Underwriters Laboratories Inc.



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Order: 10094335

Report: 13-10094335-FCC

Date: Dec. 5, 2013

Model: AMM261WTD

Electromagnetic Compatibility Test Report

For

LCD Color Medical Monitor

ADVAN INT'L CORP 47817 Fremont Blvd., Fremont, CA 94538 U.S.A.

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Order Number: 10094335 Page 2 of 29

Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

Summary of Test Results:

The following tests were performed on a sample submitted for evaluation of c	ompliance 47 CFR Part
15.107 (a) / 47 CFR Part 15.109 (a) Class B.	

Test #	Test Name Test Requirement/Specification	Compliant	Not Compliant	See Remark
1	AC Power line Conducted Emission Test	X	-	-
2	Radiated Emission Test	X	-	-

^{*}Note: No modifications were made to the EUT in order to achieve and maintain compliance to the standards described in this report.

Conclusion:

The tests listed in the Summary of Testing section of this report have been performed as a witness testing and the results recorded by UL Korea Ltd. in accordance with the procedures stated in each test requirement and specification. The test list was determined by the Applicant as being 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
---------------	-------	------	-----

Wiet the technical requirement		let the technical requ	uirements
--------------------------------	--	------------------------	-----------

Met the technical requirements under the limited condition

Not met the technical requirements

Witnessed by

Changmin, Kim, WiSE Engineer

UL Verification Services – 3014ASEO

UL Korea Ltd.

Dec. 5, 2013

Reviewed by

Jeawoon, Choi, WiSE Operations Manager

UL Verification Services- 3014ASEO

UL Korea Ltd.

Dec. 5, 2013

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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

Test Report Details

Test report No: 13-10094335-FCC Witnessed By: UL Korea Ltd.

33rd FL. GFC Bldg. 737 Yeoksam-dong, Kangnam-ku, Seoul, 135-984,

Korea

Test Site: Digital EMC Co., Ltd

683-3, Yuban-Dong, Cheoin-Gu, Yongin-Si, Kyunggi-Do, 449-080, Korea The test facility was deemed to have the environment and capabilities

necessary to perform the tests included in the test package.

Applicant: ADVAN INT'L CORP

47817 Fremont Blvd., Fremont, CA 94538 U.S.A.

Manufacturer: ADVAN INT'L CORP

47817 Fremont Blvd., Fremont, CA 94538 U.S.A.

Factory: D&T Inc.

(JANG-DONG, (DAEDEOK VALLEY))

26-121 GAJEONGBUK-RO, YUSEONG-GU, DAEJEON 305-343,

KOREA

Applicant Contact: Jun Ho Jang

Phone: 82-70-7842-8018

E-mail: andyjang@advancorp.com

Product Type: LCD COLOR MEDICAL MONITOR

Model Number: AMM261WTD

Multi-listing model number: N/A

The manufacturer has declared to all the multiple model names into the basic

model without any further evaluation by UL.

FCC ID: QVXAMM261WTD

Trademark: N/A

Product standards: FCC Part 15 Subpart B
Test Procedure: ANSI C63.4: 2003

Sample Serial Number: N/A

Sample Receive Date: Nov. 6, 2013
Testing Start Date: Nov. 7, 2013
Date Testing Complete: Nov. 30, 2013

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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Order Number:

Client Name: ADVAN INT'L CORP.

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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

1. GENERAL PRODUCT DESCRIPTION

1.1 Report Revision History:

Revision Date	Description	Remarks
-	Original	-

1.2 Equipment Description:

Description:
Auto - Scanning with digital control LCD color medical monitor

1.3 Details of Equipment Under Test (EUT):

	Equipment Configuration:			
No.	Product Type	Manufacturer	Model	Comments
1	LCD Color Medical Monitor	ADVAN Int'l Corp.	AMM261WTD	-
2	AC/DC Adapter	BridgePower Corp.	BPM150S24F10	1 EA
3	DC Extension Cable	-	CB-47D2001P50MF	5 ft
4	DC Extension Cable	-	CB-47D2004P57MF	15 ft
5	DC Extension Cable	-	CB-47D2022P86MF	75 ft
6	DVI-D cable	-	-	1 EA
7	HD15 VGA cable	-	-	1 EA
8	Hospital-grade AC power cord	-	-	1 EA
9	BNC Cable	-	-	8 EA
10	S-Video (Y/C) Cable	-	-	1 EA

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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

