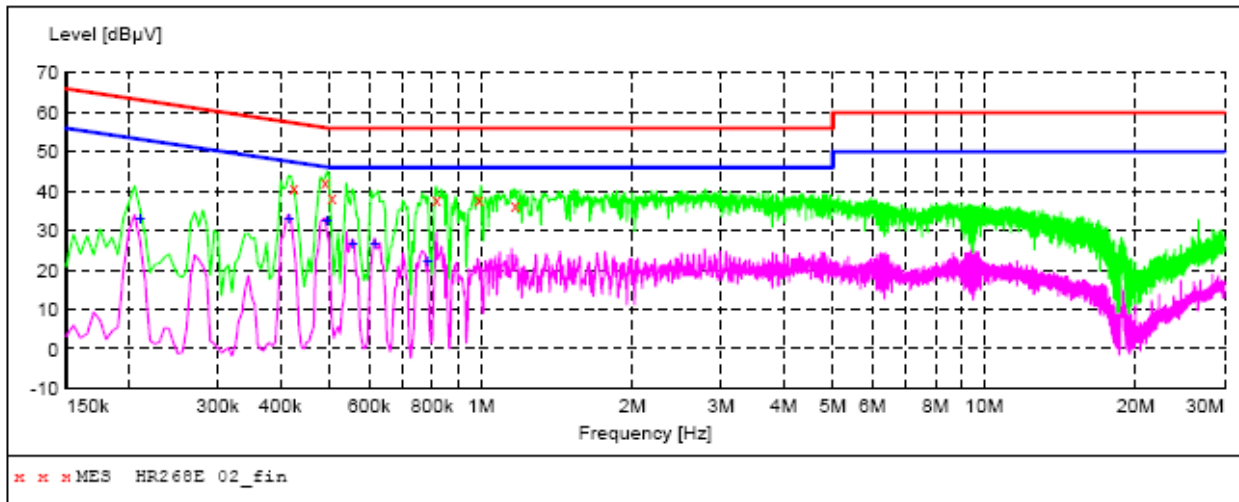
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.210000	31.70	11.3	53	21.5	AV	L	---
0.415000	30.20	10.7	48	17.3	AV	L	---
0.495000	28.60	10.5	46	17.5	AV	L	---
0.505000	19.00	10.5	46	27.0	AV	L	---
0.625000	22.80	10.4	46	23.2	AV	L	---
0.820000	18.50	10.4	46	27.5	AV	L	---

Conducted Emission:

EUT: MID
M/N: HS-9DTB7
Operating Condition: Charging & Camera
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: N Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HR268E 02_fin"

8/12/2013 13:53

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.425000	41.00	10.6	57	16.3	QP	N	---
0.490000	42.30	10.5	56	13.9	QP	N	---
0.505000	38.60	10.5	56	17.4	QP	N	---
0.815000	37.90	10.4	56	18.1	QP	N	---
0.990000	38.00	10.5	56	18.0	QP	N	---
1.170000	36.40	10.4	56	19.6	QP	N	---

MEASUREMENT RESULT: "HR268E 02_fin2"

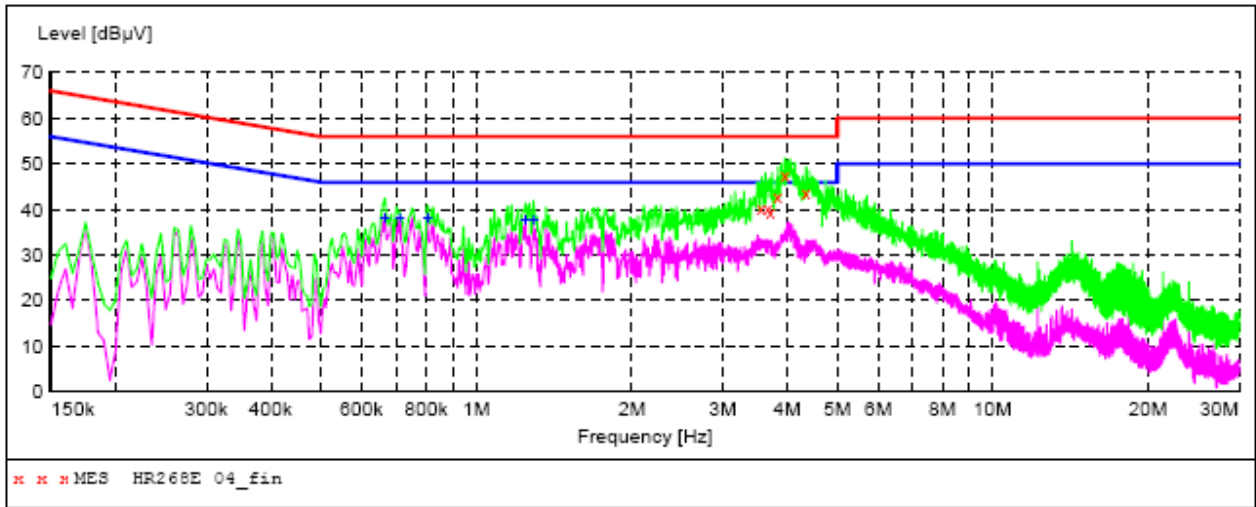
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.210000	33.30	11.3	53	19.9	AV	N	---
0.415000	33.30	10.7	48	14.2	AV	N	---
0.495000	32.50	10.5	46	13.6	AV	N	---
0.555000	26.60	10.5	46	19.4	AV	N	---
0.615000	26.60	10.4	46	19.4	AV	N	---
0.785000	22.40	10.4	46	23.6	AV	N	---

