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Project: 10CA41560

File: TC8312

Report 10CA41560-FCC

Date: September 13, 2010

Model: VP4726 (Basic) and VP4726F

Part 15 Subpart B Class B Class II Permissive Change

For

26" LCD Medical Monitor

D&T Inc.

59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA

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to public safety and committed to
quality service for over 100 years**

Project Number: 10CA41560 File Number TC8312 Test Report No: 10CA41560-FCC
Model Number: VP4726 Date of Issue: September 13, 2010

Test Report Details

Test report No: 10CA41560-FCC
Tests Performed By: UL Korea Ltd.
33rd FL. GFC Bldg. 737 Yeoksam-dong, Kangnam-ku, Seoul, 135-984,
Korea
Test Site: CHUNGBUK TECHNOPARK
685-3 Yangcheong-ri, Ochang-eub, Cheongwon-gun, Chungbuk-
province, Republic of Korea
The test facility was deemed to have the environment and capabilities
necessary to perform the tests included in the test package.
Applicant: D&T Inc.
59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA
Manufacturer: D&T Inc.
59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA
Factory: D&T Inc.
59-9 JANG-DONG YUSEONG-GU DAEJEON 305-343 KOREA
Applicant Contact: Mr. Kyutae Park
Phone: 82-42-360-8000
E-mail: ktpark@dentinc.co.kr
Product Type: 26" LCD Medical Monitor
FCC ID: THCVP4726
Model Number: VP4726
Multilisting model number: VP4726F
The manufacturer has declared to all the multiple model names into the basic
model without any further evaluation by UL.
Trademark: ConMed
Product standards: FCC Part 15 Subpart B Class B
Test Procedure ANSI C63.4 : 2003
Sample Serial Number: N/A
Sample Receive Date: September 2, 2010
Testing Start Date: September 2, 2010
Date Testing Complete: September 27, 2010
Test Report Date: September 28, 2010
Overall Results: Pass

UL Korea Ltd. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL Korea Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL Korea Ltd. issued reports.

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Summary of Test Results:

The following tests were performed on a sample submitted for evaluation of compliance with FCC Rules Part 15 Subpart B Class B.		
Requirement – Test	Reference standards	Verdict
AC Power line Conducted Emission Test	47CFR Part 15.107(a) / 47CFR Part 15.109(g)	Complied
Radiated Emission Test		Complied

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by UL Korea, Ltd. in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

The equipment under test has

- ☒ Met the technical requirements
☐ Not met the technical requirements



Tested by
Sung Hoon, Baek, Project Engineer
Conformity Assessment Services - 3014ASEO
UL Korea Ltd.
September 13, 2010



Reviewed by
Kyungyong, Kim, EMC Section Manager
Conformity Assessment Services - 3014ASEO
UL Korea Ltd.
September 13, 2010

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1. EQUIPMENT UNDER TEST (EUT)

1.1 Equipment Description:

Description:
The VP4726 (VP 4726F) is intended for use by general surgeons, gynecologists, urologists, thoracic, orthopedic, ENT, and plastic surgeons adequately trained in these surgical procedures.

1.2 Equipment Under Test (EUT):

Equipment Configuration:				
No.	Product Type	Manufacturer	Model	Comments
1	26" LCD Medical Monitor	D&T Inc.	VP4726	EUT
2	AC/DC Adapter	Bridgepower Corp	JMW1150KA2400F09	EUT
3	BNC Cable	-	-	1 EA
4	DVI Cable	-	-	1 EA
5	AC power Cable	Hospital-grade AC power cord	-	1 EA

1.3 Equipment Specification:

Specification		
Item		Description
Model		VP4726 / VP4726F
LCD Panel	Description	LM260WU2-SLA2 (LG Display)
	Resolution	1920 x 1200 pixel
Scalar		PW338C-30L
Input Signal		1 x DVI, 1 x Optical DVI (VP4726F only) 1 x D-SUB, 1 x BNC (SDI) 1 x BNC (CVBS) 2 x BNC (SVHS Y/C), 5 x BNC (Component Y/G, Pb/B, Pr/R, H/CS, VS Input)
Output Signal		1 x DVI 1 x BNC (SDI)
Power Supply		AC/DC Adaptor (AC 100~240V, DC 24V 6.25A)
Unit Dimension		618(W) x 412(H) x 99.5(D) (mm), 8Kg - Without stand 24.330(W) x 16.220(H) x 3.917(D) (inch), 17.64 lbs- Without stand

1.4 Technical descriptions and documents:

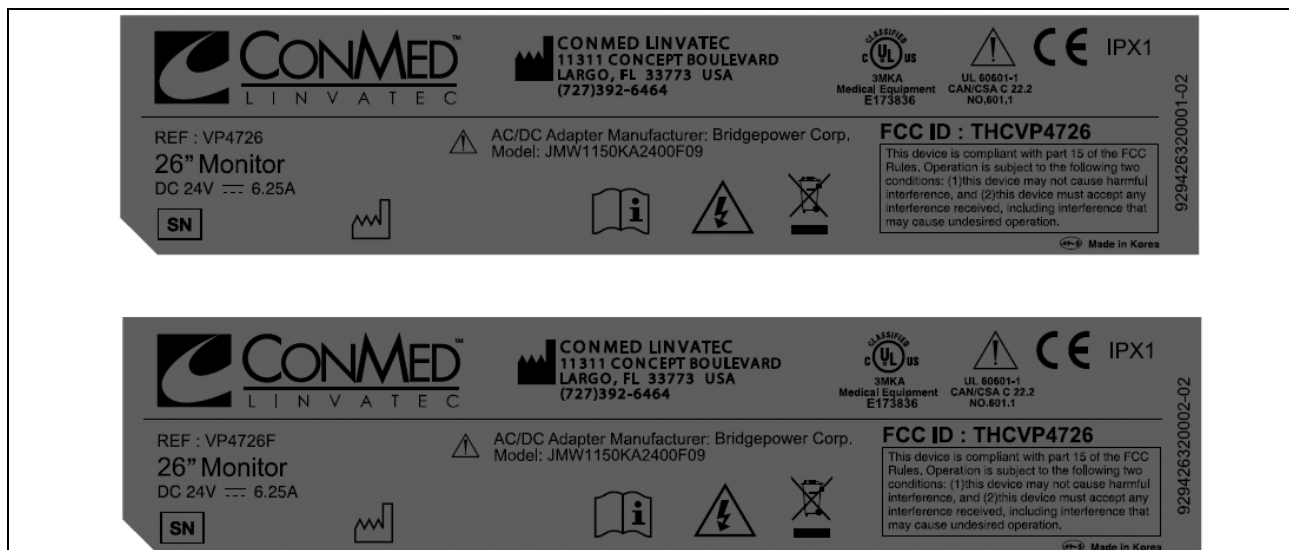
No.	Document Title and Description
1	VP4726 User Manual
Note: The manufacturer provided the following document.	

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1.5 Equipment Marking Plate:



1.6 Equipment Used During Test:

Use*	Product Type	Manufacturer	Model	Comments
EUT	26" LCD Monitor	D&T Inc.	VP4726	-
EUT	AC/DC adapter	Bridgepower Corp.	JMW1150KA2400F09	Connected to 26" LCD Monitor
AE	PC	DELL	OPTIPLEX 755	Connected to EUT through The VGA Cable, Optical DVI Cable and DVI Cable.
AE	USB Mouse	ANYZEN	SMOU5000WX	1EA
AE	Keyboard	DELL	L30U	1EA
AE	Headset	ACTTO	-	-
AE	Printer	SAMSUNG	ML-2250G	-
AE	SDI Pattern Generator	Quantum Data Inc	881D	Used for SDI mode
AE	Pattern Generator	Chroma	22291	Used for C-Video, S-Video and Component (Y/Pb/Pr) Mode
AE	LCD Monitor	D&T Inc	FS-L2401D	Used for External Monitor
AE	LCD Monitor adapter	Bridge power Corp.	JMW1150KA2400F09	Connected to LCD Monitor
AE	DVI to Optical DVI	Self EDID	DDL-T001	-
* Note: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, SIM - Simulator (Not Subjected to Test)				

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1.7 EUT Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	DVI In/Out	I/O	1.8 m	Shielded	24 Pin DVI Connector for Digital TMDS
2	Optical DVI In	I/O	22.6 m	Unshielded	Optical Cable
3	VGA In	I/O	1.8 m	Shielded	15 Pin D-Sub Connector for Analog RGB
4	SDI In/Out	I/O	2.0 m	Shielded	BNC
5	S-Video In	I/O	1.8 m	Shielded	S-Video
6	C-Video In	I/O	2.0 m	Shielded	BNC
7	Component (Y/Pb/Pr) In	I/O	2.0 m	Shielded	5 Port BNC
8	GPIO	I/O	1.5 m	Unshielded	-
Note: * AC= AC Power Port, DC = DC Power Port, N/E = Non-Electrical, I/O= Signal Input or Output Port (Not Involved in Process Control), TP = Telecommunication Ports, * RS-232 port is used for service purpose only. No user interface port.					

