


SK TECH CO., LTD.

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FCC-Certificate of Compliance

Test Report No.:	SKTFCE-060530-048		
NVLAP CODE :	200220-0		
Applicant:	Woo Young Telecom Co., Ltd.		
Applicant Address:	222-6, Suwolam-ri, Seotan-myeon, Pyeongtaek-si, Gyeonggi-do, 451-852, Rep. of Korea.		
Manufacturer :	Woo Young Telecom Co., Ltd.		
Manufacturer Address:	222-6, Suwolam-ri, Seotan-myeon, Pyeongtaek-si, Gyeonggi-do, 451-852, Rep. of Korea.		
Product:	TFT LCD Monitor		
FCC ID:	PXWHL720D	Model No.:	HL720D, HL720S
Receipt No.:	SKTEU06-0256	Date of receipt:	Apr. 26, 2006
Date of Issue:	May. 30, 2006		
Testing location:	SK TECH CO., LTD. 820-2, Wolmoon-Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea		
Test Standards:	ANSI C63.4 / 2003		
Rule Parts:	FCC part 15 Subpart B, CISPR 22		
Equipment Class :	Class B Digital Device Peripheral		
Other Aspects :	This Class B Digital apparatus complies with Canadian IECS-003		
Test Result:	The above mentioned product has been tested and passed.		

Prepared by: S.Y.Ye

Tested by: H.P.Kim/Engineer

Approved by: D.H.Kang
/Manager & Chief Engineer

Signature	Date	Signature	Date	Signature	Date
Other Aspects :					
Abbreviations :	· OK, Pass = passed · Fail = failed · N/A = not applicable				

- ☒ • This test report is not permitted to copy partly without our permission.
- This test result is dependent on only equipment to be used.
- This test result is based on a single evaluation of one sample of the above mentioned.
- This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S Government.
- We certify that this test report has been based on the measurement standards that is traceable to the national or International standards.

NVLAP Lab. Code: 200220-0



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1. General

This equipment has been shown to be capable of compliance with the applicable technical standards and was tested in accordance with the measurement procedures as indicated in this report.

We attest to the accuracy of data. All measurements reported herein were performed by SK TECH Co., Ltd. and were made under Chief Engineer's supervision.

We assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

2. Test Site

SK TECH Co., Ltd.

2.1 Location

820-2, Wolmoon Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea

The test site is in compliance with ISO/IEC 17025 for general requirements for the competence of testing and calibration laboratories.

This laboratory is recognized as a Conformity Assessment Body(CAB) for CAB's, Designation Number: **KR0007** by FCC, is accredited by NVLAP for NVLAP Lab. Code : **200220-0** and DATech for DAR-Registration No.:**DAT-P-076/97-01**.



2.2 List of Test and Measurement Instruments

Table 1 : List of Test and Measurement Equipment

- **Conducted Disturbance**

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESHS10	835871/002	09.2006
Artificial Mains Network	ESH3-Z5	836679/018	08.2006

- **Radiated Disturbance**

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESIB40	100277	02.2007
Amplifier	8447F	3113A05153	08.2006
Log Periodic Antenna	UHALP9107	1819	11.2006
Biconical Antenna	BBA9106	91031626	11.2006
Antenna Turntable Driver	5907	91X518	N/A
Antenna Turntable controller	5906	91X519	N/A

2.3 Test Date

Date of Application : Apr. 26, 2006

Date of Test : May. 22, 2006 ~ May. 26, 2006

2.4 Test Environment

See each test item's description.



3. Description of the tested samples

The EUT is a TFT LCD Monitor.