Conducted Emission:

EUT: MID
M/N: HS-9DTB7
Operating Condition: HDMI Playing
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: L Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HR268E 04_fin"

8/12/2013 20:28

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
3.560000	40.40	10.4	56	15.6	QP	L	---
3.670000	40.30	10.4	56	15.7	QP	L	---
3.710000	39.30	10.4	56	16.7	QP	L	---
3.835000	42.90	10.4	56	13.1	QP	L	---
3.960000	47.60	10.4	56	8.4	QP	L	---
4.355000	43.60	10.4	56	12.4	QP	L	---

MEASUREMENT RESULT: "HR268E 04_fin2"

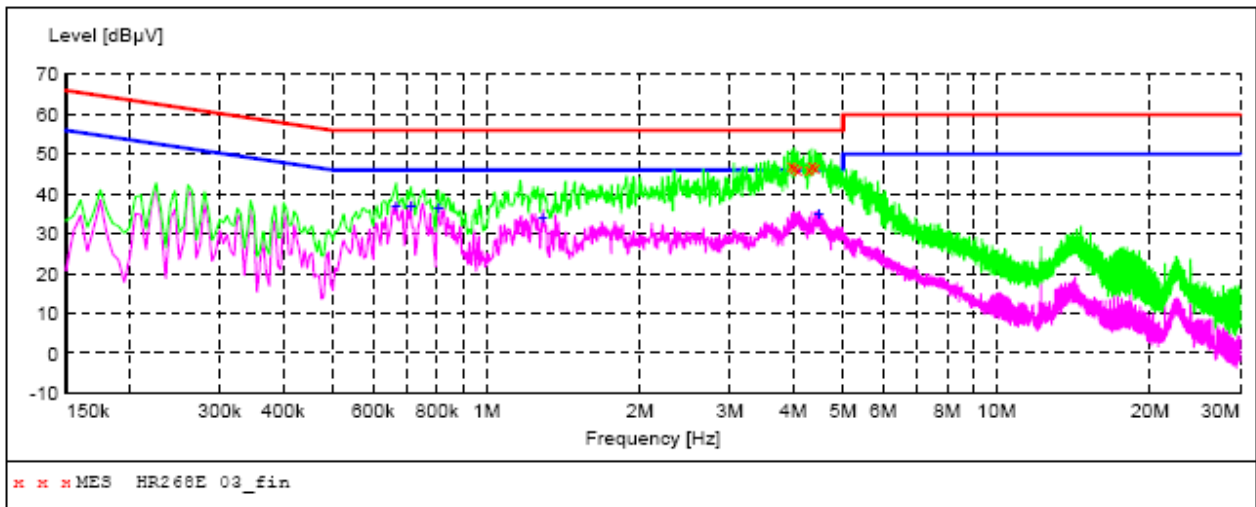
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.665000	38.10	10.4	46	7.9	AV	L	---
0.710000	38.30	10.4	46	7.7	AV	L	---
0.805000	38.00	10.4	46	8.0	AV	L	---
1.245000	37.90	10.4	46	8.1	AV	L	---
1.290000	37.50	10.4	46	8.5	AV	L	---

Conducted Emission:

EUT: MID
M/N: HS-9DTB7
Operating Condition: HDMI Playing
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: N Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HR268E 03_fin"

8/12/2013 20:26

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
3.960000	47.20	10.4	56	8.8	QP	N	---
4.020000	46.60	10.4	56	9.4	QP	N	---
4.080000	46.20	10.4	56	9.8	QP	N	---
4.290000	46.10	10.4	56	9.9	QP	N	---
4.355000	47.10	10.4	56	8.9	QP	N	---
4.410000	46.80	10.4	56	9.2	QP	N	---

MEASUREMENT RESULT: "HR268E 03_fin2"

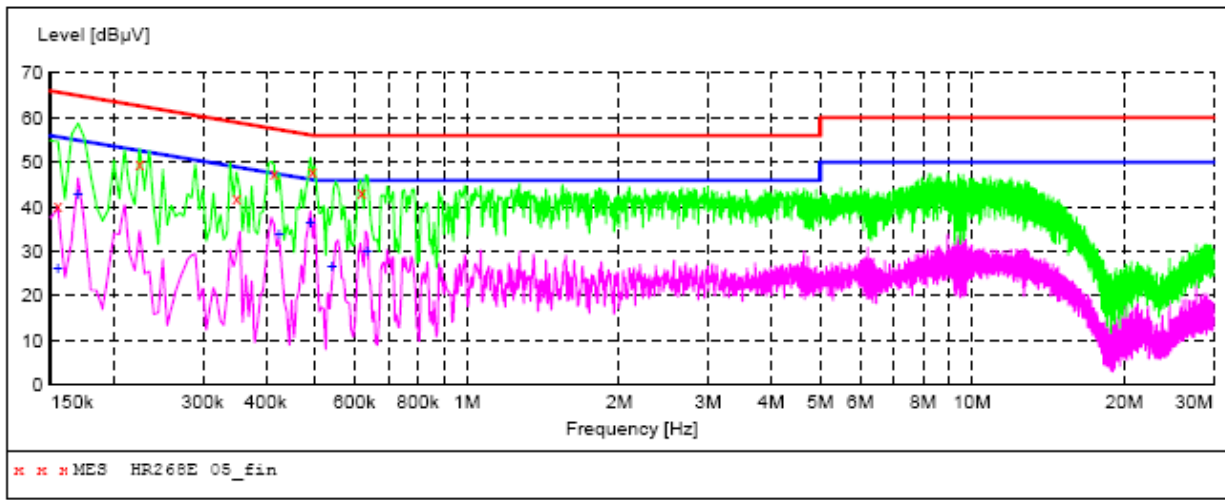
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.665000	36.70	10.4	46	9.3	AV	N	---
0.710000	37.00	10.4	46	9.0	AV	N	---
0.805000	36.30	10.4	46	9.7	AV	N	---
1.290000	34.00	10.4	46	12.0	AV	N	---
4.480000	35.30	10.4	46	10.7	AV	N	---