1.8 EUT Internal Operating Frequencies:

Frequency (MHz)	Description	Frequency (MHz)	Description
192.375 MHz	Memory Clock	27.00 MHz	System Clock
158.625 MHz	Display Clock	28.322 MHz	System Clock

1.9 Power Interface:

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	100-240Vac	3.0A	-	50-60Hz	Single	-
1	120 V	-	-	60 Hz	-	-

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2. EUT OPERATION MODES FOR TESTING

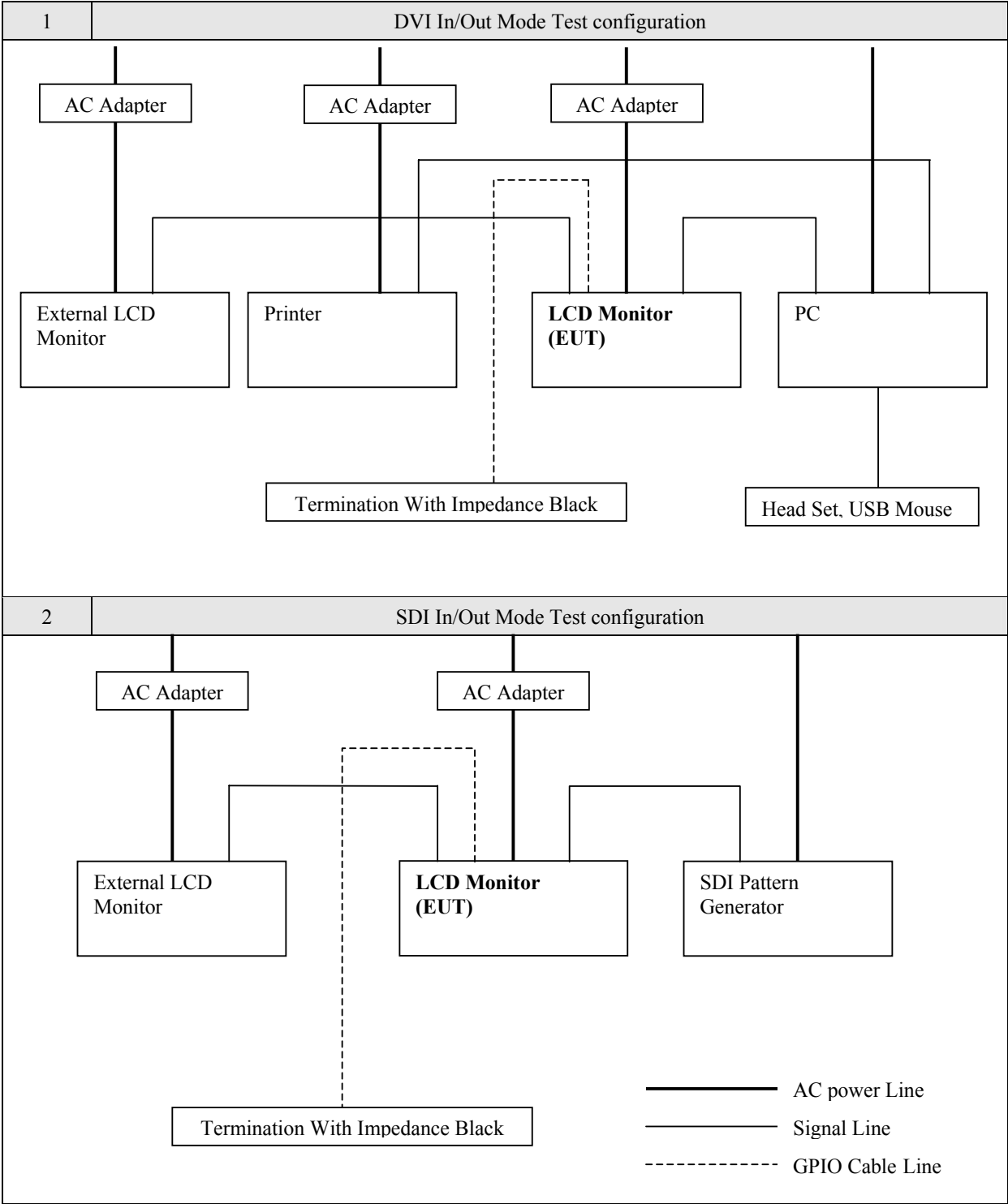
2.1 Test Mode of LCD Color Display Monitor:

Mode #	Mode	Comments
1	DVI In/Out Mode	Worst case condition
2	Optical DVI Mode	-
3	VGA Mode	-
4	SDI In/Out Mode	Worst case condition
5	S-Video Mode	-
6	C-Video Mode	-
7	Component (Y/Pb/Pr) Mode	-
Note: 1. All the configuration described above has been investigated during the preliminary testing and selected two cases as worst-case condition for final measurements. 2. EUT has been performed under continuous displaying "H" Pattern for configuration modes of 1 to 3. 3. EUT has been performed under continuous displaying "Color Bar" Pattern for configuration modes of 4 to 7.		

2.2 Modes of Video resolution:

Mode #		Resolution	Comments
1	DVI In/Out Mode	640 * 350 @ 60Hz	-
2		1024 * 768 @ 60Hz	-
3		1920 1200 @ 60Hz	Worst case condition
4	SDI In/Out Mode	720p	Worst case condition
Note: Video resolution where it refers from above is representative worst case.			

2.3 Test Configuration:



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3. AC POWER LINE CONDUCTED EMISSION TEST

TEST: Limits of mains terminal disturbance voltage				
Method		Measurements were made on a ground plane that extends 1-meter minimum beyond all sides of the system under test. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.		
Test Procedure		ANSI C63.4: 2003		
Parameters recorded during the test		Laboratory Ambient Temperature	25.5 °C	
		Relative Humidity	56.0 %	
-		Frequency range on each side of line	Measurement Point	
Fully configured sample scanned over the following frequency range		150 kHz to 30 MHz	AC Mains ports of EUT	
Limits – Class B				
Frequency (MHz)	Limit (dBµV)			
	Quasi-Peak	Results	Average	Results
0.15 to 0.50	66 to 56	Pass	56 to 46	Pass
0.50 to 5	56	Pass	46	Pass
5 to 30	60	Pass	50	Pass
Conducted Emissions EUT Configuration Settings				
Power Interface Mode # (See Section 1.9)		EUT Operation Mode # (See 2.1)		EUT Configurations Mode # (See Section 2.3)
1		1 and 4		1 and 2
Test Equipment Used				
Description	Manufacturer	Model	Identifier	Cal. Due
Test Receiver	Rohde & Schwarz	ESPI	101088	2011.06.17
LISN	Rohde & Schwarz	ESH2-Z5	100146	2011.06.18
LISN	Schwarzbeck	NNLK8129	8129162	2011.06.18
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	3057.8810.54	2011.06.18