1.4 Technical Data:

Model	AMM261WTD		
Description	a-Si TFT Active Matrix, LED Bac	klight	
Active Screen Size	26 inches diagonal		
Resolution	1920 (H) x 1080 (V) @60Hz		
Pixel Pitch	0.30 mm		
Display Color	1.07B colors		
Color Tone	Up to 256 color tone		
Response Time	<25ms Typ.		
Face Finishing	Protective Filter with Anti-Reflect	ted Hard Coated	
Viewing Angle	R/L 178°, U/D 178° (CR > 10)		
Brightness**	450 cd/m2 (Typ.)		
Contrast Ratio	1400:1 (Typ.)		
Input		Output	
	BNC x 1		BNC x 1
Composite Video	1.0 Vp-p	Composite Video	1.0 Vp-p
	4 pin Mini Din x 1		4 pin Mini Din x 1
VIC Vides	Luminance (Y): 1.0± 0.1Vp-p	V/C \/54	Luminance (Y): 1.0± 0.1Vp-p
Y/C Video	Chrominance (C): 0.3±	Y/C Video	Chrominance (C): 0.3±
	0.03Vp-p		0.03Vp-p
	BNC x 5 (Y/Pb/Pr , RGBs , R/G/B/H/V)		BNC x 5 (Y/Pb/Pr , RGBs , R/G/B/H/V)
	RGB: 0.7 ± 0.1 Vp-p	†	RGB: 0.7 ± 0.1 Vp-p
Component/RGB	Composite Sync : 0.3Vp-p ~	Component/RGB	Composite Sync : 0.3Vp-p ~
	5Vp-p	╛	5Vp-p
	H/V SYNC : TTL Level		H/V SYNC : TTL Level
SDI1/2	3G/HD/SD SDI, BNC x1	SDI1/2	3G/HD/SD SDI, BNC x1
	15pin D-Sub x 1	↓	
VGA	R/G/B: 0.7 ± 0.1 Vp-p	↓	
	H/V Sync : TTL Level (V high ≥2.3V, V low ≤0.5V)	1	
DVI	DVI-I x 1	⅃	
Remote Input	9-pin D-Sub (RS-232C) x 1		
Scanning Frequency Horizontal: 31.47~80.0Khz Vertical: 50~85Hz			
General			
	AC 100 ~ 240V 50-60Hz, 2.0A		
Power Adaptor	DC 24V, 6.25A		
Power Consumption	TBD W		
Dimension	643.7(W) x 394.8 (H) x 79.8 (D)	mm	
	Monitor : TBD		
Weight	AC adaptor : TBD		
VESA Mounting	100mm x 100mm		
Operating/Storage Er	•		
Operating Tempera- ture			
Operating Humidity	20% ~ 80%, non-condensing		
Storage Temperature	-4° ~ 140°F (-20° - 60°C)		
Storage Humidity	· · · · · · · · · · · · · · · · · · ·		
Compliance &Certifica	· · · · · · · · · · · · · · · · · · ·		
Safety		A-C22.2 No.6011-M90), (i0950-1), IP23 Complian	CE (EN60601-1), AS/NZS 3200-1-0.
	FCC (Part 15 Class B), CE (EN60601-1-2), AS/NZS 3200-1-2, VCCI (Class B), CCC (GB9254, GB17625.1)		
EMC	(GB9254, GB17625.1)		
	(GB9254, GB17625.1)		
Optional Module DC Extension Cable	(GB9254, GB17625.1) 5ft, 15ft, 75ft length		

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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

1.5 EUT Internal Operating Frequency

Frequency (MHz)	Description	Frequency (MHz)	Description
324.0 MHz	Memory Clock	27.0 MHz	System Clock
148.5 MHz	Display Clock	10.0 MHz	System Clock

1.6 Technical descriptions and documents:

No.	No. Document Title and Description			
1	AMM261WTD User Manual			
*Note:	*Note: The manufacturer provided the following document.			

1.7 Detail information of Multi-listing model:

-	Model	Description	Comment
1	-	-	-

*Note: The manufacturer has declared to all the multiple model names into the basic model without any further evaluation by UL.

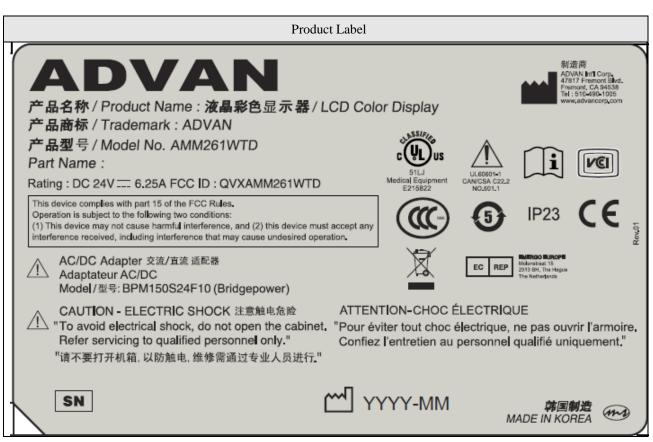
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Client Name: ADVAN INT'L CORP.

AMM261WTD

1.8 Equipment Marking Plate of Product:

Model Number:



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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

2. TEST CONDITION

2.1 Equipment Used During Test:

Use*	Product Type	Manufacturer	Model	Certify No.	Comments	
EUT	LCD Color Medical Monitor	ADVAN Int'l Corp.	AMM240WTD	-	EUT	
EUT	AC/DC Adapter	BridgePower Corp.	BPM150S24F10	-	-	
EUT	DC Extension Cable	-	CB-47D2001P50MF	-	5ft	
EUT	DC Extension Cable	-	CB-47D2004P57MF	-	15ft	
EUT	DC Extension Cable	-	CB-47D2022P86MF	-	75ft	
AE	PC	DELL	VOSTRO460	DoC	DVI, VGA Source	
AE	Keyboard	S&J	KB-065	DoC	-	
AE	Mouse	НР	N/A	DoC	-	
AE	DVD Player	Sony	DVP-NS92V S/N: 2000407	DoC	C-Video, S-Video, Component source	
AE	LCD Monitor	ADVAN Int'l Corp.	AMM240WTD	FCC ID:	-	
AE	Adapter (Monitor)	BridgePower Corp.	BPM150S24F11	QVXAMM240WTD	-	

