

EMC TEST REPORT

Test item : LED Monitor
Model No. : HSTND-3961-G, LD4245tm
Order No. : DEMC1402-00661
Date of receipt : 2014-02-21
Test duration : 2014-02-26 ~ 2014-02-27
Use of report : FCC CoC Marking
Date of Issue : 2014-03-04

Applicant : LG Electronics Inc.

222, LG-ro, Jinwi-myeon, Pyeongteak-si, Gyeonggi-do 451-713, REPUBLIC OF KOREA

Test laboratory : Digital EMC Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935

Test specification : CAN/CSA-CISPR 22-10
ANSI C 63.4:2009
ICES-003:2012
FCC Part 15 Subpart B
(Type of Device : Class B Personal Computers
and Peripherals (JBP))

Test environment : Temperature : 21 °C,
Humidity : (36 ~ 39) % R.H.

Test result : ☒ Comply ☐ Not Comply

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose.

This test report shall not be reproduced except in full, without the written approval of DIGITAL EMC CO., LTD.

Tested by:



Engineer
KyungMin Jeong

Reviewed by:



Manager
MyungJin Song

PRESIDENT OF DIGITAL EMC CO., LTD.

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1. General Remarks

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address : 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935

<http://www.digitalemcc.com>

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

Digital EMC Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Site Filing	USA	FCC	101842 678747 596748	Test Facility list & NSA Data
	Canada	IC	5740A-1 5740A-2	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, T-1442, G-338, G754	Test Facility list & NSA Data
Certification	Korea	KC	KR0034	Test Facility list & NSA Data
	Germany	TUV	CARAT 13 11 86721 001	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competent of calibration and testing laboratory".

3. General Information of EUT

Model No.	HSTND-3961-G (HP Model No.), LD4245tm (LG Model No.)
EUT Type	LED Monitor
Serial No	KRG4050005
FCC ID	BEJHSTND-3961-G
Type of Sample Tested	Pre-Production
High Frequency	800 MHz
Rating	AC 100-240 V~ 50/60 Hz 1.3 A
Supplied Power for Test	AC 120 V, 60 Hz
Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon, Pyeongteak-si, Gyeonggi-do 451-713, REPUBLIC OF KOREA
Manufacturer	LG Electronics Inc. 222, LG-ro, Jinwi-myeon, Pyeongteak-si, Gyeonggi-do 451-713, REPUBLIC OF KOREA

4. Test Summary

4.1 Applied standards and test results

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2009 CAN/CSA-CISPR 22-10	C
Radiated Disturbance	ANSI C63.4:2009 CAN/CSA-CISPR 22-10	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

The data in this test report are traceable to the national or international standards.

4.2 Test environment and conditions

Test Items	Test date (YYYY-MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	2014-02-26	21	39
Radiated Disturbance	2014-02-27	21	36

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15000	L1	60.4	Quasi-Peak	66.0	5.6

(2) Radiated Emission (VOE MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
66.254	V	30.9	Quasi-Peak	40.0	9.1

5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

Emission : The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

5.2 Test Operation Mode

- DISPLAY, DSUB, HDMI, VOE MODE

: EUT displayed 'H' pattern on LCD display, 1920 x 1080 Resolution (Worst Case)

- USB MODE : EUT displayed pictures which is in USB.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
Workstation	Z400	2UA0330R2T	HP	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.6	Not use	Shield	Metal	
				DSUB	2.0	Not use	Shield	Metal	
				DP	1.8	Not use	Shield	Metal	
				USB	2.0	Not use	Shield	Metal	
				USB	1.8	Not use	Shield	Metal	
				USB	1.6	Not use	Shield	Metal	
				USB	1.6	Not use	Shield	Metal	
				LAN	1.6	Not use	Non-shield	Plastic	
LCD Monitor	U2312HMT	CN-036N7K-74445-199-440L	DELL	POWER	1.8	Not use	Non-shield	Plastic	DOC
				DSUB	2.0	Not use	Shield	Metal	
				DP	1.8	Not use	Shield	Metal	
MOUSE	APOLL0-LU	N/A	HP	USB	1.6	Not use	Shield	Metal	DOC
KEYBOARD	KB113t	CN-0D30KG-71616-243-0BU7-A00	DELL	USB	1.8	Not use	Shield	Metal	DOC
IR	N/A	N/A	N/A	IR	1.5	Not use	Non-shield	-	DOC
PRINTER	EPSON AcuLaser M1200	LWTZ181070	EPSON	USB	1.6	Not use	Shield	Metal	DOC
				POWER	1.8	Not use	Non-shield	Plastic	
Remote Control	AKB72915277	N/A	N/A	-	-	-	-	-	DOC
Head set 1	COV903	N/A	COSY	STEREO	2.0	Not use	Shield	Metal	DOC
Head set 2	COV903	N/A	COSY	STEREO	2.0	Not use	Shield	Metal	DOC
USB Memory	K-5	N/A	PLEOMAX	USB	-	-	-	-	-

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15 MHz to 30 MHz, the conducted disturbance was measured and set-up was made accordance with **ANSI C63.4 and CAN/CSA-CISPR 22-10**.

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer.

Using conducted emission test software, the emissions were scanned with peak detector mode.

After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and Average detector.

By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies.				
Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Note) 1. Emission Level = Reading Value + Correction Factor.

2. Correction Factor = Cable Loss + Insertion Loss of LISN

3. Margin = Limit - Emission level

Test Result

< DISPLAY MODE >



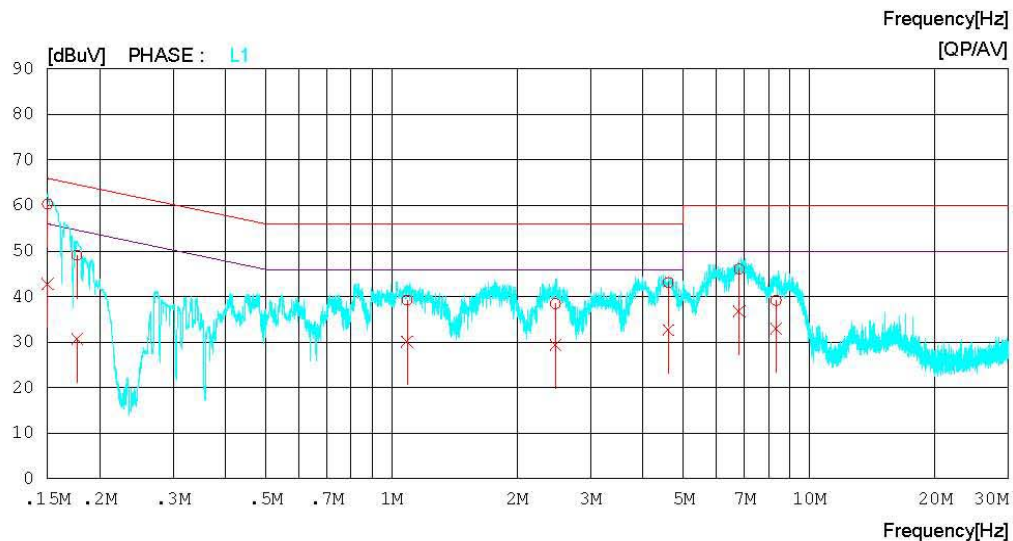
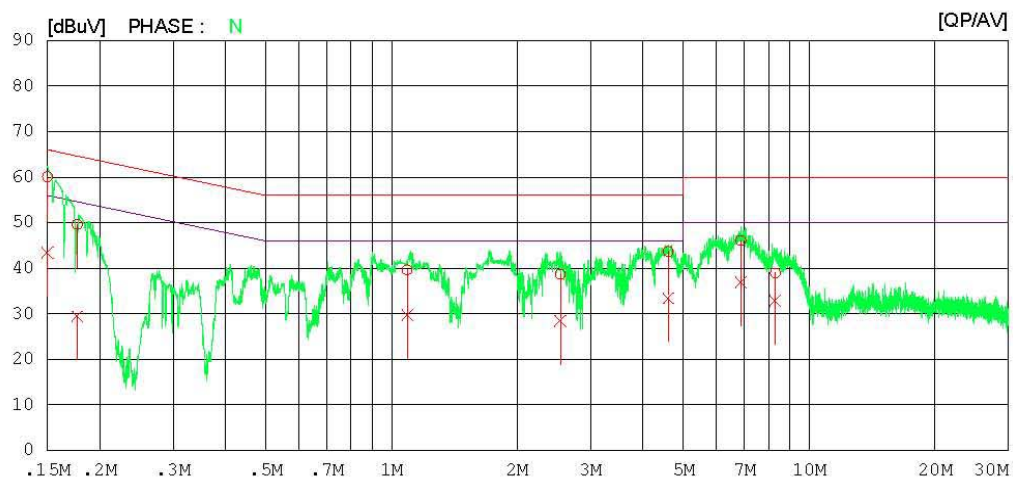
Results of Conducted Emission

Digital EMC
Date : 2014-02-26

Model No.	: HSTND-3961-G, LD4245tm	Reference No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 21 °C 39 % R.H.
Test Condition	: DP	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-02-26

Model No. : HSTND-3961-G, LD4245tm
Type :
Serial No. :
Test Condition : DP
Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15008	60.0	43.3	0.1	60.1	43.4	66.0	56.0	5.9	12.6	N
2	0.17685	49.5	29.3	0.1	49.6	29.4	64.6	54.6	15.0	25.2	N
3	1.09040	39.4	29.5	0.2	39.6	29.7	56.0	46.0	16.4	16.3	N
4	2.53520	38.4	28.1	0.3	38.7	28.4	56.0	46.0	17.3	17.6	N
5	4.59900	43.2	32.9	0.5	43.7	33.4	56.0	46.0	12.3	12.6	N
6	6.86360	45.6	36.4	0.5	46.1	36.9	60.0	50.0	13.9	13.1	N
7	8.29900	38.6	32.4	0.4	39.0	32.8	60.0	50.0	21.0	17.2	N
8	0.15008	60.2	42.7	0.1	60.3	42.8	66.0	56.0	5.7	13.2	L1
9	0.17668	49.0	30.6	0.1	49.1	30.7	64.6	54.6	15.5	23.9	L1
10	1.09000	39.0	29.9	0.2	39.2	30.1	56.0	46.0	16.8	15.9	L1
11	2.46880	38.2	29.0	0.3	38.5	29.3	56.0	46.0	17.5	16.7	L1
12	4.60020	42.6	32.2	0.5	43.1	32.7	56.0	46.0	12.9	13.3	L1
13	6.79760	45.6	36.3	0.5	46.1	36.8	60.0	50.0	13.9	13.2	L1
14	8.33380	38.8	32.6	0.4	39.2	33.0	60.0	50.0	20.8	17.0	L1