Conducted Emission:

EUT: MID
M/N: HS-9DTB7
Operating Condition: Connect to PC & SD
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: L Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HR268E 05_fin"

8/12/2013 20:58

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	40.10	13.2	66	25.6	QP	L	---
0.225000	49.90	11.2	63	12.7	QP	L	---
0.350000	42.10	10.8	59	16.9	QP	L	---
0.415000	47.70	10.7	58	9.8	QP	L	---
0.495000	47.90	10.5	56	8.2	QP	L	---
0.620000	43.10	10.4	56	12.9	QP	L	---

MEASUREMENT RESULT: "HR268E 05_fin2"

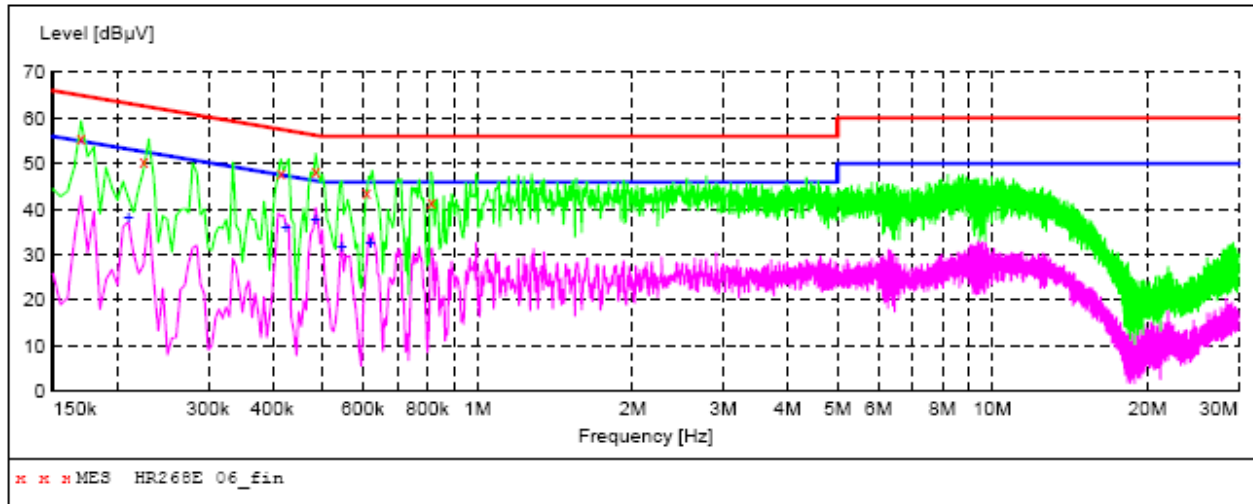
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	26.10	13.2	56	29.6	AV	L	---
0.170000	42.80	12.5	55	12.2	AV	L	---
0.425000	34.00	10.6	47	13.3	AV	L	---
0.490000	36.40	10.5	46	9.8	AV	L	---
0.540000	26.60	10.5	46	19.4	AV	L	---
0.635000	29.80	10.4	46	16.2	AV	L	---

Conducted Emission:

EUT: MID
M/N: HS-9DTB7
Operating Condition: Connect to PC & SD
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: N Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HR268E 06_fin"

8/12/2013 21:01

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.170000	55.80	12.5	65	9.2	QP	N	---
0.225000	50.60	11.2	63	12.0	QP	N	---
0.415000	47.90	10.7	58	9.6	QP	N	---
0.485000	48.60	10.5	56	7.7	QP	N	---
0.610000	43.70	10.4	56	12.3	QP	N	---
0.815000	41.70	10.4	56	14.3	QP	N	---

MEASUREMENT RESULT: "HR268E 06_fin2"

8/12/2013 21:01

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.210000	38.20	11.3	53	15.0	AV	N	---
0.425000	36.10	10.6	47	11.2	AV	N	---
0.485000	37.90	10.5	46	8.4	AV	N	---
0.545000	31.60	10.5	46	14.4	AV	N	---
0.620000	32.60	10.4	46	13.4	AV	N	---

5 - RADIATED DISTURBANCES

5.1 Limit of Radiated Disturbances

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB μ V/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
960 ~ 1000	3	54

Note:

- (1) The tighter limit shall apply at the edge between two frequency bands.
- (2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

