

EMC TEST REPORT

Test item : LED Monitor
Model No. : HSTND-3951-G, LD4735
Order No. : DEMC1401-00125
Date of receipt : 2014-01-13
Test duration : 2014-01-14 ~ 2014-01-15
Use of report : FCC CoC Marking
Date of Issue : 2014-01-20

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 : ANSI C 63.4:2003
FCC Part 15 Subpart B
(Type of Device : Class B Personal Computers
and Peripherals (JBP))

Test environment : Temperature : (18 ~ 25) °C,
Humidity : (31 ~ 33) % 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:



Assistant Manager
HyungJun Kim

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-3951-G (HP Model No.), LD4735 (LG Model No.)
EUT Type	LED Monitor
Serial No	KRG35 1004B
FCC ID	BEJHSTND-3951-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 C63.4:2003	C
Radiated Disturbance	ANSI C63.4:2003	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	2014-01-14	25	31
Radiated Disturbance	2014-01-15	18	31
	2014-01-15	18	33

4.3 Test result Summary

(1) Conducted Emission (DSUB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15006	L1	60.0	Quasi-Peak	66.0	6.0

(2) Radiated Emission (DISPLAY MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
249.942	H	41.7	Quasi-Peak	46.0	4.3

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
				DSUB	2.0	Not use	Shield	Plastic	
				HDMI	2.0	Not use	Shield	Plastic	
				Display	2.0	Not use	Shield	Plastic	
				LAN	2.0	Not use	Non-shield	Plastic	
				USB	1.8	Not use	Shield	Plastic	
				USB	1.8	Not use	Shield	Plastic	
				USB	1.8	Not use	Shield	Plastic	
KEYBOARD	KB-065	CN11163234	HP	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	MS111-L	N/A	DELL	USB	1.8	Not use	Shield	Plastic	DOC
PRINT	EPSON Aculaser M1200	LWTZ181070	EPSON	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.8	Not use	Shield	Plastic	
HEADSET 1	COV909	N/A	COSY	AUDIO	2.0	Not use	Shield	Plastic	DOC
HEADSET 2	COV909	N/A	COSY	AUDIO	2.0	Not use	Shield	Plastic	DOC
USB Memory Stick	N/A	N/A	SANDISK	USB	-	Not use	Shield	Plastic	DOC
IR	N/A	N/A	N/A	IR	1.5	Not use	Shield	Plastic	DOC
Remote Controller	AKB72915277	628797-0010	N/A	-	-	-	-	-	-
LCD MONITOR	U2312HMT	CN-036N7K-74445-199-440L	DELL	POWER	1.8	Not use	Non-shield	Plastic	DOC
				DSUB	2.0	Not use	Shield	Plastic	
				Display	2.0	Not use	Shield	Plastic	

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**.

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 >



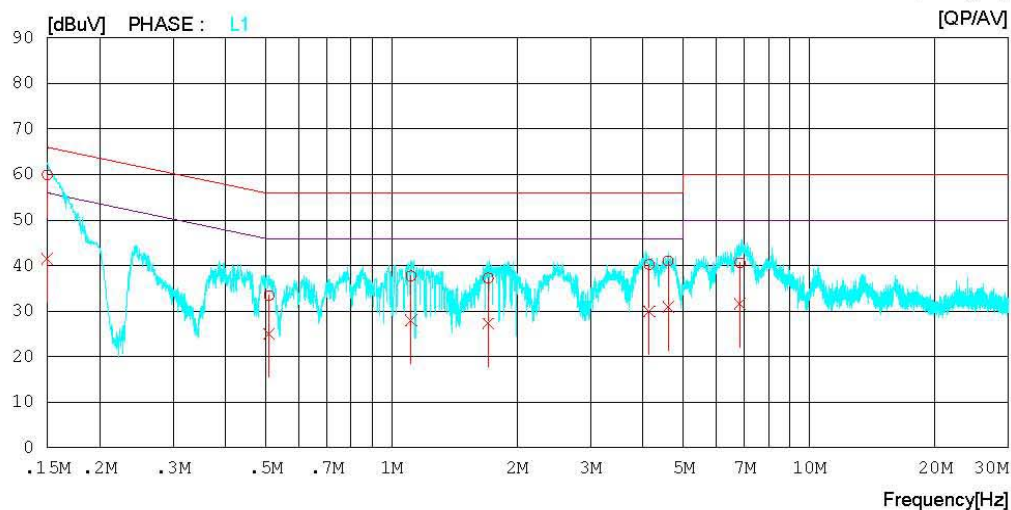
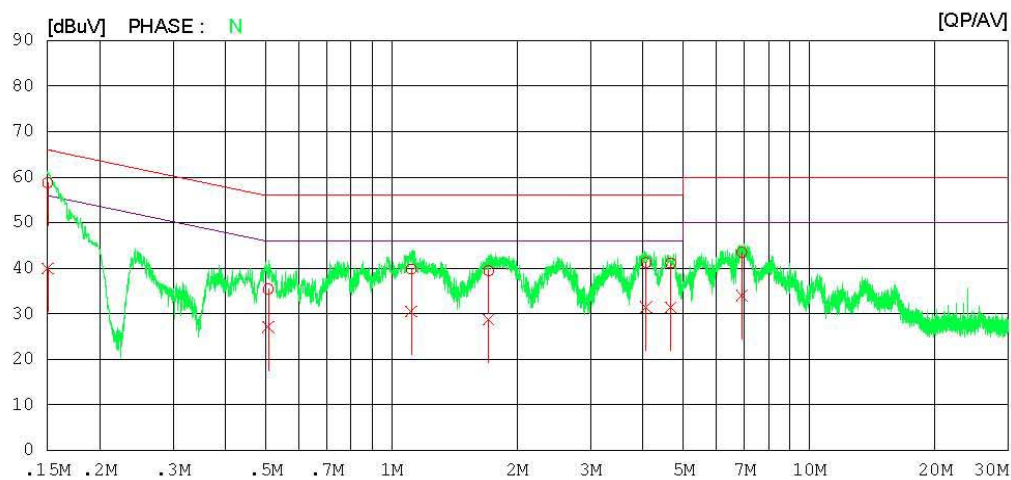
Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No.	: HSTND-3951-G, LD4735	Reference No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 25 °C 31 % R.H
Test Condition	: DISPLAY	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : DISPLAY

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % 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	58.6	39.8	0.1	58.7	39.9	66.0	56.0	7.3	16.1	N
2	0.50707	35.3	27.0	0.1	35.4	27.1	56.0	46.0	20.6	18.9	N
3	1.11520	39.6	30.3	0.2	39.8	30.5	56.0	46.0	16.2	15.5	N
4	1.70840	39.1	28.4	0.3	39.4	28.7	56.0	46.0	16.6	17.3	N
5	4.07140	40.8	31.1	0.4	41.2	31.5	56.0	46.0	14.8	14.5	N
6	4.66260	40.6	30.9	0.5	41.1	31.4	56.0	46.0	14.9	14.6	N
7	6.89740	43.0	33.4	0.5	43.5	33.9	60.0	50.0	16.5	16.1	N
8	0.15000	59.8	41.5	0.1	59.9	41.6	66.0	56.0	6.1	14.4	L1
9	0.50928	33.3	24.9	0.1	33.4	25.0	56.0	46.0	22.6	21.0	L1
10	1.11400	37.6	27.8	0.2	37.8	28.0	56.0	46.0	18.2	18.0	L1
11	1.70480	37.0	27.0	0.3	37.3	27.3	56.0	46.0	18.7	18.7	L1
12	4.13740	39.8	29.5	0.4	40.2	29.9	56.0	46.0	15.8	16.1	L1
13	4.59860	40.5	30.4	0.5	41.0	30.9	56.0	46.0	15.0	15.1	L1
14	6.83100	40.1	31.1	0.5	40.6	31.6	60.0	50.0	19.4	18.4	L1

< DSUB MODE >



Results of Conducted Emission

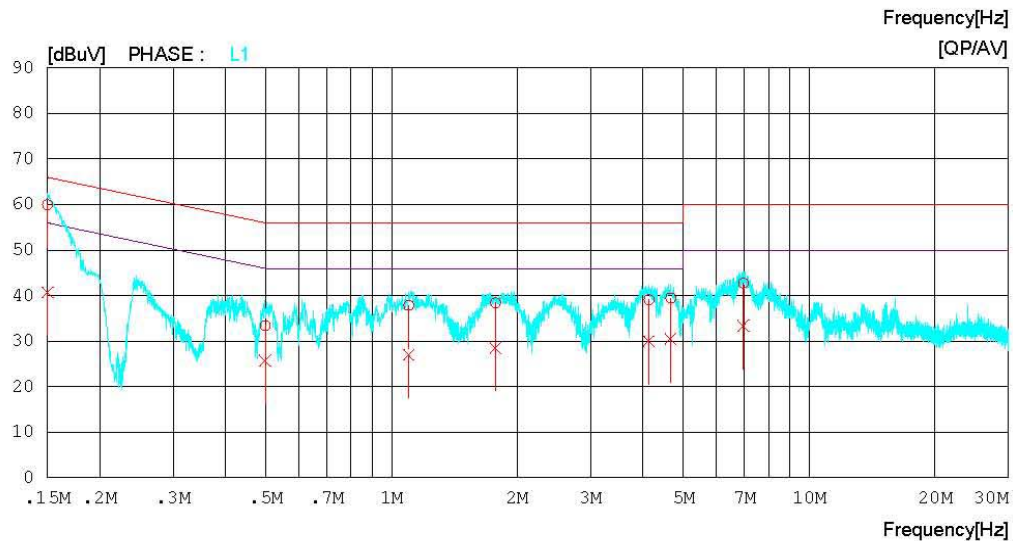
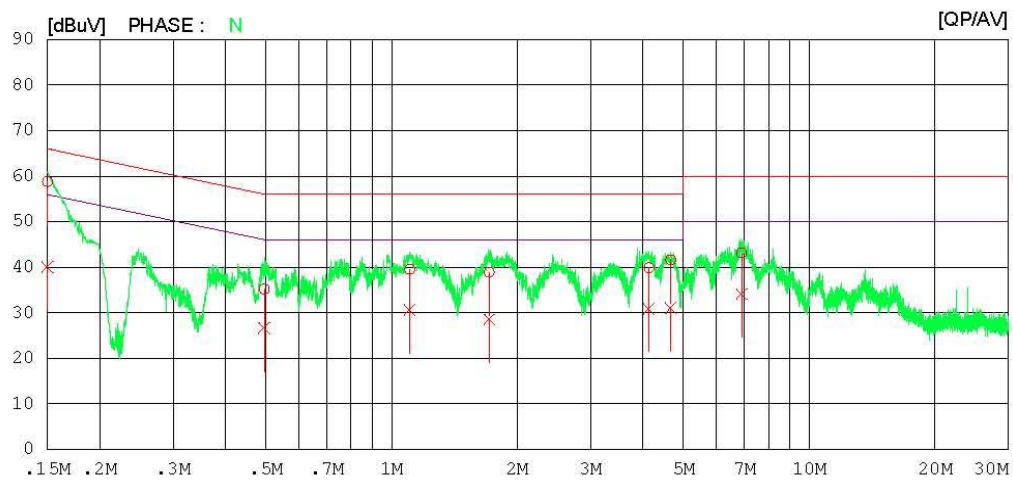
Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % 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	0.15006	58.7	40.0	0.1	58.8	40.1	66.0	56.0	7.2	15.9	N
2	0.49614	35.1	26.5	0.1	35.2	26.6	56.1	46.1	20.9	19.5	N
3	1.10600	39.3	30.4	0.2	39.5	30.6	56.0	46.0	16.5	15.4	N
4	1.71440	38.6	28.2	0.3	38.9	28.5	56.0	46.0	17.1	17.5	N
5	4.13560	39.5	30.5	0.4	39.9	30.9	56.0	46.0	16.1	15.1	N
6	4.66400	41.1	30.5	0.5	41.6	31.0	56.0	46.0	14.4	15.0	N
7	6.89700	42.6	33.6	0.5	43.1	34.1	60.0	50.0	16.9	15.9	N
8	0.15006	59.9	40.6	0.1	60.0	40.7	66.0	56.0	6.0	15.3	L1
9	0.49835	33.4	25.7	0.1	33.5	25.8	56.0	46.0	22.5	20.2	L1
10	1.10000	37.7	26.8	0.2	37.9	27.0	56.0	46.0	18.1	19.0	L1
11	1.77520	38.1	28.2	0.3	38.4	28.5	56.0	46.0	17.6	17.5	L1
12	4.13600	38.7	29.6	0.4	39.1	30.0	56.0	46.0	16.9	16.0	L1
13	4.66200	39.0	30.0	0.5	39.5	30.5	56.0	46.0	16.5	15.5	L1
14	6.96260	42.3	32.9	0.5	42.8	33.4	60.0	50.0	17.2	16.6	L1