< DSUB MODE >



Results of Conducted Emission

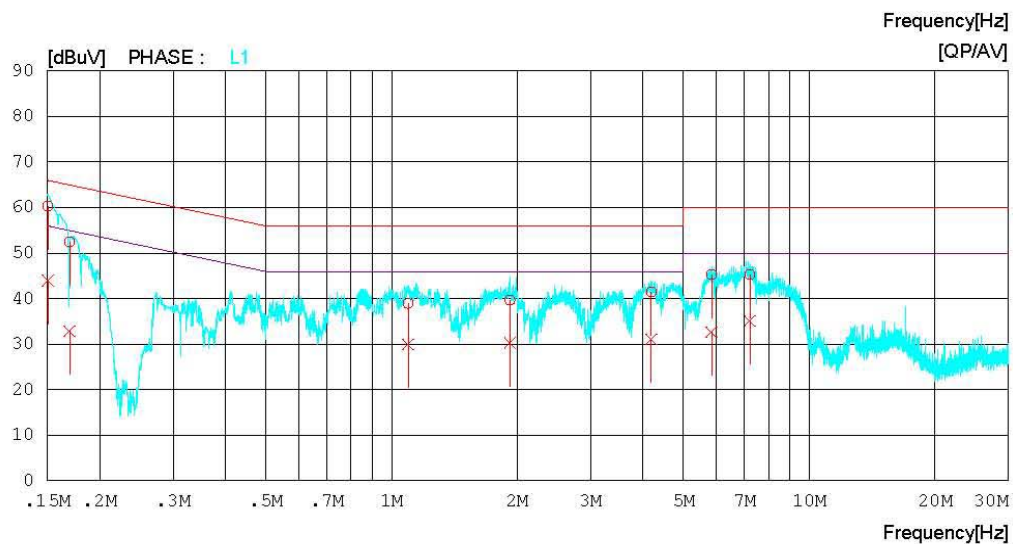
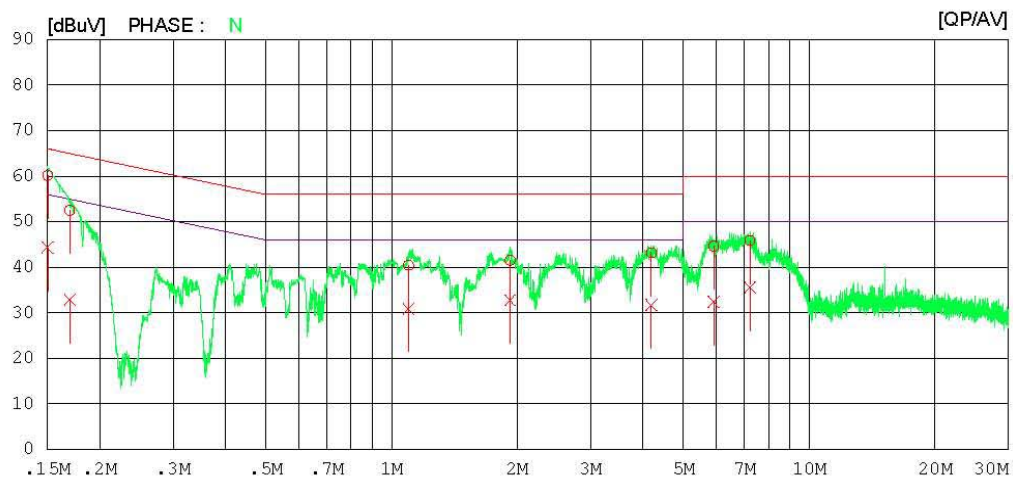
Digital EMC
Date : 2014-02-26

Model No. : HSTND-3961-G, LD4245tm
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-02-26

Model No. : HSTND-3961-G, LD4245tm
Type :
Serial No. :
Test Condition : DSUB
Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15031	60.0	44.2	0.1	60.1	44.3	66.0	56.0	5.9	11.7	N
2	0.16962	52.4	32.7	0.1	52.5	32.8	65.0	55.0	12.5	22.2	N
3	1.09900	40.2	30.7	0.2	40.4	30.9	56.0	46.0	15.6	15.1	N
4	1.92280	41.2	32.5	0.3	41.5	32.8	56.0	46.0	14.5	13.2	N
5	4.19080	42.8	31.3	0.4	43.2	31.7	56.0	46.0	12.8	14.3	N
6	5.90820	44.1	31.9	0.5	44.6	32.4	60.0	50.0	15.4	17.6	N
7	7.21480	45.3	35.1	0.5	45.8	35.6	60.0	50.0	14.2	14.4	N
8	0.15049	60.2	43.9	0.1	60.3	44.0	66.0	56.0	5.7	12.0	L1
9	0.16950	52.4	32.8	0.1	52.5	32.9	65.0	55.0	12.5	22.1	L1
10	1.09600	38.7	29.8	0.2	38.9	30.0	56.0	46.0	17.1	16.0	L1
11	1.92160	39.4	29.9	0.3	39.7	30.2	56.0	46.0	16.3	15.8	L1
12	4.19040	41.1	30.6	0.4	41.5	31.0	56.0	46.0	14.5	15.0	L1
13	5.84140	44.8	32.1	0.5	45.3	32.6	60.0	50.0	14.7	17.4	L1
14	7.21720	44.8	34.6	0.5	45.3	35.1	60.0	50.0	14.7	14.9	L1

< HDMI MODE >



Results of Conducted Emission

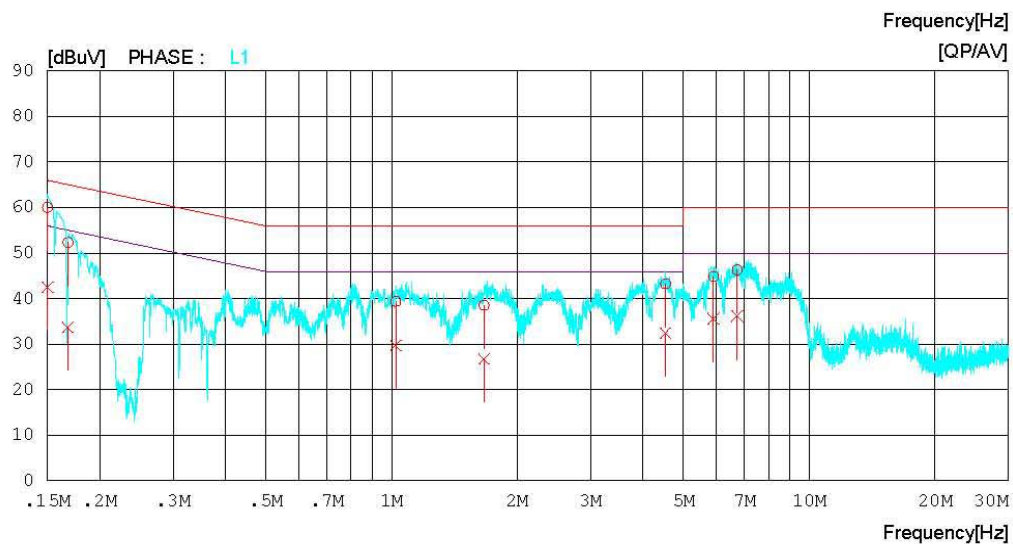
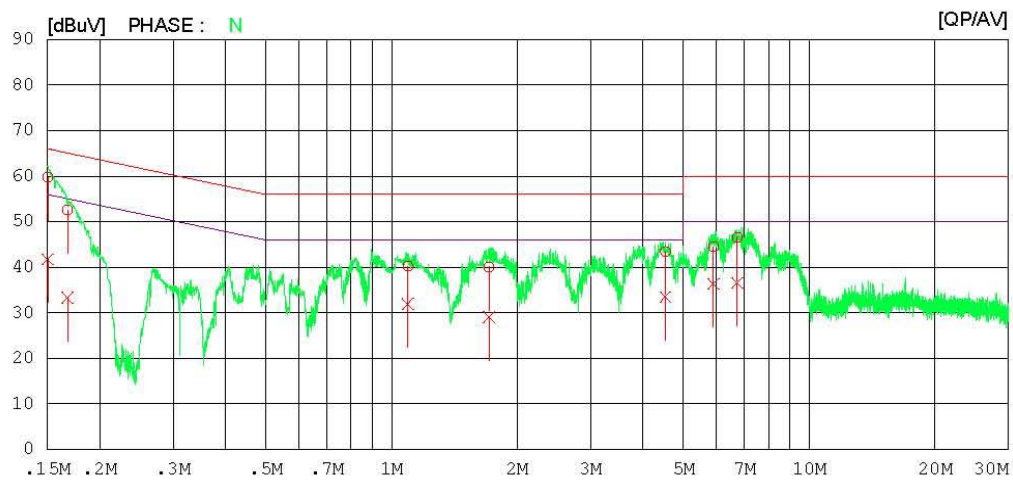
Digital EMC
Date : 2014-02-26

Model No. : HSTND-3961-G, LD4245tm
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-02-26

Model No. : HSTND-3961-G, LD4245tm
Type :
Serial No. :
Test Condition : HDMI
Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15025	59.6	41.6	0.1	59.7	41.7	66.0	56.0	6.3	14.3	N
2	0.16756	52.5	33.2	0.1	52.6	33.3	65.1	55.1	12.5	21.8	N
3	1.09500	40.0	31.8	0.2	40.2	32.0	56.0	46.0	15.8	14.0	N
4	1.71200	39.8	28.7	0.3	40.1	29.0	56.0	46.0	15.9	17.0	N
5	4.52640	43.1	33.0	0.4	43.5	33.4	56.0	46.0	12.5	12.6	N
6	5.89820	44.0	35.9	0.5	44.5	36.4	60.0	50.0	15.5	13.6	N
7	6.72520	46.0	36.0	0.5	46.5	36.5	60.0	50.0	13.5	13.5	N
8	0.15013	59.9	42.4	0.1	60.0	42.5	66.0	56.0	6.0	13.5	L1
9	0.16814	52.2	33.6	0.1	52.3	33.7	65.1	55.1	12.8	21.4	L1
10	1.02460	39.2	29.5	0.2	39.4	29.7	56.0	46.0	16.6	16.3	L1
11	1.66560	38.2	26.5	0.3	38.5	26.8	56.0	46.0	17.5	19.2	L1
12	4.52880	42.9	32.0	0.4	43.3	32.4	56.0	46.0	12.7	13.6	L1
13	5.90020	44.3	35.1	0.5	44.8	35.6	60.0	50.0	15.2	14.4	L1
14	6.72480	45.8	35.7	0.5	46.3	36.2	60.0	50.0	13.7	13.8	L1

< USB MODE >



Results of Conducted Emission

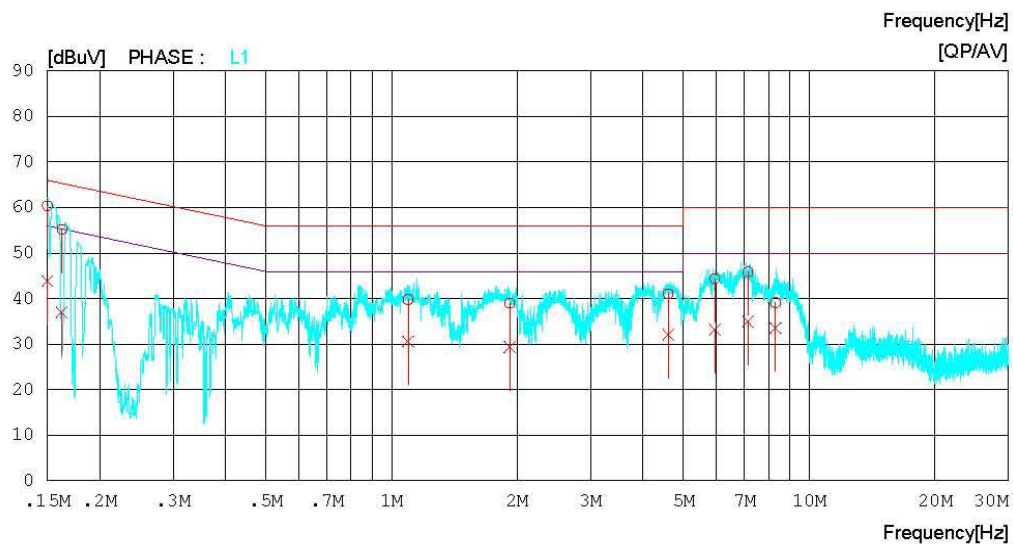
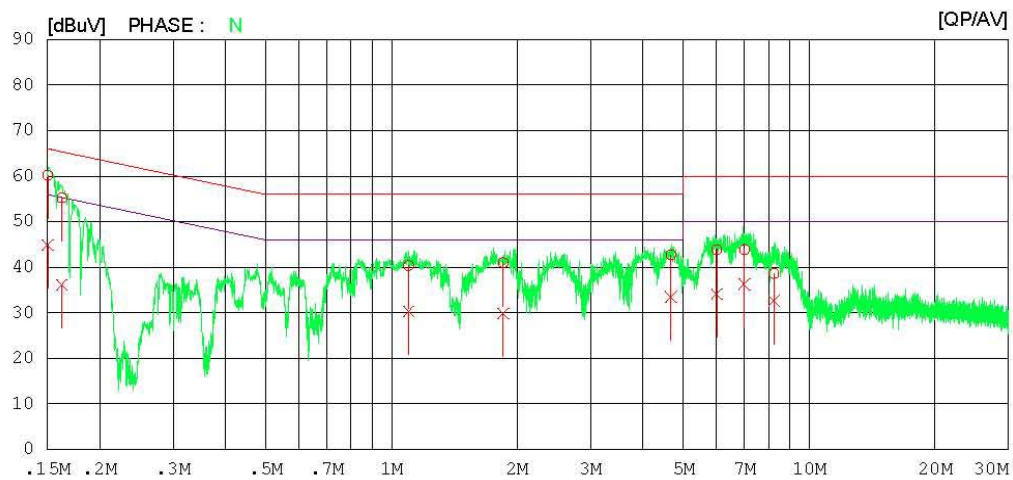
Digital EMC
Date : 2014-02-26