See below the difference of model HL720D and HL720S

-HL720D:Analog+Digital

-HL720S:Analog

3.1 Rating and Physical Characteristics

MODE	Analog	Digital
LCD	17 inch(43.2cm)	17 inch(43.2cm)
Frequency	Horizontal:31.5-80KHz Vertical:56-75Hz	Horizontal:31~64KHz Vertical:59-61Hz
Max. Resolution	1280x1024@75Hz(SXGA)	1280x1024@60Hz(SXGA)
Response Time	6ms(Typ.)	
Input Signal	RGB Analog	DVI Standard 1.0
Connectors	15 pin D-Sub	24 pin DVI-D
	Speaker Input/ Headphone Output(Audio Cable)*1	
Benefit Function	OSD(On screen Display) Function/ Plug&Play	
Power	AC 100-240V, 50/60Hz(Internal Type)	
Power Consumption	Under 40W	
Dimensions	373mm x 185mm x368mm(WxHxD/ With Basic Stand)	
Weight	3.1 Kg	
Items	15 pin D-sub Cable/ Power Cable/Manual/ Warranty Card/Audio Cablex1	15 pin D-sup Cable/ DVI-D Cable/Power Cable/ Manual/Warranty Card/Audio Cablex1

3.2 Submitted Documents

N/A



4. Measurement Conditions

Operating voltage of the EUT is AC120V, 60Hz.

4.1 Modes of Operation

The EUT was in the following operating mode during all testing.

The EUT is connected to PC by VGA interface cable.

The EUT is tested in the mode of windows media player displaying "H" on the screen.

4.2 List of Peripherals

Equipment	Manufacturer	Model Name	Serial No.
Keyboard(PS2)	YET FOUNDATION LTD.	SK-1688	C0509035688
Mouse(USB)	SUZHOU LOGITECH ELECTRONICS CO. LTD.	M-BJ58	HCA54718469
PC	Samsung Electronics	ZMP35	X71498DX900234E