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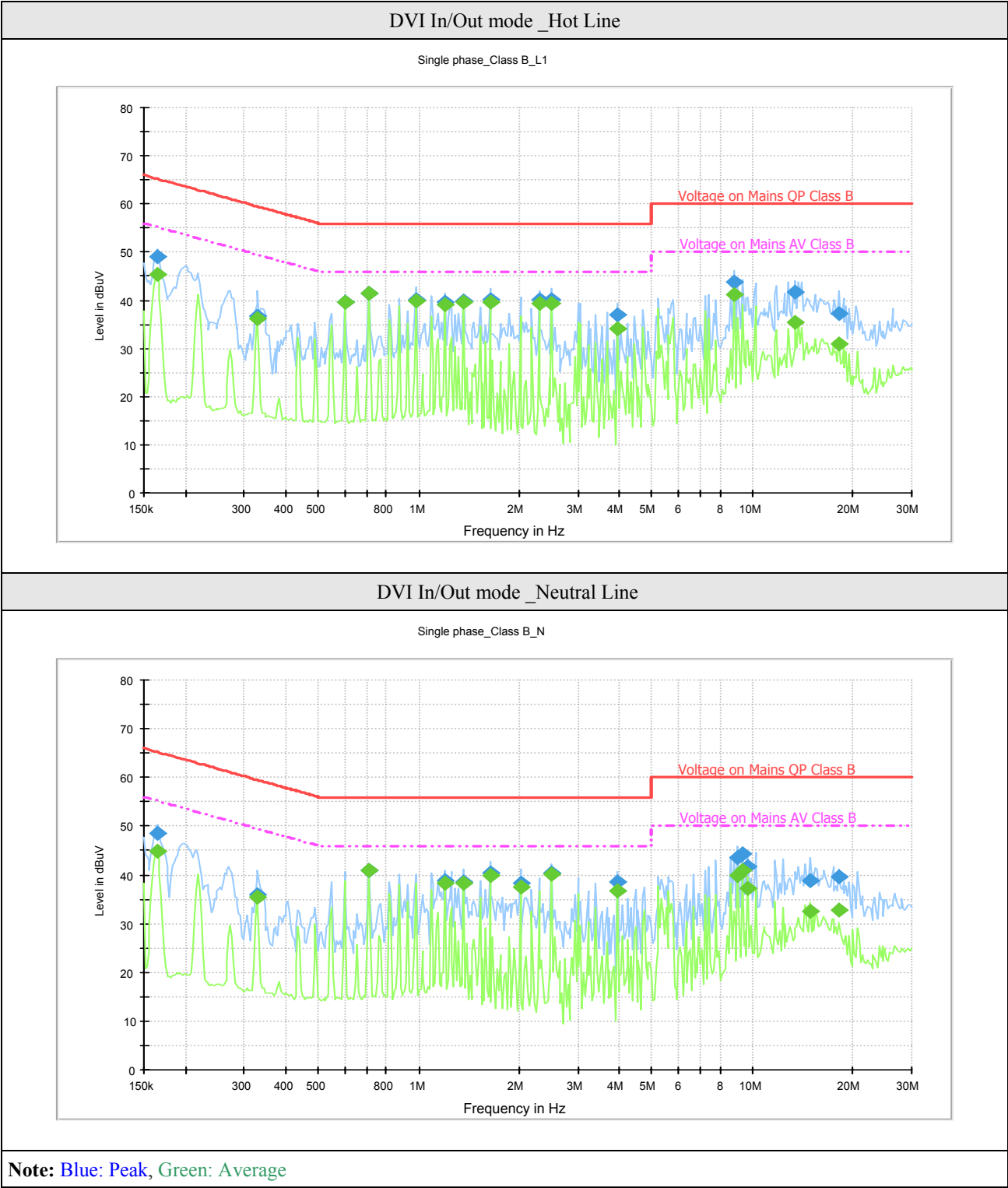
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Figure 1. Conducted Emission Test Setup



Figure 2. Graphical representation



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Table 1. Test data for conducted emission

DVI In/Out Mode											
Test Frequency (MHz)	Correction Factor (dB)		Reading value (dBuV)		Line	Level (dBuV)		Limit (dBuV)		Margin (dB)	
	Cable	LISN	QP	AV		QP		Cable	LISN	QP	AV
0.164	9.88	0.12	39.00	35.30	L	49.00	45.30	65.00	55.00	16.00	9.70
0.708	9.84	0.16	31.50	31.50	L	41.50	41.50	56.00	46.00	14.50	4.50
0.984	9.82	0.18	30.20	29.90	L	40.20	39.90	56.00	46.00	15.80	6.10
1.200	9.92	0.18	28.80	28.30	N	38.90	38.40	56.00	46.00	17.10	7.60
1.366	9.91	0.19	29.60	29.40	L	39.70	39.50	56.00	46.00	16.30	6.50
1.634	9.91	0.19	30.20	29.90	N	40.30	40.00	56.00	46.00	15.70	6.00
2.292	9.89	0.21	30.10	29.20	L	40.20	39.30	56.00	46.00	15.80	6.70
2.506	9.88	0.22	30.30	30.10	N	40.40	40.20	56.00	46.00	15.60	5.80
3.922	9.94	0.26	28.50	26.40	N	38.70	36.60	56.00	46.00	17.30	9.40
8.781	9.98	0.42	33.50	30.80	L	43.90	41.20	60.00	50.00	16.10	8.80
9.047	9.98	0.42	33.10	29.50	N	43.50	39.90	60.00	50.00	16.50	10.10
9.321	9.97	0.43	33.80	30.40	N	44.20	40.80	60.00	50.00	15.80	9.20
Note: 1. Margin (dB)= Limit (dBuV) - Level (dBuV) 2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.											

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Figure 3. Conducted Emission Test Setup