Model No. : HSTND-3961-G, LD4245tm
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-02-26

Model No. : HSTND-3961-G, LD4245tm
Type :
Serial No. :
Test Condition : USB
Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15031	60.0	44.8	0.1	60.1	44.9	66.0	56.0	5.9	11.1	N
2	0.16250	55.1	36.1	0.1	55.2	36.2	65.3	55.3	10.1	19.1	N
3	1.09920	40.2	30.1	0.2	40.4	30.3	56.0	46.0	15.6	15.7	N
4	1.85220	40.7	29.6	0.3	41.0	29.9	56.0	46.0	15.0	16.1	N
5	4.66660	42.2	33.0	0.5	42.7	33.5	56.0	46.0	13.3	12.5	N
6	6.01400	43.4	33.6	0.5	43.9	34.1	60.0	50.0	16.1	15.9	N
7	6.99780	43.4	35.8	0.5	43.9	36.3	60.0	50.0	16.1	13.7	N
8	8.23160	38.2	32.2	0.4	38.6	32.6	60.0	50.0	21.4	17.4	N
9	0.15000	60.3	43.8	0.1	60.4	43.9	66.0	56.0	5.6	12.1	L1
10	0.16250	55.1	36.9	0.1	55.2	37.0	65.3	55.3	10.1	18.3	L1
11	1.09600	39.6	30.4	0.2	39.8	30.6	56.0	46.0	16.2	15.4	L1
12	1.91860	38.8	29.1	0.3	39.1	29.4	56.0	46.0	16.9	16.6	L1
13	4.59940	40.6	31.6	0.5	41.1	32.1	56.0	46.0	14.9	13.9	L1
14	5.94780	43.9	32.7	0.5	44.4	33.2	60.0	50.0	15.6	16.8	L1
15	7.13700	45.4	34.4	0.5	45.9	34.9	60.0	50.0	14.1	15.1	L1
16	8.30900	38.7	33.1	0.4	39.1	33.5	60.0	50.0	20.9	16.5	L1

< VOE MODE >



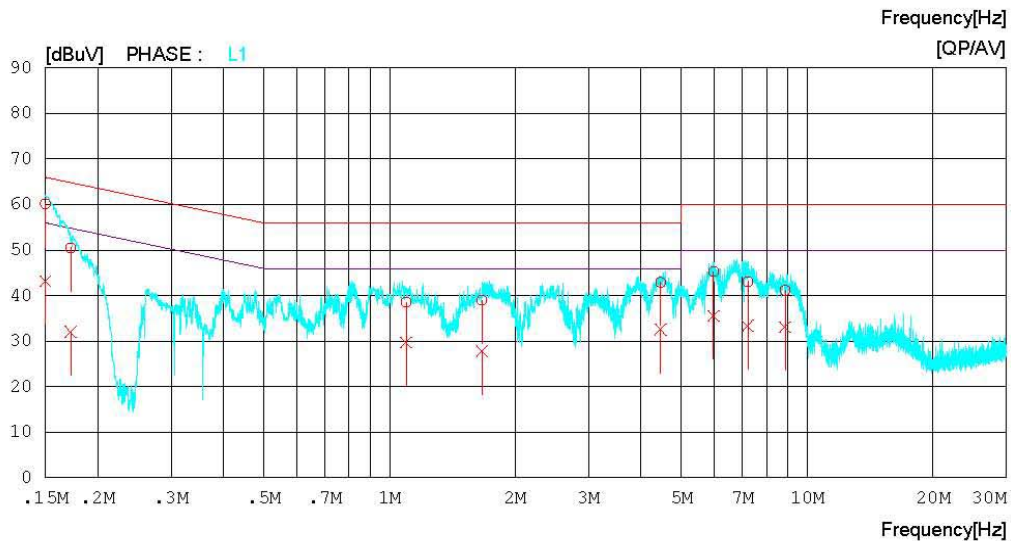
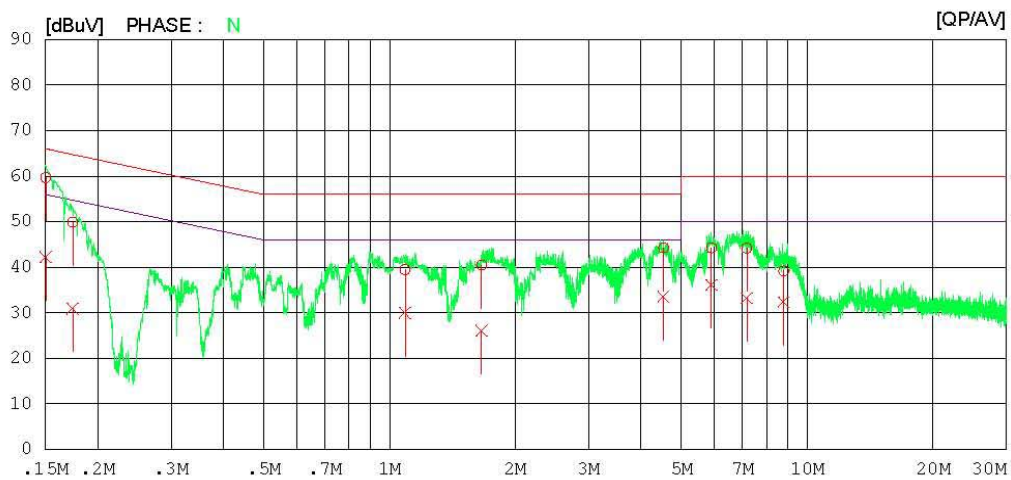
Results of Conducted Emission

Digital EMC
Date : 2014-02-26

Model No.	: HSTND-3961-G, LD4245tm	Reference No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 21 °C 39 % R.H.
Test Condition	: VOE	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-02-26

Model No. : HSTND-3961-G, LD4245tm
Type :
Serial No. :
Test Condition : VOE
Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 39 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15031	59.6	42.1	0.1	59.7	42.2	66.0	56.0	6.3	13.8	N
2	0.17450	49.7	30.8	0.1	49.8	30.9	64.7	54.7	14.9	23.8	N
3	1.08960	39.3	29.8	0.2	39.5	30.0	56.0	46.0	16.5	16.0	N
4	1.66240	40.2	25.8	0.3	40.5	26.1	56.0	46.0	15.5	19.9	N
5	4.52880	43.8	33.2	0.4	44.2	33.6	56.0	46.0	11.8	12.4	N
6	5.89960	43.7	35.6	0.5	44.2	36.1	60.0	50.0	15.8	13.9	N
7	7.16580	43.6	32.7	0.5	44.1	33.2	60.0	50.0	15.9	16.8	N
8	8.78280	38.8	32.0	0.4	39.2	32.4	60.0	50.0	20.8	17.6	N
9	0.15000	60.0	43.1	0.1	60.1	43.2	66.0	56.0	5.9	12.8	L1
10	0.17256	50.4	31.9	0.1	50.5	32.0	64.8	54.8	14.3	22.8	L1
11	1.09580	38.4	29.5	0.2	38.6	29.7	56.0	46.0	17.4	16.3	L1
12	1.66480	38.7	27.5	0.3	39.0	27.8	56.0	46.0	17.0	18.2	L1
13	4.46000	42.5	32.1	0.4	42.9	32.5	56.0	46.0	13.1	13.5	L1
14	5.97000	44.8	35.1	0.5	45.3	35.6	60.0	50.0	14.7	14.4	L1
15	7.20500	42.6	32.9	0.5	43.1	33.4	60.0	50.0	16.9	16.6	L1
16	8.85360	40.8	32.6	0.4	41.2	33.0	60.0	50.0	18.8	17.0	L1

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4 and CAN/CSA-CISPR 22-10**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

Also Peak and Average detector with 1 MHz RBW were used for above 1 GHz frequency range.

For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated Disturbance

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

Note) 1. Emission Level = Reading Value + Correction Factor.

2. Correction Factor = Cable loss - Amp gain + Antenna Factor

3. Margin = Limit - Emission level

Test Result

< 30 MHz ~ 1 GHz _ DISPLAY MODE >

RADIATED EMISSION

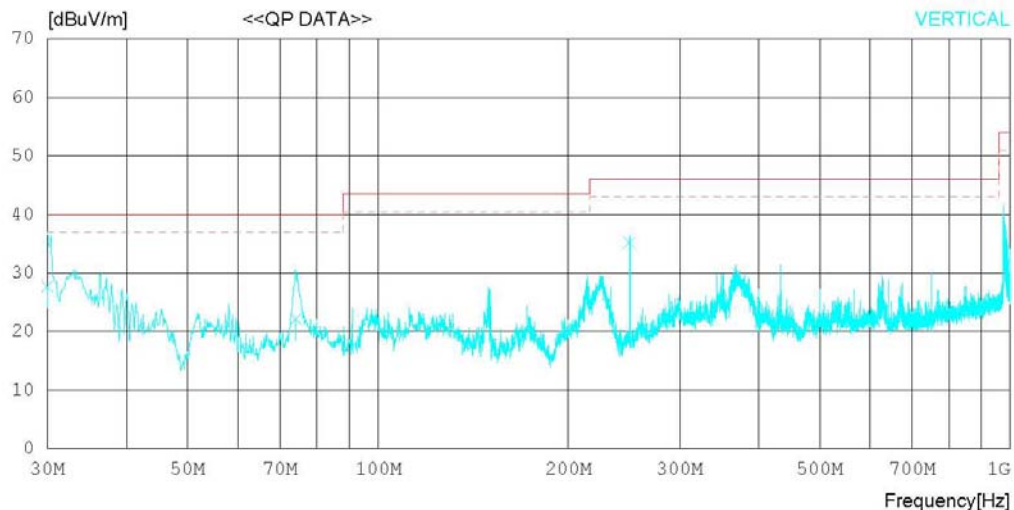
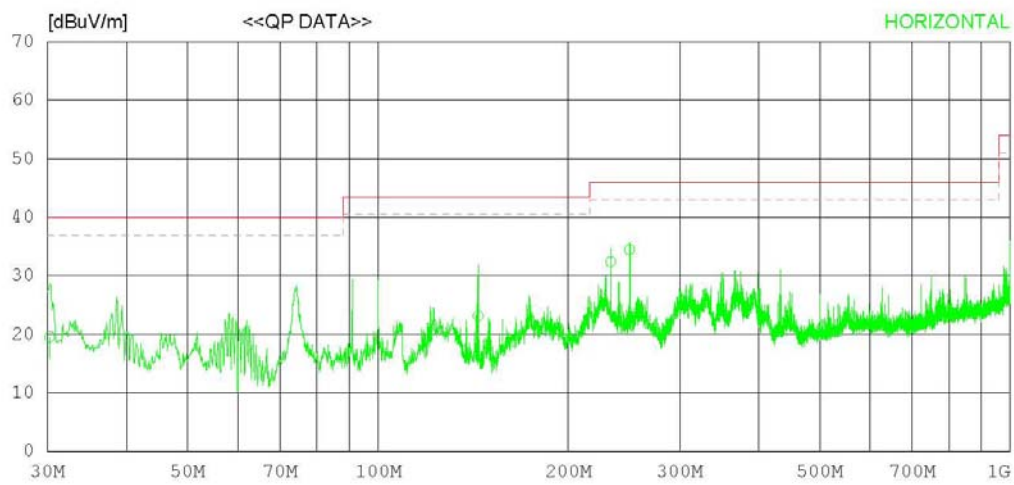
Date : 2014-02-27