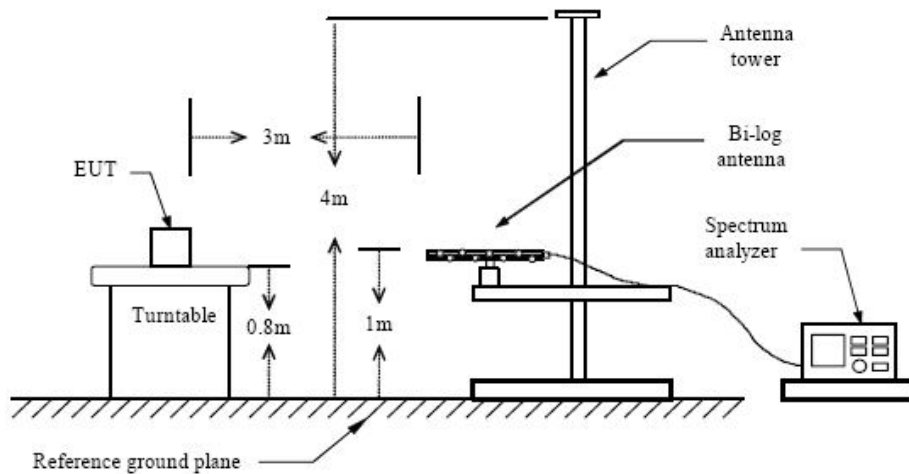
5.2 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15 Subpart B limits.

The EUT was placed on the center of the test table.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

Below 1 GHz



5.3 Test Receiver Setup

According to FCC Part 15 rule, the frequency was investigated from 30 to 1000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting:

Detector.....Peak & Quasi-Peak
IF Band Width.....120KHz
Frequency Range.....30MHz to 1000MHz
Turntable Rotated.....0 to 360 degrees

Antenna Position:

Height.....1m to 4m
Polarity.....Horizontal and Vertical

5.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB μ V of specification limits), and are distinguished with a "QP" in the data table.

5.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB μ V means the emission is 7dB μ V below the maximum limit for Subpart B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corr. Ampl.}$$

5.6 Radiated Emissions Test Result

Temperature (°C) : 22~23	EUT: MID
Humidity (%RH) : 50~54	M/N: HS-9DTB7
Barometric Pressure (mbar) : 950~1000	Operation Condition: Connect to PC & SD /Charging & Camera/ SD Playing/HDMI Playing

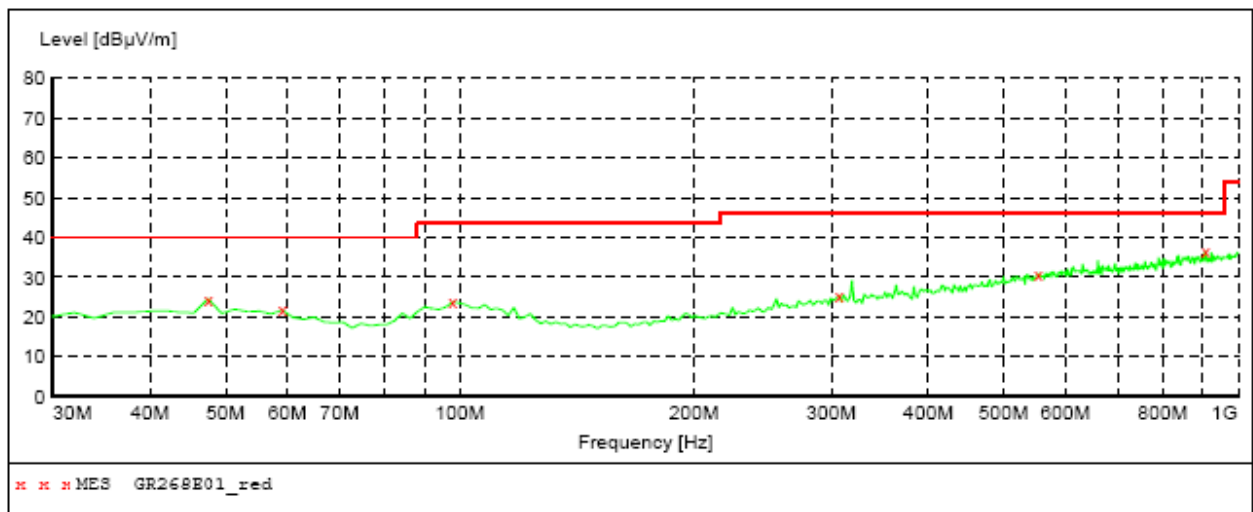
Note: In all test modes, Connect to PC & SD, HDMI Playing ,Charging & Camera is the worst-case.

Radiated Emission Test Data(30~1000M):

EUT: MID
M/N: HS-9DTB7
Operating Condition: Charging & Camera
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "GR268E01_red"