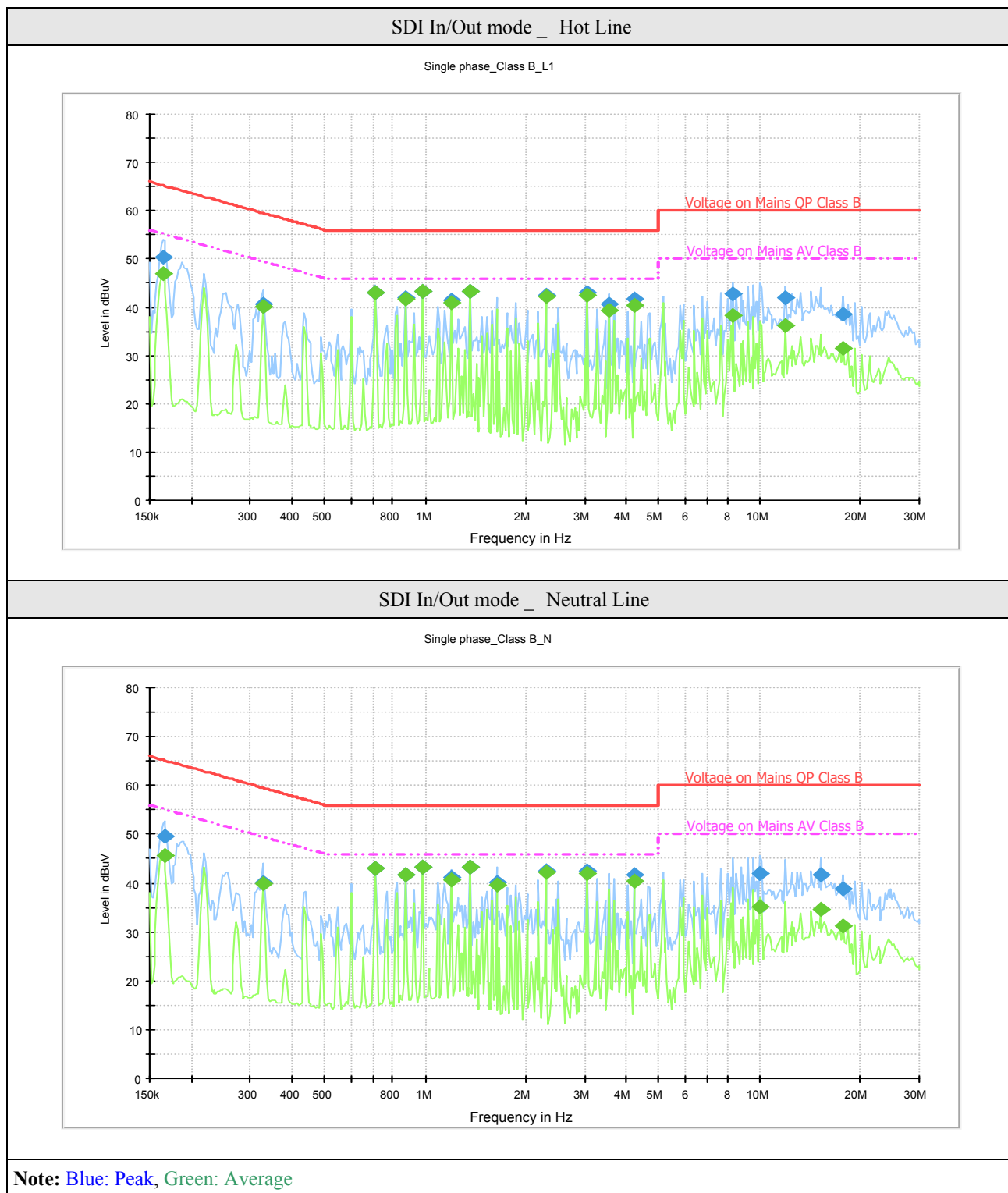


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Figure4. Graphical representation



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Table 2. Test data for conducted emission

SDI In/Out Mode											
Test Frequency (MHz)	Correction Factor (dB)		Reading value (dBuV)		Line	Level (dBuV)		Limit (dBuV)		Margin (dB)	
	Cable	LISN	QP	AV		QP	AV	QP	AV	QP	AV
0.166	9.88	0.12	39.50	35.60	N	49.50	45.60	65.00	55.00	15.50	9.40
0.708	9.84	0.16	33.10	33.10	L	43.10	43.10	56.00	46.00	12.90	2.90
0.873	9.83	0.17	31.80	31.70	L	41.80	41.70	56.00	46.00	14.20	4.30
0.984	9.82	0.18	33.40	33.30	L	43.40	43.30	56.00	46.00	12.60	2.70
1.200	9.92	0.18	31.20	30.80	L	41.30	40.90	56.00	46.00	14.70	5.10
1.366	9.91	0.19	33.10	33.10	L	43.20	43.20	56.00	46.00	12.80	2.80
1.634	9.91	0.19	30.10	29.50	N	40.20	39.60	56.00	46.00	15.80	6.40
2.292	9.89	0.21	32.50	32.10	N	42.60	42.20	56.00	46.00	13.40	3.80
3.058	9.96	0.24	32.90	32.30	L	43.10	42.50	56.00	46.00	12.90	3.50
4.205	9.93	0.27	31.60	30.30	N	41.80	40.50	56.00	46.00	14.20	5.50
9.993	9.96	0.44	31.50	24.80	N	41.90	35.20	60.00	50.00	18.10	14.80
15.178	10.01	0.69	31.00	23.90	N	41.70	34.60	60.00	50.00	18.30	15.40
Note: 1. Margin (dB)= Limit (dBuV) - Level (dBuV) 2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.											

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4. RADIATED EMISSION TEST

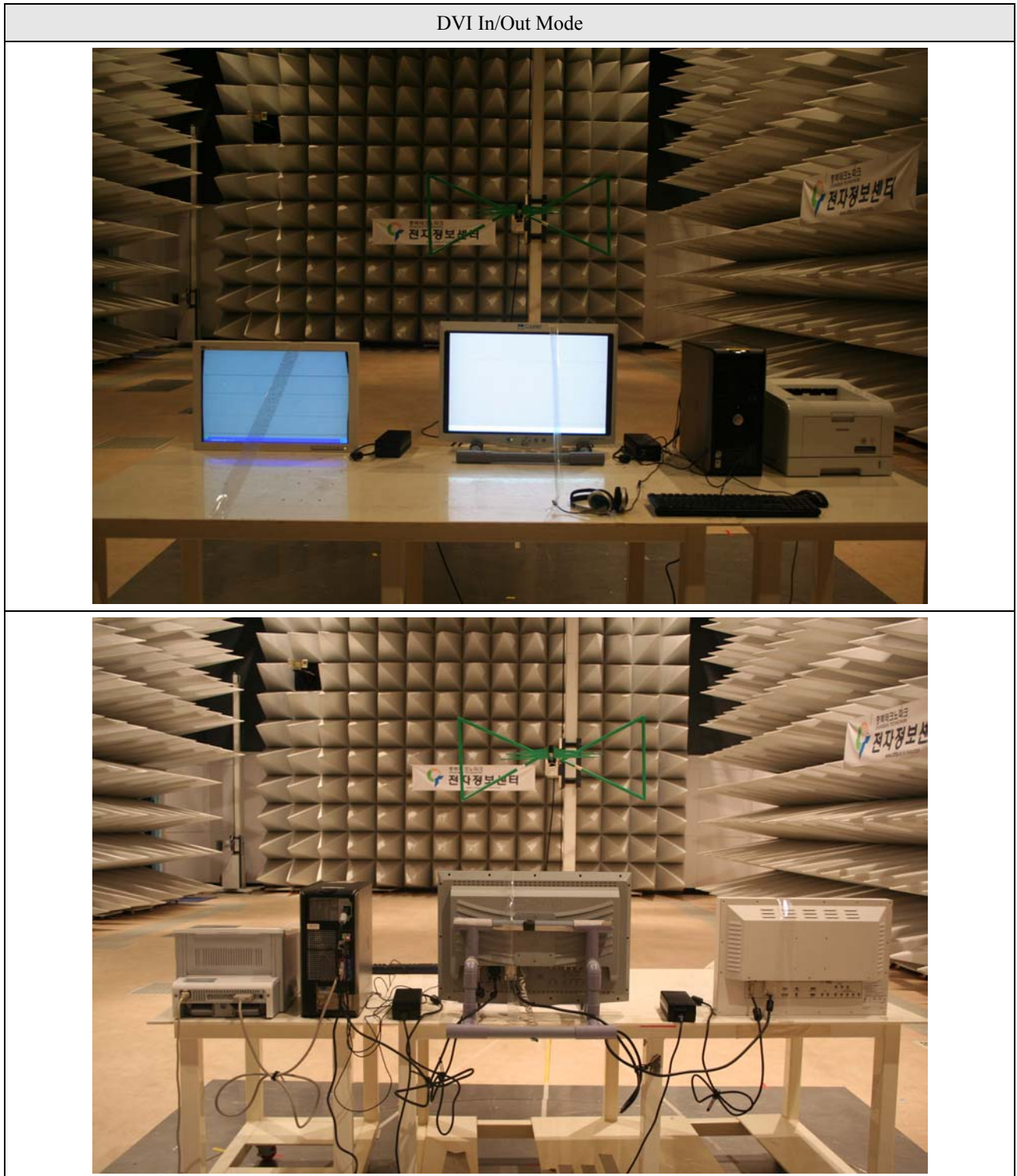
TEST: Limits for radiated disturbance				
Method	Measurements were made at Open area test site that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at 1, 2, 3 and 4 meter heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.			
Test Procedure	ANSI C63.4: 2003			
Parameters recorded during the test	Laboratory Ambient Temperature		25.1 °C	
	Relative Humidity		52.7 %	
-	Frequency range		Measurement Point	
Fully configured sample scanned over the following frequency range	30 MHz – 2.0 GHz		3 meter measurement distance	
Limits - Class B				
-	Limit (dBµV/m)			
Frequency (MHz)	Quasi-Peak		Results	
30 to 88	40.00		Pass	
88 to 216	43.52		Pass	
216 to 960	46.02		Pass	
960 to 2000	54 (Average), 74 (Peak)		Pass	
Conducted Emissions EUT Configuration Settings				
Power Interface Mode # (See Section 1.9)	EUT Operation Mode # (See 2.1)		EUT Configurations Mode # (See Section 2.3)	
1	1 and 4		1and 2	
Test Equipment Used				
Description	Manufacturer	Model	Identifier	Cal. Due
Test Receiver	Rohde & Schwarz	ESIB26	100359	2011.06.17
BiconiLog ANT	Schaffner	CBL6112D	22022	2011.10.08
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-539	2011.11.22
Position controller	Inn-co	CO 2000	11261105/L	-
Antenna Mast	Inn-co	MA 4000	-	-
Turntable	Inn-co	DT 3000	-	-