Model Name : HSTND-3961-G, LD4245tm
Model No. :
Serial No. :
Test Condition : DP

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 21 °C 36 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: DP	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.243	23.6	17.7	0.9	22.6	19.6	40.0	20.4	301	74
2	143.973	33.6	10.7	1.7	22.8	23.2	43.5	20.3	301	305
3	233.331	41.8	11.7	2.1	23.2	32.4	46.0	13.6	100	144
4	249.942	42.9	12.7	2.2	23.3	34.5	46.0	11.5	100	70
----- Vertical -----										
5	30.000	31.5	17.9	0.9	22.6	27.7	40.0	12.3	299	240
6	74.135	36.9	6.7	1.3	22.7	22.2	40.0	17.8	100	119
7	249.942	43.6	12.7	2.2	23.3	35.2	46.0	10.8	100	95

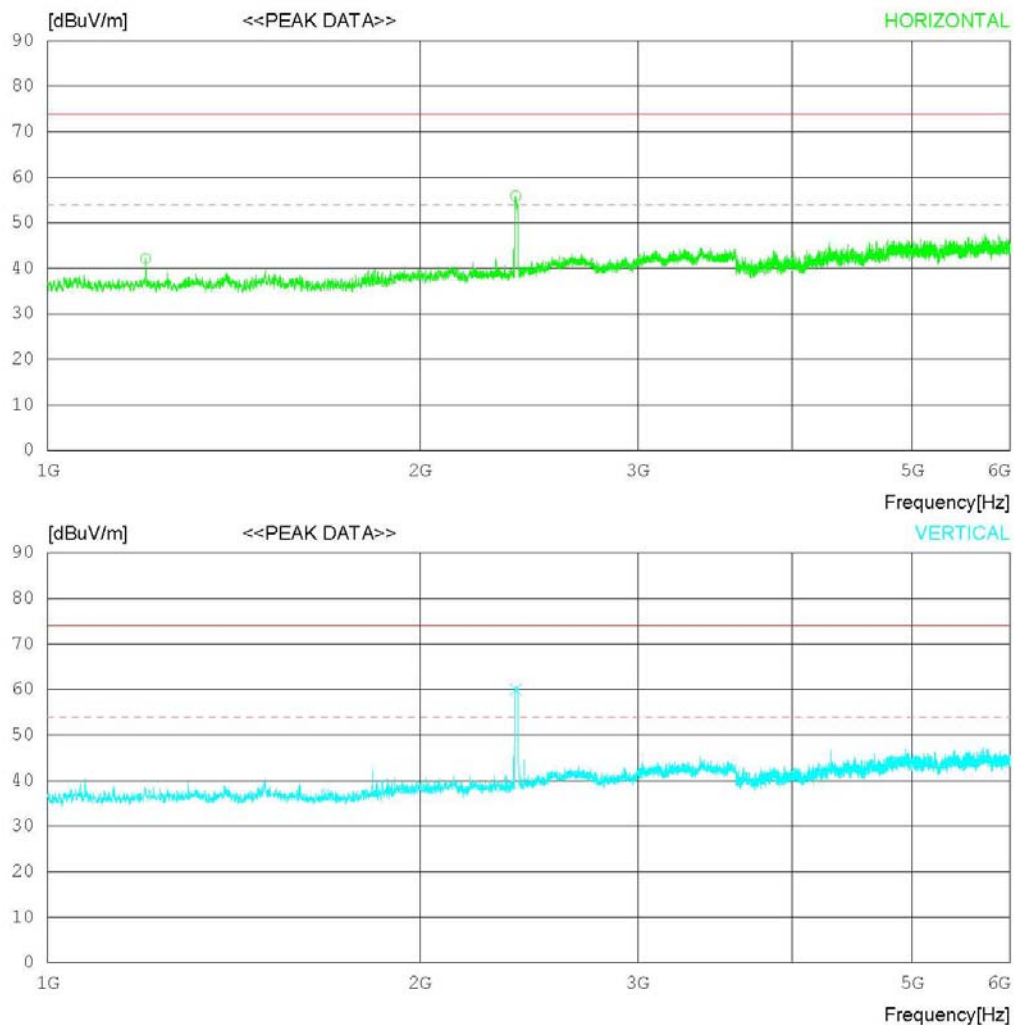
< (1 ~ 6) GHz_Peak _ DISPLAY MODE >

RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: DP	Operator	:
Memo	:		

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:	
Model No.	:	Power Supply	:	120 V 60 Hz
Serial No.	:	Temp/Humi	:	21 °C 36 % R.H.
Test Condition	: DP	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1200.000	54.4	24.9	3.6	40.7	42.2	74.0	31.8	100	230
2	2389.375	63.1	27.0	5.1	39.3	55.9	74.0	18.1	100	359
----- Vertical -----										
3	2389.375	67.2	27.0	5.1	39.3	60.0	74.0	14	100	1

< (1 ~ 6) GHz_Average _ DISPLAY MODE >

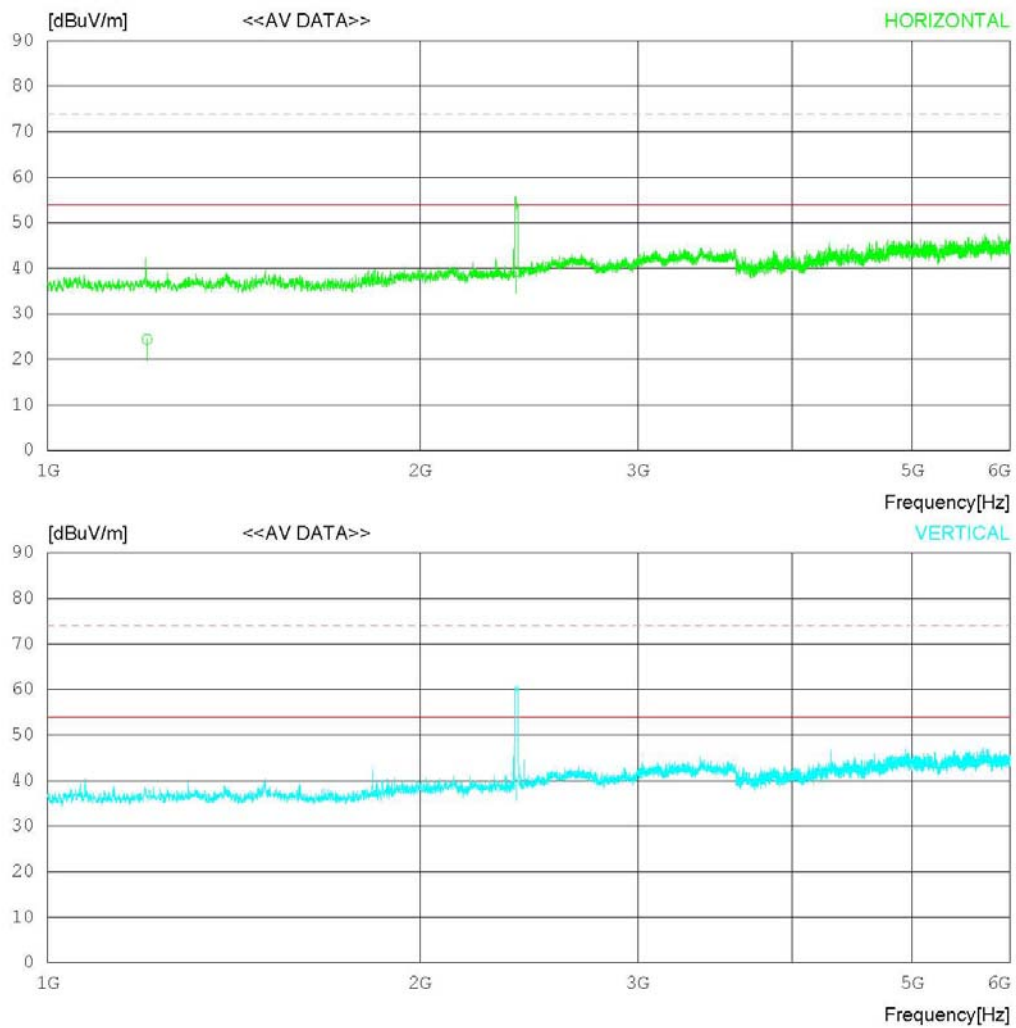
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: DP	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:	
Model No.	:	Power Supply	:	120 V 60 Hz
Serial No.	:	Temp/Humi	:	21 'C 36 % R.H.
Test Condition	: DP	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1203.306	36.6	24.9	3.6	40.7	24.4	54.0	29.6	100	211
2	2391.105	46.5	27.0	5.1	39.3	39.3	54.0	14.7	100	234
----- Vertical -----										
3	2392.330	47.7	27.0	5.1	39.3	40.5	54.0	13.5	100	184

< 30 MHz ~ 1 GHz _ DSUB MODE >

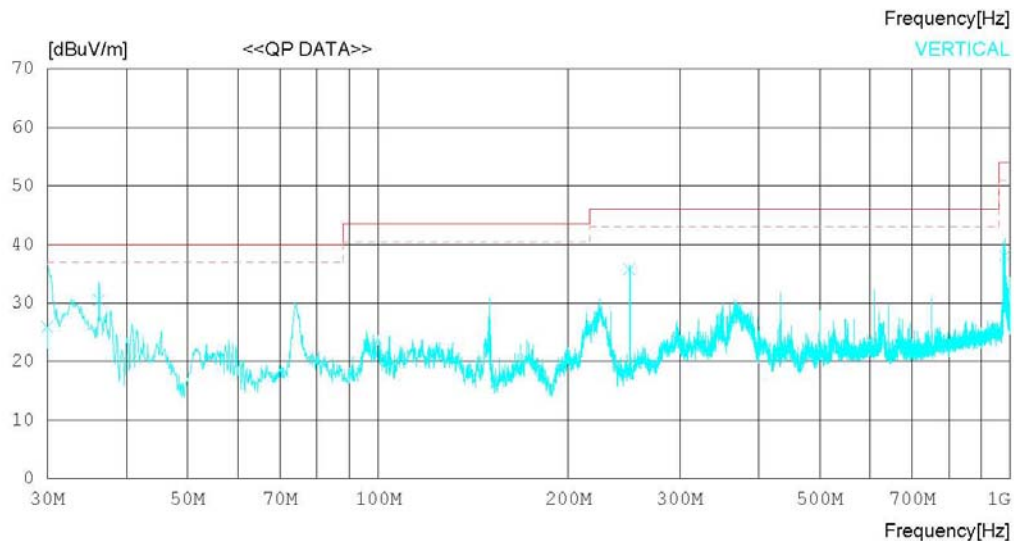
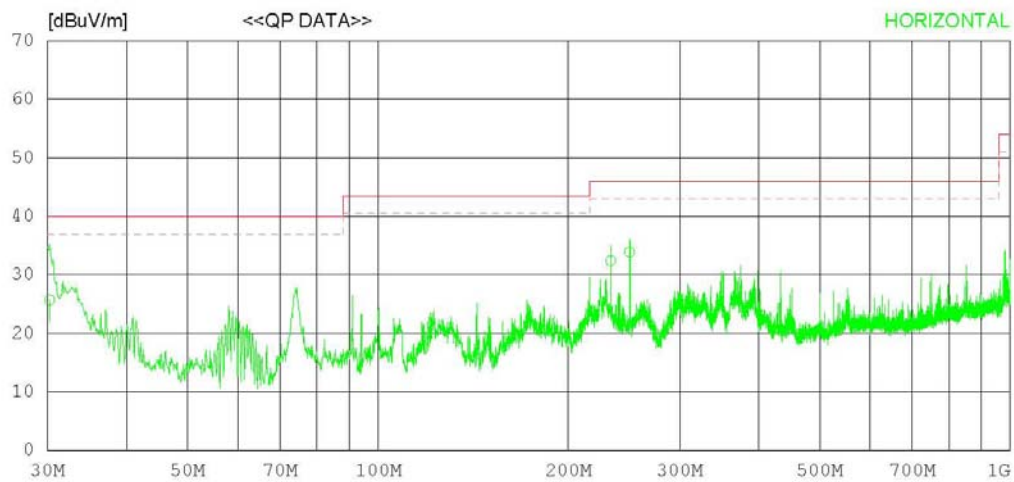
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: DSUB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: DSUB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.243	29.7	17.7	0.9	22.6	25.7	40.0	14.3	301	206
2	233.331	41.8	11.7	2.1	23.2	32.4	46.0	13.6	100	127
3	249.942	42.3	12.7	2.2	23.3	33.9	46.0	12.1	100	78
----- Vertical -----										
4	30.000	29.8	17.9	0.9	22.6	26.0	40.0	14.0	299	11
5	36.184	37.5	14.7	0.9	22.6	30.5	40.0	9.5	199	151
6	249.942	44.2	12.7	2.2	23.3	35.8	46.0	10.2	100	332
7	981.175	34.3	22.0	4.3	22.5	38.1	54.0	15.9	100	169