< HDMI MODE >



Results of Conducted Emission

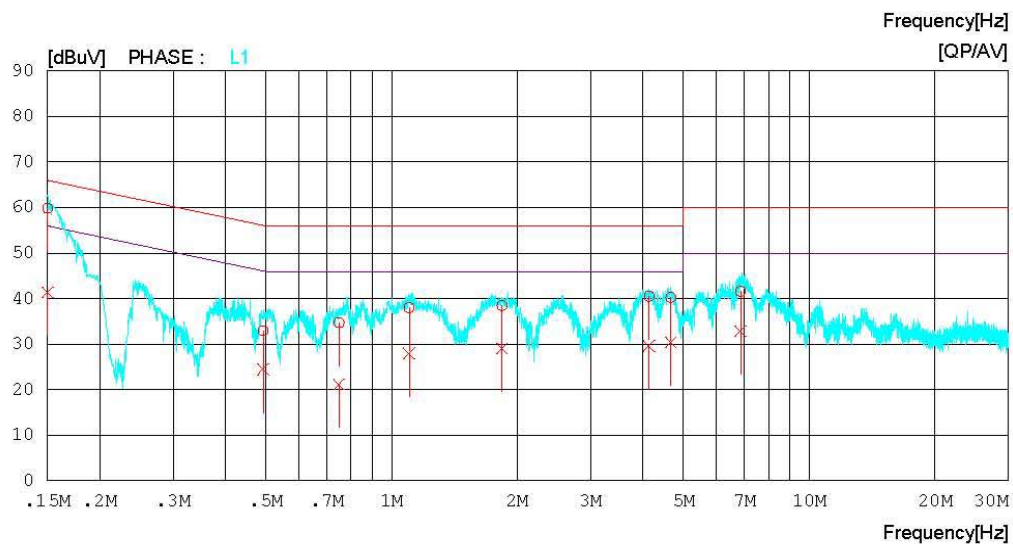
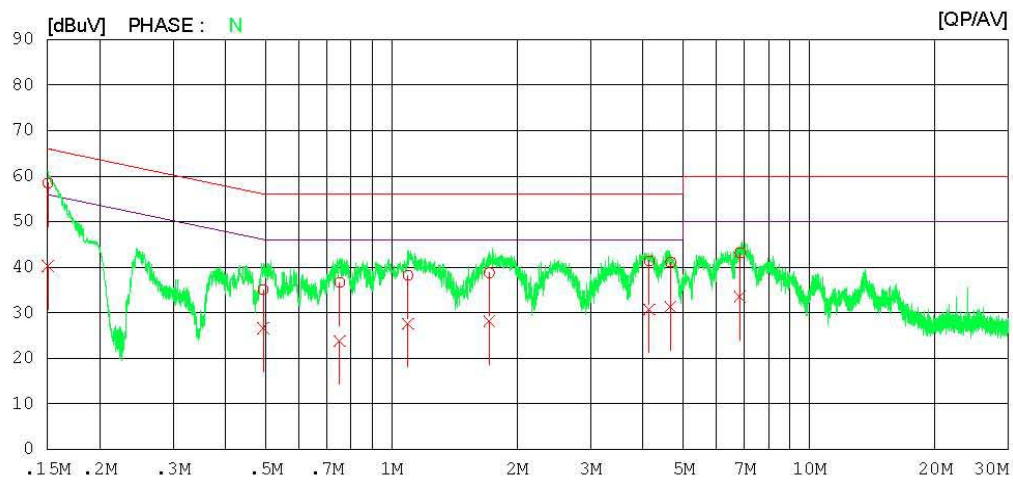
Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : HDMI
Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % 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	0.15057	58.4	40.2	0.1	58.5	40.3	66.0	56.0	7.5	15.7	N
2	0.49302	34.9	26.5	0.1	35.0	26.6	56.1	46.1	21.1	19.5	N
3	0.75135	36.4	23.6	0.2	36.6	23.8	56.0	46.0	19.4	22.2	N
4	1.09440	38.0	27.4	0.2	38.2	27.6	56.0	46.0	17.8	18.4	N
5	1.71440	38.5	27.9	0.3	38.8	28.2	56.0	46.0	17.2	17.8	N
6	4.13980	41.0	30.4	0.4	41.4	30.8	56.0	46.0	14.6	15.2	N
7	4.66300	40.6	30.8	0.5	41.1	31.3	56.0	46.0	14.9	14.7	N
8	6.83380	42.7	33.0	0.5	43.2	33.5	60.0	50.0	16.8	16.5	N
9	0.15014	59.7	41.3	0.1	59.8	41.4	66.0	56.0	6.2	14.6	L1
10	0.49314	32.8	24.4	0.1	32.9	24.5	56.1	46.1	23.2	21.6	L1
11	0.74902	34.5	21.0	0.2	34.7	21.2	56.0	46.0	21.3	24.8	L1
12	1.10200	37.8	27.8	0.2	38.0	28.0	56.0	46.0	18.0	18.0	L1
13	1.83880	38.2	28.8	0.3	38.5	29.1	56.0	46.0	17.5	16.9	L1
14	4.13940	40.1	29.2	0.4	40.5	29.6	56.0	46.0	15.5	16.4	L1
15	4.66300	39.8	29.9	0.5	40.3	30.4	56.0	46.0	15.7	15.6	L1
16	6.85060	41.1	32.4	0.5	41.6	32.9	60.0	50.0	18.4	17.1	L1

< USB MODE >



Results of Conducted Emission

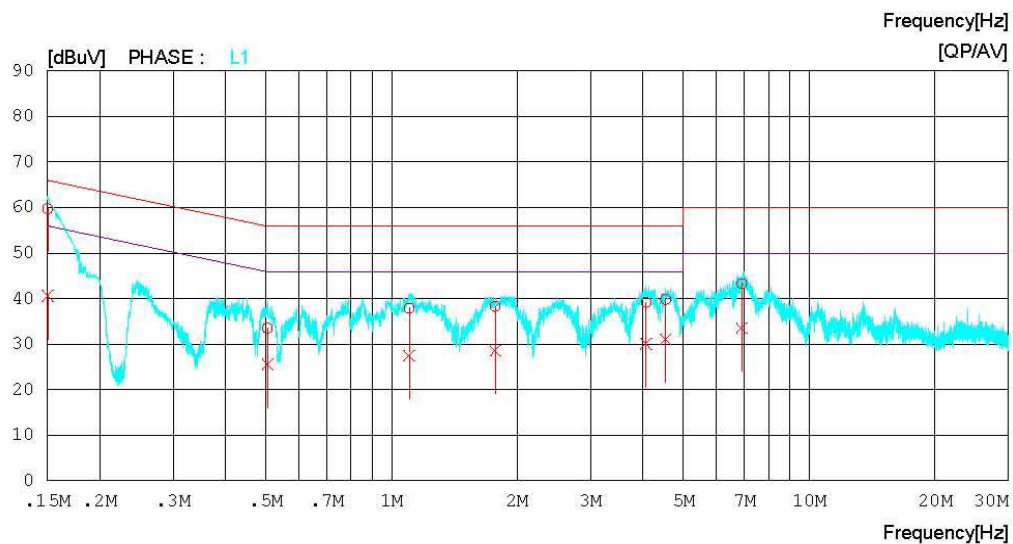
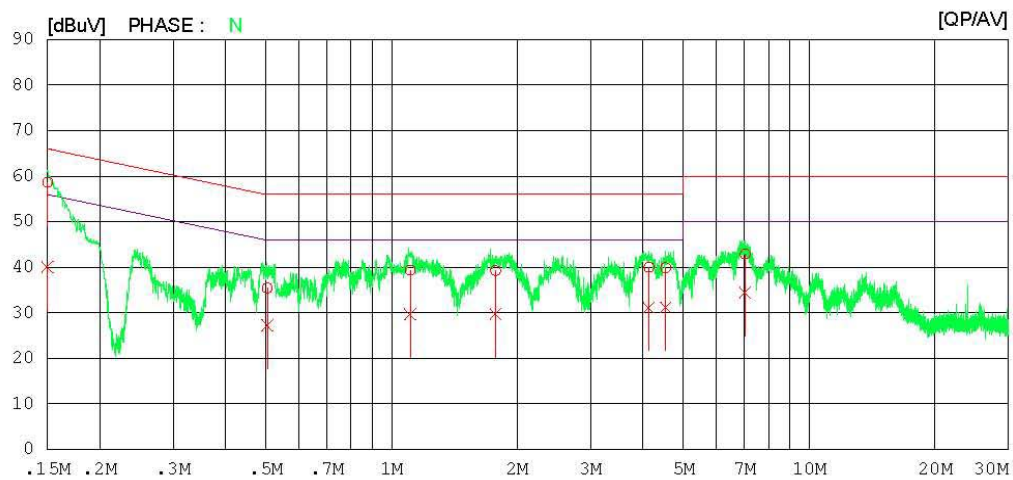
Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % 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	0.15018	58.6	39.9	0.1	58.7	40.0	66.0	56.0	7.3	16.0	N
2	0.50446	35.3	27.1	0.1	35.4	27.2	56.0	46.0	20.6	18.8	N
3	1.10900	39.1	29.5	0.2	39.3	29.7	56.0	46.0	16.7	16.3	N
4	1.77600	38.9	29.4	0.3	39.2	29.7	56.0	46.0	16.8	16.3	N
5	4.13540	39.6	30.7	0.4	40.0	31.1	56.0	46.0	16.0	14.9	N
6	4.53220	39.5	30.7	0.4	39.9	31.1	56.0	46.0	16.1	14.9	N
7	7.02820	42.4	33.9	0.5	42.9	34.4	60.0	50.0	17.1	15.6	N
8	0.15037	59.6	40.5	0.1	59.7	40.6	66.0	56.0	6.3	15.4	L1
9	0.50457	33.4	25.5	0.1	33.5	25.6	56.0	46.0	22.5	20.4	L1
10	1.10180	37.7	27.2	0.2	37.9	27.4	56.0	46.0	18.1	18.6	L1
11	1.77200	38.0	28.3	0.3	38.3	28.6	56.0	46.0	17.7	17.4	L1
12	4.07020	38.8	29.7	0.4	39.2	30.1	56.0	46.0	16.8	15.9	L1
13	4.53180	39.4	30.6	0.4	39.8	31.0	56.0	46.0	16.2	15.0	L1
14	6.89780	42.8	33.0	0.5	43.3	33.5	60.0	50.0	16.7	16.5	L1