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Figure 4, Photo of Radiated emission test setup, 30 MHz to 1000 MHz



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Figure 5. Graphical representation

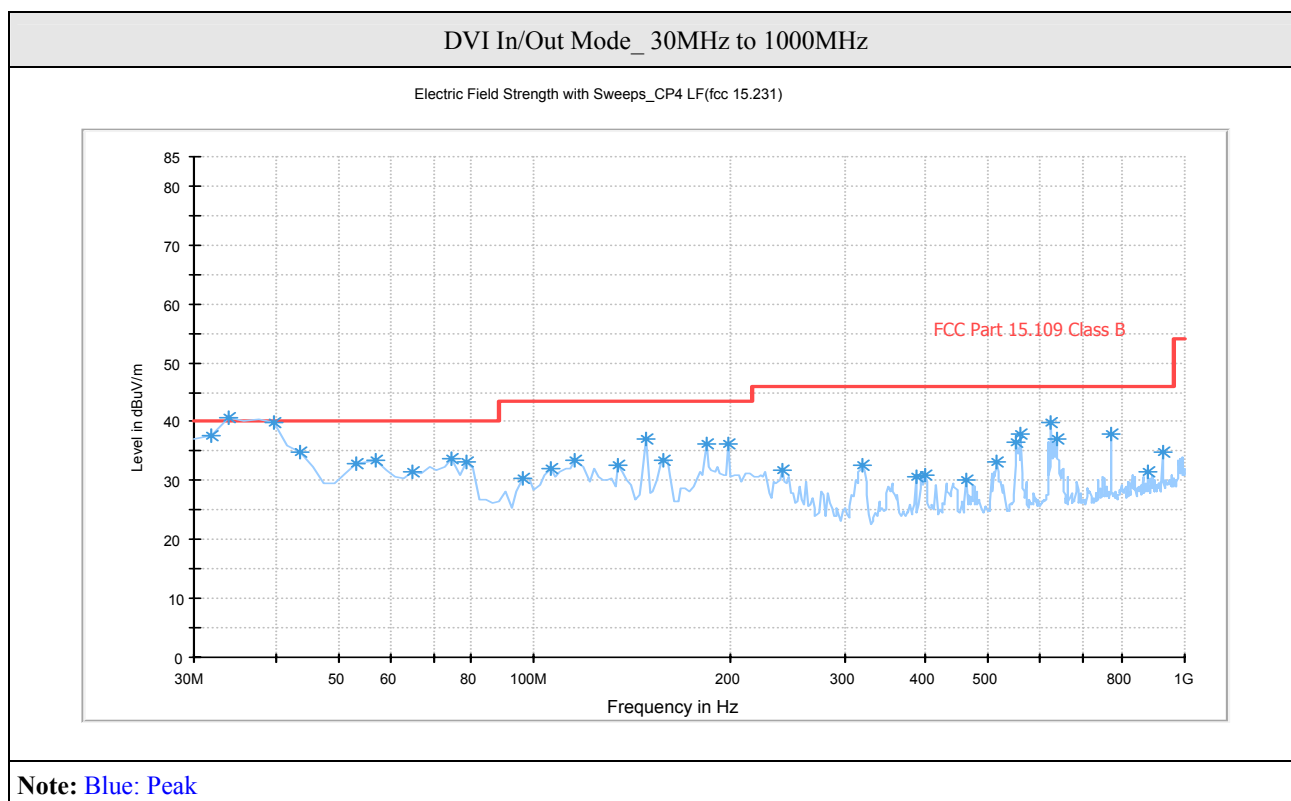


Table 3. Radiated emission Test data

DVI In/Out mode_ 30MHz to 1000MHz										
Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Gain/Loss Factor (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
35.43	19.34	QP	V	216.00	1.00	1.82	16.08	37.24	40.00	2.76
148.46	14.20	QP	V	269.00	2.00	2.02	10.48	26.70	43.50	16.81
184.69	22.70	QP	H	156.00	2.00	2.23	10.17	35.10	43.50	8.40
200.09	21.72	QP	H	291.00	1.00	2.41	10.49	34.62	43.50	8.88
624.17	9.32	QP	V	44.00	2.00	4.29	18.21	31.82	46.00	14.18
769.48	16.51	QP	H	143.00	1.00	4.88	18.52	39.91	46.00	6.09

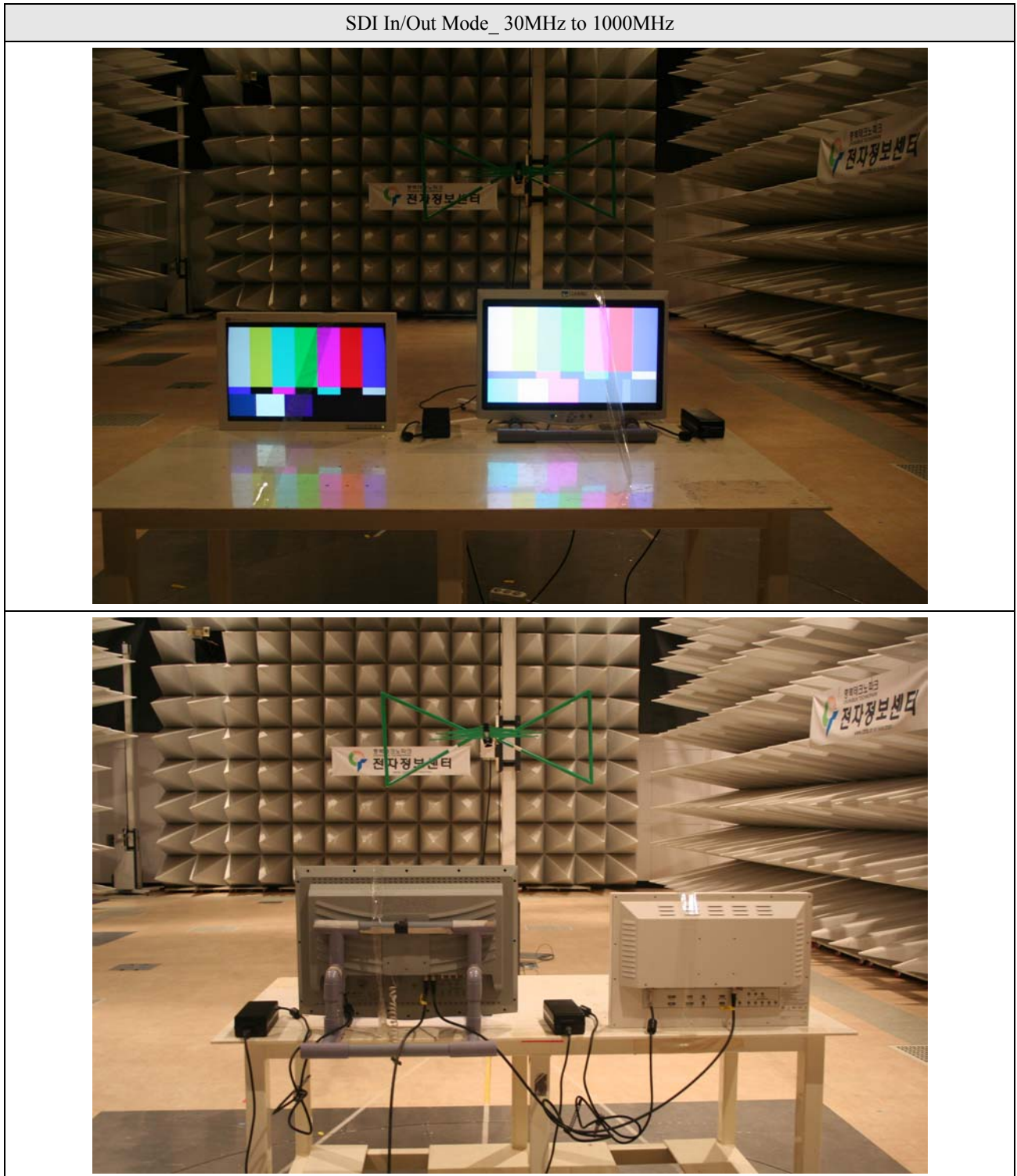
Note:
1. Margin (dB)= Limit (dBuV) - Level (dBuV)
2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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Figure 6, Photo of Radiated emission test setup