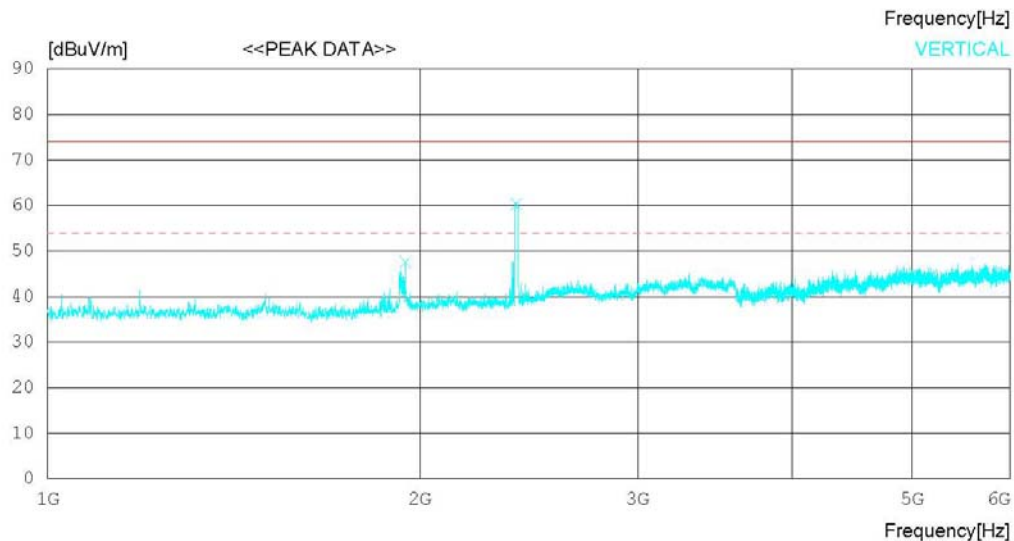
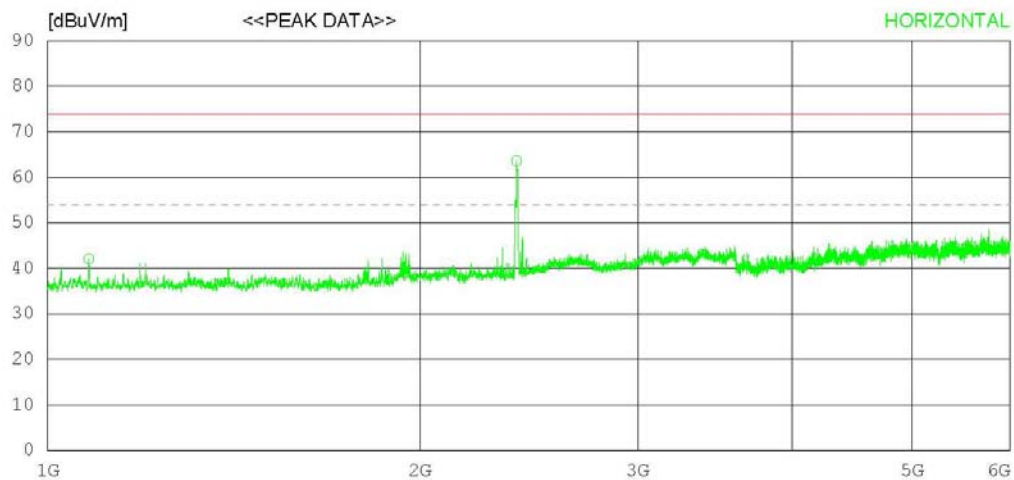
< (1 ~ 6) GHz_Peak _ DSUB MODE >

RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: DSUB	Operator	:
Memo	:		

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:	
Model No.	:	Power Supply	:	120 V 60 Hz
Serial No.	:	Temp/Humi	:	21 'C 36 % R.H.
Test Condition	: DSUB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		PEAK	FACTOR							
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1080.000	54.8	24.8	3.5	41.0	42.1	74.0	31.9	100	129
2	2393.750	70.8	27.0	5.1	39.3	63.6	74.0	10.4	100	195
----- Vertical -----										
3	1946.875	56.6	25.8	4.7	39.5	47.6	74.0	26.4	100	359
4	2393.750	67.5	27.0	5.1	39.3	60.3	74.0	13.7	100	156

< (1 ~ 6) GHz_Average _ DSUB MODE >

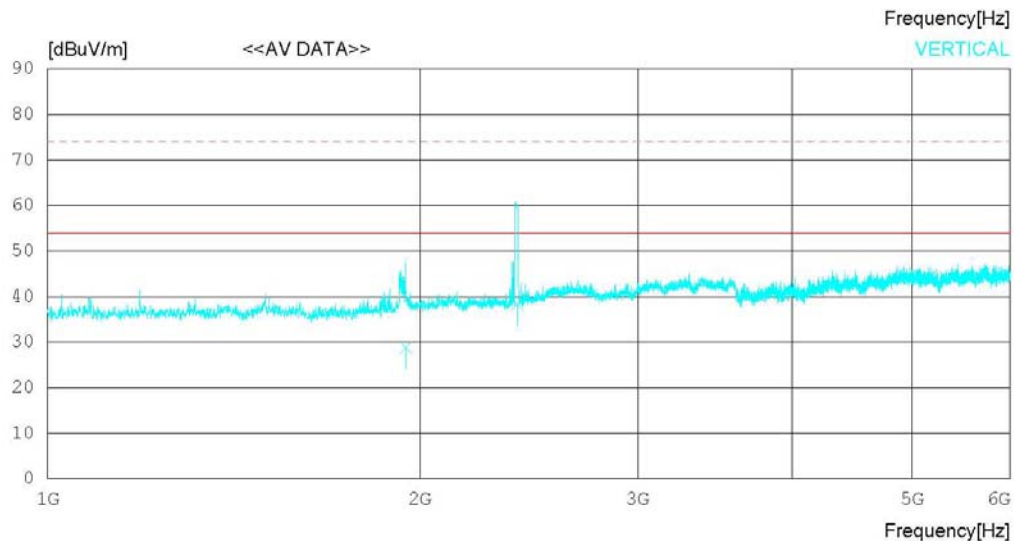
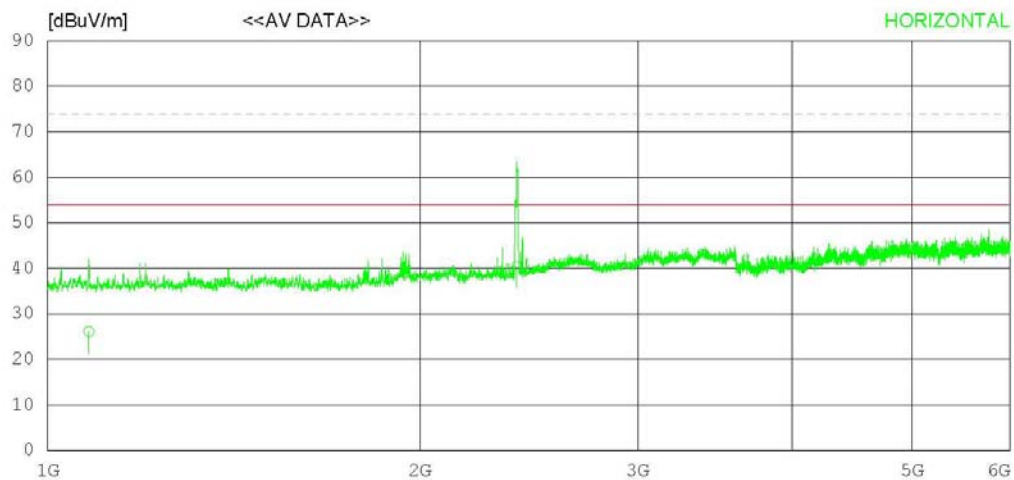
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: DSUB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: DSUB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1080.124	38.8	24.8	3.5	41.0	26.1	54.0	27.9	100	156
2	2395.815	47.7	27.0	5.1	39.3	40.5	54.0	13.5	100	179
----- Vertical -----										
3	1949.070	37.8	25.8	4.7	39.5	28.8	54.0	25.2	100	234
4	2396.308	45.5	27.0	5.1	39.3	38.3	54.0	15.7	100	214

