

EMC TEST REPORT

Test item : LCD TV Monitor
Model No. : 42CS560-UE
Order No. : 1112-01774
Date of receipt : 2011-12-19
Test duration : 2011-12-26 ~ 2011-12-29
Use of report : FCC CoC Marking
Date of Issue : 2012-01-04

Applicant : LG Electronics Inc.

9-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

Test laboratory : Digital EMC Co., Ltd.

683-3, Yubang-Dong, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, 449-080, Korea

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 : (19 ~ 22) °C,
Humidity : (30 ~ 34) % 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
D.H.EUN

Reviewed by:



General Manager
C.H.LEE

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme,
which signed the ILAC-MRA.

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 : 683-3, Yubang-Dong, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, 449-080, Korea

<http://www.digitalemc.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	Test Facility list & NSA Data
	Canada	IC	5740A-1 5740A-2	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385 T-1442, G-338	Test Facility list & NSA Data
Certification	Korea	KC	KR0034	Test Facility list & NSA Data
	Germany	TUV	ROK1028C	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.	42CS560-UE
EUT Type	LCD TV Monitor
Serial No	NONE
FCC ID	BEJ42CS560UE
Type of Sample Tested	Pre-Production
High Frequency	800 MHz
Rating	AC100-240 V~, 50/60 Hz, 1.7 A
Supplied Power for Test	AC120 V, 60 Hz
Applicant	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Manufacturer	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1360x768	47.712	60.015
1280x1024	63.981	60.02
1920x1080	67.5	60.00

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 (MM-DD)	Temp ()	Humidity (% R.H.)	Pressure (hPa)
Conducted Disturbance	12-26	22	30	-
Radiated Disturbance	12-29	19	31	
	12-29	21	34	

4.3 Test result Summary

(1) Conducted Emission(HDMI MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
1.29950	N	34.5	Average	46.0	11.5

(2) Radiated Emission(HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
37.275	V	36.2	Quasi-Peak	40.0	3.8

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

- HDMI MODE – Resolution : 1920 x 1080 Resolution (Worst Case)
- USB MODE

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE			Backshell	FCC ID
				Connect type	Length (m)	shield		
PC	VOSTRO430	9K77SBX	DELL	POWER	1.8	Non-shield	Plastic	DOC
				HDMI	1.8	Shield		
				USB	1.8	Non-shield		
				PS/2	1.6	Non-shield		
				PS/2	1.8	Non-shield		
KEYBOARD	SKG-210P	TAKSC12255P	MONITOEREY INTERNATIONAL CORP	PS/2	1.6	Non-shield	Plastic	DOC
MOUSE	SML-510PB	TAKS903519Z	MONITOEREY INTERNATIONAL CORP	PS/2	1.8	Non-shield	Plastic	DOC
PRINTER	SRP-770	SRP77008060035	BICSOLON	POWER	1.8	Non-shield	Plastic	DOC
				USB	1.8			
USB MEMORY	POP-S2	N/A	MEMORIVE	USB	-	-	-	DOC

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15MHz to 30MHz, 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 0.8m above the reference ground plane and 0.4m 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 0.15m 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 0.15MHz to 0.5MHz.				

Test Result

< HDMI MODE >



Results of Conducted Emission

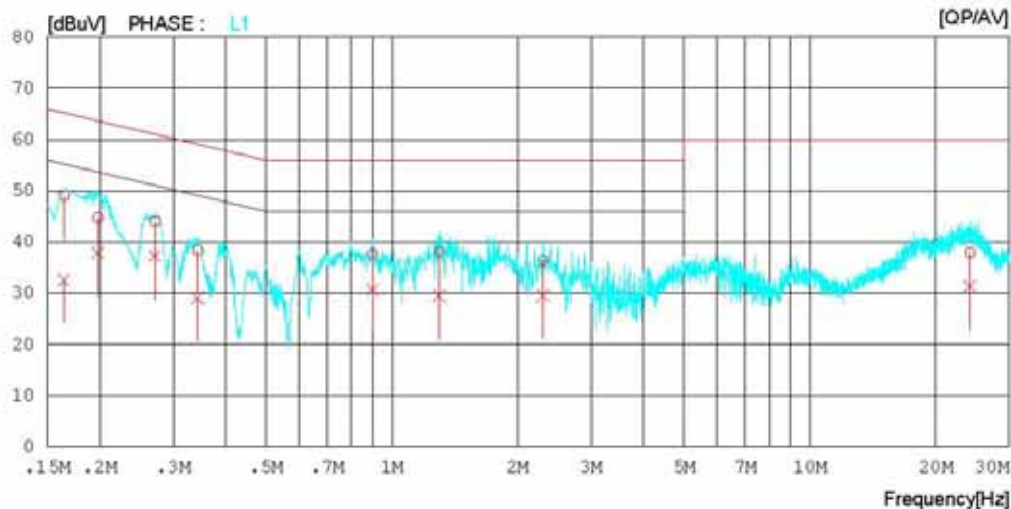
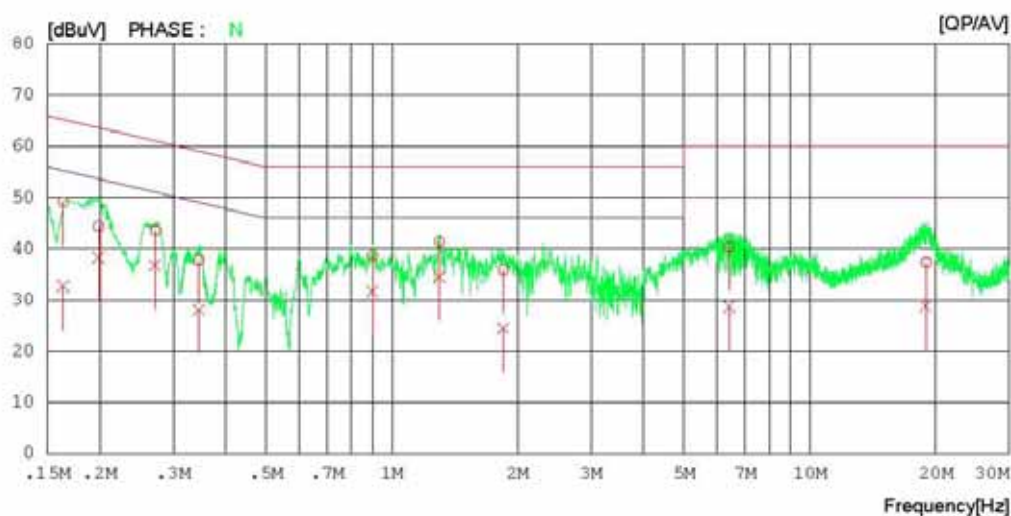
Digital EMC
 Date : 2011-12-26