< VOE MODE >



Results of Conducted Emission

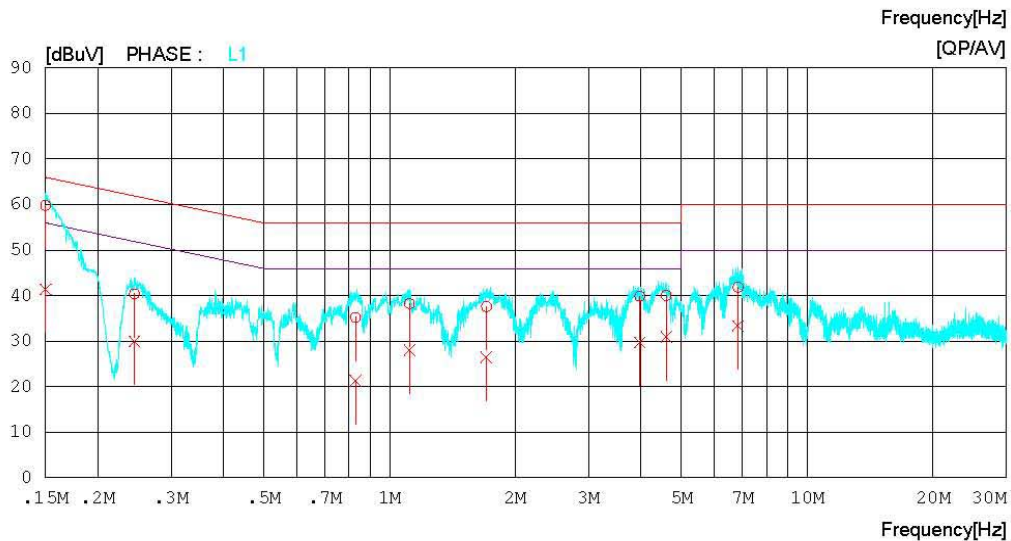
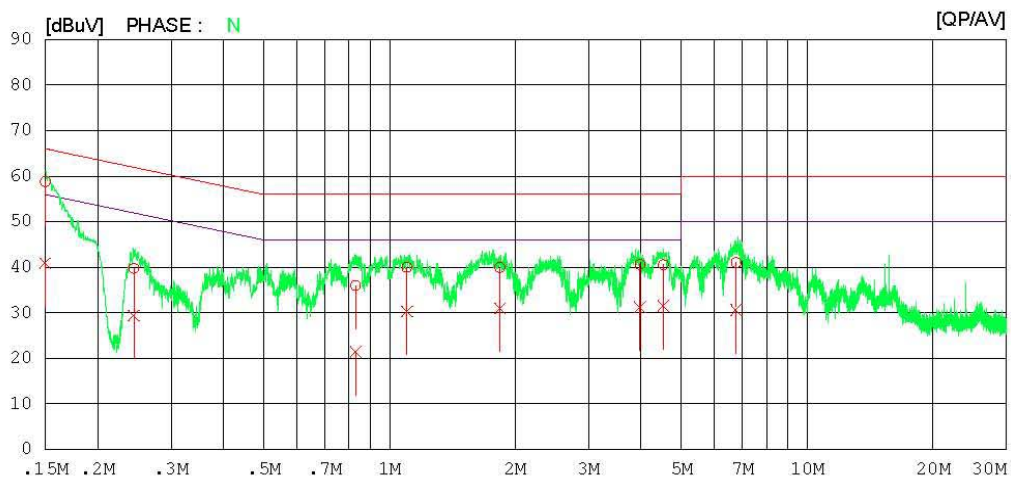
Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2014-01-14

Model No. : HSTND-3951-G, LD4735
Type :
Serial No. :
Test Condition : VOE
Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 25 °C 31 % 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	0.15000	58.7	40.8	0.1	58.8	40.9	66.0	56.0	7.2	15.1	N
2	0.24418	39.6	29.3	0.1	39.7	29.4	62.0	52.0	22.3	22.6	N
3	0.83011	35.8	21.3	0.2	36.0	21.5	56.0	46.0	20.0	24.5	N
4	1.10040	39.8	30.1	0.2	40.0	30.3	56.0	46.0	16.0	15.7	N
5	1.83800	39.7	30.7	0.3	40.0	31.0	56.0	46.0	16.0	15.0	N
6	3.97560	40.2	30.8	0.4	40.6	31.2	56.0	46.0	15.4	14.8	N
7	4.52560	40.1	31.1	0.4	40.5	31.5	56.0	46.0	15.5	14.5	N
8	6.76520	40.5	30.1	0.5	41.0	30.6	60.0	50.0	19.0	19.4	N
9	0.15022	59.7	41.3	0.1	59.8	41.4	66.0	56.0	6.2	14.6	L1
10	0.24517	40.3	29.9	0.1	40.4	30.0	61.9	51.9	21.5	21.9	L1
11	0.82935	35.0	21.1	0.2	35.2	21.3	56.0	46.0	20.8	24.7	L1
12	1.11640	38.0	27.8	0.2	38.2	28.0	56.0	46.0	17.8	18.0	L1
13	1.70680	37.3	26.2	0.3	37.6	26.5	56.0	46.0	18.4	19.5	L1
14	3.97480	39.5	29.3	0.4	39.9	29.7	56.0	46.0	16.1	16.3	L1
15	4.59680	39.6	30.4	0.5	40.1	30.9	56.0	46.0	15.9	15.1	L1
16	6.83000	41.3	32.9	0.5	41.8	33.4	60.0	50.0	18.2	16.6	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**.

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

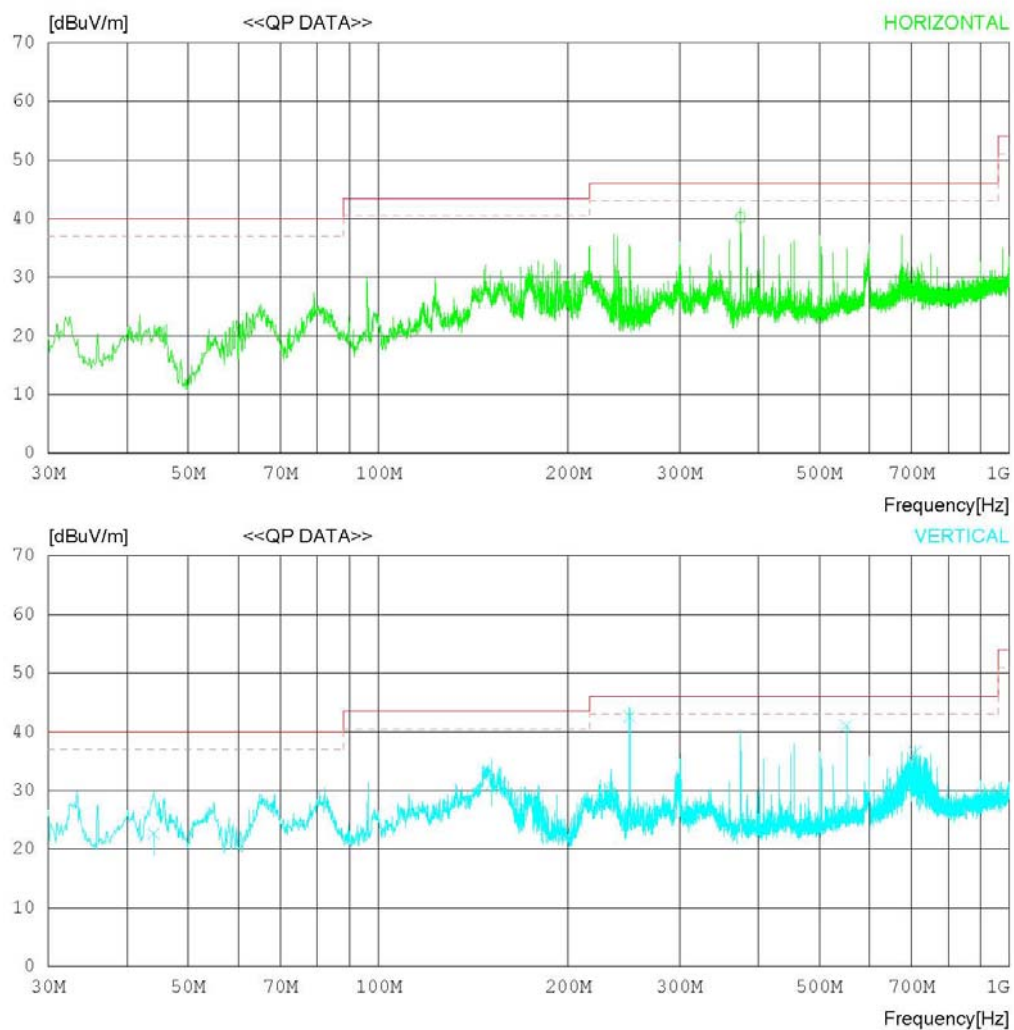
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : DISPLAY

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 33 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 'C 33 % R.H
Test Condition	: DISPLAY	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	374.947	43.3	15.5	5.0	23.6	40.2	46.0	5.8	100	358
----- Vertical -----										
2	44.065	31.1	13.7	2.1	24.2	22.7	40.0	17.3	100	138
3	151.369	41.8	10.4	3.1	24.2	31.1	43.5	12.4	100	0
4	249.942	48.5	12.7	3.9	23.4	41.7	46.0	4.3	100	357
5	551.855	39.6	18.0	6.4	23.0	41.0	46.0	5.0	100	103
6	708.909	33.2	18.7	7.4	22.8	36.5	46.0	9.5	100	357