^{*}Note: EUT - Equipment Under Test,

AE - Auxiliary/Associated Equipment,

SIM - Simulator (Not Subjected to Test)

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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

2.2 Input/Output Ports:

Port	Name	Type*	Cable	Cable	Comments
#			Max. >3m	Shielded	
1	Mains(EUT)	AC	1.8 m	Unshielded	Hospital-grade AC power cord
2	DVI	I/O	3.0 m	Shielded	24 pin DVI-D
3	VGA	I/O	2.0 m	Shielded	15 PIN D-SUB
4	CVBS	I/O	3.0 m	Shielded	BNC
5	RGB/COPONENT	I/O	3.0 m	Shielded	BNC
6	S-Video	I/O	3.0 m	Shielded	S-Video
8	Power(DVD)	AC	1.8m	Un Shielded	
9	Power(AE Monitor)	AC	1.8m	Un Shielded	
10	Power(AE PC)	AC	1.8m	Un Shielded	
11.	USB(Keyboard)	I/O	1.2m	Shielded	
12.	USB(Mouse)	I/O	1.2m	Shielded	

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.

2.3 Power Interface:

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Comments
Rated	AC 100-240 V	2 A	-	50-60Hz	Rated of Power Supply
1	AC 120 V	-	-	60Hz	-

2.4 Test Operating Mode:

Mode #	Mode	Comments
1	DVI Mode	Worst case condition
2	VGA Mode	-
3	SDI In/Out Mode	Worst case condition
4	S-VIDEO In/Out Mode	-
5	C-Video In/Out Mode	-
6	Component In/Out Mode	-

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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

* 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 have been performed under continuous displaying "H" Patten for configuration Modes of 1 to 2
- 3. EUT has been performed under continuous displaying "Color Bar" Patten for configuration Modes of 3 to 6.

2.5 Modes of Video Resolution:

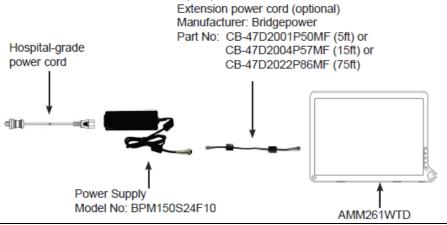
1	Mode #	Resolution	Comments			
1	VGA Mode	800 * 600 @ 60Hz	-			
2		1024 * 768 @ 60Hz	-			
3		1920 * 1200 @ 60Hz	Worst case condition (Range of Brightness: 100, Range of contrast: 100 And range of backlight: 100.			
4	SDI Mode	1080i	Worst case condition (Range of Brightness: 100, Range of contrast: 100 And range of backlight: 100.			

^{*} Note: Video resolution where it refers from above is representative worst case.

2.6 Used D.C. Extension Cable for Test:

No.	Cable Length	Preliminary Test	Comment
1	5ft	DVI, VGA, SDI, S-Video,	-
2	15ft	C-Video, Component Mode.	-
3	75ft		Selected for Worst case condition

* Note: Radiated emission and conducted emission test were performed for all extension power cable during the preliminary testing and selected worst-case condition (75ft) for final measurements.

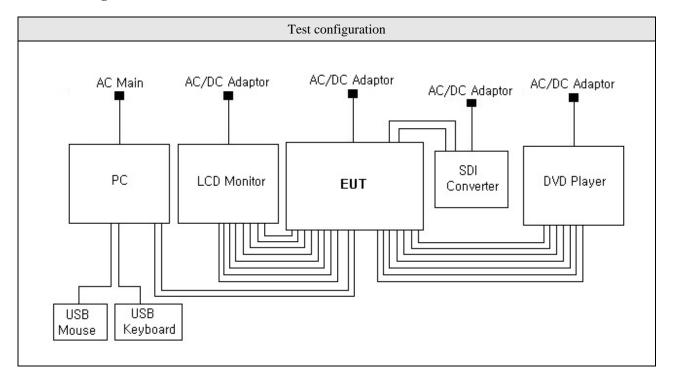


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Client Name: ADVAN INT'L CORP.

2.7 Test Configuration:



2.8 Result of Testing:

No	Test requirements	Standard	Results	Verdict
1	AC Power line Conducted Emission Test	47 CFR Part 15.107(a) / 47 CFR Part 15.109(a) Class B	Met limit Class B	Complied
2	Radiated Emission Test	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Met limit Class B	Complied

^{*} Note: This product has been tested in accordance with the measurement procedures specified 47 CFR Part 15.107 (a) / 47 CFR Part 15.109 (a) Class B at the Digital EMC Laboratory and the test results has been shown to be complied with the EMC requirements specified in the standard above.

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Client Name: ADVAN INT'L CORP.