Model No. : 42CS560-UE
 Type :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 22 °C 30 % R.H.
 Operator :

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2011-12-26

Model No. : 42CS560-UE
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 22 °C 30 % 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	0.16361	48.9	32.5	0.2	49.1	32.7	65.3	55.3	16.2	22.6	N
2	0.19905	44.3	38.1	0.1	44.4	38.2	63.7	53.7	19.3	15.5	N
3	0.27185	43.5	36.7	0.1	43.6	36.8	61.1	51.1	17.5	14.3	N
4	0.34525	37.5	27.9	0.2	37.7	28.1	59.1	49.1	21.4	21.0	N
5	0.89983	38.5	31.4	0.2	38.7	31.6	56.0	46.0	17.3	14.4	N
6	1.29950	41.1	34.3	0.2	41.3	34.5	56.0	46.0	14.7	11.5	N
7	1.84950	35.7	24.3	0.2	35.9	24.5	56.0	46.0	20.1	21.5	N
8	6.41300	39.9	28.3	0.4	40.3	28.7	60.0	50.0	19.7	21.3	N
9	18.98050	36.3	27.8	1.1	37.4	28.9	60.0	50.0	22.6	21.1	N
10	0.16426	48.8	32.4	0.2	49.0	32.6	65.2	55.2	16.2	22.6	L1
11	0.19829	44.7	37.8	0.1	44.8	37.9	63.7	53.7	18.9	15.8	L1
12	0.27155	44.0	37.1	0.1	44.1	37.2	61.1	51.1	17.0	13.9	L1
13	0.34368	38.2	28.9	0.2	38.4	29.1	59.1	49.1	20.7	20.0	L1
14	0.89930	37.6	30.6	0.2	37.8	30.8	56.0	46.0	18.2	15.2	L1
15	1.29900	37.9	29.3	0.2	38.1	29.5	56.0	46.0	17.9	16.5	L1
16	2.30000	36.1	29.3	0.3	36.4	29.6	56.0	46.0	19.6	16.4	L1
17	24.13700	36.8	30.3	1.1	37.9	31.4	60.0	50.0	22.1	18.6	L1

< USB MODE >



Results of Conducted Emission

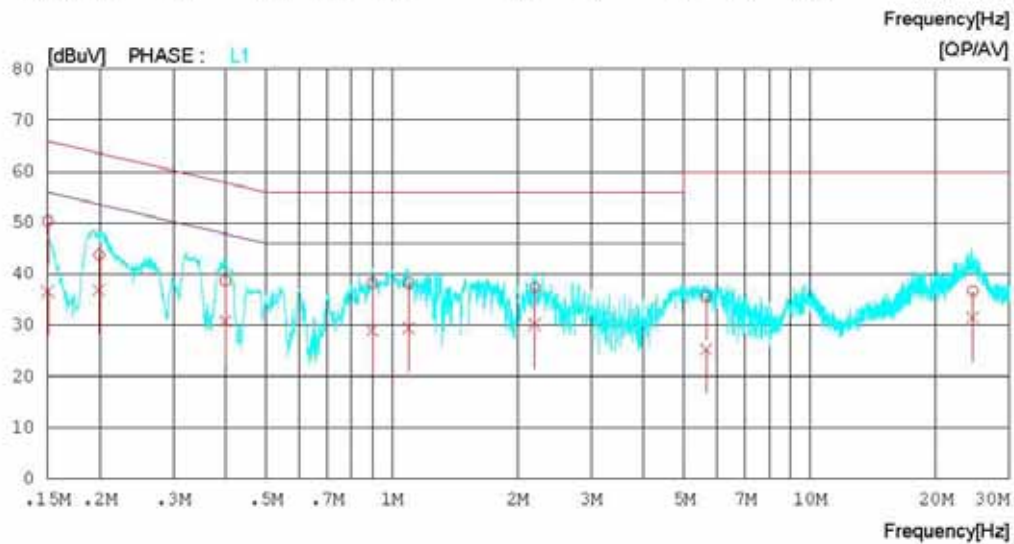
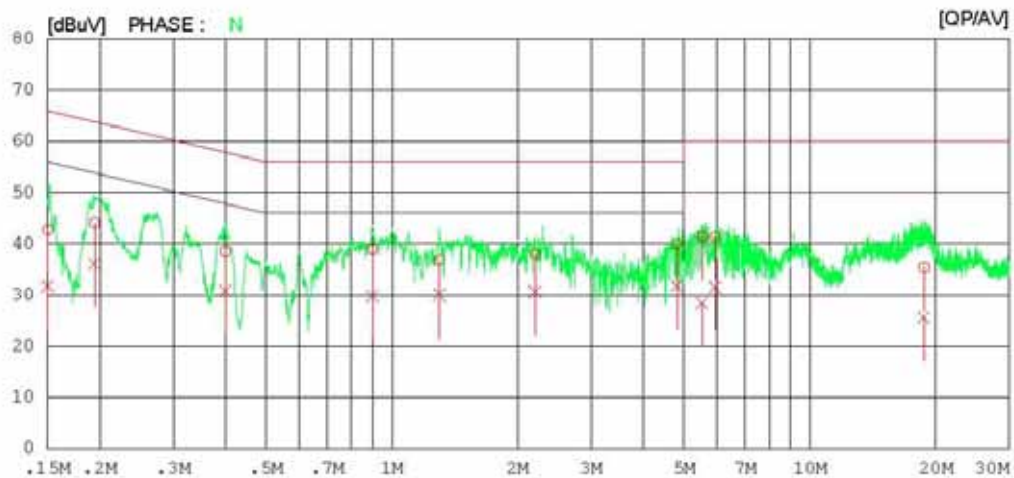
Digital EMC
 Date : 2011-12-26