< (1 ~ 6) GHz_Peak _ DISPLAY MODE >

RADIATED EMISSION

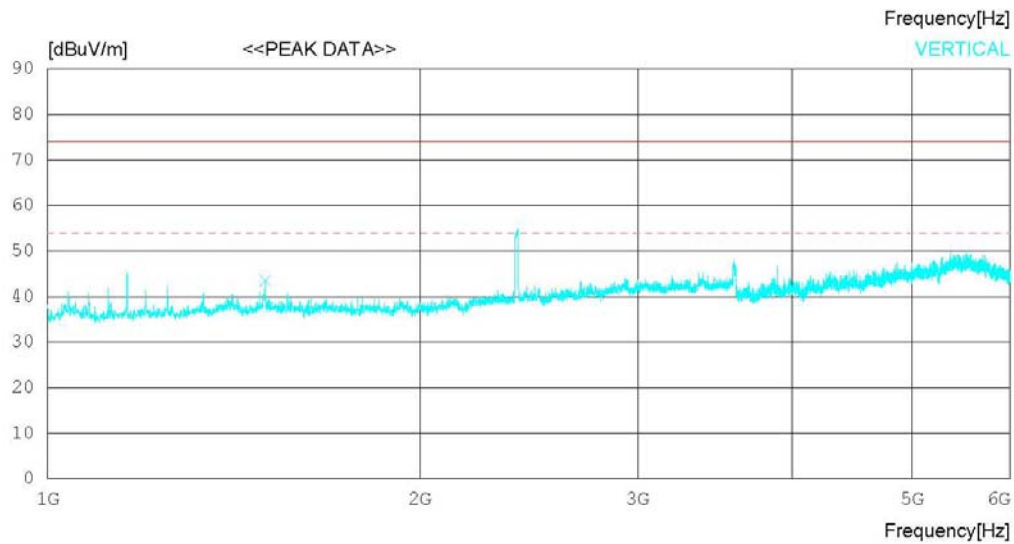
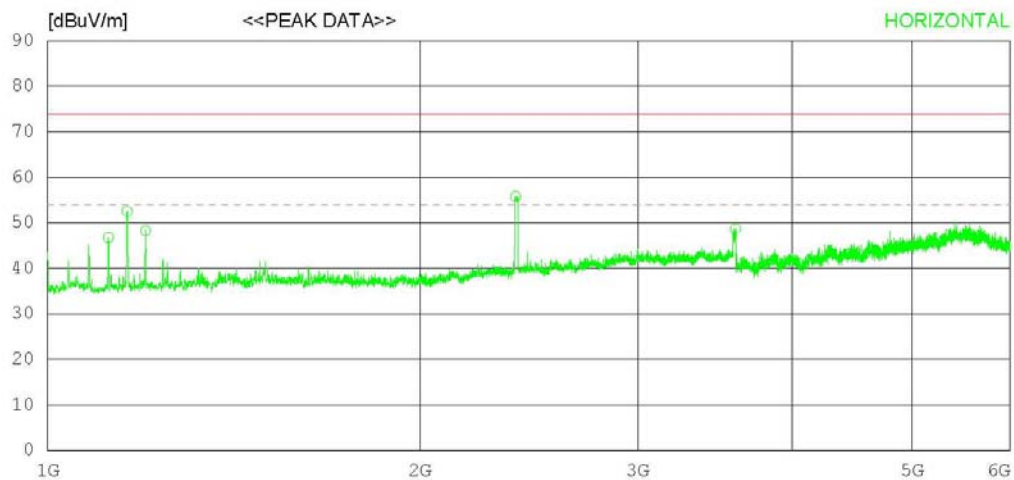
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : DISPLAY

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 31 % R.H
Test Condition	: DISPLAY	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	1120.000	60.1	24.1	3.5	40.9	46.8	74.0	27.2	100	358
2	1159.375	65.6	24.1	3.6	40.8	52.5	74.0	21.5	100	358
3	1200.000	61.2	24.2	3.6	40.7	48.3	74.0	25.7	100	206
4	2390.000	63.2	26.8	5.1	39.3	55.8	74.0	18.2	100	358
5	3598.750	52.2	29.1	6.3	38.9	48.7	74.0	25.3	100	358
----- Vertical -----										
6	1500.000	54.8	24.7	4.1	40.1	43.5	74.0	30.5	100	1

< (1 ~ 6) GHz_Average _ DISPLAY MODE >

RADIATED EMISSION

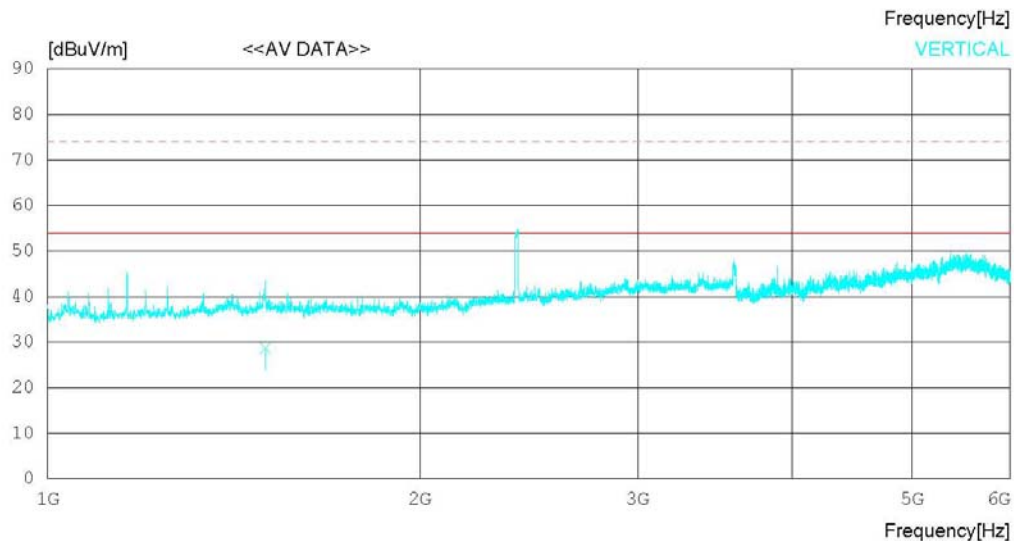
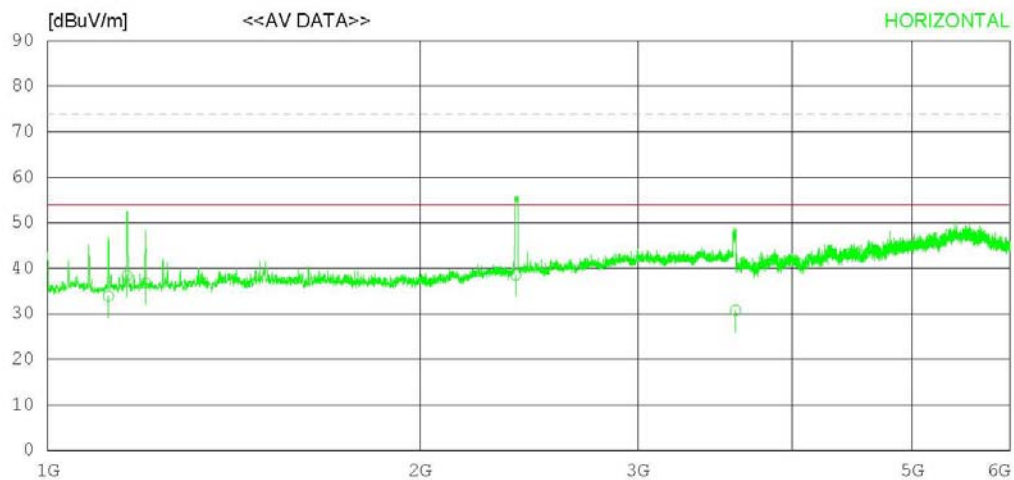
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : DISPLAY

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 'C 31 % R.H
Test Condition	: DISPLAY	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	1120.000	47.2	24.1	3.5	40.9	33.9	54.0	20.1	100	358
2	1159.375	51.5	24.1	3.6	40.8	38.4	54.0	15.6	100	358
3	1200.000	49.7	24.2	3.6	40.7	36.8	54.0	17.2	100	206
4	2390.000	45.9	26.8	5.1	39.3	38.5	54.0	15.5	100	358
5	3598.750	34.3	29.1	6.3	38.9	30.8	54.0	23.2	100	358
----- Vertical -----										
6	1500.000	40.0	24.7	4.1	40.1	28.7	54.0	25.3	100	1

< 30 MHz ~ 1 GHz _ DSUB MODE >

RADIATED EMISSION

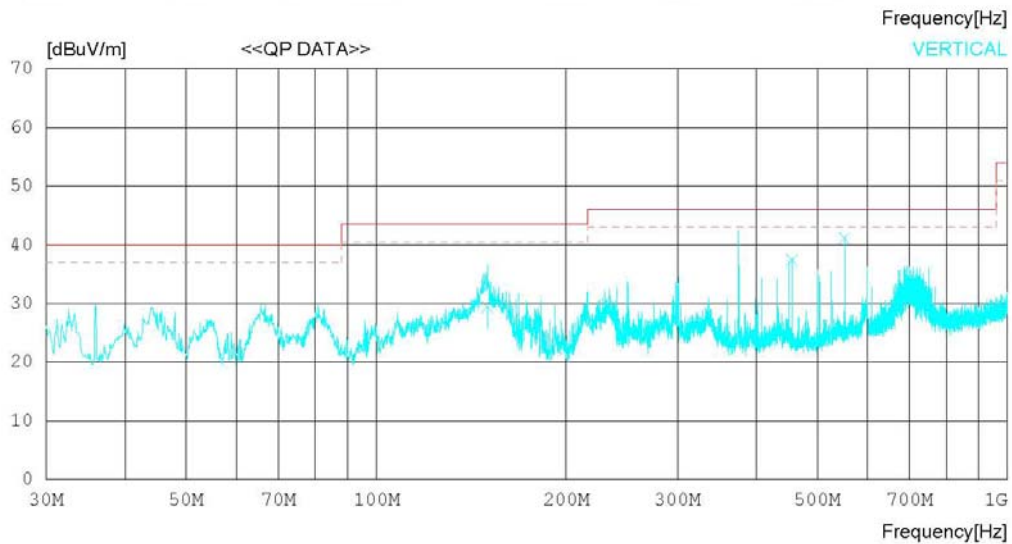
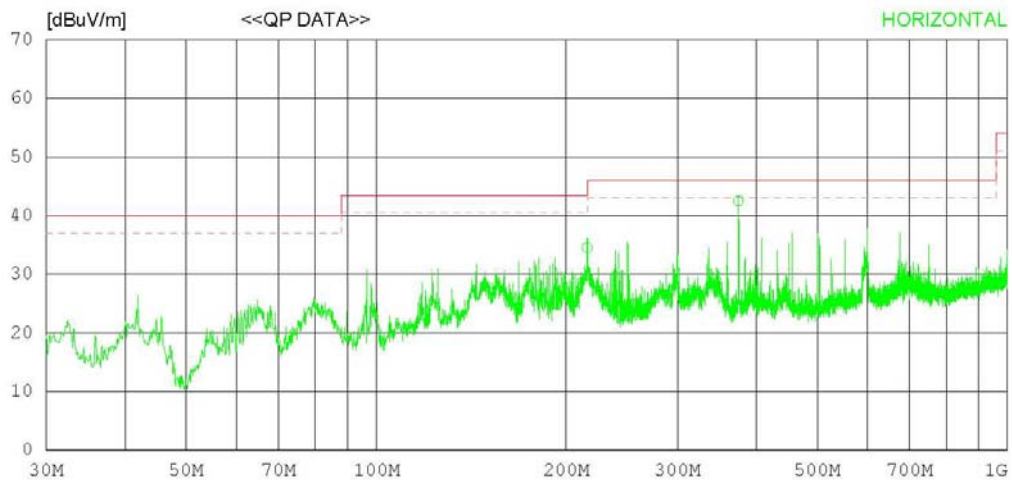
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 33 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 33 % 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	215.872	44.2	10.6	3.6	23.9	34.5	43.5	9.0	100	33
2	374.947	44.6	15.5	5.0	23.6	41.5	46.0	4.5	100	137
----- Vertical -----										
3	149.914	40.1	10.4	3.1	24.2	29.4	43.5	14.1	100	358
4	455.940	38.2	16.8	5.6	23.2	37.4	46.0	8.6	100	138
5	551.855	39.8	18.0	6.4	23.0	41.2	46.0	4.8	100	358
6	699.449	31.4	18.5	7.4	22.8	34.5	46.0	11.5	100	0