< 30 MHz ~ 1 GHz _ HDMI MODE >

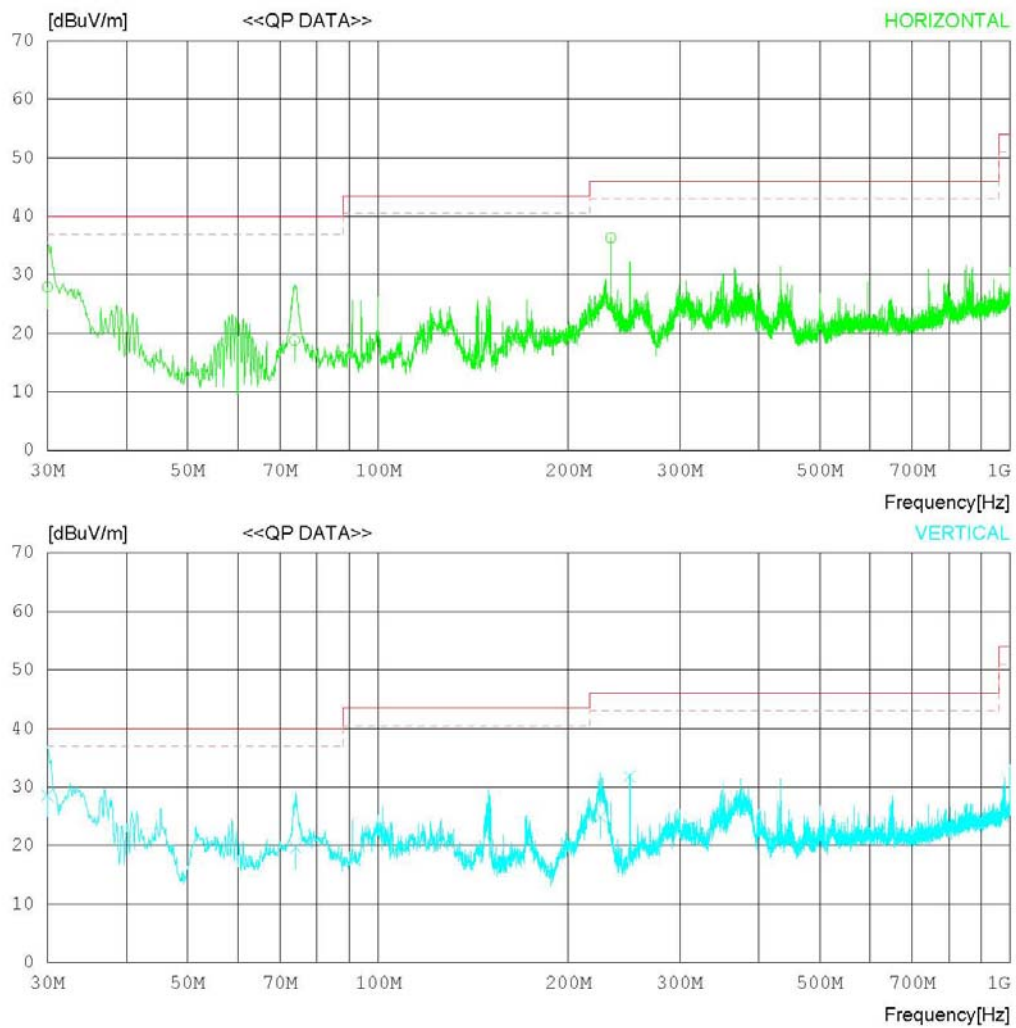
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.000	31.7	17.9	0.9	22.6	27.9	40.0	12.1	301	314
2	73.771	33.5	6.7	1.3	22.7	18.8	40.0	21.2	200	346
3	233.331	45.7	11.7	2.1	23.2	36.3	46.0	9.7	100	126
----- Vertical -----										
4	30.000	32.4	17.9	0.9	22.6	28.6	40.0	11.4	299	34
5	74.135	34.4	6.7	1.3	22.7	19.7	40.0	20.3	199	127
6	224.723	34.8	11.2	2.1	23.2	24.9	46.0	21.1	100	321
7	250.063	40.2	12.7	2.2	23.3	31.8	46.0	14.2	100	77

< (1 ~ 6) GHz_Peak _ HDMI MODE >

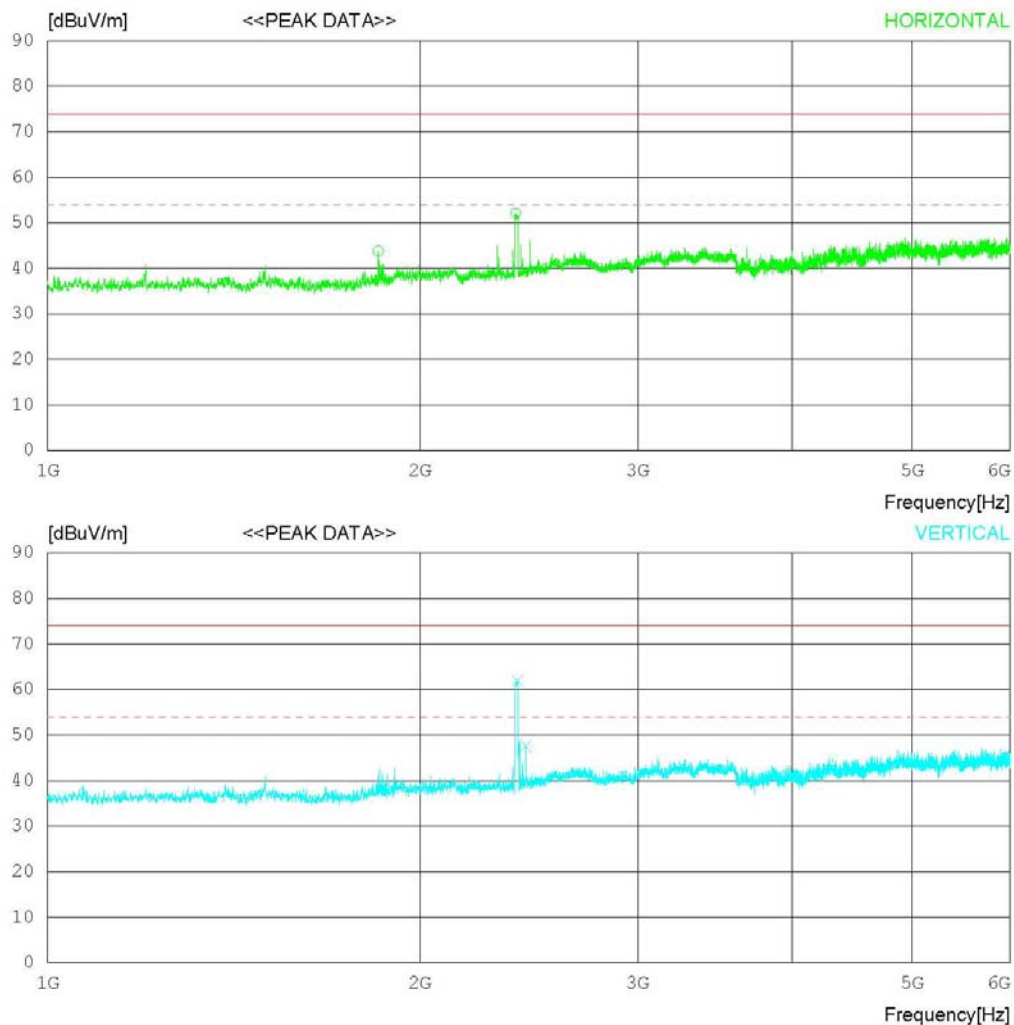
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:	
Model No.	:	Power Supply	:	120 V 60 Hz
Serial No.	:	Temp/Humi	:	21 'C 36 % R.H.
Test Condition	: HDMI	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1851.250	53.3	25.7	4.5	39.7	43.8	74.0	30.2	100	358
2	2390.625	59.3	27.0	5.1	39.3	52.1	74.0	21.9	100	358
----- Vertical -----										
3	2399.375	69.1	27.0	5.1	39.3	61.9	74.0	12.1	100	126
4	2436.250	54.5	27.2	5.2	39.3	47.6	74.0	26.4	100	111

< (1 ~ 6) GHz_Average _ HDMI MODE >

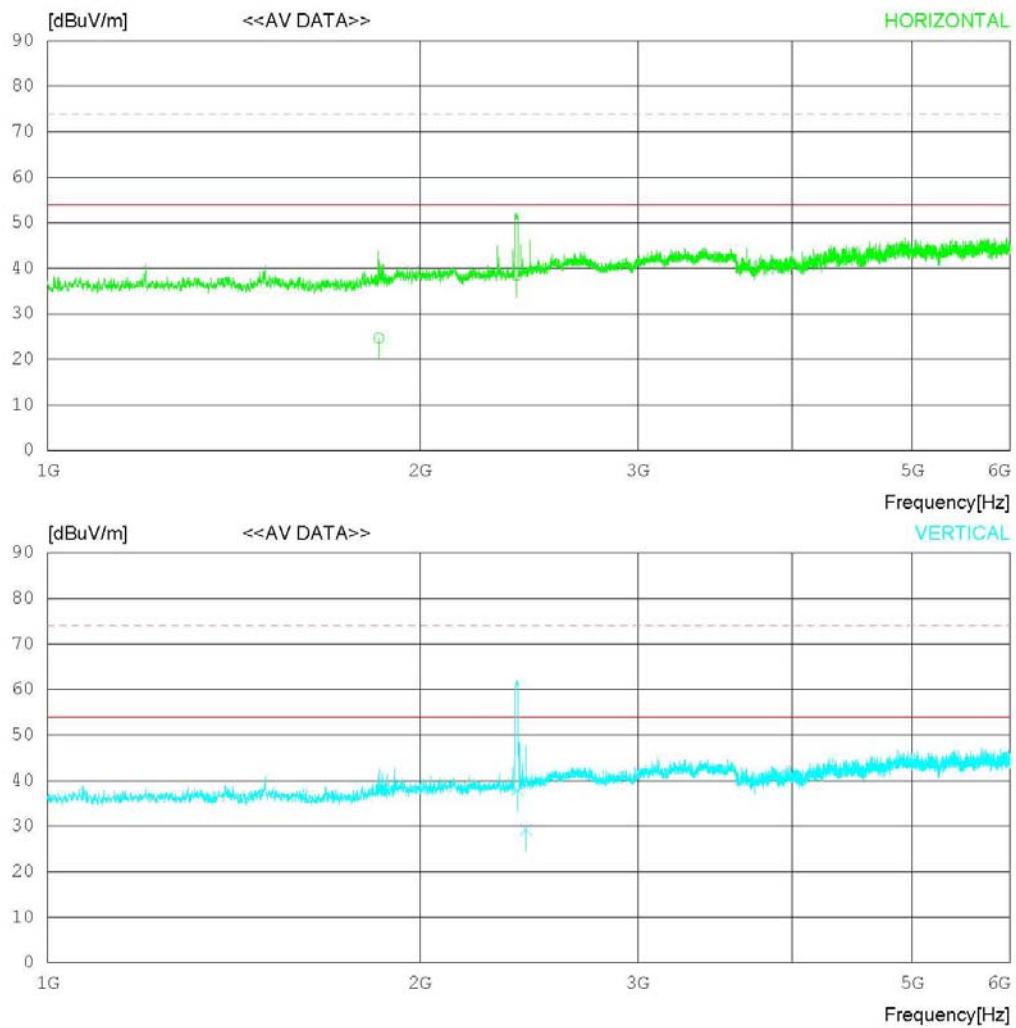
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1852.090	34.2	25.7	4.5	39.7	24.7	54.0	29.3	100	195
2	2393.908	45.6	27.0	5.1	39.3	38.4	54.0	15.6	100	218
----- Vertical -----										
3	2396.505	45.2	27.0	5.1	39.3	38.0	54.0	16.0	100	195
4	2436.550	36.2	27.2	5.2	39.3	29.3	54.0	24.7	100	175