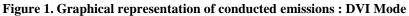
3. TEST CONDITION AND RESULTS

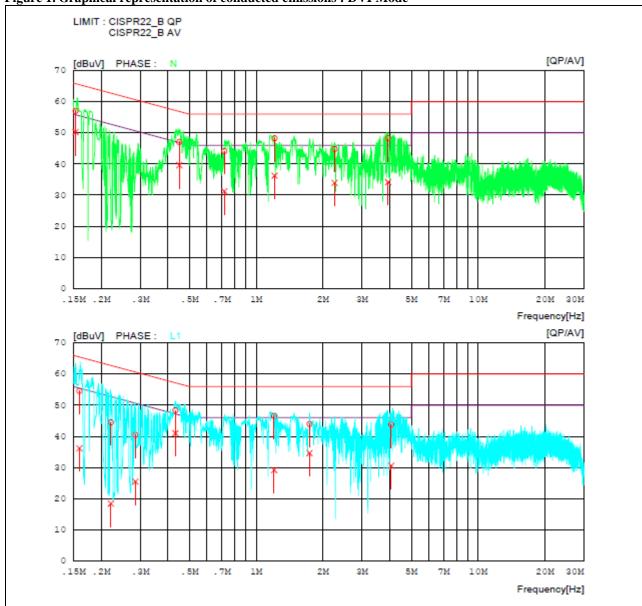
3.1 MAINS TERMINAL DISTURBANCE VOLTAGE TEST

	TEST	: Limi	ts of mains te	rminal distu	ırbance v	voltag	e			
Method	the system under	test.	All power wa	s connected	l to the s	ystem	through A	rtifici	eyond all sides of al Mains e at the output of	
Basic Standard		F	FCC Part 15							
Development and a second a	d dessions that the	I	Laboratory Ambient Temperature				22 °C			
Parameters recorded	d during the test	F	Relative Hum	idity			47 %			
-		F	Frequency ran	ge on each	side of li	ine	Measuren	nent P	oint	
Fully configured sa following frequency		the 1	50 kHz to 30	MHz			AC Input	port o	of EUT	
			Limits -	Class B						
			Limit (dBµV)							
Frequency (MHz) Quasi-F			Res	ult	1	Average		Result		
0.15 to 0.50	66 to 56		Pas	:	56 to 46			Pass		
0.50 to 5	56		Pass			46			Pass	
5 to 30	60		Pass			50			Pass	
		E	UT Configur	ation Setti	ngs:					
Power Interf	ace Mode #		EUT Opera	tion Mode #	#	EUT Configurations Mode #			tions Mode #	
(See Sec	tion 2.3)		(See	2.4)			(See	Secti	on 2.7)	
1			1.	, 3				1		
	Co	nducte	ed Emissions	Test Equip	oment us	sed:				
Description	Manufacturer	Mode	·1	Identifier		Cal.	Date	(Cal. Due	
EMI Test Receiver	R & S		ESCI	1003	664	2	2013.02.27		2014.02.27	
LISN	R & S	E	ESH2-Z5	828739	9/006	2	2013.09.12		2014.09.12	
LISN	TTI	L	ISN1600	1972	04	2013.06.28			2014.06.02	
50 ohm Terminator	TME		CT-01			2013.01.08			2014.01.08	

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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

Table 1. Conducted emissions Test data: DVI Mode

				~ == ~= ~=							
NO	FREQ	READ		C.FACTOR			LIM			GIN	PHASE
		QP	AV	r 1= 1	QP	AV	QP	AV	QP	AV	
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]]
1	0.15350	56.9	50.1	0.1	57.0	50.2	65.8	55.8	8.8	5.6	N
2	0.45027	47.0	39.5	0.1	47.1	39.6	56.9	46.9	9.8	7.3	N
3	0.71872	43.9	31.1	0.2	44.1	31.3	56.0	46.0	11.9	14.8	N
4	1.21120	48.1	36.1	0.2	48.3	36.3	56.0	46.0	7.7	9.7	N
5	2.25640	44.5	33.6	0.3	44.8	33.9	56.0	46.0	11.2	12.1	N
6	3.93000	47.9	33.8	0.4	48.3	34.2	56.0	46.0	7.7	11.8	N
7	0.15972	54.5	36.1	0.1	54.6	36.2	65.5	55.5	10.9	19.3	L1
8	0.22134	44.4	18.3	0.1		18.4	62.8	52.8	18.3		L1
9	0.28540	40.4	25.4	0.1	40.5	25.5	60.7	50.7	20.2	25.2	L1
10	0.43264		40.9	0.1		41.0	57.2	47.2	8.8	6.2	L1
11	1.20480		29.0	0.2		29.2	56.0	46.0		16.8	L1
12	1.74000		34.3	0.3		34.6	56.0	46.0		11.4	L1
13	4.06360			0.4		30.6	56.0	46.0	12.2		L1