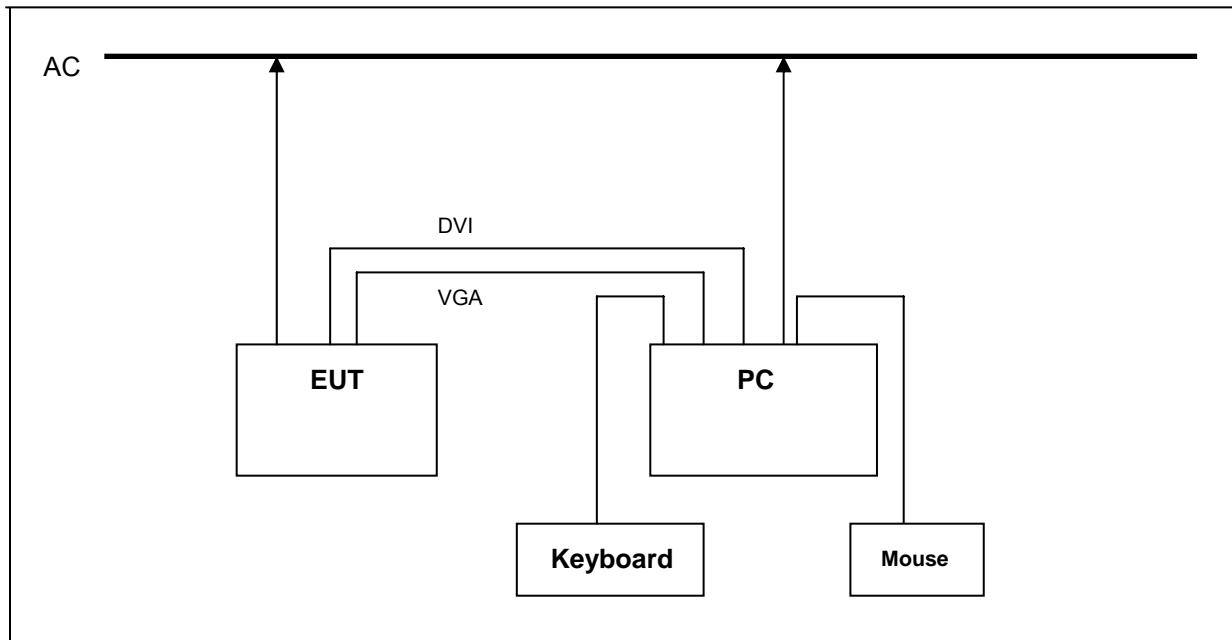


4.3 Type of Used Cables

Equipment	Manufacturer	M/N	S/N	Cables &connectors
EUT(DVI cable for PC)	N/A	N/A	N/A	1.2m shielded DVI cable
EUT (VGA cable for PC)	N/A	N/A	N/A	1.2m shielded VGA cable
EUT(Power cable for AC Line)	N/A	N/A	N/A	1.2m unshielded Power cable
EUT(USB cable for Mouse)	N/A	N/A	N/A	1.8m unshielded USB cable
EUT(PS/2 cable for Keyboard)	N/A	N/A	N/A	1.3m unshielded PS/2 cable
EUT(Power cable for AC Line)	N/A	N/A	N/A	1.2m unshielded Power cable

4.4 Test Setup

The test setup photographs showed the external supply connections and interfaces.



[System Block Diagram of Test Configuration]



4.5 Uncertainty

1) Radiated disturbances from 30 MHz to 1000 MHz at a distance of 3m and 10 m

Input quantity	Xi	Probability distribution function
Receiver reading	Vr	Rectangular $\sqrt{3}$
Attenuation: antenna-receiver	Lc	k=1
Amplifier Error	Ae	k=2
antenna factor	Lac	k=2
Receiver corrections:		
Sine wave voltage	dVsw	Rectangular $\sqrt{3}$
Pulse amplitude response	dVpa	Rectangular $\sqrt{3}$
Pulse repetition rate response	dVpr	Rectangular $\sqrt{3}$
Mismatch: antenna-receiver	dM	k=1
Antenna corrections:		
AF frequency interpolation	dAFF	Rectangular $\sqrt{3}$
AF height deviations	dAFh	Rectangular $\sqrt{3}$
Directivity difference	dAdir	3 m: Rectangular $\sqrt{3}$, 10 m: Rectangular $\sqrt{3}$
Phase centre location	dAph	3 m: Rectangular $\sqrt{3}$, 10 m: Rectangular $\sqrt{3}$
Cross-polarisation	dAcp	Rectangular $\sqrt{3}$
Balance	dAbal	Rectangular $\sqrt{3}$
Site corrections:		
Site imperfections	dSA	Rectangular $\sqrt{6}$
Separation distance	dd	3 m: Rectangular $\sqrt{3}$, 10 m: Rectangular $\sqrt{3}$
Table height	dh	3 m: k=2, 10 m: k=2
Expanded Uncertainty		4.60(Vertical)/4.59(Horizontal) k=2 (Level of confidence)

Expanded Uncertainty

$$U = k * U_c(x_i) = 2 * 2.3 = 4.60 \text{dB}$$

The coverage factor k =2 yields approximately a 95% level of confidence.

2) Conducted disturbance from 150 KHz to 30 MHz using a 50 Ω/50 uH AMN

Input quantity	Xi	Probability distribution function
Receiver reading	Vr	Rectangular $\sqrt{3}$
Attenuation: AMN-receiver	Lc	k=1
AMN voltage division factor	Lamn	k=2
Receiver corrections:		
Sine wave voltage	dVsw	Rectangular $\sqrt{3}$
Pulse amplitude response	dVpa	Rectangular $\sqrt{3}$
Pulse repetition rate response	dVpr	Rectangular $\sqrt{3}$
Mismatch: AMN-receiver	dM	U-shape $\sqrt{2}$
AMN impedance	dZ	Triangular $\sqrt{6}$
Expanded Uncertainty		3.99 k=2 (Level of confidence)

Expanded uncertainty

$$U = k * U_c(x_i) = 2 * 1.96 = 3.92 \text{dB}$$

The coverage factor k =2 yields approximately a 95% level of confidence.