< 30 MHz ~ 1 GHz _ USB MODE >

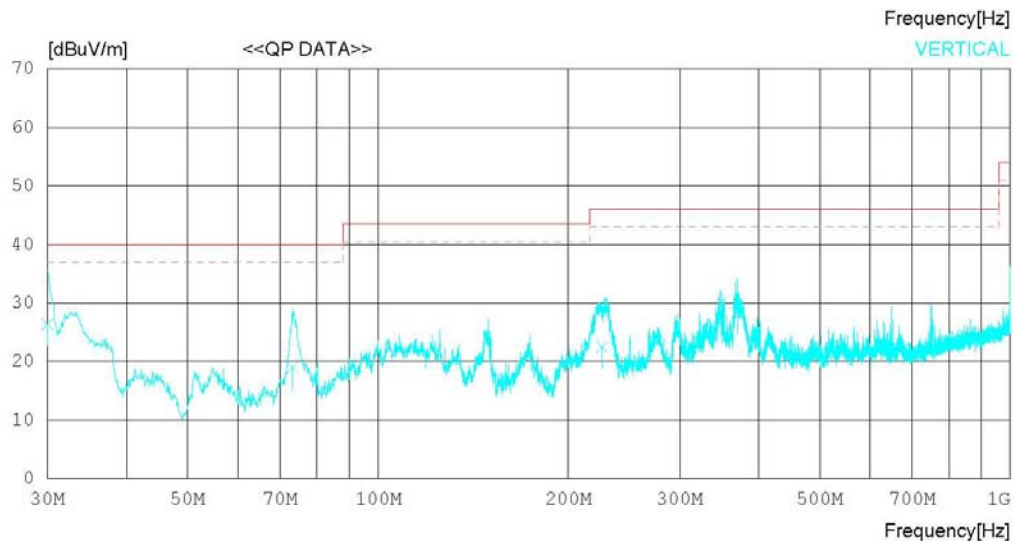
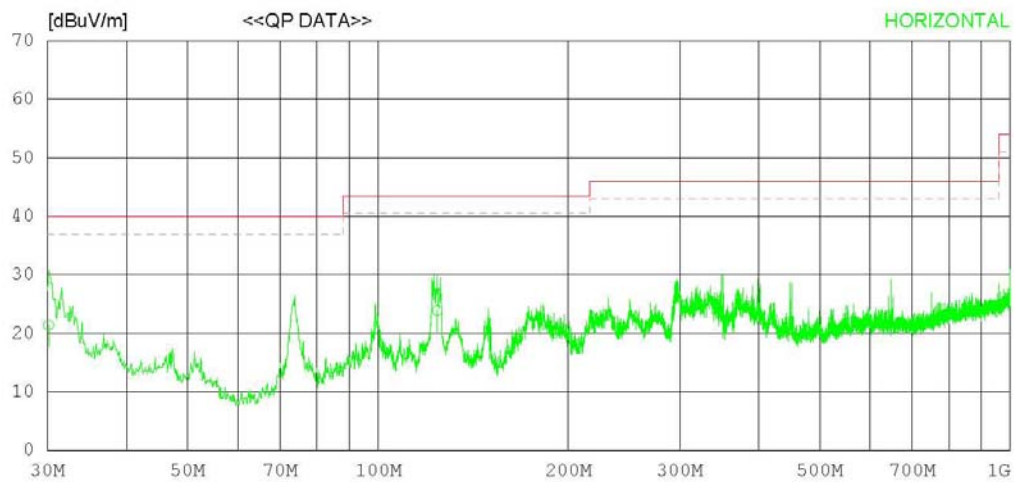
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: USB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: USB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.121	25.3	17.8	0.9	22.6	21.4	40.0	18.6	301	64
2	124.088	33.3	11.8	1.6	22.8	23.9	43.5	19.6	100	247
----- Vertical -----										
3	30.000	30.2	17.9	0.9	22.6	26.4	40.0	13.6	299	77
4	73.286	33.8	6.6	1.3	22.7	19.0	40.0	21.0	100	284
5	226.306	32.3	11.3	2.1	23.2	22.5	46.0	23.5	100	317
6	370.097	34.4	15.4	2.6	24.0	28.4	46.0	17.6	100	174

< (1 ~ 6) GHz_Peak _ USB MODE >

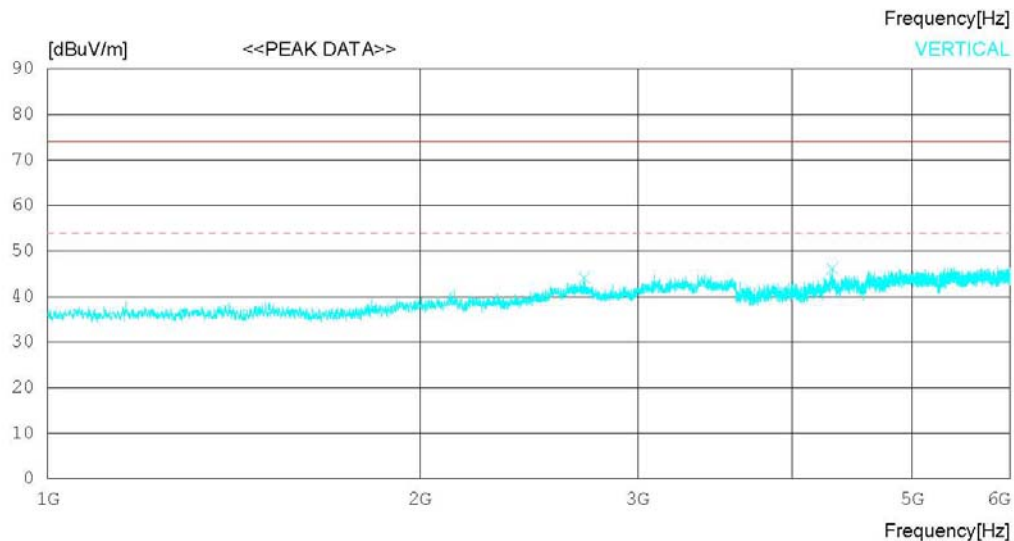
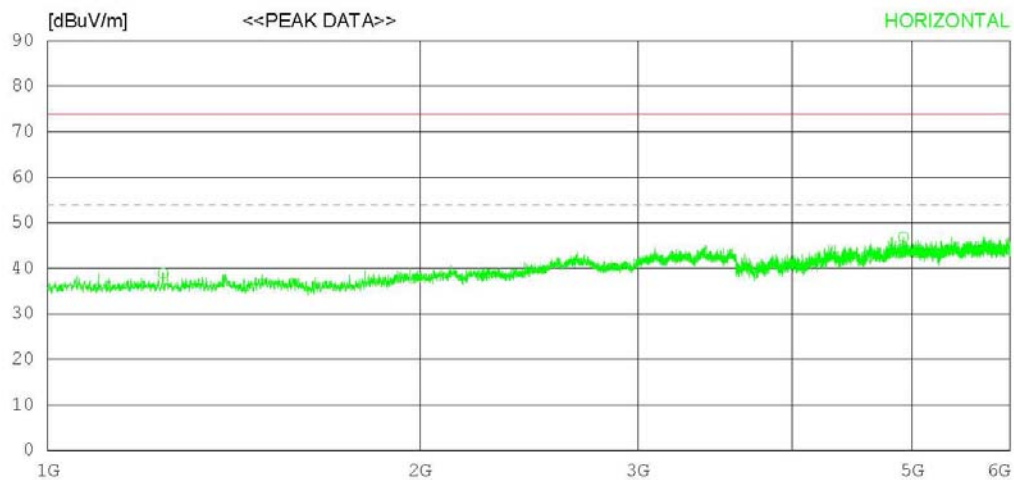
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: USB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: USB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1240.000	50.8	25.0	3.7	40.6	38.9	74.0	35.1	100	176
2	4918.750	46.4	31.5	7.8	38.8	46.9	74.0	27.1	100	244
----- Vertical -----										
3	2715.000	50.0	28.0	5.4	39.3	44.1	74.0	29.9	100	96
4	4308.125	47.5	30.3	6.9	38.5	46.2	74.0	27.8	100	42

< (1 ~ 6) GHz_Average _ USB MODE >

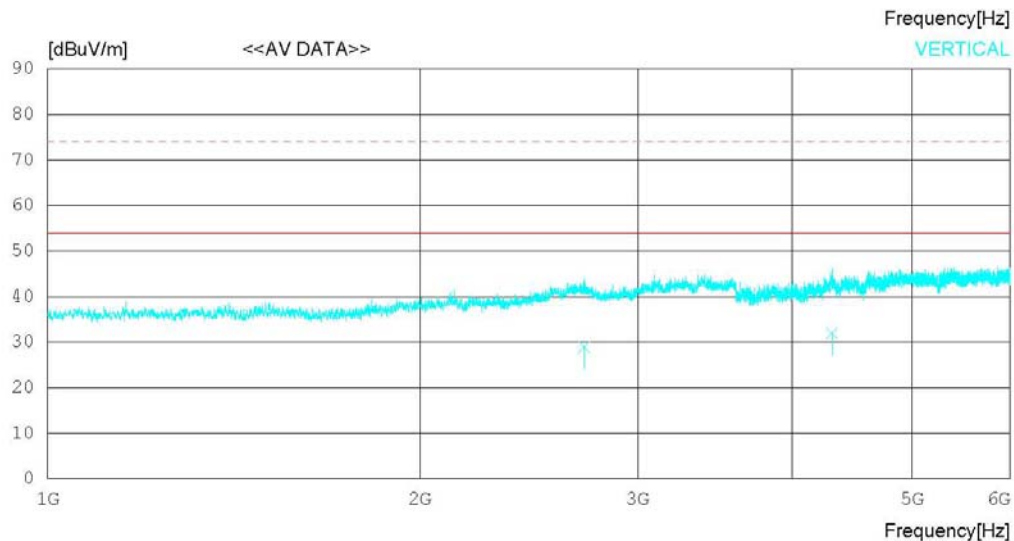
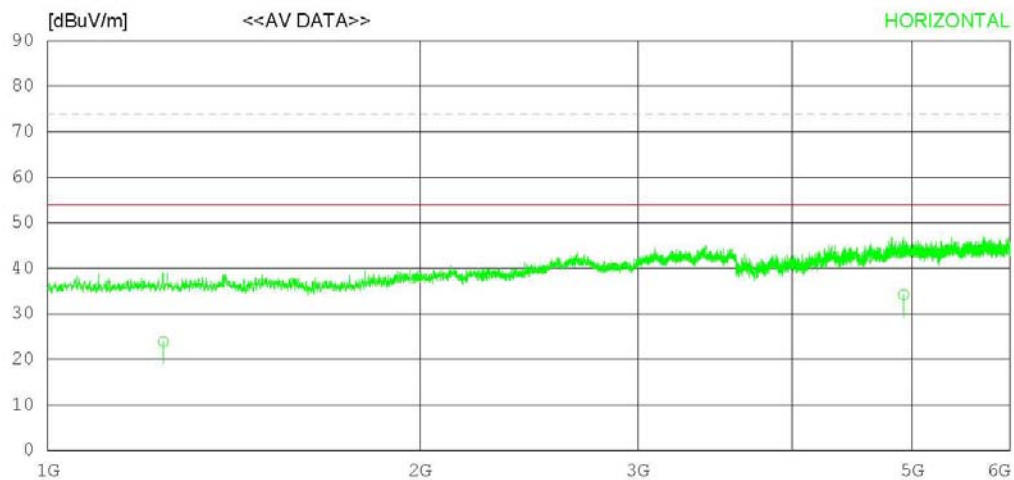
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: USB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: USB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1240.510	35.8	25.0	3.7	40.6	23.9	54.0	30.1	100	195
2	4921.116	33.7	31.5	7.8	38.8	34.2	54.0	19.8	100	228
----- Vertical -----										
3	2715.450	34.8	28.0	5.4	39.3	28.9	54.0	25.1	100	124
4	4307.808	33.2	30.3	6.9	38.5	31.9	54.0	22.1	100	97