< (1 ~ 6) GHz_Peak _ DSUB MODE >

RADIATED EMISSION

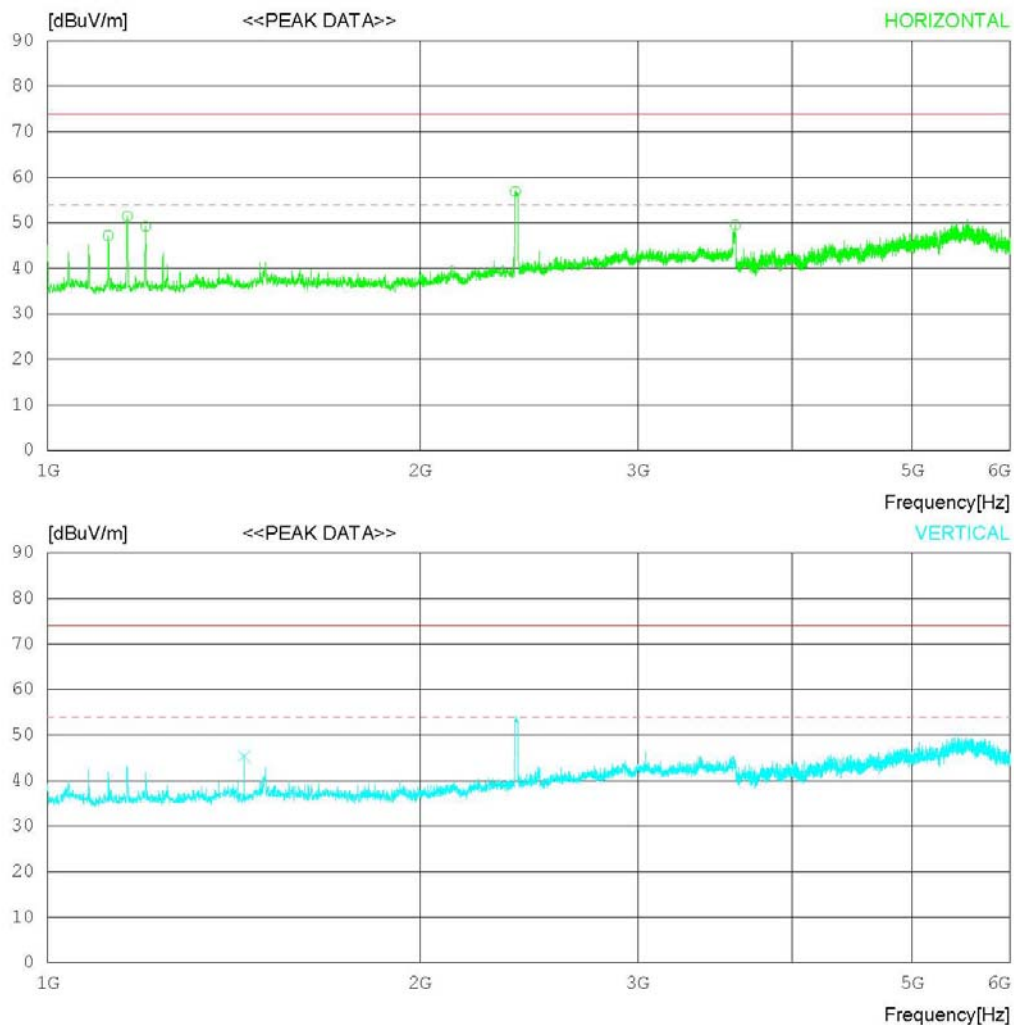
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 31 % 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 [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	1119.375	60.5	24.1	3.5	40.9	47.2	74.0	26.8	100	359
2	1160.000	64.5	24.1	3.6	40.8	51.4	74.0	22.6	100	359
3	1200.000	62.1	24.2	3.6	40.7	49.2	74.0	24.8	100	359
4	2388.750	64.3	26.8	5.1	39.3	56.9	74.0	17.1	100	359
5	3596.875	53.0	29.1	6.3	38.9	49.5	74.0	24.5	100	359
----- Vertical -----										
6	1441.875	57.0	24.6	4.0	40.2	45.4	74.0	28.6	100	0

< (1 ~ 6) GHz_Average _ DSUB MODE >

RADIATED EMISSION

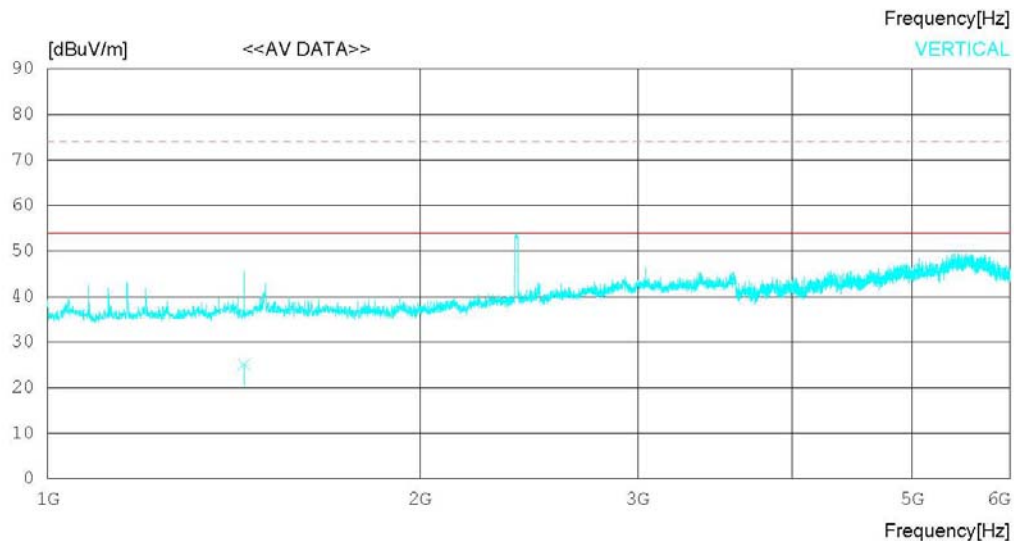
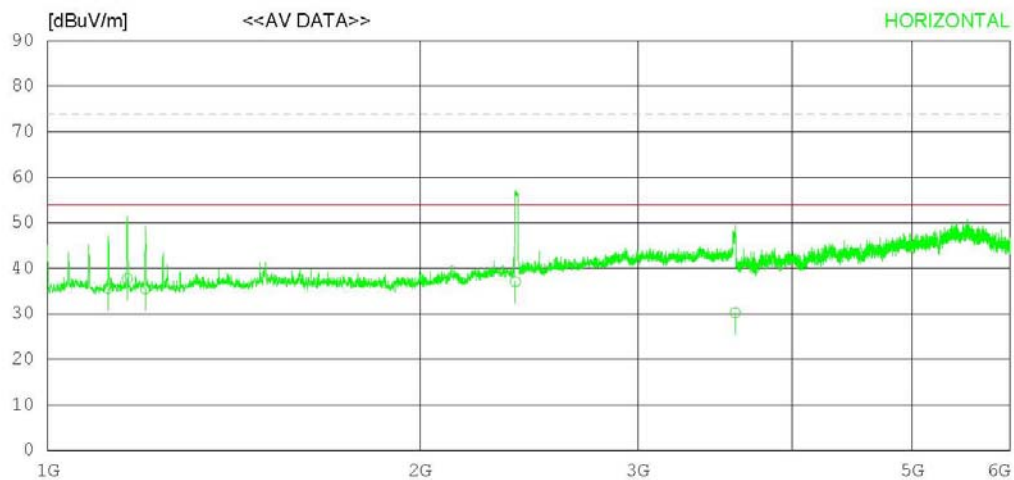
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 'C 31 % 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	1119.375	48.9	24.1	3.5	40.9	35.6	54.0	18.4	100	359
2	1160.000	50.8	24.1	3.6	40.8	37.7	54.0	16.3	100	359
3	1200.000	48.4	24.2	3.6	40.7	35.5	54.0	18.5	100	359
4	2388.750	44.5	26.8	5.1	39.3	37.1	54.0	16.9	100	359
5	3596.875	33.8	29.1	6.3	38.9	30.3	54.0	23.7	100	359
----- Vertical -----										
6	1441.875	36.7	24.6	4.0	40.2	25.1	54.0	28.9	100	0

< 30 MHz ~ 1 GHz _ HDMI MODE >

RADIATED EMISSION

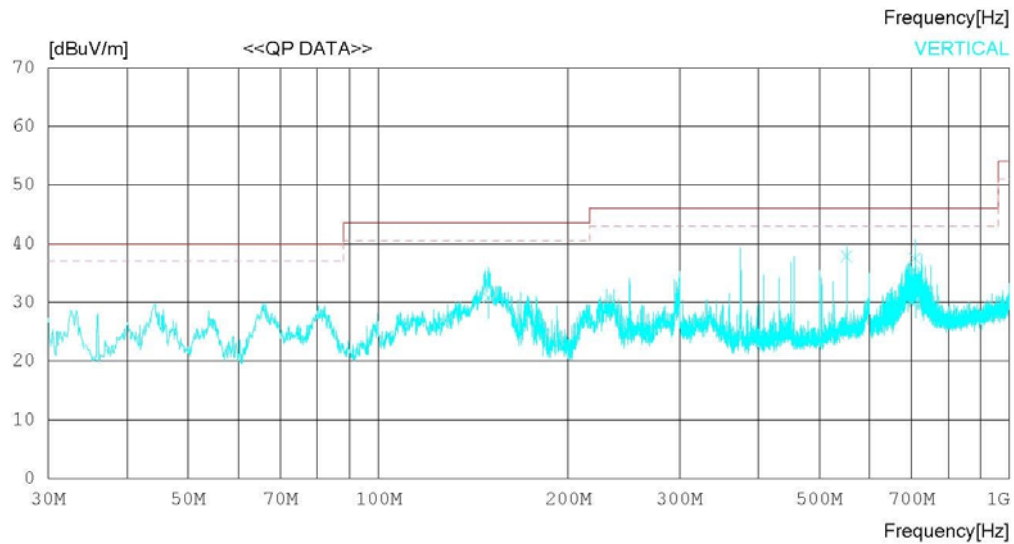
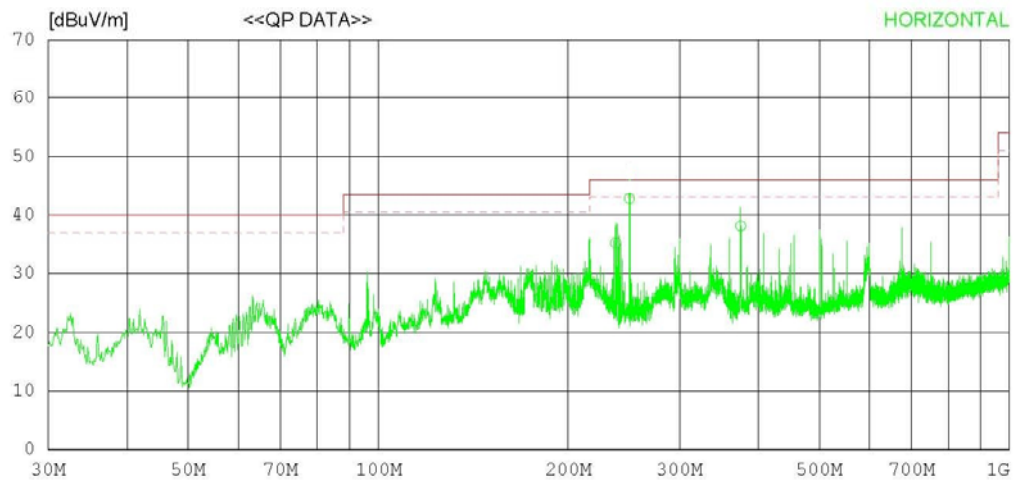
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 33 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 33 % 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	237.696	43.2	12.0	3.8	23.8	35.2	46.0	10.8	100	359
2	249.942	48.7	12.7	3.9	23.8	41.5	46.0	4.5	201	0
3	375.068	41.2	15.5	5.0	23.6	38.1	46.0	7.9	100	131
----- Vertical -----										
4	149.550	41.6	10.4	3.1	24.2	30.9	43.5	12.6	100	359
5	551.734	36.5	18.0	6.4	23.0	37.9	46.0	8.1	100	111
6	709.758	34.2	18.7	7.4	22.8	37.5	46.0	8.5	100	359