Model No. : 42CS560-UE
 Type :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 22°C 30 % R.H.
 Operator :

Memo :

LIMIT : CISPR22_B OP
 CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2011-12-26

Model No. : 42CS560-UE
 Type :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 22 °C 30 % 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	42.5	31.5	0.2	42.7	31.7	66.0	56.0	23.3	24.3	N
2	0.19468	44.0	36.0	0.1	44.1	36.1	63.8	53.8	19.7	17.7	N
3	0.39979	38.4	30.6	0.2	38.6	30.8	57.9	47.9	19.3	17.1	N
4	0.89936	38.8	29.6	0.2	39.0	29.8	56.0	46.0	17.0	16.2	N
5	1.29900	36.7	29.8	0.2	36.9	30.0	56.0	46.0	19.1	16.0	N
6	2.20000	37.6	30.3	0.3	37.9	30.6	56.0	46.0	18.1	15.4	N
7	4.81600	39.5	31.3	0.4	39.9	31.7	56.0	46.0	16.1	14.3	N
8	5.53200	41.0	28.0	0.4	41.4	28.4	60.0	50.0	18.6	21.6	N
9	5.93800	40.9	31.1	0.4	41.3	31.5	60.0	50.0	18.7	18.6	N
10	18.75550	34.3	24.5	1.1	35.4	25.6	60.0	50.0	24.6	24.4	N
11	0.15031	50.1	36.4	0.2	50.3	36.6	66.0	56.0	15.7	19.4	L1
12	0.19950	43.7	36.8	0.1	43.8	36.9	63.6	53.6	19.8	16.7	L1
13	0.39995	38.5	30.6	0.2	38.7	30.8	57.9	47.9	19.2	17.1	L1
14	0.89906	38.1	28.8	0.2	38.3	29.0	56.0	46.0	17.7	17.0	L1
15	1.09850	38.1	29.2	0.2	38.3	29.4	56.0	46.0	17.7	16.6	L1
16	2.19900	37.1	29.8	0.3	37.4	30.1	56.0	46.0	18.6	15.9	L1
17	5.64800	35.3	24.9	0.4	35.7	25.3	60.0	50.0	24.3	24.7	L1
18	24.54300	35.6	30.4	1.1	36.7	31.5	60.0	50.0	23.3	18.5	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 0.8m above the reference ground plane and 3m 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 0.15m above the reference ground plane.

Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4m 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 1GHz frequency range, Quasi-Peak detector with 120kHz RBW was used.

Also Peak and Average detector with 1MHz RBW were used for above 1GHz 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	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

(1) Limit for Radiated Emission below 1000MHz

Frequency range (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m distance)
	Quasi-peak (dB μ V/m)	Quasi-peak (dB μ V/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1000	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 (10m distance)	Class B Equipment (10m distance)
	Quasi-peak (dB μ V/m)	Quasi-peak (dB μ V/m)
30 to 230	40	30
230 to 1000	47	37