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Figure 7. Graphical representation

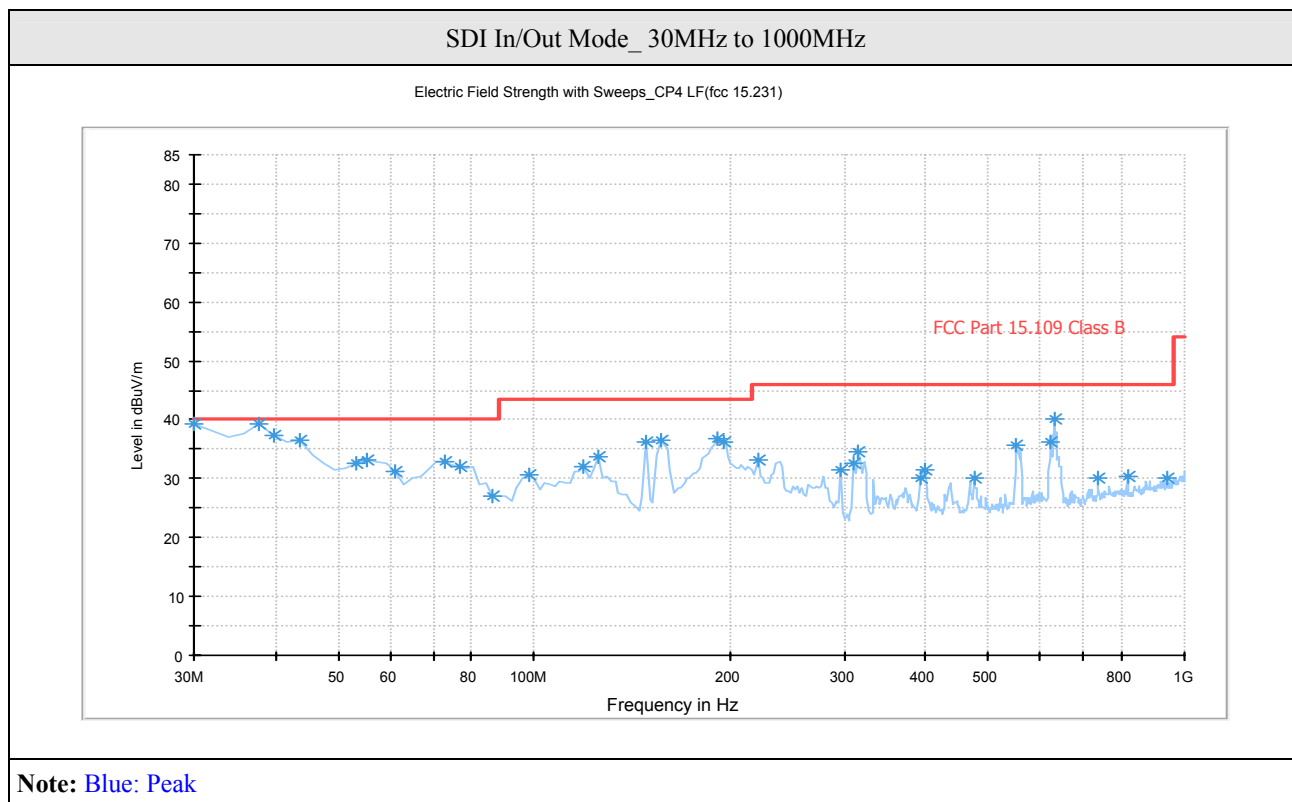


Table 4. Radiated emission Test data

SDI In/Out Mode_ 30 MHz to 1000 MHz										
Test Frequency (MHz)	Meter Reading (dBuV)	Detector (Pk/QP)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (m)	Gain/Loss Factor (dB)	Antenna Factor (dB/m)	Level dBuV/m	Limit dBuV/m	Margin (dB)
31.68	14.84	QP	V	113.00	1.00	1.57	17.63	34.04	40.00	5.96
148.53	22.72	QP	H	275.00	2.00	2.02	10.48	35.22	43.50	8.28
158.43	19.90	QP	H	0.00	1.00	2.16	10.24	32.30	43.50	11.20
191.98	20.79	QP	H	128.00	1.00	2.28	10.32	33.39	43.50	10.11
630.66	11.38	QP	V	32.00	2.00	4.31	18.19	33.88	46.00	12.12

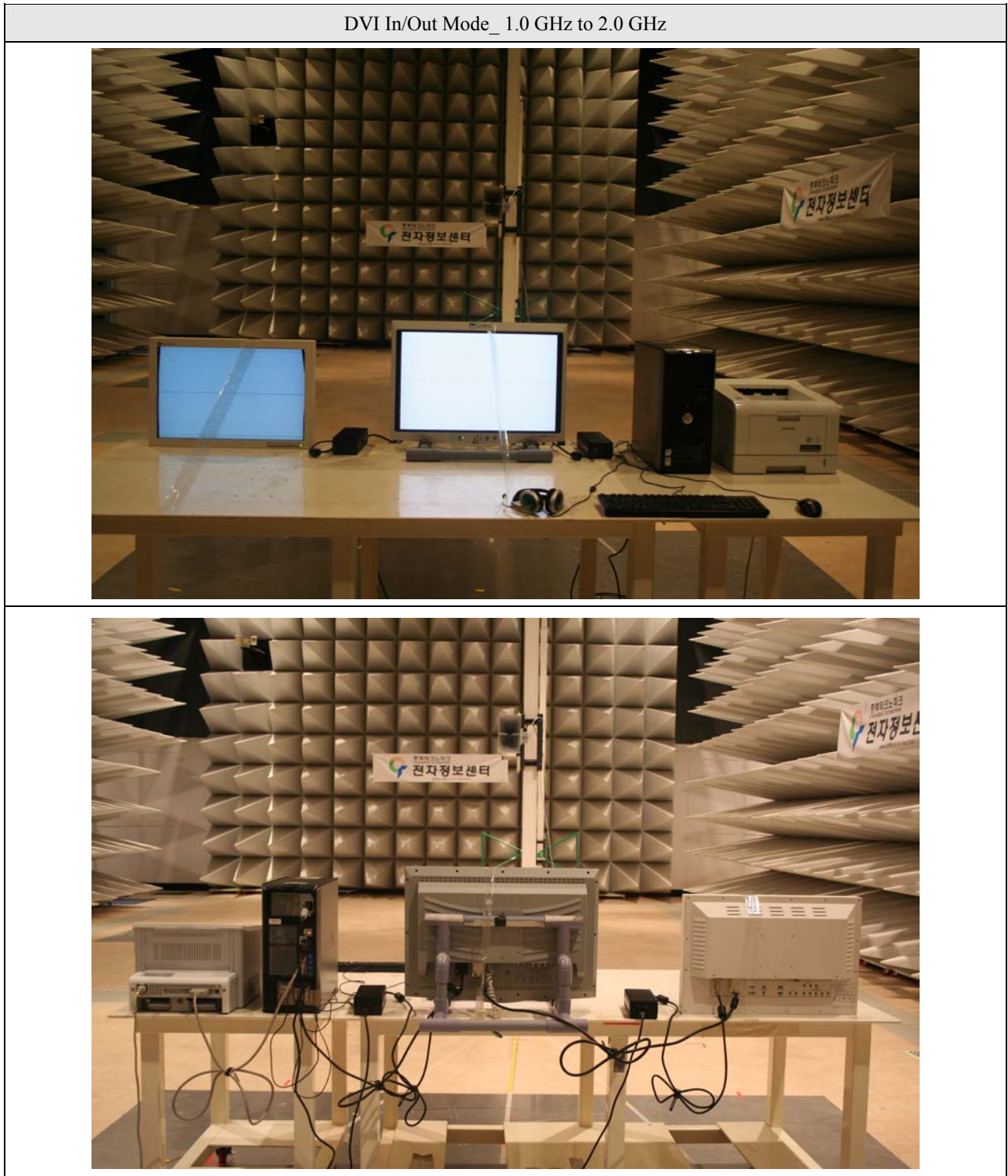
Note:
1. Margin (dB)= Limit (dBuV) - Level (dBuV)
2. If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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Figure 8. Photo of Radiated emission test setup