5. EMISSION Test

5.1 Conducted Emissions

Result: **PASS**

The line-conducted facility is located inside a 2.6M x 3.6M x 7.0M shielded enclosure.

The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 604-05. A 1 m x 1.5 m wooden table 80 cm high is placed 40 cm. away from the vertical wall and 1.5 m away from the side wall of the shielded room. ROHDE & SCHWARZ Model ESH3-Z5 (10 kHz-30 MHz) 50 ohm/50 uH Line-Impedance Stabilization Networks(LISNs) are bonded to the shielded room.

The EUT is powered from the ROHDE & SCHWARZ LISN and the support equipment is powered from the ROHDE & SCHWARZ LISN. Power to the LISNs are filtered by a high-current high-insertion loss Lindgren enclosures power line filters (100dB 14 kHz-10 GHz).

The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure.

All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the ROHDE & SCHWARZ LISN.

All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150 kHz to 30 MHz with 100msec. sweep time.

The frequency producing the maximum level was reexamined using EMI/field Intensity Meter (ESHS 10) and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode.

The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.

Each emission was maximized by: switching power lines; varying the mode of operation or resolution;clock or data exchange speed; if applicable; whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of conducted test.

Each EME reported was calibrated using self-calibrating mode.

**Table 2: Test Data, Conducted Disturbance(HL720D:AUO Panel)****<Quasi-Peak>**

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
1.250	45.27	L	0.15	0.07	45.49	56.00	10.51
1.445	45.39	L	0.15	0.07	45.61	56.00	10.39
3.090	46.36	L	0.18	0.11	46.65	56.00	9.35
6.315	49.85	L	0.34	0.19	50.38	60.00	9.62
6.705	52.12	L	0.34	0.19	52.65	60.00	7.35
21.320	49.69	N	0.74	0.37	50.80	60.00	9.20

<Average>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
1.445	37.31	L	0.15	0.07	37.53	46.00	8.47
6.705	45.77	L	0.34	0.19	46.30	50.00	3.70
21.165	46.06	L	1.00	0.37	47.43	50.00	2.57
21.235	43.44	L	1.00	0.37	44.81	50.00	5.19
21.300	43.02	L	1.00	0.37	44.39	50.00	5.61
21.320	46.27	L	1.00	0.37	47.64	50.00	2.36

► NOTE

- * **C/F = Correction Factor**
- * **C/L = Cable Loss**
- * **LINE : L = Line-PE, N = Neutral-PE**
- * **Margin Calculation**

$$\text{Margin(Q.P)} = \text{Limit} - \text{Actual}$$

$$[\text{Actual(Q.P)} = \text{Reading(Q.P)} + \text{C/F} + \text{C/L}]$$

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Figure 1: Spectral Diagram, LINE – PE (HL720D:AUO Panel)