8/12/2013 21:18

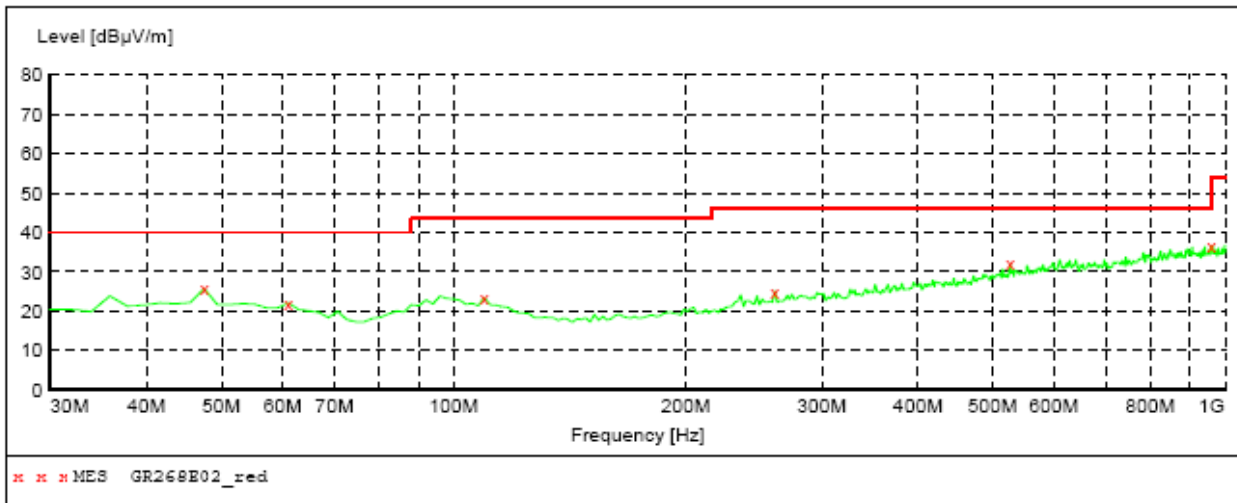
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	24.60	15.8	40.0	15.4	QP	100.0	0.00	HORIZONTAL
59.100000	21.80	14.6	40.0	18.2	QP	100.0	0.00	HORIZONTAL
97.900000	23.80	17.4	43.5	19.7	QP	100.0	0.00	HORIZONTAL
307.420000	25.40	18.9	46.0	20.6	QP	100.0	0.00	HORIZONTAL
553.800000	30.90	25.1	46.0	15.1	QP	300.0	0.00	HORIZONTAL
908.820000	36.50	29.3	46.0	9.5	QP	300.0	0.00	HORIZONTAL

Radiated Emission Test Data(30~1000M):

EUT: MID
M/N: HS-9DTB7
Operating Condition: Charging & Camera
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "GR268E02_red"

8/12/2013 21:19

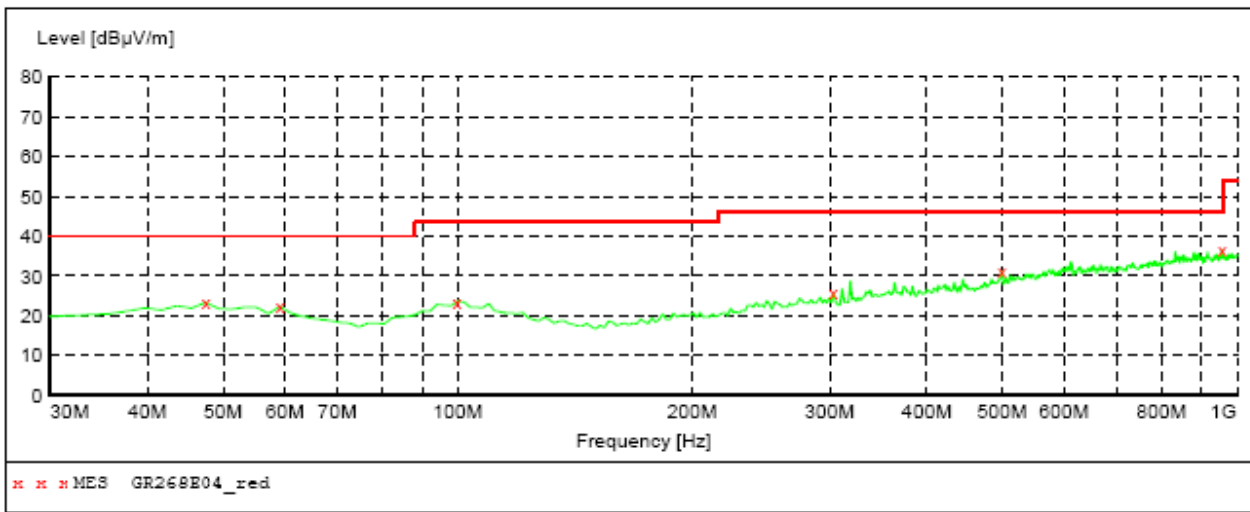
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	25.70	15.8	40.0	14.3	QP	100.0	0.00	VERTICAL
61.040000	22.10	14.2	40.0	17.9	QP	100.0	0.00	VERTICAL
109.540000	23.50	16.6	43.5	20.0	QP	100.0	0.00	VERTICAL
260.860000	25.10	17.4	46.0	20.9	QP	100.0	0.00	VERTICAL
526.640000	32.00	24.5	46.0	14.0	QP	100.0	0.00	VERTICAL
959.260000	36.60	29.6	46.0	9.4	QP	100.0	0.00	VERTICAL

Radiated Emission Test Data(30~1000M):

EUT: MID
M/N: HS-9DTB7
Operating Condition: HDMI Playing
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	MaxPeak	Coupled	100 kHz	VULB9163 NEW
30.0 MHz	1.0 GHz				



MEASUREMENT RESULT: "GR268E04_red"