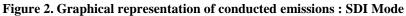
* Note

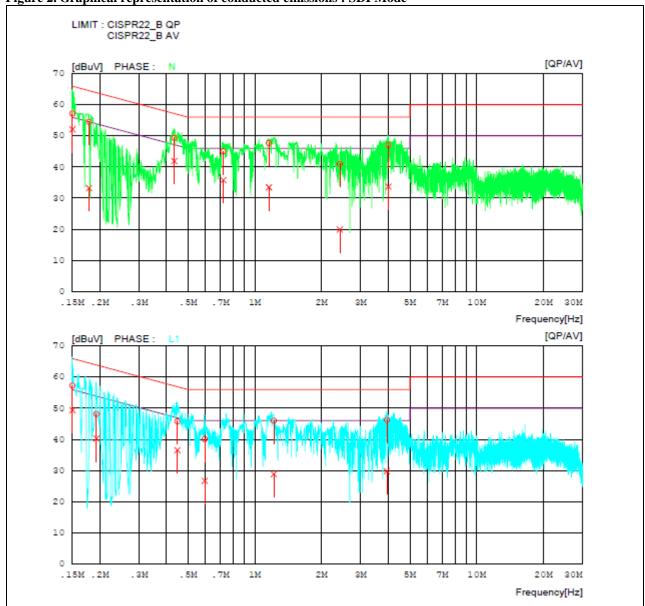
^{1.} Margin (dB)= Limit (dBuV) - Level (dBuV)

^{2.} If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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Model Number: AMM261WTD





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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

Table 2. Conducted emissions Test data: SDI Mode

	CISPR22	_B AV										
NO	FREQ	READ		C.FACTOR	RES		LIM			GIN	PHASE	
	[MHz]	QP [dBuV]	AV [dBuV]	[dB]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]]	
1	0.15086	57.1	52.0	0.1	57.2	52.1	66.0	56.0	8.8	3.9	N	
2	0.17932	54.4	33.1	0.1	54.5	33.2	64.5	54.5	10.0	21.3	N	
3	0.43421	49.3	41.8	0.1	49.4	41.9	57.2	47.2	7.8	5.3	N	
4	0.72162	44.9	35.6	0.2	45.1	35.8	56.0	46.0	10.9	10.2	N	
5	1.15880	47.5	33.3	0.2	47.7	33.5	56.0	46.0	8.3	12.5	N	
6	2.41800	40.7	19.6	0.3	41.0	19.9	56.0	46.0	15.0	26.1	N	
7	4.00160	46.6	33.3	0.4	47.0	33.7	56.0	46.0	9.0	12.3	N	
8	0.15086	57.2	49.3	0.1	57.3	49.4	66.0	56.0	8.7	6.6	L1	
9	0.19339	48.0	40.1	0.1	48.1	40.2	63.9	53.9	15.8	13.7	L1	
10	0.44844	45.7	36.4	0.1	45.8	36.5	56.9	46.9	11.1	10.4	L1	
11	0.59509	40.0	26.6	0.1	40.1	26.7	56.0	46.0	15.9	19.3	L1	
12	1.21900	45.8	28.7	0.2	46.0	28.9	56.0	46.0	10.0	17.1	L1	
13	3.94040	45.8	29.4	0.4	46.2	29.8	56.0	46.0	9.8	16.2	L1	

* 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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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

3.2 RADIATED DISTURBANCE

TEST: Limits for radiated disturbance Frequency scans were conducted with a peak detector with horizontal and vertical polarization of the Method antenna. Measurements were done in the frequency range 30-1000 MHz. The main test was then conducted by measurements at each frequency found in the pretest. These measurements were done at an open area test site at 3m distances, with a quasi-peak detector. EUT was positioned on a wooden table 0.8m above the floor, at the edge of the turntable. Cables connected to EUT were fixed to cause maximum emission. A maximum emitting point for each frequency was found by turning EUT 0-360 degrees, and adjust the antenna height between 1-4m. A quasi-peak detector measurement was then done at the maximum emitting point. The measurements (above 1 GHz) were made 3 m distance test site. The EUT was placed on a nonconductive turntable approximately 0.8 m above the ground plane. The turntable with EUT was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna. The measurements were conducted with Average and Peak value. **Basic Standards** FCC Part 15 Parameters recorded during the test Laboratory Ambient Temperature 22 °C Relative Humidity 47 % Frequency range Measurement Point Fully configured sample scanned over the 30 MHz - 1.0 GHz 3 meter measurement distance following frequency range 1.0 GHz ~ 6.0 GHz 3 meter measurement distance Limits - Class B Limit ($dB\mu V/m$) 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 1000 53.97 **Pass** Peak Average 54 74 **Above 1000** Pass **EUT Configuration Settings:** Power Interface Mode # EUT Operation Mode # EUT Configurations Mode # (See Section 2.3) (See 2.4) (See Section 2.7)