(2) Limits for Radiated Emission above 1000MHz at a measuring distance of 3m

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

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

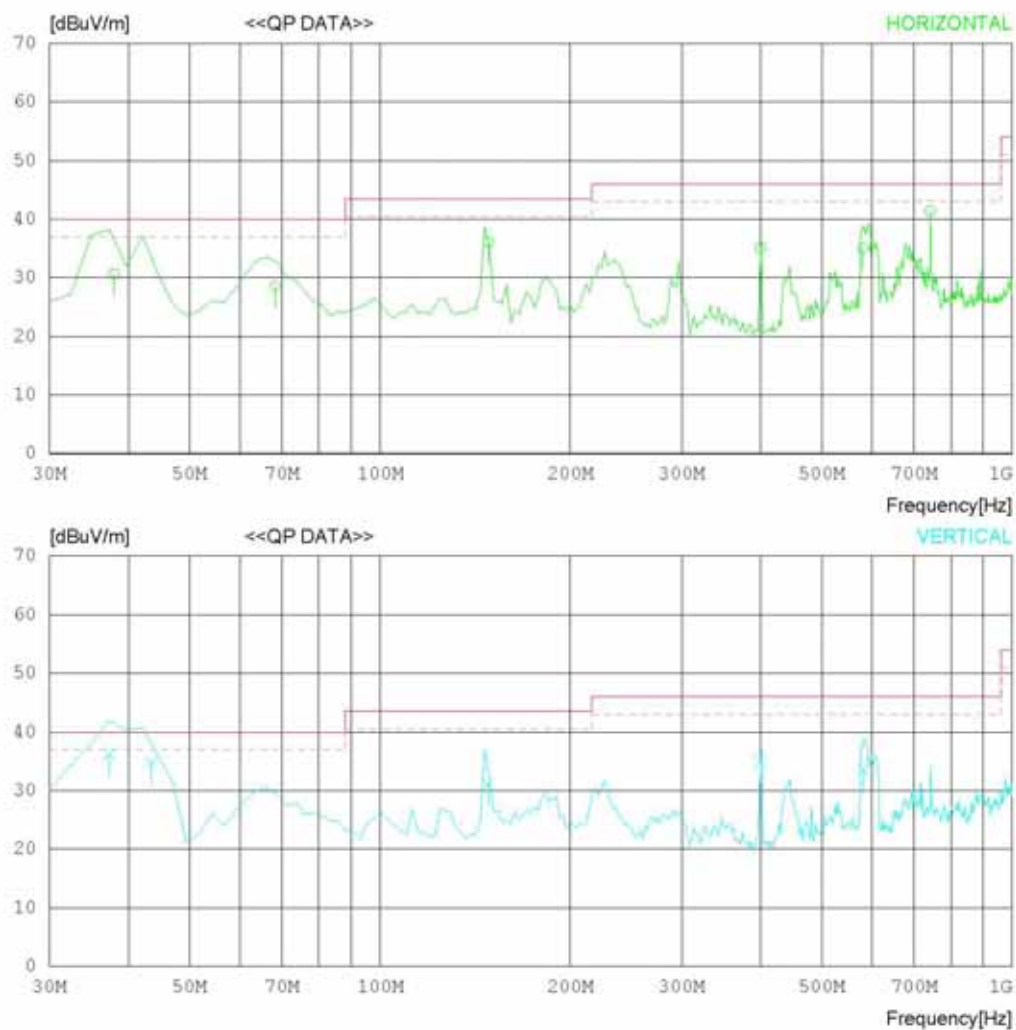
Date : 2011-12-29

Model Name : 42CS560-UE
 Model No. :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 21 °C 34 % R.H.
 Operator :

Memo :

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



RADIATED EMISSION

Date : 2011-12-29

Model Name : 42CS560-UE
 Model No. :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 21 °C 34 % R.H.
 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	37.939	37.3	15.0	0.9	22.6	30.6	40.0	9.4	100	276
2	68.226	43.8	6.2	1.2	22.6	28.6	40.0	11.4	301	355
3	148.350	47.0	10.5	1.7	23.1	36.1	43.5	7.4	100	358
4	400.000	40.5	16.0	3.0	24.4	35.1	46.0	10.9	200	107
5	580.500	37.1	18.5	3.8	24.4	35.0	46.0	11.0	216	1
6	741.770	41.4	19.5	4.4	23.9	41.4	46.0	4.6	100	207
----- Vertical -----										
7	37.275	42.5	15.4	0.9	22.6	36.2	40.0	3.8	100	1
8	43.500	42.2	14.1	1.0	22.6	34.7	40.0	5.3	100	1
9	148.318	42.0	10.5	1.7	23.1	31.1	43.5	12.4	213	355
10	400.000	40.4	16.0	3.0	24.4	35.0	46.0	11.0	199	358
11	582.899	35.6	18.6	3.8	24.4	33.6	46.0	12.4	100	282

< HDMI MODE_1 GHz ~ 6 GHz_PEAK >

RADIATED EMISSION

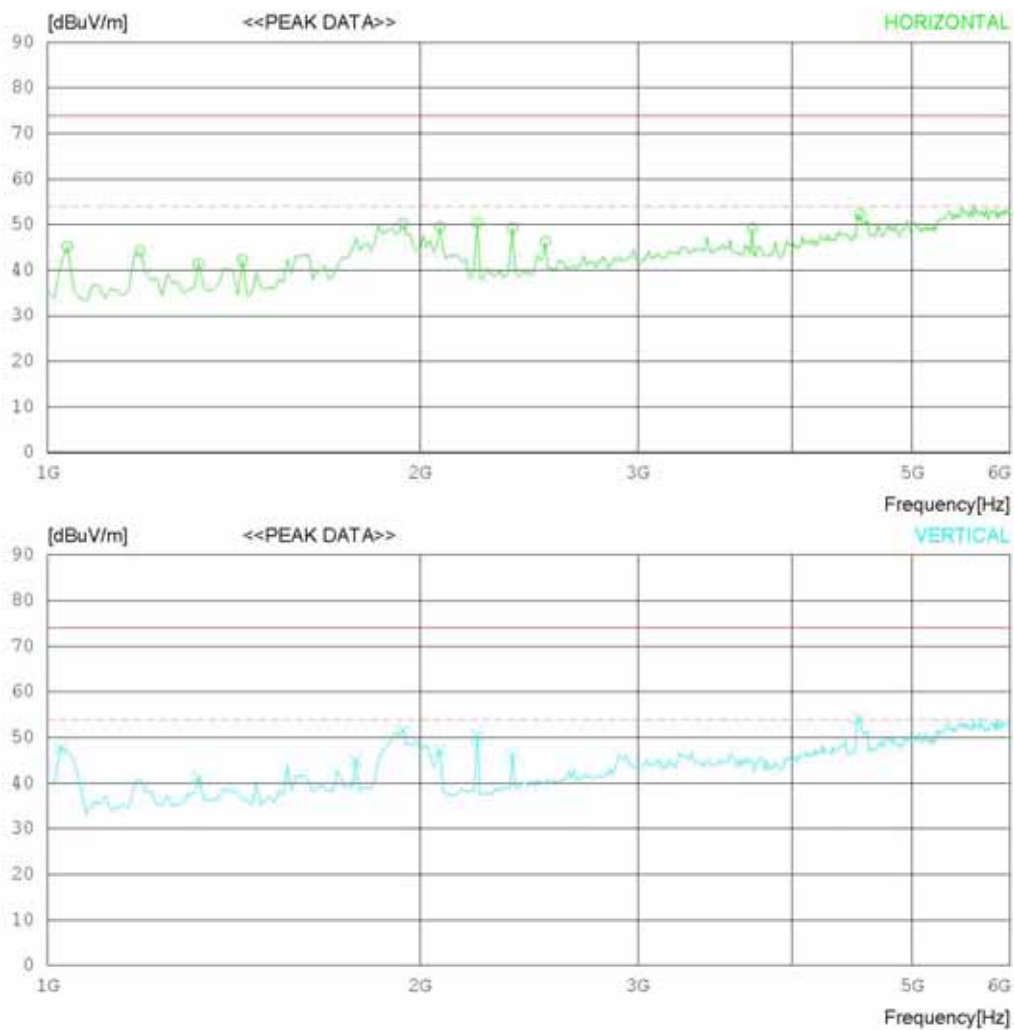
Date : 2011-12-29

Model Name : 42CS560-UE
 Model No. :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °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 : 2011-12-29