< 30 MHz ~ 1 GHz _ VOE MODE >

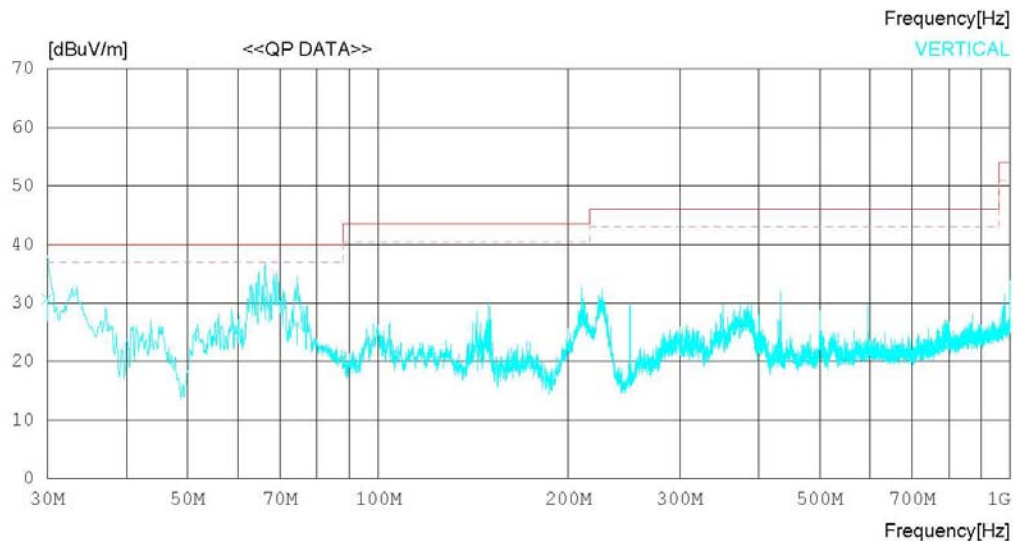
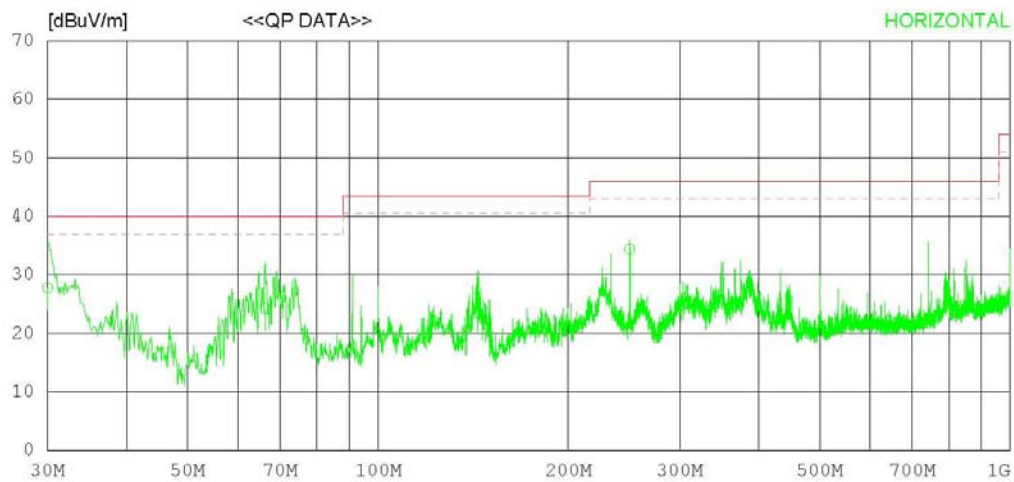
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: VOE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 °C 36 % R.H.
Test Condition	: VOE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.000	31.6	17.9	0.9	22.6	27.8	40.0	12.2	301	142
2	66.254	39.5	6.0	1.3	22.6	24.2	40.0	15.8	301	226
3	249.942	42.8	12.7	2.2	23.3	34.4	46.0	11.6	100	220
----- Vertical -----										
4	30.000	34.5	17.9	0.9	22.6	30.7	40.0	9.3	299	74
5	66.254	46.2	6.0	1.3	22.6	30.9	40.0	9.1	100	305
6	74.498	41.2	6.7	1.3	22.7	26.5	40.0	13.5	100	208

< (1 ~ 6) GHz_Peak _ VOE MODE >

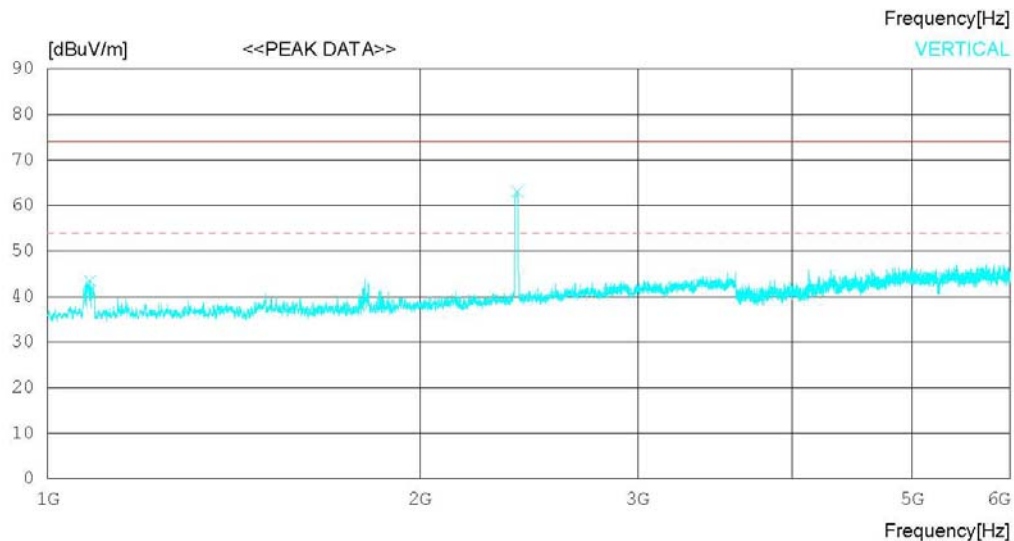
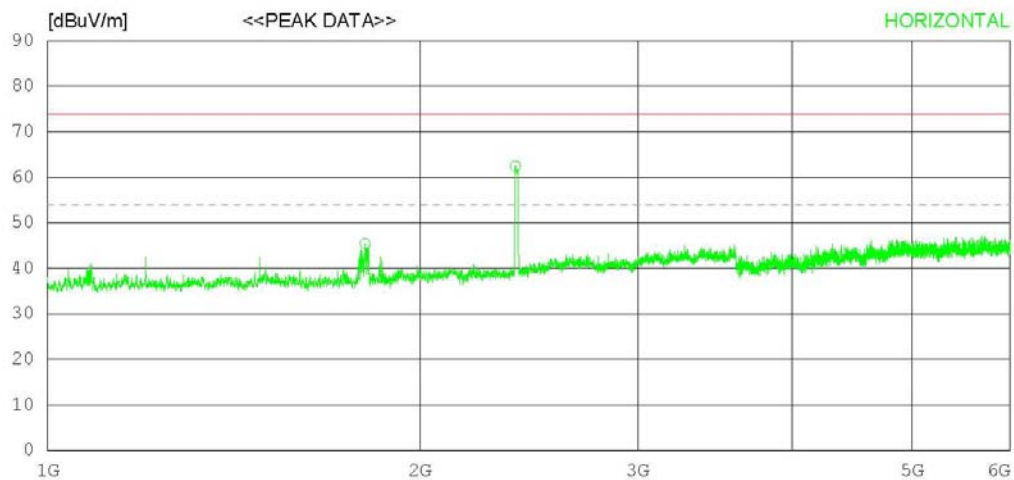
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: VOE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: VOE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1806.250	54.9	25.7	4.5	39.7	45.4	74.0	28.6	100	207
2	2388.750	69.7	27.0	5.1	39.3	62.5	74.0	11.5	100	207
----- Vertical -----										
3	1082.500	56.1	24.8	3.5	41.0	43.4	74.0	30.6	100	220
4	2396.875	70.3	27.0	5.1	39.3	63.1	74.0	10.9	100	144

< (1 ~ 6) GHz_Average _ VOE MODE >

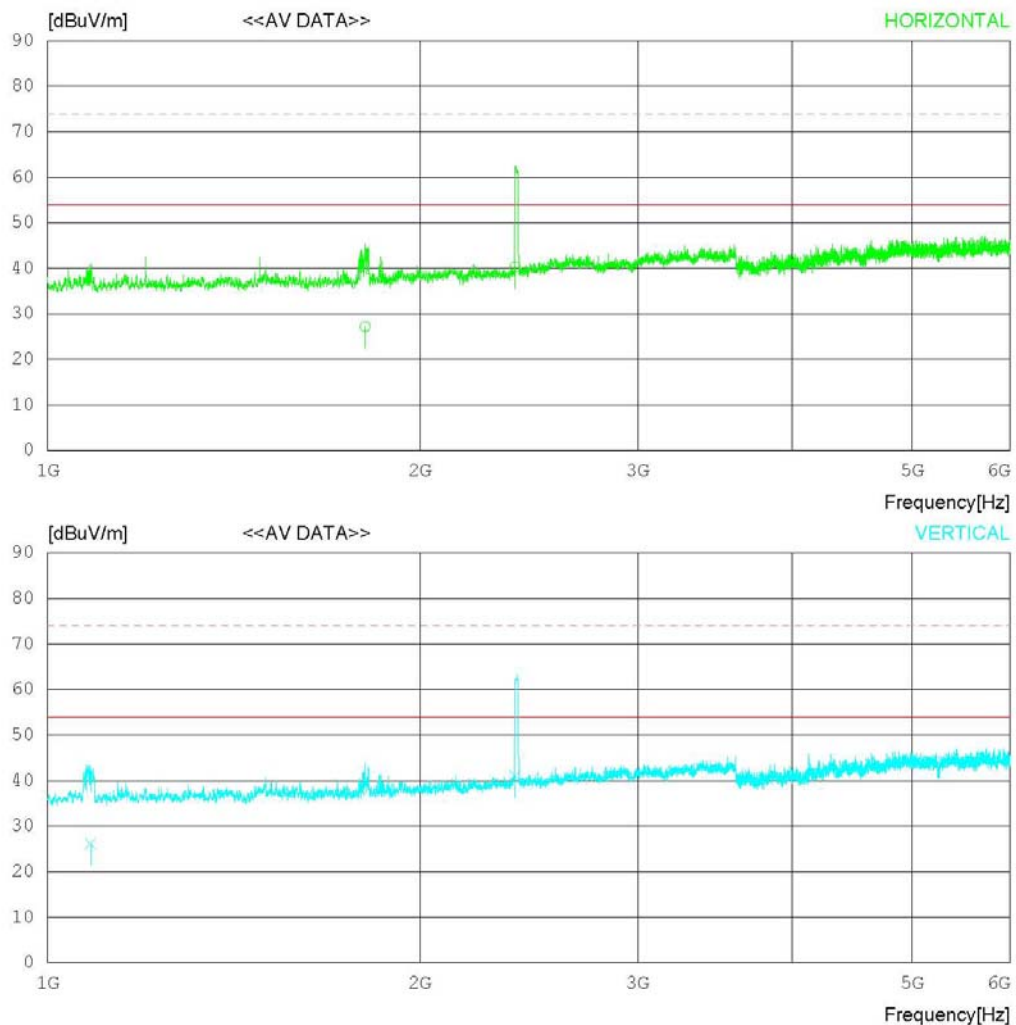
RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: VOE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2014-02-27

Model Name	: HSTND-3961-G, LD4245tm	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 21 'C 36 % R.H.
Test Condition	: VOE	Operator	:

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1806.285	36.7	25.7	4.5	39.7	27.2	54.0	26.8	100	217
2	2388.214	47.5	27.0	5.1	39.3	40.3	54.0	13.7	100	234
----- Vertical -----										
3	1083.415	38.8	24.8	3.5	41.0	26.1	54.0	27.9	100	195
4	2387.782	48.2	27.0	5.1	39.3	41.0	54.0	13.0	100	175

Appendix 1

List of Test and Measurement Instruments

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment is identified by the Test Laboratory.

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐ SPECTRUM ANALYZER	8591E	H/P	3649A05889	2014.02.27	2015.02.27
☐ RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2013.06.28	2014.06.28
☐ LISN	KNW-407	KYORITSU	8-317-8	2014.01.08	2015.01.08
☐ LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2013.06.27	2014.06.27
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2014.01.08	2015.01.08
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2014.02.27	2015.02.27
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2013.09.12	2014.09.12
☒ LISN	LISN1600	TTI	197204	2013.06.28	2014.06.28
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2014.01.08	2015.01.08

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2014.01.08	2015.01.08
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.11.06	2014.11.06
☒ HORN ANTENNA	BBHA9120D	SCHWARZBECK	1014	2012.10.21	2014.10.21
☒ AMPLIFIER	8447E	H/P	2945A02865	2014.01.08	2015.01.08
☒ AMPLIFIER	8449B	AGILENT	3008A01590	2013.02.27	2014.02.27
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2013.06.27	2014.06.27
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2013.06.28	2014.06.28
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2014.02.27	2015.02.27
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.10.04	2014.10.04
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2013.05.16	2015.05.16
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	0411	2013.05.16	2015.05.16
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2014.02.28	2015.02.28

Appendix 2

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	N/A	N/A