1.3

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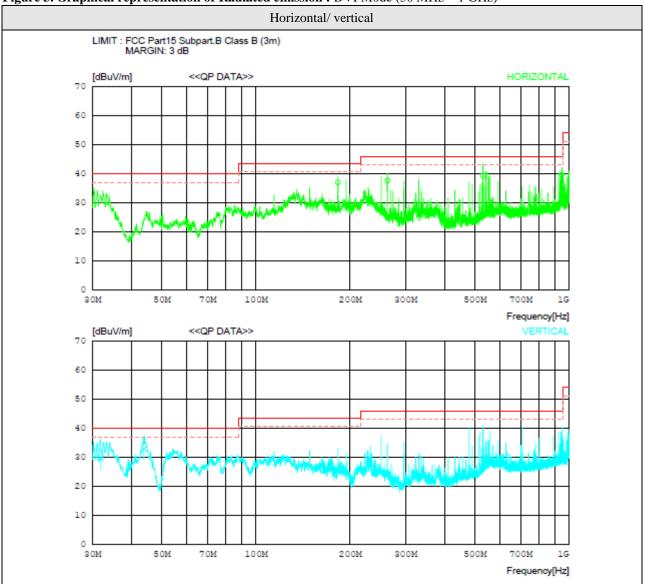
Model Number: AMM261WTD

	Radiated Emissions Test Equipment:										
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due						
EMI Test Receiver	Rohde & Schwarz	ESU	100014	2013.01.08	2014.01.08						
Bilog Antenna	SCHAFFNER CBL6112B		2737	2012.03.22	2014.03.22						
Horn Antenna	SCHWARZBECK	BBHA9120A	322	2012.05.15	2014.05.15						
Amplifier	H/P	8447E	2945A02865	2013.01.08	2014.01.08						
PreAmplifier	Agilent	8449B	3008A01590	2013.02.27	2014.02.27						

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Figure 3. Graphical representation of Radiated emission: DVI Mode (30 MHz ~ 1 GHz)



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Client Name: ADVAN INT'L CORP.

Table 3. Radiated emission Test data: DVI Mode (30 MHz ~ 1 GHz)

LIMI	LIMIT : FCC Part15 Subpart.B Class B (3m) MARGIN: 3 dB											
N	ο.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE	
		[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]	
	_	Horizon	tal									
3	2	182.763 262.726 531.174	44.3 38.3	9.7 13.0 17.8 21.5	3.3 4.0 6.2 8.3	24.0 23.7 23.0 22.7	37.6 39.3	43.5 46.0 46.0 46.0	8.4 6.7	100	360 212 62 95	
		Vertica:			0.3	22.	33.1	10.0	0.3	100	30	
5 6)	31.886 43.761	34.5 41.4	16.9 13.6	1.9 2.1	23.8 24.2		40.0 40.0	10.5 7.1	200 100	13 360	

* Note:

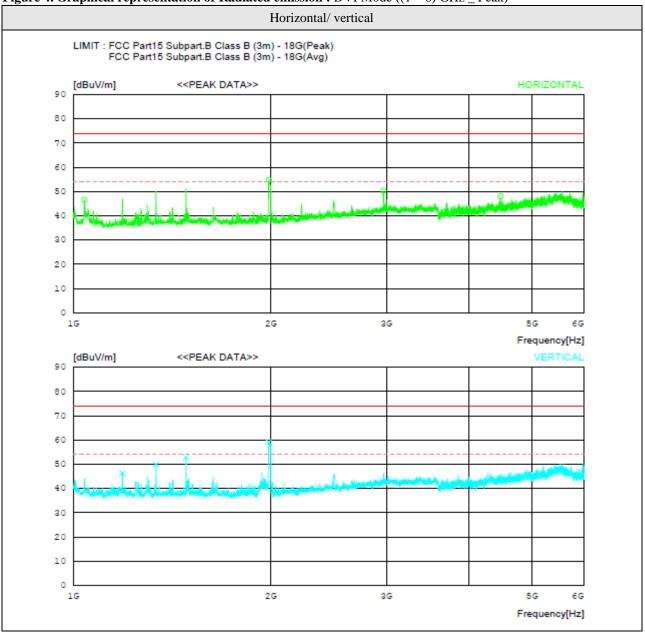
^{1.} Margin (dB)= Limit (dBuV) - Level (dBuV)

^{2.} If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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Figure 4. Graphical representation of Radiated emission : DVI Mode ((1 ~ 6) GHz _ Peak)



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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

Table 4. **Radiated emission Test data :** DVI Mode ((1 ~ 6) GHz _ Peak)

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]	
	Horizont	al									
1	1039.37			3.4	41.1	46.6	74.0	27.4	100	180	
2	1985.62		24.6	4.7	39.5 39.3	54.8	74.0		100	302	
3 4	2970.00 4478.12			5.6 7.1	39.3	50.3 48.1	74.0 74.0	23.7 25.9	100 100	1	
4	44/0.12	5 40.7	30.9	/.1	30.0	40.1	74.0	23.9	100	1	
Vertical											
5	1187.50	0 59.3	24.2	3.6	40.8	46.3	74.0	27.7	100	194	
6	1336.25	0 62.1	24.4	3.8	40.4	49.9	74.0	24.1	100	359	
7	1484.37	5 64.2	24.6	4.0	40.1	52.7	74.0	21.3	100	189	
8	1985.62	5 69.3	24.6	4.7	39.5	59.1	74.0	14.9	100	359	

* Note:

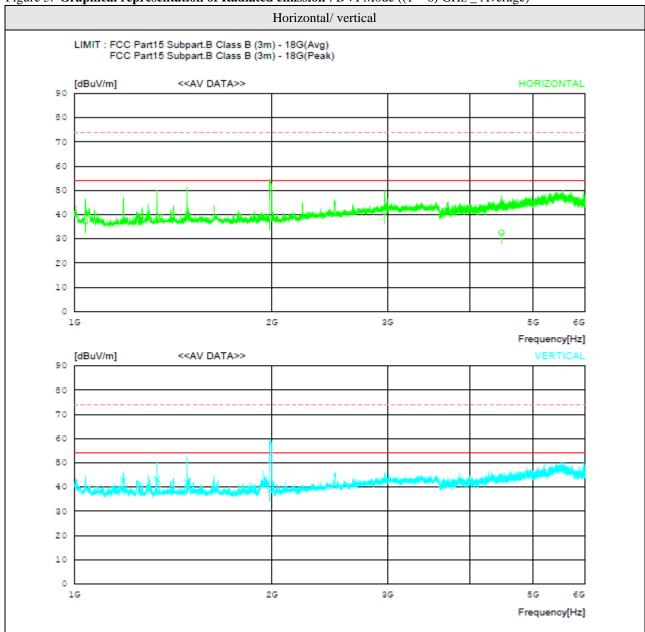
^{1.} Margin (dB)= Limit (dBuV) - Level (dBuV)

^{2.} If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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Figure 5. Graphical representation of Radiated emission : DVI Mode ((1 ~ 6) GHz _ Average)



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Model Number: AMM261WTD

Client Name: ADVAN INT'L CORP.

Table 5. Radiated emission Test data : DVI Mode ($(1 \sim 6) \text{ GHz} \text{_Average})$

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg) FCC Part15 Subpart.B Class B (3m) - 18G(Peak)											
No	. FREQ	READING AV	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE	
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]	
Horizontal											
2	1039.515 1985.346 2970.170 4477.522	48.6 46.0	23.9 24.6 28.9 30.9	3.4 4.7 5.6 7.1	41.1 39.5 39.3 38.6	38.4 3 41.2	54.0 54.0 54.0 54.0	16.8 15.6 12.8 21.4	100 100 100 100	174 176 170 360	
Vertical											
6 7	1187.799 1336.486 1484.986 1985.537	55.4 53.4	24.2 24.4 24.6 24.6	3.6 3.8 4.0 4.7	40.8 40.4 40.1 39.5	4 43.2 L 41.9	54.0 54.0 54.0 54.0	11.3 10.8 12.1 15.2	100 100 100 100	198 156 175 172	

* Note:

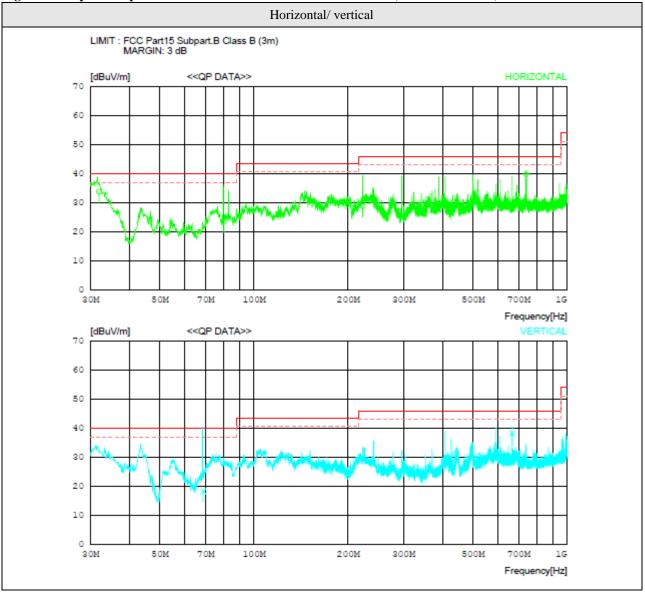
^{1.} Margin (dB)= Limit (dBuV) - Level (dBuV)

^{2.} If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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Figure 6. Graphical representation of Radiated emission: SDI Mode (30 MHz ~ 1 GHz)



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Table 6. Radiated emission Test data: SDI Mode (30 MHz ~ 1 GHz)

L	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	31.951	38.9	16.9	1.9	23.9	9 33.8	40.0	6.2	400	254		
	2	80.032	38.1	7.2	2.6	24.3	3 23.6	40.0	16.4	400	132		
	3	222.551	38.1	11.0	3.6	23.9	9 28.8	46.0	17.2	100	0		
	4	740.336	36.1	19.1	7.4	22.8	39.8	46.0	6.2	100	210		
-	Vertical												
	5	68.744	34.4	6.2	2.1	24.4		40.0	21.7	200	360		
	6	667.596	35.3	18.6	7.1	22.9	9 38.1	46.0	7.9	100	184		
* N	Vote:												