Model Name : 42CS560-UE	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °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	1037.500	58.0	23.7	5.3	41.8	45.2	74.0	28.8	100	324
2	1187.500	56.1	24.2	5.7	41.8	44.2	74.0	29.8	100	1
3	1325.000	52.7	24.6	5.9	41.9	41.3	74.0	32.7	100	1
4	1437.500	52.9	25.0	6.2	41.9	42.2	74.0	31.8	100	1
5	1937.500	59.5	25.2	7.5	42.0	50.2	74.0	23.8	100	1
6	2075.000	58.2	25.5	7.8	42.0	49.5	74.0	24.5	100	329
7	2225.000	58.3	26.2	7.9	42.0	50.4	74.0	23.6	100	311
8	2375.000	56.3	26.8	8.1	42.0	49.2	74.0	24.8	100	1
9	2525.000	52.6	27.4	8.3	42.1	46.2	74.0	27.8	100	329
10	3712.500	51.1	29.6	10.4	41.9	49.2	74.0	24.8	100	1
11	4537.500	50.8	30.9	12.0	41.4	52.3	74.0	21.7	100	1
----- Vertical -----										
12	1025.000	60.5	23.7	5.3	41.8	47.7	74.0	26.3	100	0
13	1325.000	52.6	24.6	5.9	41.9	41.2	74.0	32.8	100	358
14	1775.000	54.7	25.2	7.1	42.0	45.0	74.0	29	100	63
15	1937.500	60.8	25.2	7.5	42.0	51.5	74.0	22.5	100	27
16	2075.000	55.8	25.5	7.8	42.0	47.1	74.0	26.9	100	358
17	2225.000	58.3	26.2	7.9	42.0	50.4	74.0	23.6	100	358
18	2375.000	53.0	26.8	8.1	42.0	45.9	74.0	28.1	100	358
19	4525.000	52.8	30.8	12.0	41.4	54.2	74.0	19.8	100	358

< HDMI MODE_1 GHz ~ 6 GHz_AV >

RADIATED EMISSION

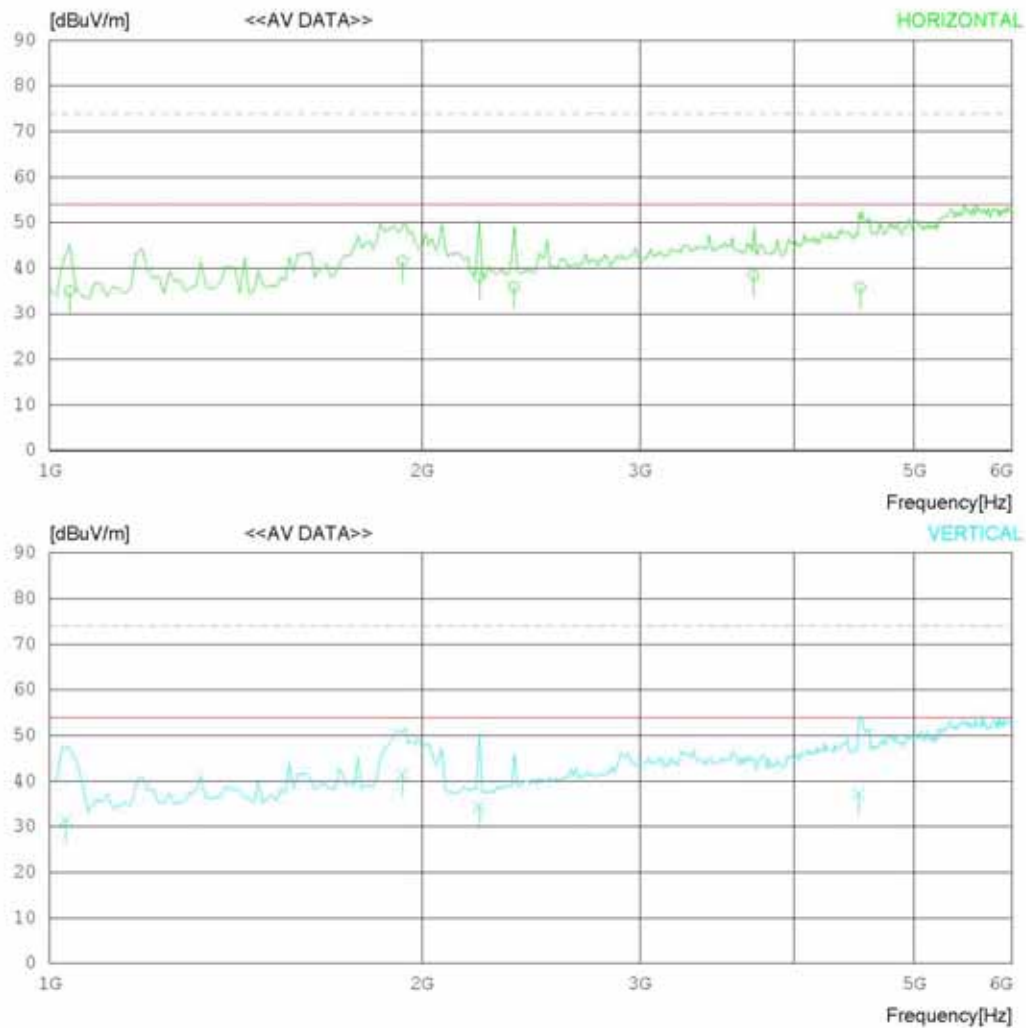
Date : 2011-12-29

Model Name : 42CS560-UE
 Model No. :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °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 : 2011-12-29