8/12/2013 21:23

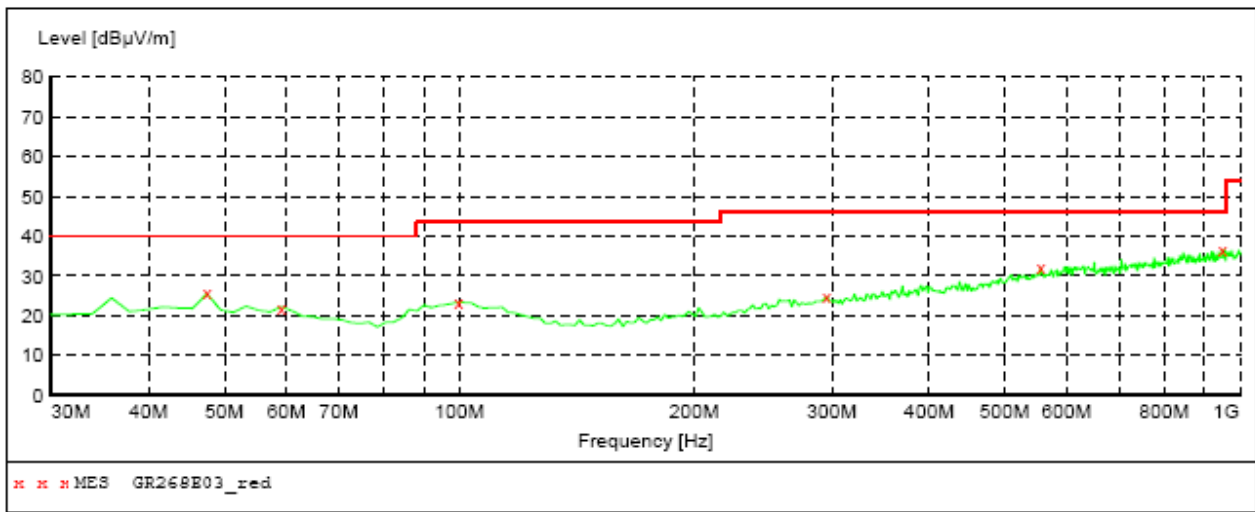
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	23.40	15.8	40.0	16.6	QP	100.0	0.00	HORIZONTAL
59.100000	22.30	14.6	40.0	17.7	QP	100.0	0.00	HORIZONTAL
99.840000	23.60	17.5	43.5	19.9	QP	100.0	0.00	HORIZONTAL
303.540000	25.60	18.8	46.0	20.4	QP	100.0	0.00	HORIZONTAL
499.480000	31.20	23.8	46.0	14.8	QP	100.0	0.00	HORIZONTAL
957.320000	36.60	29.6	46.0	9.4	QP	100.0	0.00	HORIZONTAL

Radiated Emission Test Data(30~1000M):

EUT: MID
M/N: HS-9DTB7
Operating Condition: HDMI Playing
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "GR268E03_red"

8/12/2013 21:21

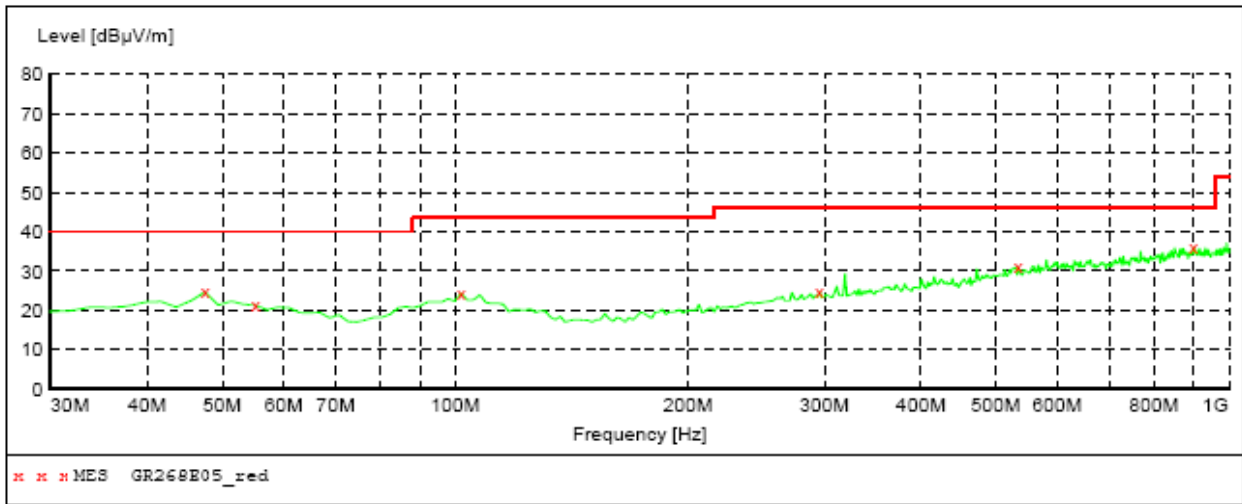
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	25.60	15.8	40.0	14.4	QP	100.0	0.00	VERTICAL
59.100000	22.20	14.6	40.0	17.8	QP	100.0	0.00	VERTICAL
99.840000	23.50	17.5	43.5	20.0	QP	100.0	0.00	VERTICAL
295.780000	24.80	18.6	46.0	21.2	QP	100.0	0.00	VERTICAL
555.740000	32.00	25.1	46.0	14.0	QP	100.0	0.00	VERTICAL
949.560000	36.60	29.6	46.0	9.4	QP	100.0	0.00	VERTICAL