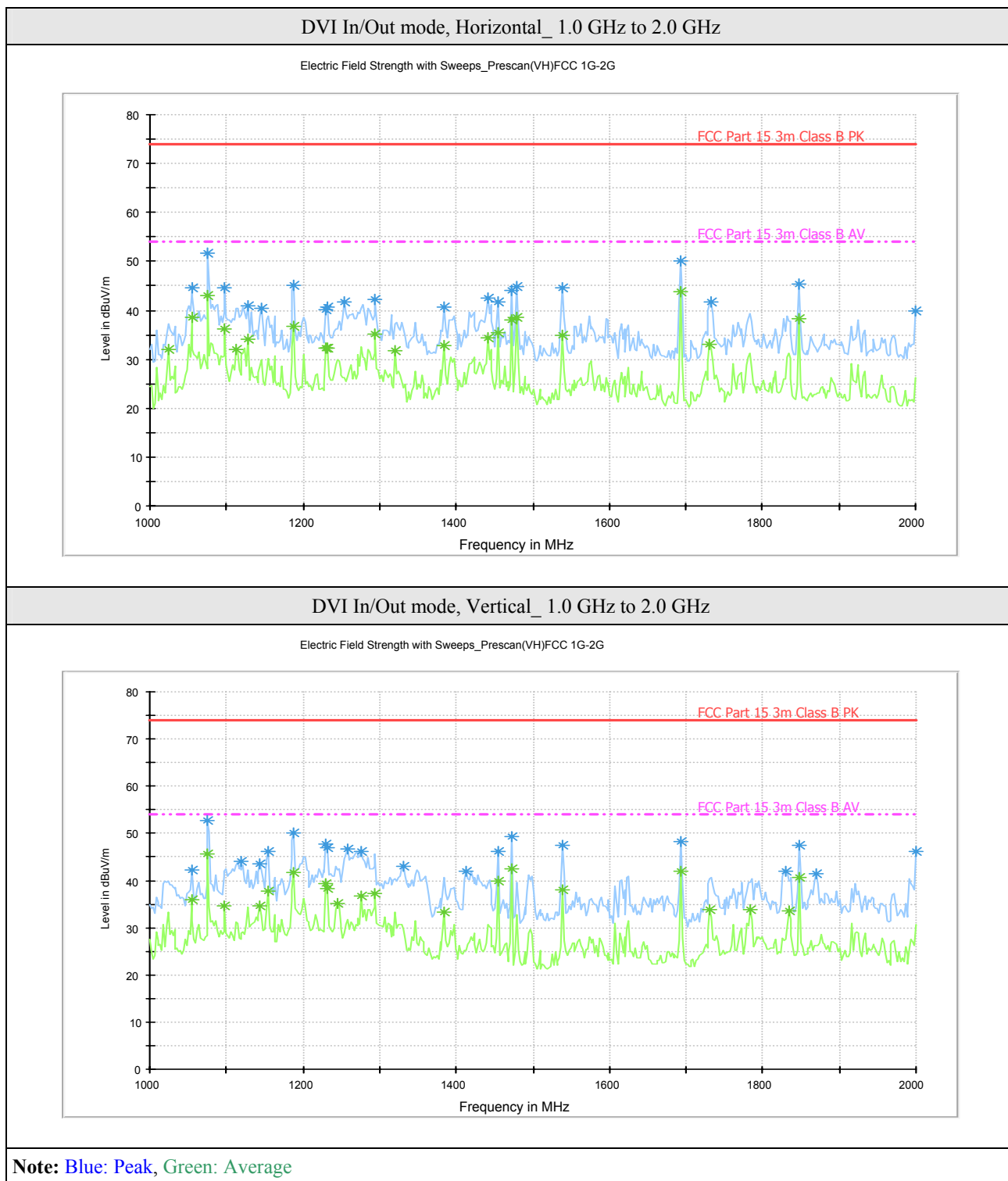


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Figure 9. Graphical representation



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Table 5. Radiated emission Test data, DVI In/Out mode, 1.0 GHz to 2.0 GHz

Frequency (MHz)	Correction Factor			Antenna Height (m)	Peak				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1076.15	24.18	41.17	5.19	1.00	V	74.00	64.50	52.70	21.30
1693.39	24.70	41.69	6.69	1.00	H	74.00	60.40	50.10	23.90
1188.38	24.33	41.00	5.27	1.00	V	74.00	61.40	50.00	24.00
1472.95	24.96	41.36	5.70	1.50	V	74.00	60.00	49.30	24.70
1693.39	24.70	41.69	6.69	1.00	V	74.00	58.50	48.20	25.80
1230.46	24.56	41.00	5.14	1.50	V	74.00	59.00	47.70	26.30
Note: 1. Margin (dB)= Limit (dBuV) - Result (dBuV) 2. Result (dBuV) = Reading (dBuV) + Antenna (dB)+ Cable (dB) – Amp (dB).									

Table 6. Radiated emission Test data, DVI In/Out mode, 1.0 GHz to 2.0 GHz

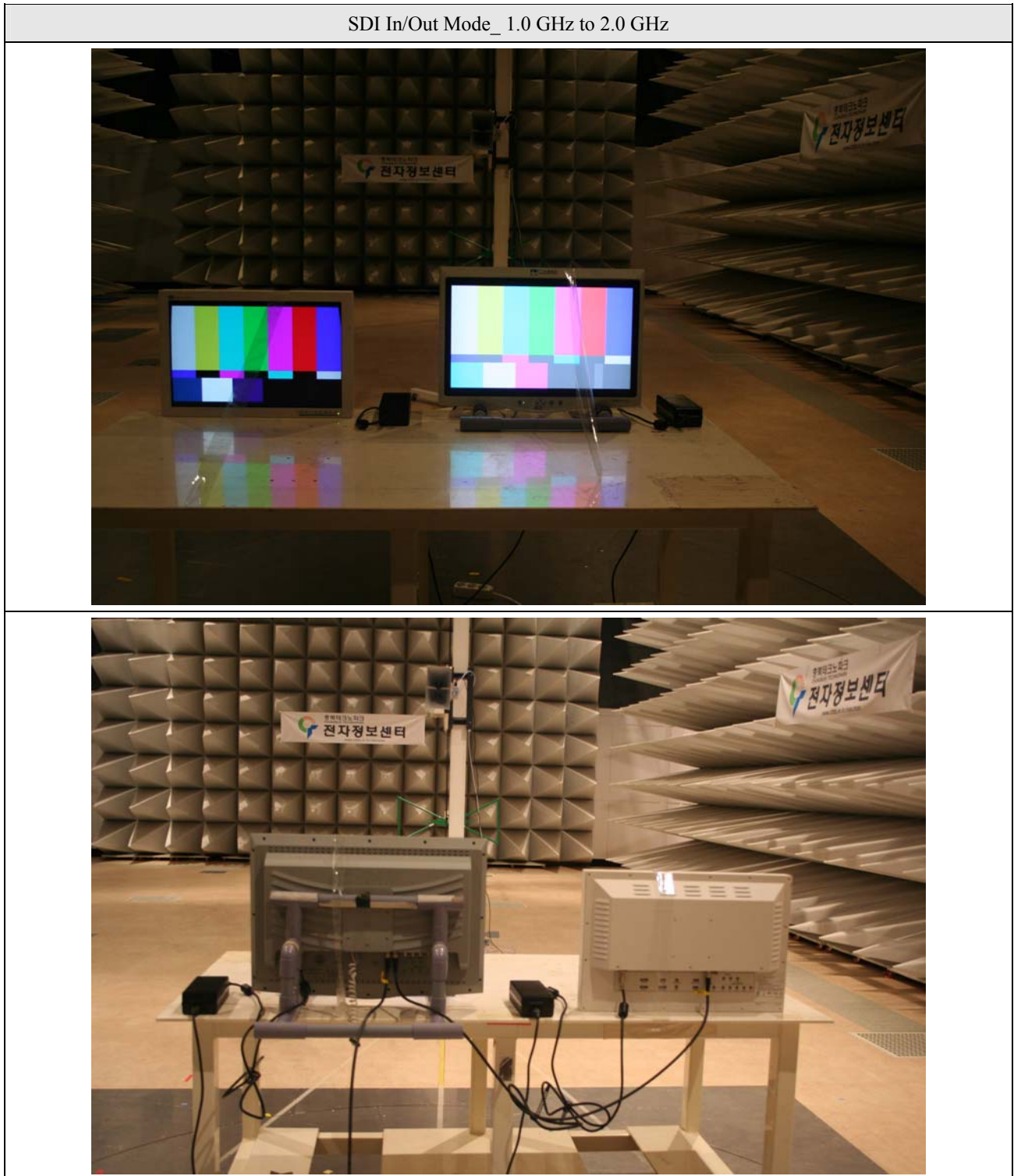
Frequency (MHz)	Correction Factor			Antenna Height (m)	Average				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1076.15	24.18	41.17	5.19	1.00	V	54.00	57.40	45.60	8.40
1693.39	24.70	41.69	6.69	1.00	H	54.00	54.00	43.70	10.30
1076.15	24.18	41.17	5.19	1.50	H	54.00	54.90	43.10	10.90
1472.95	24.96	41.36	5.70	1.50	V	54.00	53.10	42.40	11.60
1693.39	24.70	41.69	6.69	1.00	V	54.00	52.30	42.00	12.00
1188.38	24.33	41.00	5.27	1.00	V	54.00	53.00	41.60	12.40
Note: 1. Margin (dB)= Limit (dBuV) - Result (dBuV) 2. Result (dBuV) = Reading (dBuV) + Antenna (dB)+ Cable (dB) – Amp (dB).									