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20 May 2006 17:08

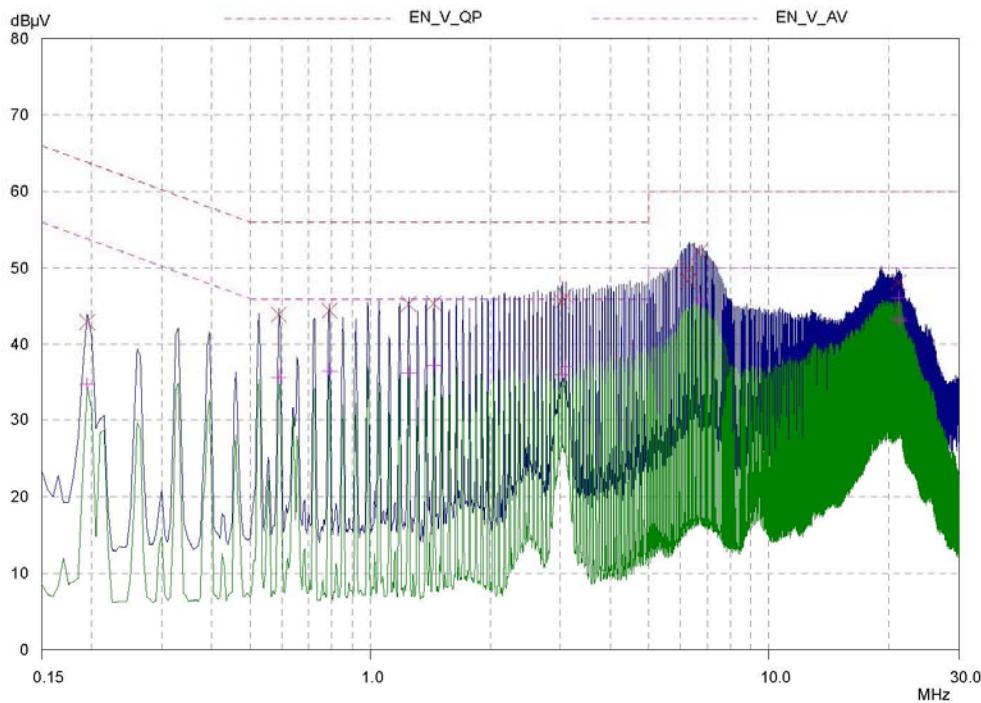
EUT: HL720D (AUO)
Manuf:
Op Cond: AC 120 V / 60 Hz
Operator:
Test Spec: FCC Part15 Subpart B
Comment: LINE-PE

Result File: auo_d_I.dat : HL720D

Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB



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Figure 2: Spectral Diagram, NEUTRAL – PE(HL720D:AUO Panel)

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20 May 2006 16:53

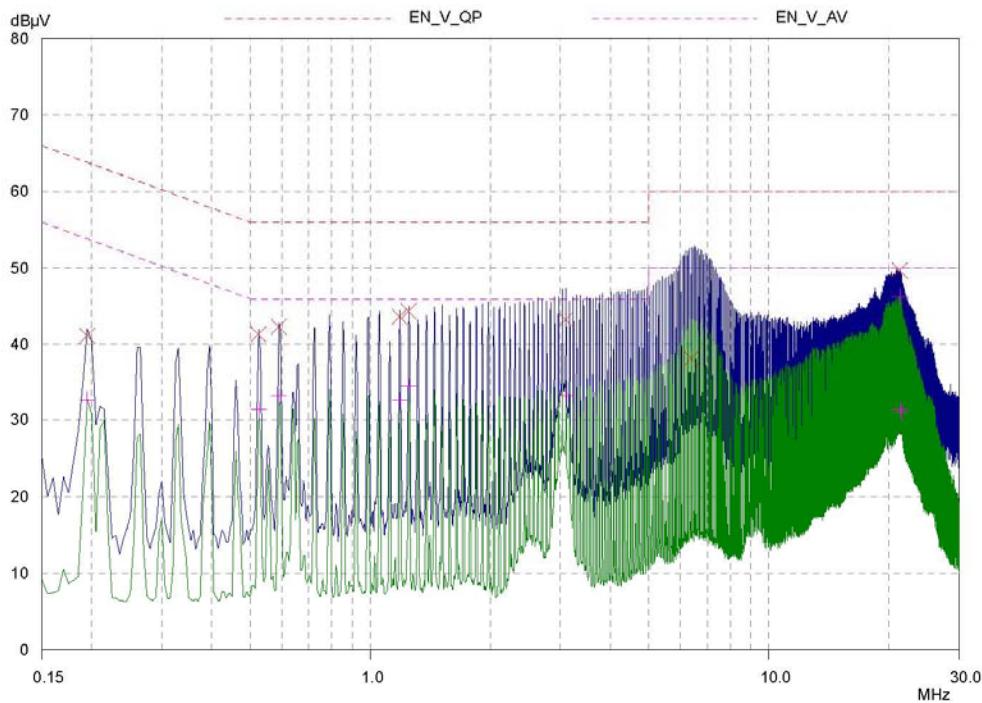
EUT: HL720D (AUO)
Manuf:
Op Cond: AC 120 V / 60 Hz
Operator:
Test Spec: FCC Part15 Subpart B
Comment: NEUTRAL-PE