Radiated Emission Test Data(30~1000M):

EUT: MID
M/N: HS-9DTB7
Operating Condition: Connect to PC & SD
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	MaxPeak	Coupled	100 kHz	VULB9163 NEW
30.0 MHz	1.0 GHz				



MEASUREMENT RESULT: "GR268E05_red"

8/12/2013 21:25

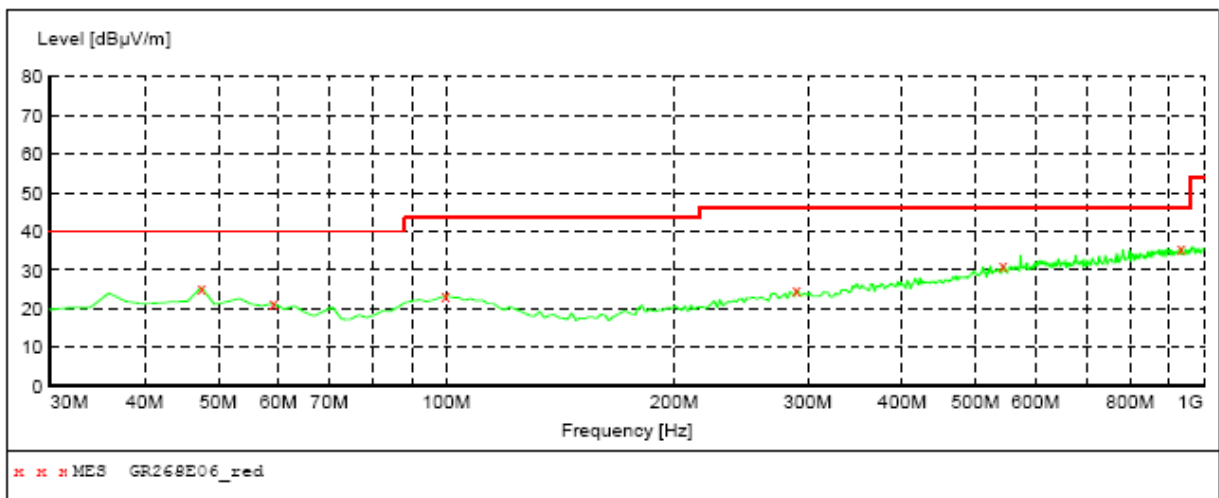
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	24.70	15.8	40.0	15.3	QP	300.0	0.00	HORIZONTAL
55.220000	21.30	15.6	40.0	18.7	QP	100.0	0.00	HORIZONTAL
101.780000	24.30	17.3	43.5	19.2	QP	100.0	0.00	HORIZONTAL
295.780000	24.80	18.6	46.0	21.2	QP	100.0	0.00	HORIZONTAL
534.400000	31.00	24.6	46.0	15.0	QP	300.0	0.00	HORIZONTAL
899.120000	36.00	29.2	46.0	10.0	QP	100.0	0.00	HORIZONTAL

Radiated Emission Test Data(30~1000M):

EUT: MID
M/N: HS-9DTB7
Operating Condition: Connect to PC & SD
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength				Transducer
Start	Stop	Detector	Meas. Time	IF Bandw.		
Frequency	Frequency	MaxPeak	Coupled	100 kHz	VULB9163 NEW	
30.0 MHz	1.0 GHz					



MEASUREMENT RESULT: "GR268E06_red"

8/12/2013 21:27

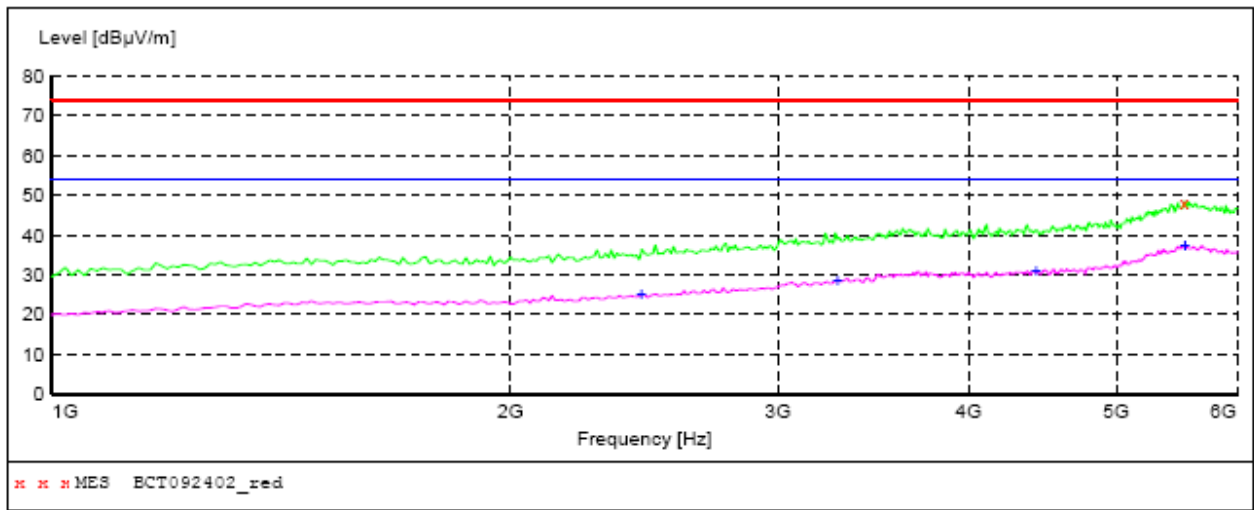
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	25.50	15.8	40.0	14.5	QP	100.0	0.00	VERTICAL
59.100000	21.40	14.6	40.0	18.6	QP	100.0	0.00	VERTICAL
99.840000	23.40	17.5	43.5	20.1	QP	100.0	0.00	VERTICAL
289.960000	24.90	18.4	46.0	21.1	QP	100.0	0.00	VERTICAL
544.100000	31.10	24.9	46.0	14.9	QP	100.0	0.00	VERTICAL
934.040000	35.90	29.4	46.0	10.1	QP	100.0	0.00	VERTICAL