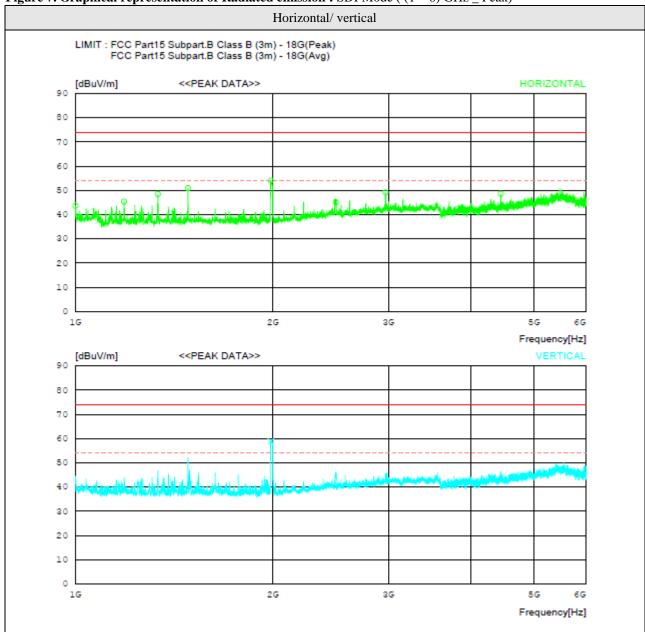
^{1.} Margin (dB)= Limit (dBuV) - Level (dBuV)

^{2.} If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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Figure 7. Graphical representation of Radiated emission : SDI Mode ((1 ~ 6) GHz _ Peak)



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Table 7. Radiated emission Test data: SDI Mode ((1 ~ 6) GHz _ Peak)

LIMIT	LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak) FCC Part15 Subpart.B Class B (3m) - 18G(Avg)												
No	. FREQ	READING PEAK	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE			
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m] [dB]	[cm]	[DEG]			
	Horizont	tal											
1	1000.62		23.9	3.3	41.2	43.7	74.0		100	165			
2	1186.25	0 58.4	24.2	3.6	40.8	45.4	74.0	28.6	100	146			
3	1336.25	0 60.7	24.4	3.8	40.4	48.5	74.0	25.5	100	0			
4	1484.37	5 62.5	24.6	4.0	40.1	51.0	74.0	23	100	0			
5	1985.62	5 64.3	24.6	4.7	39.5	54.1	74.0	19.9	100	302			
6	2495.00	0 51.8	27.4	5.2	39.3	45.1	74.0	28.9	100	0			
7	2970.00	0 54.0	28.9	5.6	39.3	49.2	74.0		100	0			
8	4451.25	0 49.3	30.8	7.1	38.6	48.6	74.0	25.4	100	132			
	Vertical												
9	1985.00	0 69.1	24.6	4.7	39.5	58.9	74.0	15.1	100	181			

^{*} Note:

^{1.} Margin (dB)= Limit (dBuV) - Level (dBuV)

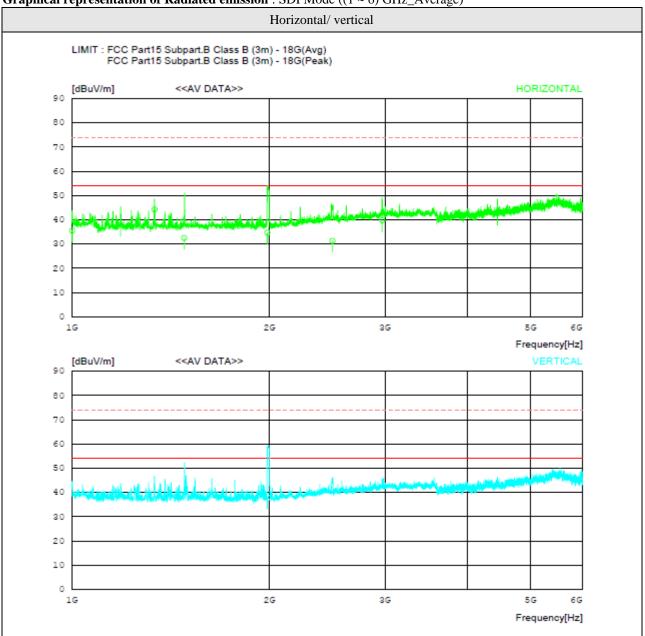
^{2.} If no frequencies are specified in the tables, no measurement for quasi-peak or average was necessary.

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Client Name: ADVAN INT'L CORP.

 $\textbf{Graphical representation of Radiated emission}: SDI \ Mode \ ((1 \thicksim 6) \ GHz_Average)$



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Table 8. Radiated emission Test data : SDI Mode ($(1 \sim 6) \text{ GHz} \text{_Average})$

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg) FCC Part15 Subpart.B Class B (3m) - 18G(Peak)											
No	. FREQ	READING AV	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE	
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]	
	Horizont	al									
2	1001.012 1186.834	50.9	23.9 24.2	3.3 3.6	41.2 40.8	37.9	54.0	18.4 16.1	100 100	171 142	
4	1336.498	44.0	24.4	3.8 4.0	40.4	32.5	54.0	9.7	100	197 298	
6	1985.426 2494.536 2969.733	38.0	24.6 27.4 28.9	4.7 5.2 5.6	39.5 39.3 39.3	31.3	54.0 54.0 54.0	19.3 22.7 14.2	100 100 100	209 136 109	
8	4450.642	43.3	30.8	7.1	38.6	42.6	54.0	11.4	100	138	
	Vertical										
9	1985.013	48.1	24.6	4.7	39.5	37.9	54.0	16.1	100	170	
* 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.