< (1 ~ 6) GHz_Peak _ HDMI MODE >

RADIATED EMISSION

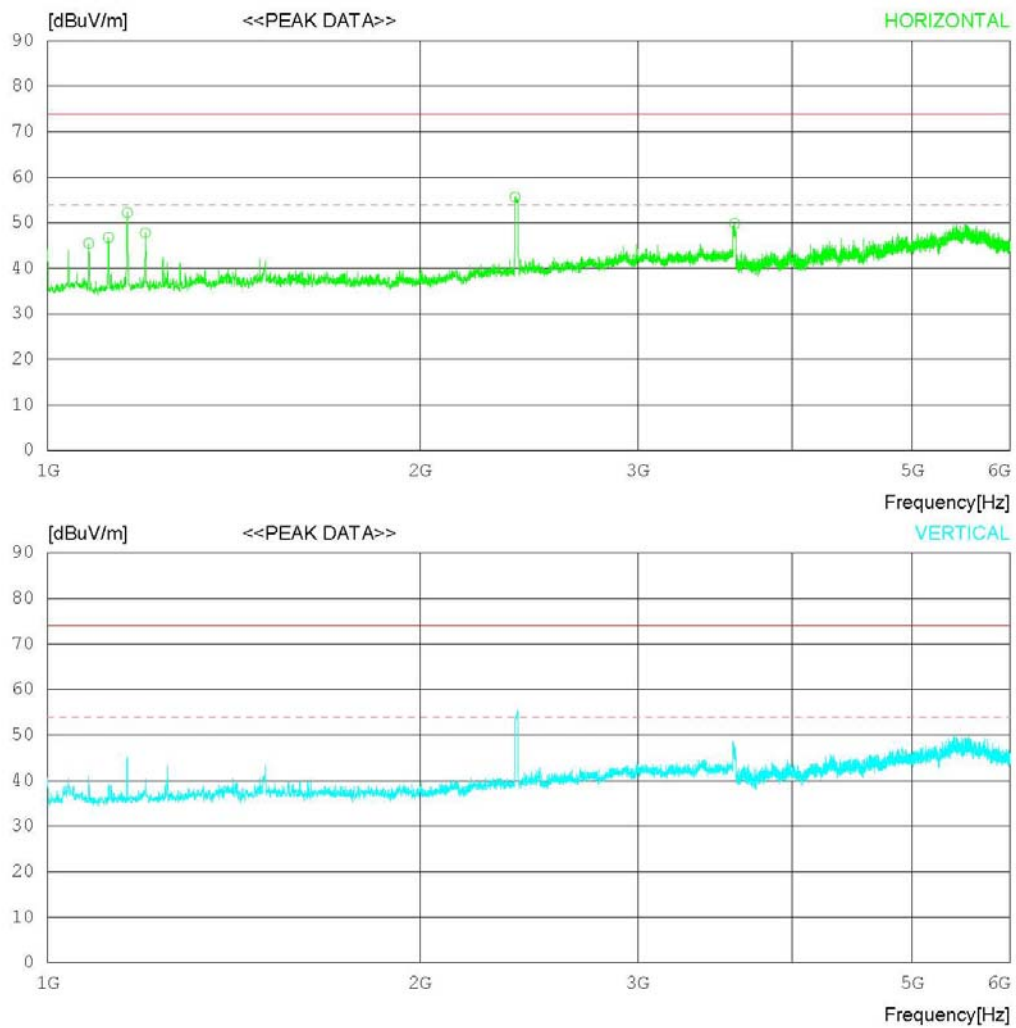
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 'C 31 % 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 [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	1080.000	59.0	24.0	3.5	41.0	45.5	74.0	28.5	100	137
2	1120.000	60.1	24.1	3.5	40.9	46.8	74.0	27.2	100	219
3	1160.000	65.3	24.1	3.6	40.8	52.2	74.0	21.8	100	357
4	1199.375	60.7	24.2	3.6	40.7	47.8	74.0	26.2	100	357
5	2387.500	63.1	26.8	5.1	39.3	55.7	74.0	18.3	100	137
6	3592.500	53.3	29.1	6.3	38.9	49.8	74.0	24.2	100	127

< (1 ~ 6) GHz_Average _ HDMI MODE >

RADIATED EMISSION

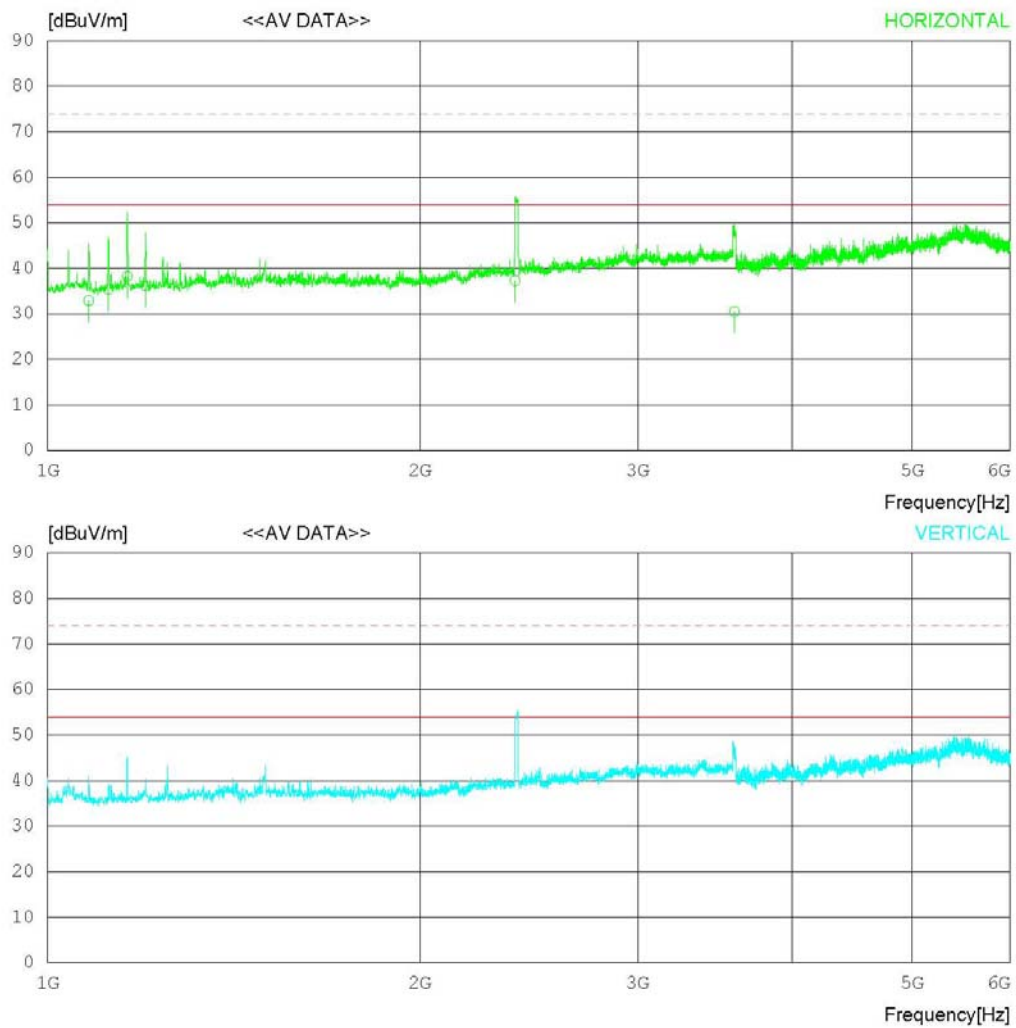
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 'C 31 % 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	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
		[dBuV]	[dB]							
----- Horizontal -----										
1	1080.000	46.4	24.0	3.5	41.0	32.9	54.0	21.1	100	137
2	1120.000	48.7	24.1	3.5	40.9	35.4	54.0	18.6	100	219
3	1160.000	51.3	24.1	3.6	40.8	38.2	54.0	15.8	100	357
4	1199.375	49.1	24.2	3.6	40.7	36.2	54.0	17.8	100	357
5	2387.500	44.7	26.8	5.1	39.3	37.3	54.0	16.7	100	137
6	3592.500	34.0	29.1	6.3	38.9	30.5	54.0	23.5	100	127

< 30 MHz ~ 1 GHz _ USB MODE >

RADIATED EMISSION

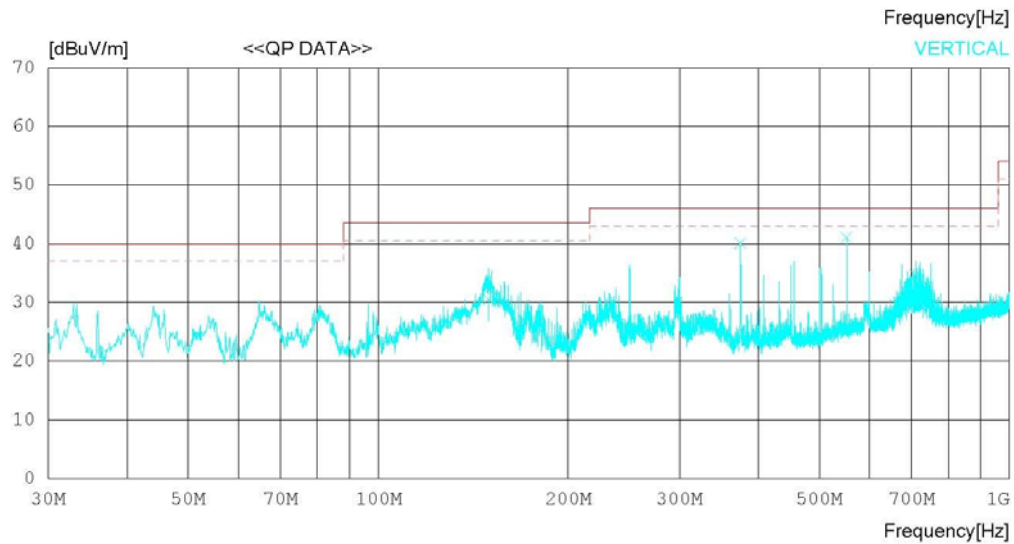
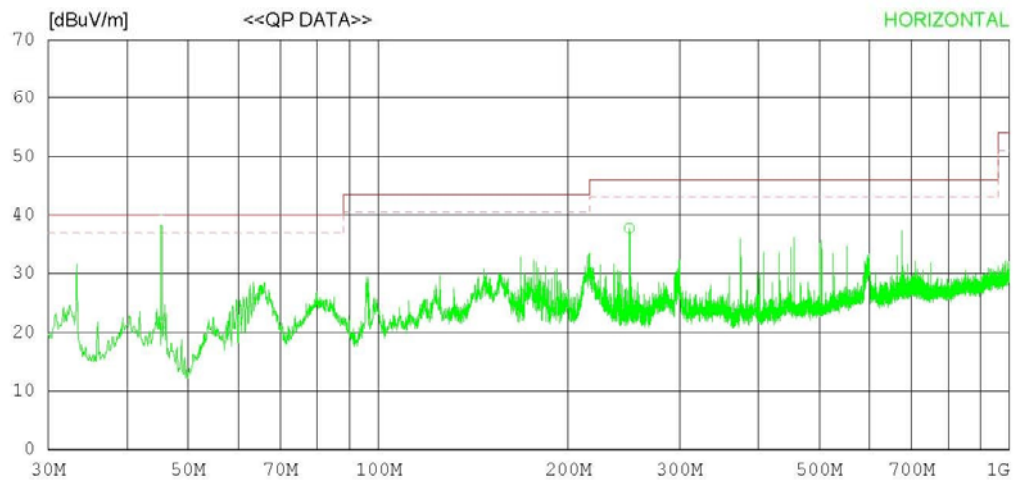
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 33 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 33 % 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	45.278	30.1	13.6	2.1	24.3	21.5	40.0	18.5	100	0
2	249.942	44.9	12.7	3.9	23.8	37.7	46.0	8.3	100	146
----- Vertical -----										
3	149.671	41.2	10.4	3.1	24.2	30.5	43.5	13.0	100	0
4	375.068	43.2	15.5	5.0	23.6	40.1	46.0	5.9	100	200
5	551.855	39.6	18.0	6.4	23.0	41.0	46.0	5.0	100	0
6	710.849	31.3	18.7	7.4	22.8	34.6	46.0	11.4	100	0