Worst case Radiated Emission Test Data(Above 1GHz):

EUT: MID
M/N: HS-9DTB7
Operating Condition: Connect to PC & SD
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (1G-7G)"

Short Description:		Field Strength			Transducer
Start	Stop	Detector	Meas. Time	IF Bandw.	
1.0 GHz	7.0 GHz	MaxPeak	Coupled	1 MHz	BBHA 9120 A-0315
Average					



MEASUREMENT RESULT: "BCT092402_red"

9/24/2013 08:55

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
5540.000000	48.40	3.8	74.0	25.6	PK	100.0	0.00	VERTICAL

MEASUREMENT RESULT: "BCT092402_red2"

9/24/2013 08:55

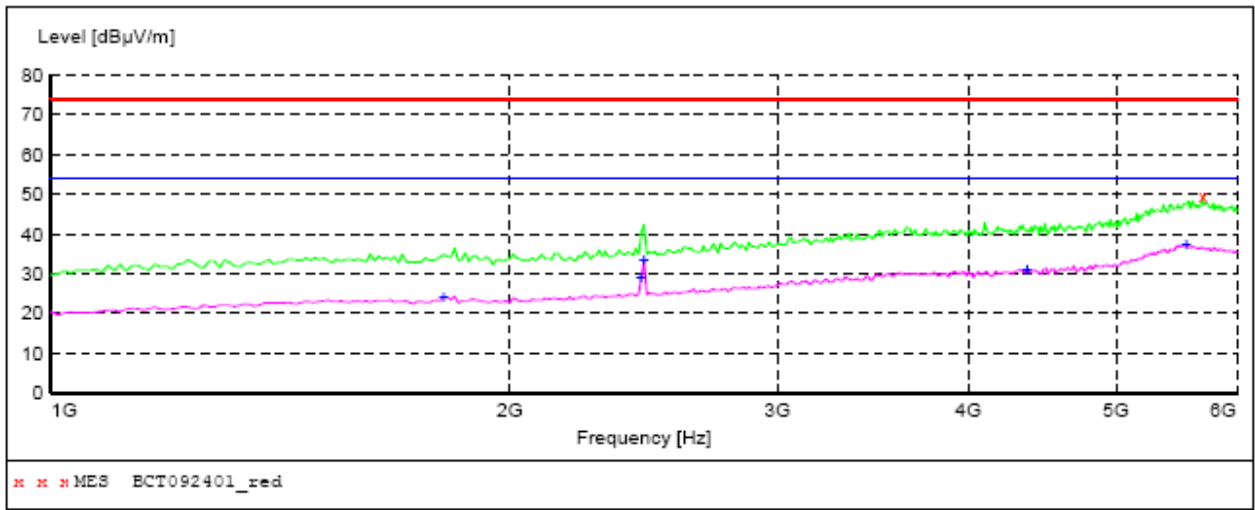
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
2440.000000	25.00	-9.7	54.0	29.0	AVG	100.0	0.00	VERTICAL
3280.000000	28.80	-6.0	54.0	25.2	AVG	100.0	0.00	VERTICAL
4430.000000	31.00	-2.9	54.0	23.0	AVG	100.0	0.00	VERTICAL
5550.000000	37.40	3.8	54.0	16.6	AVG	100.0	0.00	VERTICAL

Worst case Radiated Emission Test Data(Above 1GHz):

EUT: MID
M/N: HS-9DTB7
Operating Condition: Connect to PC & SD
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (1G-7G)"

Short Description:		Field Strength			Transducer
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	
1.0 GHz	7.0 GHz	MaxPeak	Coupled	1 MHz	BBHA 9120 A-0315
		Average			



MEASUREMENT RESULT: "BCT092401_red"

9/24/2013 08:53

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
5700.000000	49.50	3.5	74.0	24.5	PK	100.0	0.00	VERTICAL

MEASUREMENT RESULT: "BCT092401_red2"

9/24/2013 08:53

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1810.000000	24.20	-11.5	54.0	29.8	AVG	100.0	0.00	VERTICAL
2440.000000	29.20	-9.7	54.0	24.8	AVG	100.0	0.00	VERTICAL
2450.000000	33.30	-9.6	54.0	20.7	AVG	100.0	0.00	VERTICAL
4370.000000	31.00	-3.1	54.0	23.0	AVG	100.0	0.00	VERTICAL
5560.000000	37.30	3.8	54.0	16.7	AVG	100.0	0.00	VERTICAL