Model Name : 42CS560-UE	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °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 [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	1038.259	47.8	23.7	5.3	41.8	35.0	54.0	19.0	100	324
2	1928.615	50.9	25.2	7.5	42.0	41.6	54.0	12.4	100	1
3	2225.313	46.0	26.2	7.9	42.0	38.1	54.0	15.9	100	311
4	2373.668	43.0	26.8	8.1	42.0	35.9	54.0	18.1	100	1
5	3708.900	40.3	29.6	10.4	41.9	38.4	54.0	15.6	100	1
6	4520.875	34.4	30.8	12.0	41.4	35.8	54.0	18.2	100	1
----- Vertical -----										
7	1030.547	44.2	23.7	5.3	41.8	31.4	54.0	22.6	100	0
8	1928.550	50.7	25.2	7.5	42.0	41.4	54.0	12.6	100	27
9	2225.635	42.2	26.2	7.9	42.0	34.3	54.0	19.7	100	358
10	4506.000	35.9	30.7	12.0	41.4	37.2	54.0	16.8	100	358

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

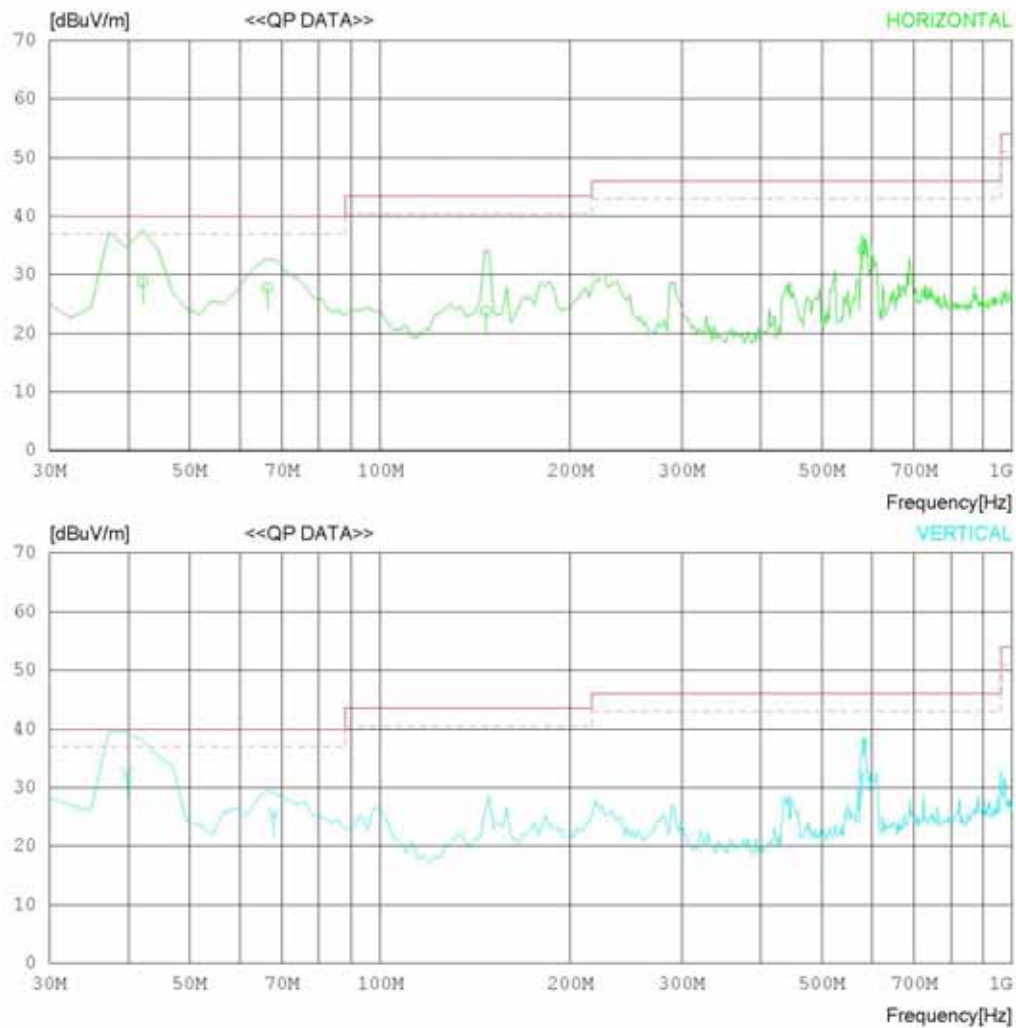
Date : 2011-12-29

Model Name : 42CS560-UE
 Model No.
 Serial No.
 Test Condition : USB

Reference No.
 Power Supply : 120V 60Hz
 Temp/Humi : 21 °C 34 % R.H.
 Operator

Memo :

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



RADIATED EMISSION

Date : 2011-12-29

Model Name : 42CS560-UE	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 21 °C 34 % 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	42.125	36.4	14.0	1.0	22.6	28.8	40.0	11.2	367	207
2	66.375	43.1	6.1	1.2	22.6	27.8	40.0	12.2	290	23
3	147.100	34.6	10.6	1.7	23.1	23.8	43.5	19.7	100	1
4	579.500	36.5	18.5	3.8	24.4	34.4	46.0	11.6	211	294
----- Vertical -----										
5	39.807	40.0	14.0	0.9	22.6	32.3	40.0	7.7	100	358
6	67.850	40.7	6.2	1.2	22.6	25.5	40.0	14.5	100	254
7	580.474	34.2	18.5	3.8	24.4	32.1	46.0	13.9	171	349