Result File: auo_d_n.dat : HL720D

Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB



**Table 3: Test Data, Conducted Disturbance(HL720D:Hydis Panel)****<Quasi-Peak>**

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
0.785	43.07	L	0.14	0.05	43.26	56.00	12.74
3.150	43.75	L	0.18	0.11	44.04	56.00	11.96
3.345	44.13	L	0.18	0.11	44.42	56.00	11.58
6.955	49.07	L	0.34	0.19	49.60	60.00	10.40
20.085	50.10	L	1.00	0.37	51.47	60.00	8.53
20.150	50.10	L	1.00	0.37	51.47	60.00	8.53

<Average>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
0.525	34.63	L	0.13	0.04	34.80	46.00	11.20
0.590	34.49	L	0.13	0.04	34.66	46.00	11.34
0.785	35.81	L	0.14	0.05	36.00	46.00	10.00
3.150	35.03	L	0.18	0.11	35.32	46.00	10.68
3.345	35.41	L	0.18	0.11	35.70	46.00	10.30
6.955	43.32	L	0.34	0.19	43.85	50.00	6.15

► NOTE

* **C/F = Correction Factor**

* **C/L = Cable Loss**

* **LINE : L = Line-PE, N = Neutral-PE**

* **Margin Calculation**

Margin(Q.P) = Limit - Actual

[Actual(Q.P)= Reading(Q.P) + C/F + C/L]

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Figure 3: Spectral Diagram, LINE – PE (HL720D:Hydis Panel)

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20 May 2006 16:05

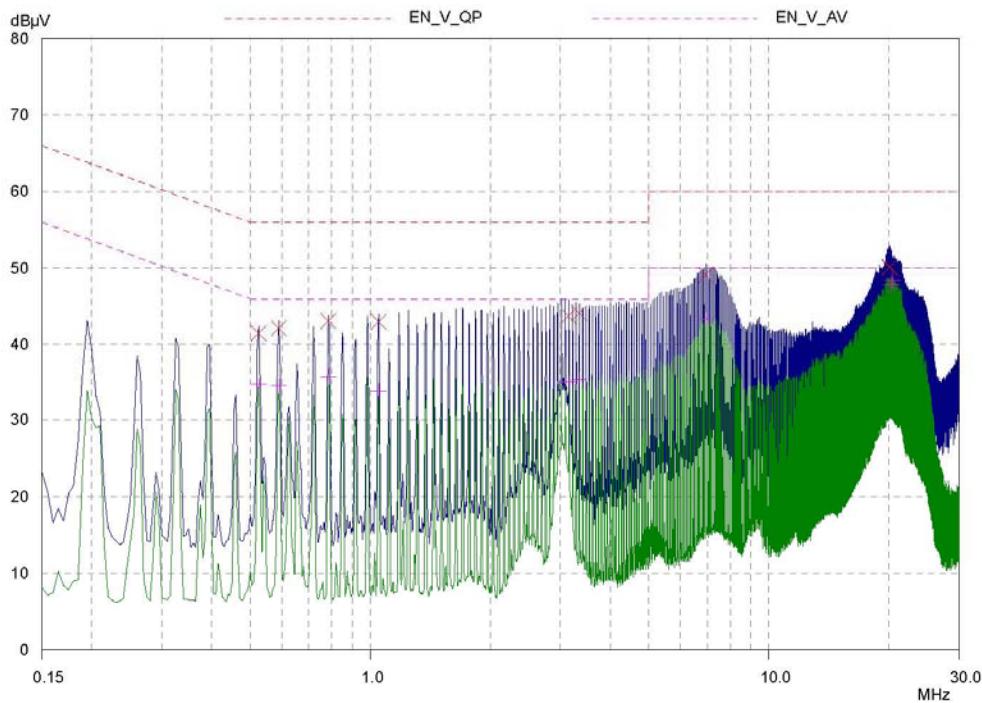
EUT: HL720D
Manuf:
Op Cond: AC 120 V / 60 Hz
Operator:
Test Spec: FCC Part15 Subpart B
Comment: LINE-PE