< (1 ~ 6) GHz_Peak _ USB MODE >

RADIATED EMISSION

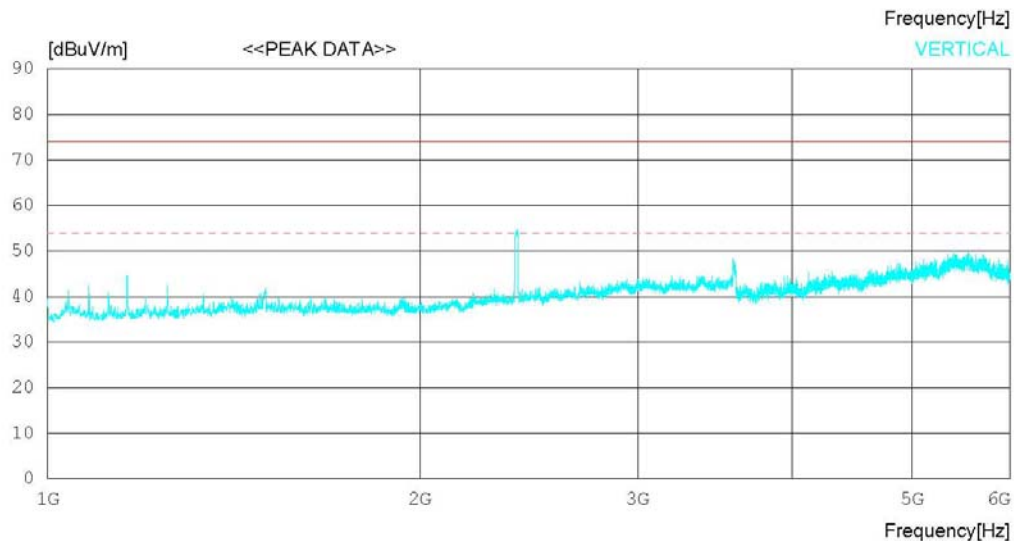
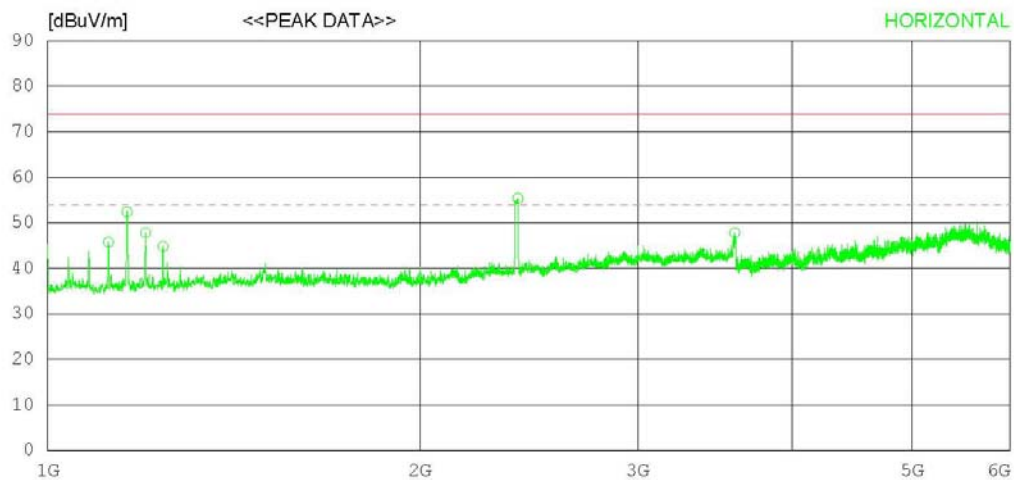
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 31 % 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	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	1120.000	59.0	24.1	3.5	40.9	45.7	74.0	28.3	100	122
2	1159.375	65.5	24.1	3.6	40.8	52.4	74.0	21.6	100	358
3	1200.000	60.7	24.2	3.6	40.7	47.8	74.0	26.2	100	191
4	1240.000	57.5	24.2	3.7	40.6	44.8	74.0	29.2	100	226
5	2400.000	62.7	26.9	5.1	39.3	55.4	74.0	18.6	100	358
6	3593.125	51.3	29.1	6.3	38.9	47.8	74.0	26.2	100	127

< (1 ~ 6) GHz_Average _ USB MODE >

RADIATED EMISSION

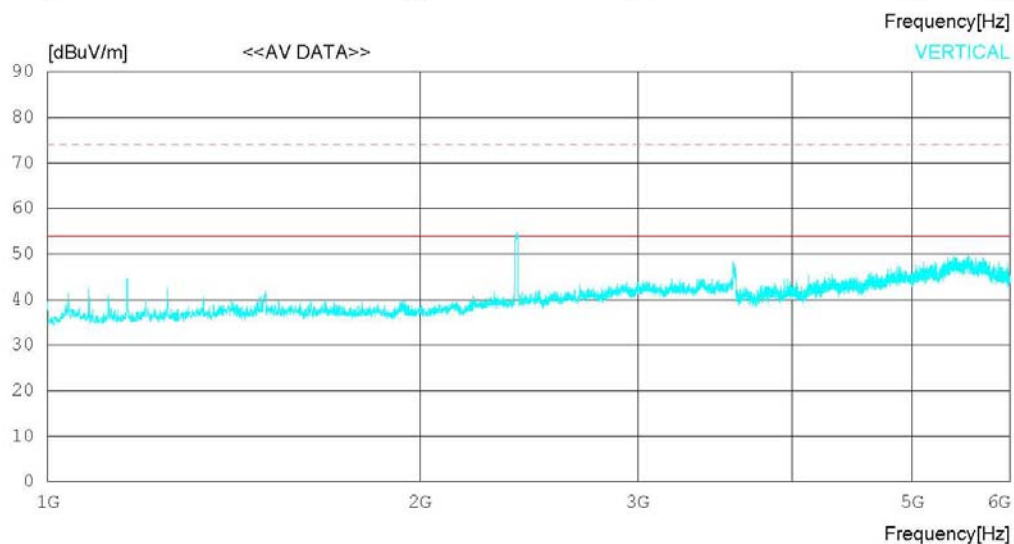
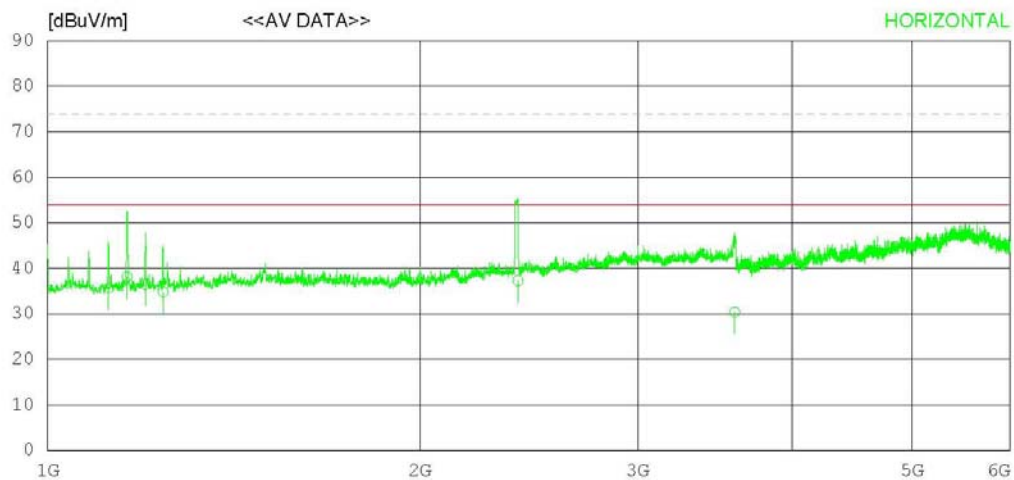
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 18 'C 31 % 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	1120.000	49.0	24.1	3.5	40.9	35.7	54.0	18.3	100	122
2	1159.375	51.2	24.1	3.6	40.8	38.1	54.0	15.9	100	358
3	1200.000	49.4	24.2	3.6	40.7	36.5	54.0	17.5	100	191
4	1240.000	47.5	24.2	3.7	40.6	34.8	54.0	19.2	100	226
5	2400.000	44.6	26.9	5.1	39.3	37.3	54.0	16.7	100	358
6	3593.125	33.9	29.1	6.3	38.9	30.4	54.0	23.6	100	127

< 30 MHz ~ 1 GHz _ VOE MODE >

RADIATED EMISSION

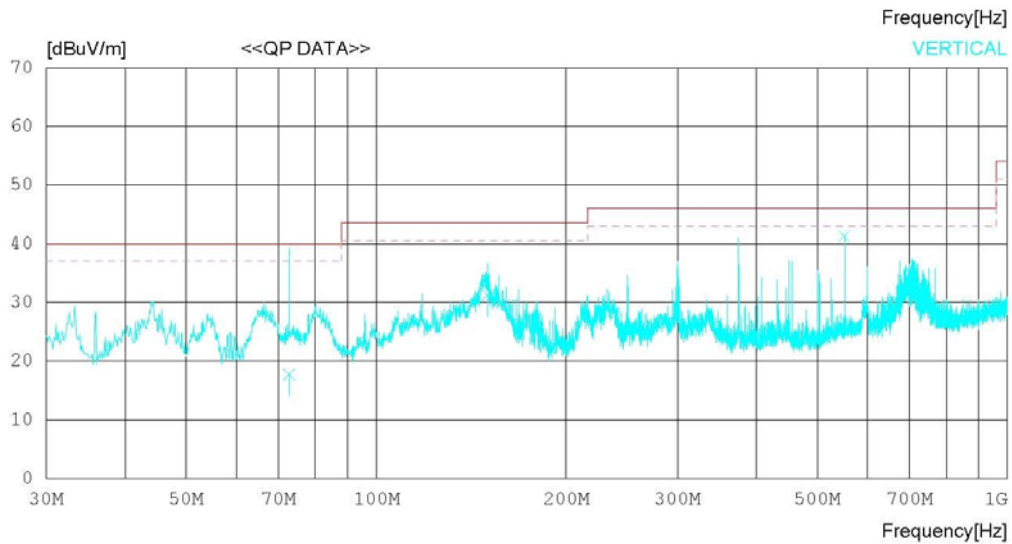
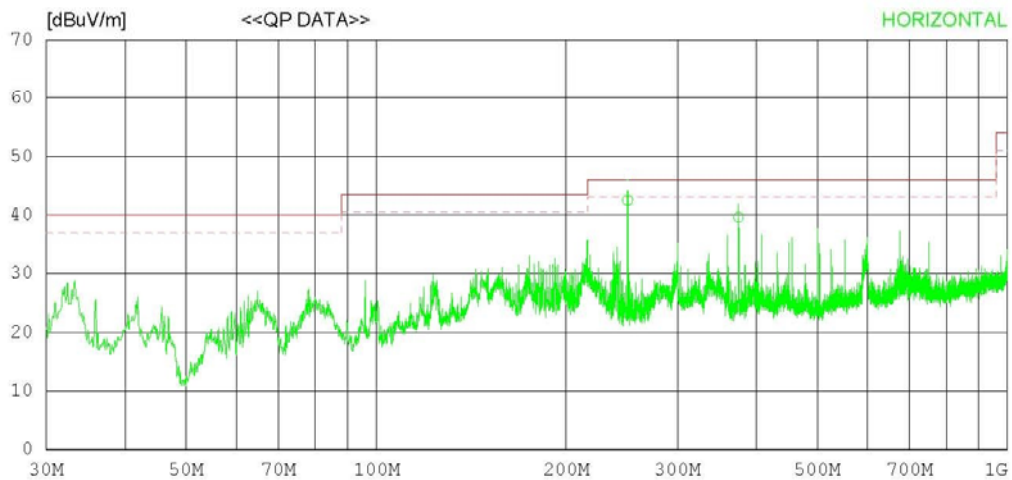
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 °C 33 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 °C 33 % R.H
Test Condition	: VOE	Operator	:

Memo :

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	250.063	48.7	12.7	3.9	23.8	41.5	46.0	4.5	201	139
2	374.947	42.7	15.5	5.0	23.6	39.6	46.0	6.4	100	358
----- Vertical -----										
3	72.801	33.3	6.6	2.2	24.3	17.8	40.0	22.2	100	161
4	149.914	42.0	10.4	3.1	24.2	31.3	43.5	12.2	100	359
5	551.734	39.9	18.0	6.4	23.0	41.3	46.0	4.7	100	103
6	703.937	31.8	18.6	7.4	22.8	35.0	46.0	11.0	100	0

< (1 ~ 6) GHz_Peak _ VOE MODE >

RADIATED EMISSION

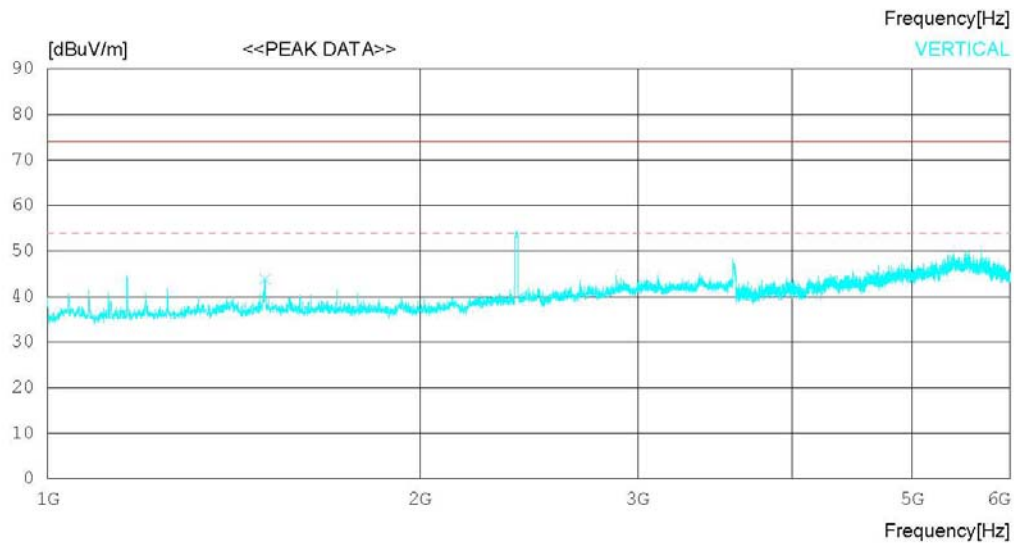
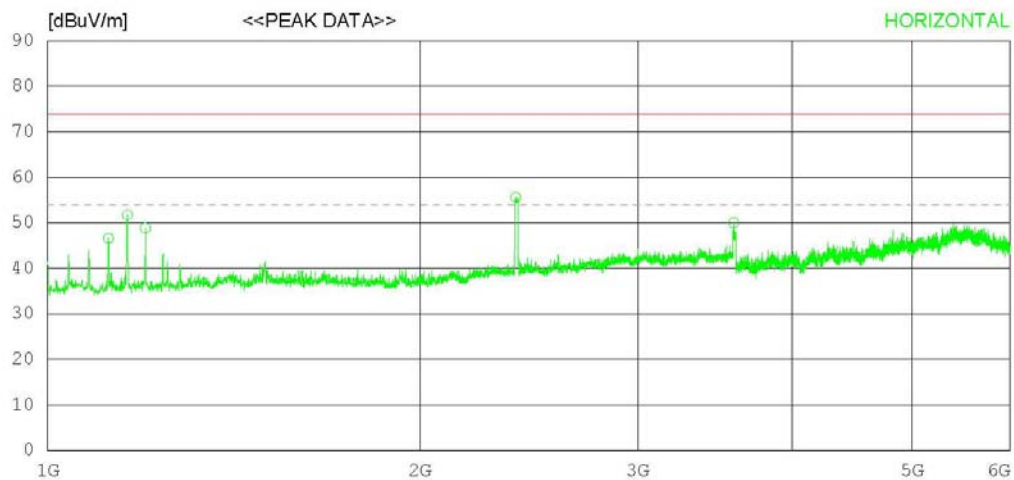
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 18 °C 31 % 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	1120.000	59.9	24.1	3.5	40.9	46.6	74.0	27.4	100	357
2	1160.000	64.8	24.1	3.6	40.8	51.7	74.0	22.3	100	219
3	1199.375	61.8	24.2	3.6	40.7	48.9	74.0	25.1	100	194
4	2390.000	63.0	26.8	5.1	39.3	55.6	74.0	18.4	100	357
5	3585.000	53.5	29.1	6.3	38.9	50.0	74.0	24	100	194
----- Vertical -----										
6	1499.375	55.2	24.6	4.1	40.1	43.8	74.0	30.2	100	39

< (1 ~ 6) GHz_Average _ VOE MODE >

RADIATED EMISSION

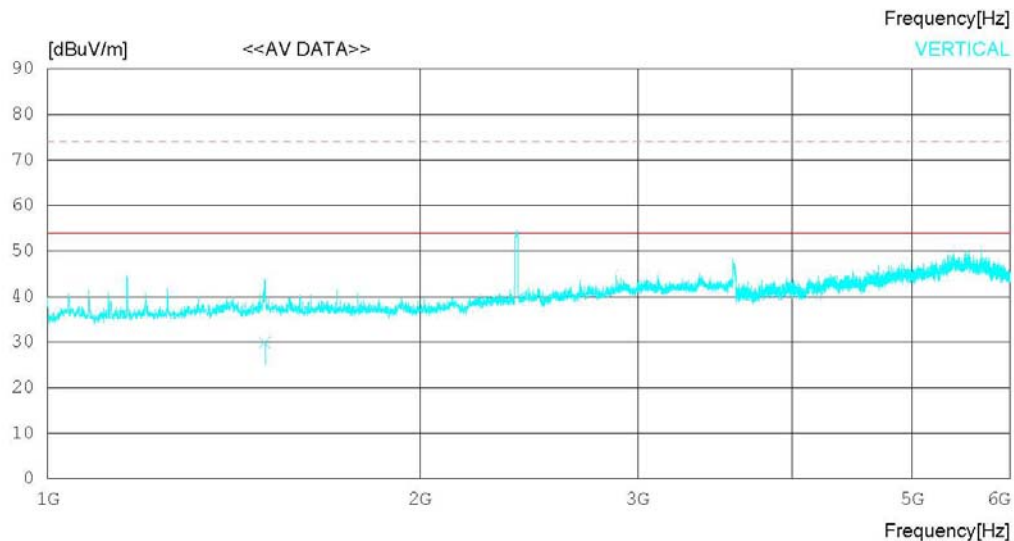
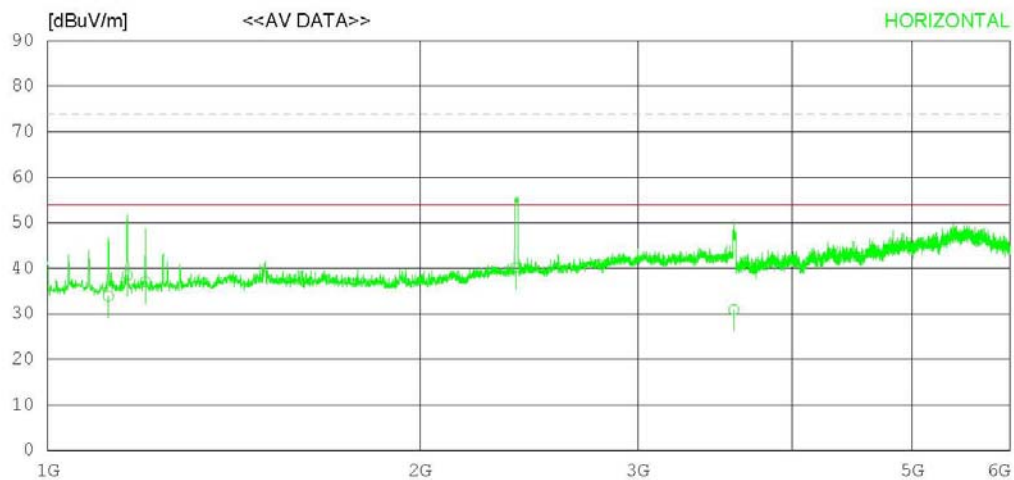
Date : 2014-01-15

Model Name : HSTND-3951-G, LD4735
Model No. :
Serial No. :
Test Condition : VOE

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 18 'C 31 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2014-01-15

Model Name	: HSTND-3951-G, LD4735	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 18 'C 31 % 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	1120.000	47.2	24.1	3.5	40.9	33.9	54.0	20.1	100	357
2	1160.000	51.6	24.1	3.6	40.8	38.5	54.0	15.5	100	219
3	1199.375	50.0	24.2	3.6	40.7	37.1	54.0	16.9	100	194
4	2390.000	47.6	26.8	5.1	39.3	40.2	54.0	13.8	100	357
5	3585.000	34.4	29.1	6.3	38.9	30.9	54.0	23.1	100	194
----- Vertical -----										
6	1499.375	41.3	24.6	4.1	40.1	29.9	54.0	24.1	100	39

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	2013.02.28	2014.02.28
☐ RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2013.06.28	2014.06.28
☐ LISN	KNW-407	KYORITSU	8-317-8	2014.01.07	2015.01.07
☐ 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	2013.02.27	2014.02.27
☒ 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	2012.03.22	2014.03.22
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
☒ AMPLIFIER	8447E	H/P	2945A02865	2014.01.08	2015.01.08
☒ AMPLIFIER	8447B	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	2013.02.27	2014.02.27
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.04.10	2014.04.10
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2012.03.12	2014.03.12
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	0411	2012.03.12	2014.03.12

Appendix 2

Report Revision History

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