< USB MODE_1 GHz ~ 6 GHz_PEAK >

RADIATED EMISSION

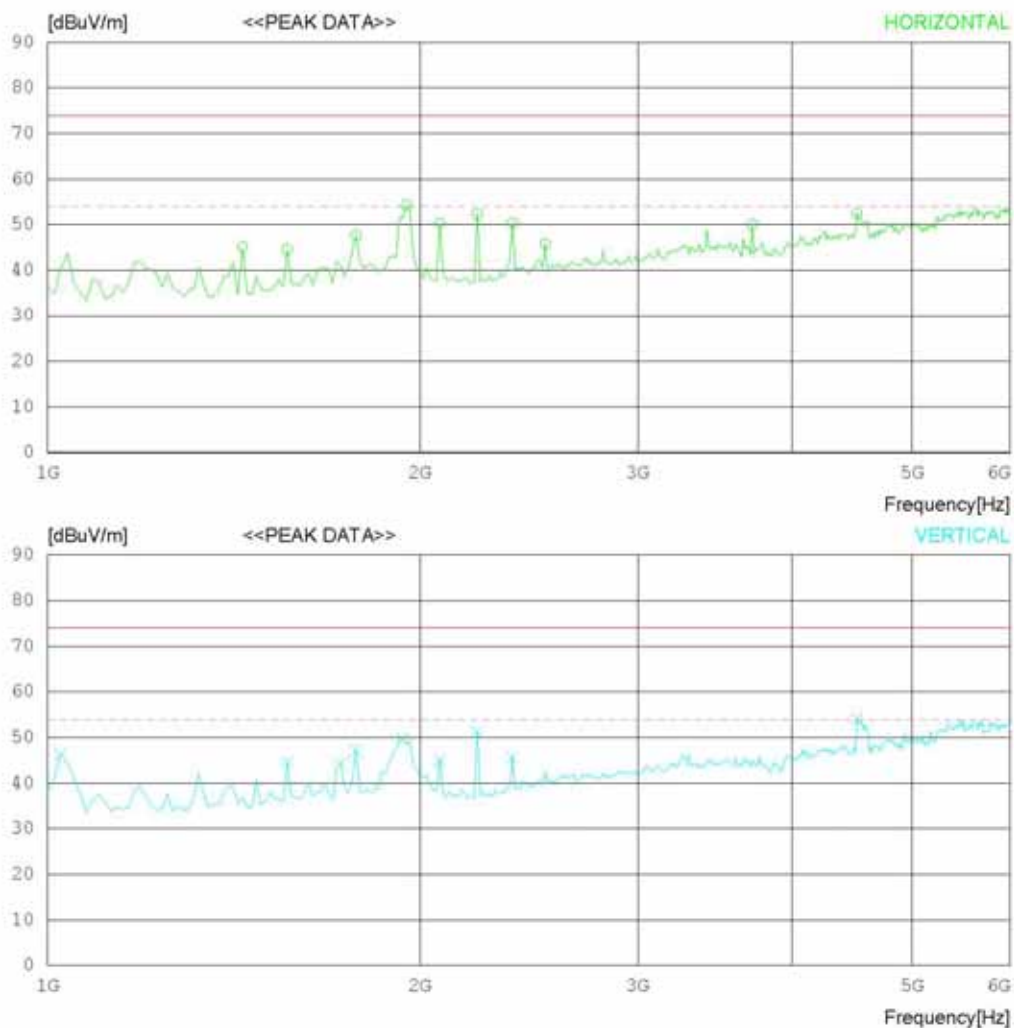
Date : 2011-12-29

Model Name : 42CS560-UE
 Model No. :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °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 : 2011-12-29

Model Name : 42CS560-UE	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19°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 [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	1437.500	55.7	25.0	6.2	41.9	45.0	74.0	29	100	358
2	1562.500	54.8	25.1	6.5	41.9	44.5	74.0	29.5	100	358
3	1775.000	57.3	25.2	7.1	42.0	47.6	74.0	26.4	100	358
4	1950.000	63.6	25.2	7.5	42.0	54.3	74.0	19.7	100	31
5	2075.000	58.9	25.5	7.8	42.0	50.2	74.0	23.8	100	316
6	2225.000	60.2	26.2	7.9	42.0	52.3	74.0	21.7	100	316
7	2375.000	57.5	26.8	8.1	42.0	50.4	74.0	23.6	100	316
8	2525.000	52.2	27.4	8.3	42.1	45.8	74.0	28.2	100	343
9	3712.500	51.9	29.6	10.4	41.9	50.0	74.0	24	100	358
10	4512.500	51.1	30.8	12.0	41.4	52.5	74.0	21.5	100	329
----- Vertical -----										
11	1025.000	59.0	23.7	5.3	41.8	46.2	74.0	27.8	100	359
12	1562.500	54.9	25.1	6.5	41.9	44.6	74.0	29.4	100	31
13	1725.000	54.2	25.2	6.9	41.9	44.4	74.0	29.6	100	332
14	1775.000	56.8	25.2	7.1	42.0	47.1	74.0	26.9	100	1
15	1937.500	59.1	25.2	7.5	42.0	49.8	74.0	24.2	100	1
16	2075.000	53.8	25.5	7.8	42.0	45.1	74.0	28.9	100	1
17	2225.000	59.1	26.2	7.9	42.0	51.2	74.0	22.8	100	347
18	2375.000	52.6	26.8	8.1	42.0	45.5	74.0	28.5	100	1
19	4512.500	52.6	30.8	12.0	41.4	54.0	74.0	20	100	1