Result File: hy_d_I.dat : HL720D

Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB



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Figure 4: Spectral Diagram, NEUTRAL – PE(HL720D:Hydis Panel)

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20 May 2006 15:48

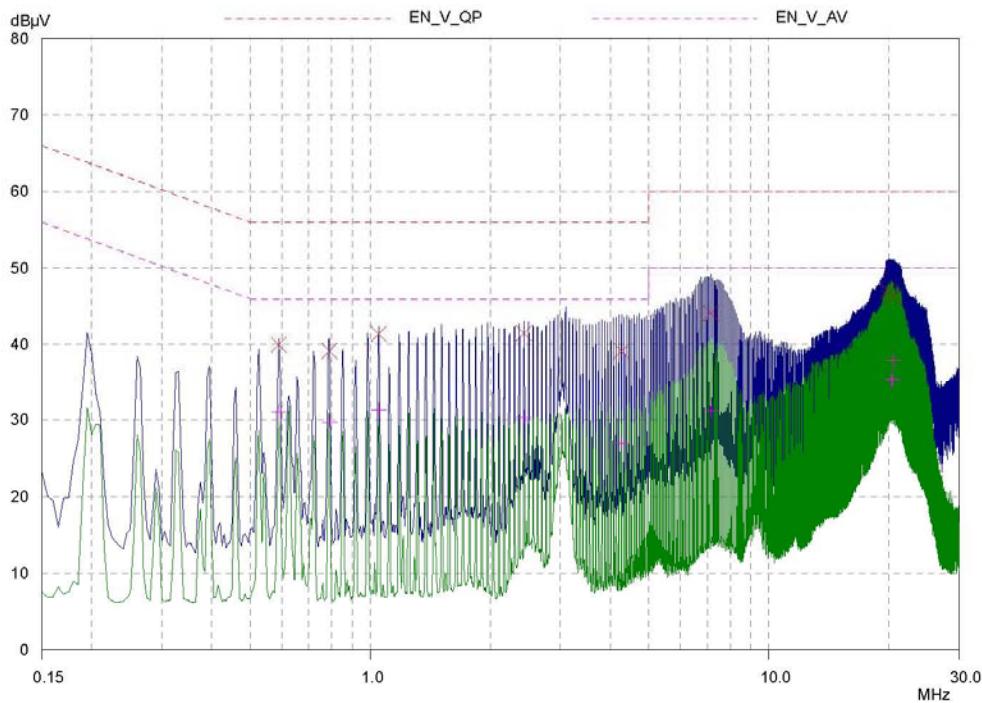
EUT: HL720D (Hydis)
Manuf:
Op Cond: AC 120 V / 60 Hz
Operator:
Test Spec: FCC Part15 Subpart B
Comment: NEUTRAL-PE

Result File: hy_d_n.dat : HL720D

Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB



**Table 4: Test Data, Conducted Disturbance(HL720S:AUO Panel)****<Quasi-Peak>**

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
6.265	50.00	L	0.34	0.19	50.53	60.00	9.47
23.245	49.32	L	1.18	0.40	50.90	60.00	9.10
23.520	49.30	N	0.86	0.40	50.56	60.00	9.44
23.640	49.62	L	1.18	0.40	51.20	60.00	8.80
23.645	49.99	N	0.86	0.40	51.25	60.00	8.75
23.700	49.81	L	1.18	0.40	51.39	60.00	8.61