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Figure 10. Photo of Radiated emission test setup

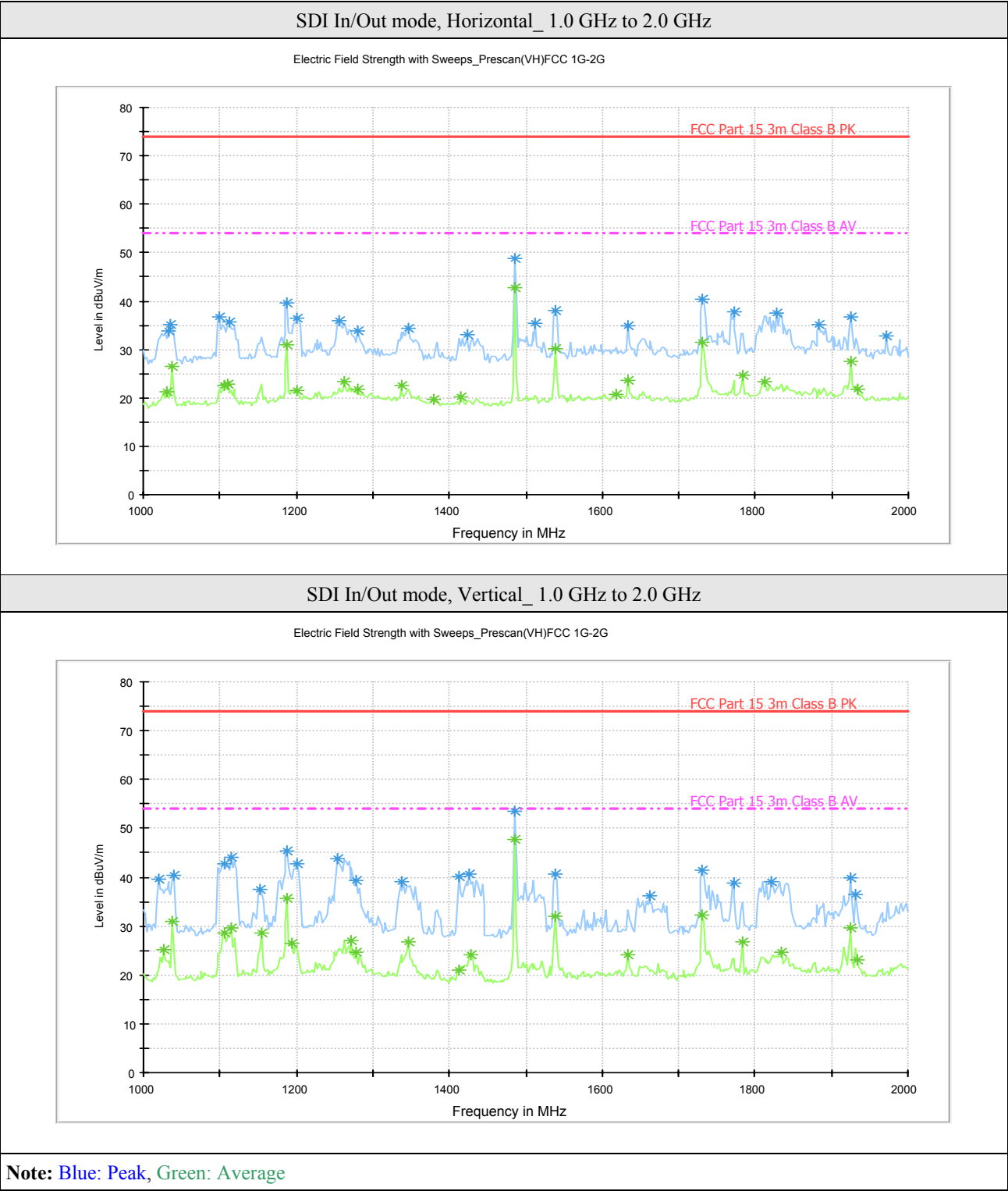


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Figure 11. Graphical representation



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Table 7. Radiated emission Test data, SDI In/Out mode, 1.0 GHz to 2.0 GHz

Frequency (MHz)	Correction Factor			Antenna Height (m)	Peak				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1484.97	24.94	41.42	5.89	1.00	V	74.00	64.19	53.60	20.40
1188.38	24.33	41.00	5.27	1.00	V	74.00	56.70	45.30	28.70
1114.23	24.19	41.00	5.31	2.00	V	74.00	55.60	44.10	29.90
1254.51	24.72	41.00	5.08	1.00	V	74.00	55.10	43.90	30.10
1106.21	24.17	41.00	5.23	1.50	V	74.00	54.40	42.80	31.20
1200.40	24.35	41.00	5.25	1.00	V	74.00	54.20	42.80	31.20
Note: 1. Margin (dB)= Limit (dBuV) - Result (dBuV) 2. Result (dBuV) = Reading (dBuV) + Antenna (dB)+ Cable (dB) – Amp (dB).									

Table 8. Radiated emission Test data, SDI In/Out mode, 1.0 GHz to 2.0 GHz

Frequency (MHz)	Correction Factor			Antenna Height (m)	Average				
	Antenna (dB/m)	Amp (dB)	Cable (dB)		Polarity	Limit (dBuV/m)	Reading (dBuV)	Result (dBuV)	Margin (dB)
1484.97	24.94	41.42	5.89	1.00	V	54.00	58.39	47.80	6.20
1188.38	24.33	41.00	5.27	1.50	V	54.00	47.10	35.70	18.30
1731.46	24.78	41.73	6.85	1.50	V	54.00	42.40	32.30	21.70
1539.08	24.88	41.54	6.15	1.50	V	54.00	42.61	32.10	21.90
1731.46	24.78	41.73	6.85	1.00	H	54.00	41.50	31.40	22.60
1038.08	24.22	41.43	5.32	1.00	V	54.00	42.99	31.10	22.90
Note: 1. Margin (dB)= Limit (dBuV) - Result (dBuV) 2. Result (dBuV) = Reading (dBuV) + Antenna (dB)+ Cable (dB) – Amp (dB).									