< USB MODE_1 GHz ~ 6 GHz_AV >

RADIATED EMISSION

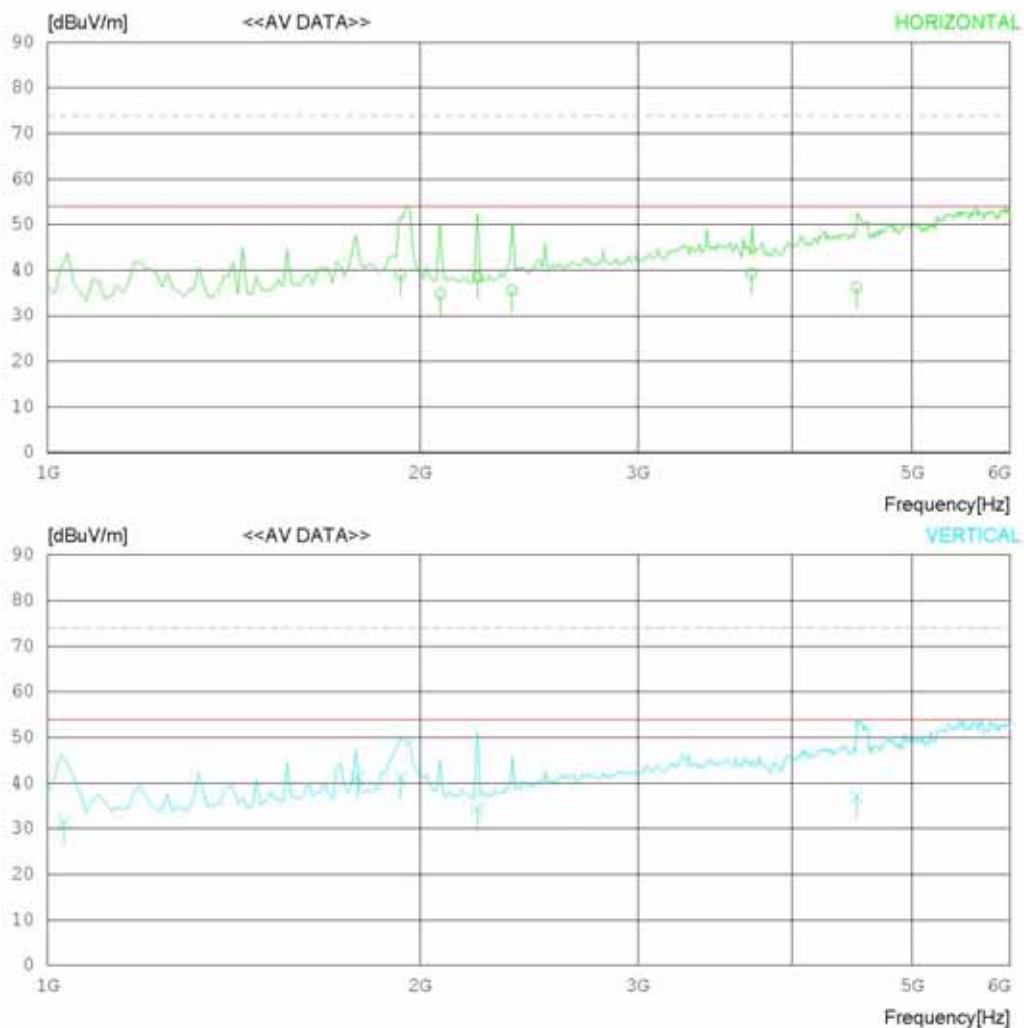
Date : 2011-12-29

Model Name : 42CS560-UE
 Model No. :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 19 °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 : 2011-12-29

Model Name : 42CS560-UE	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 19 °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	1928.760	48.4	25.2	7.5	42.0	39.1	54.0	14.9	100	31
2	2076.940	43.5	25.5	7.8	42.0	34.8	54.0	19.2	100	316
3	2225.352	46.4	26.2	7.9	42.0	38.5	54.0	15.5	100	323
4	2373.519	42.7	26.8	8.1	42.0	35.6	54.0	18.4	100	316
5	3708.550	41.2	29.6	10.4	41.9	39.3	54.0	14.7	100	358
6	4505.900	35.0	30.7	12.0	41.4	36.3	54.0	17.7	100	329
----- Vertical -----										
7	1030.500	44.2	23.7	5.3	41.8	31.4	54.0	22.6	100	359
8	1780.647	51.0	25.2	7.1	42.0	41.3	54.0	12.7	100	1
9	1928.500	50.5	25.2	7.5	42.0	41.2	54.0	12.8	100	1
10	2225.618	42.2	26.2	7.9	42.0	34.3	54.0	19.7	100	347
11	4505.900	35.7	30.7	12.0	41.4	37.0	54.0	17.0	100	274

Appendix 1

List of Test and Measurement Instruments

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐ SPECTRUM ANALYZER	8591E	H/P	3649A05889	2011.03.07	2012.03.07
☐ RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2011.07.02	2012.07.02
☐ LISN	KNW-407	KYORITSU	8-317-8	2011.01.11	2012.01.11
☐ LISN	KNW-242	KYORITSU	8-654-15	2011.07.01	2012.07.01
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2011.01.11	2012.01.11
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2011.03.08	2012.03.08
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2011.09.30	2012.09.30
☒ LISN	LISN1600	TTI	197204	2011.07.02	2012.07.02
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2011.01.11	2012.01.11

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2011.01.20	2012.01.20
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2010.07.14	2012.07.14
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2010.04.13	2012.04.13
☒ AMPLIFIER	8447E	H/P	2945A02865	2011.01.11	2012.01.11
☒ AMPLIFIER	MLA-00108-B02-36	TSJ	1518831	2011.01.11	2012.01.11
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2011.07.01	2012.07.01
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2011.07.01	2012.07.01
☐ BILOG ANTENNA	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2011.03.08	2012.03.08
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2010.11.29	2012.11.29
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2010.07.07	2012.07.07
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2010.12.21	2012.12.21
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2010.11.29	2012.11.29
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2011.03.07	2012.03.07