<Average>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
21.450	47.17	N	0.74	0.37	48.28	50.00	1.72
23.185	45.68	L	1.18	0.40	47.26	50.00	2.74
23.250	45.98	L	1.18	0.40	47.56	50.00	2.44
23.515	46.76	N	0.86	0.40	48.02	50.00	1.98
23.635	46.30	L	1.18	0.40	47.88	50.00	2.12
23.645	46.83	N	0.86	0.40	48.09	50.00	1.91

► NOTE

* **C/F = Correction Factor**

* **C/L = Cable Loss**

* **LINE : L = Line-PE, N = Neutral-PE**

* **Margin Calculation**

Margin(Q.P) = Limit - Actual

[Actual(Q.P)= Reading(Q.P) + C/F + C/L]

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Figure 5: Spectral Diagram, LINE – PE (HL720S:AUO Panel)

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22 May 2006 12:37

EUT: HL720S (AUO)
Manuf:
Op Cond: AC 120 V / 60 Hz
Operator:
Test Spec: FCC Part15 Subpart B
Comment: LINE-PE

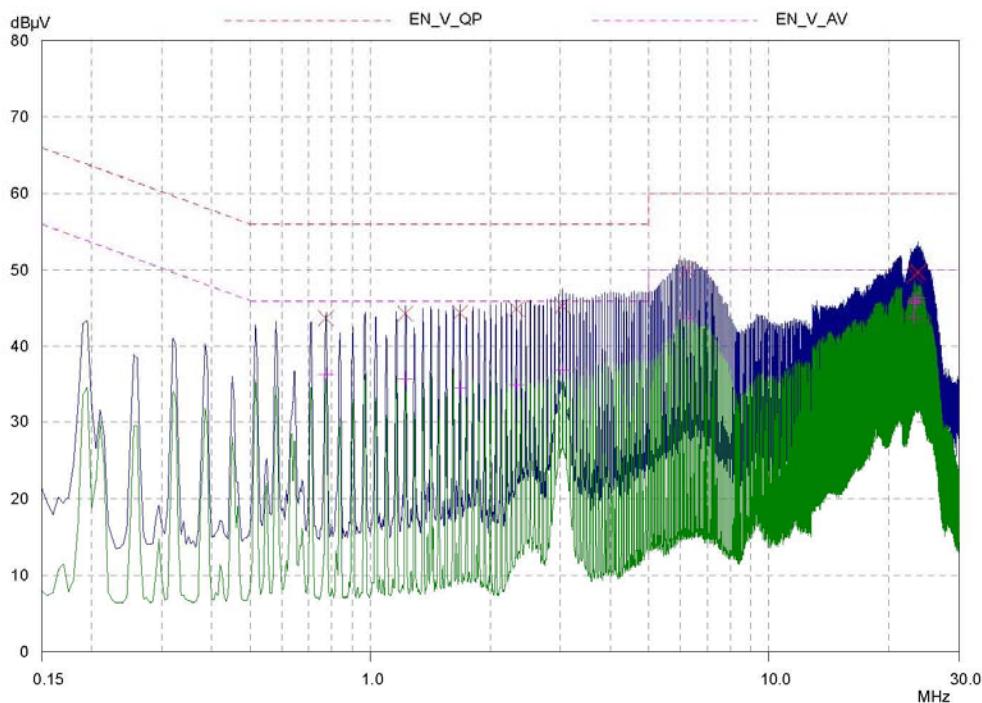
Result File: auo_s_I.dat : HL720S

Scan Settings

(1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB



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Figure 6: Spectral Diagram, NEUTRAL – PE(HL720S:AUO Panel)

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CONDUCTED DISTURBANCE

22 May 2006 11:50

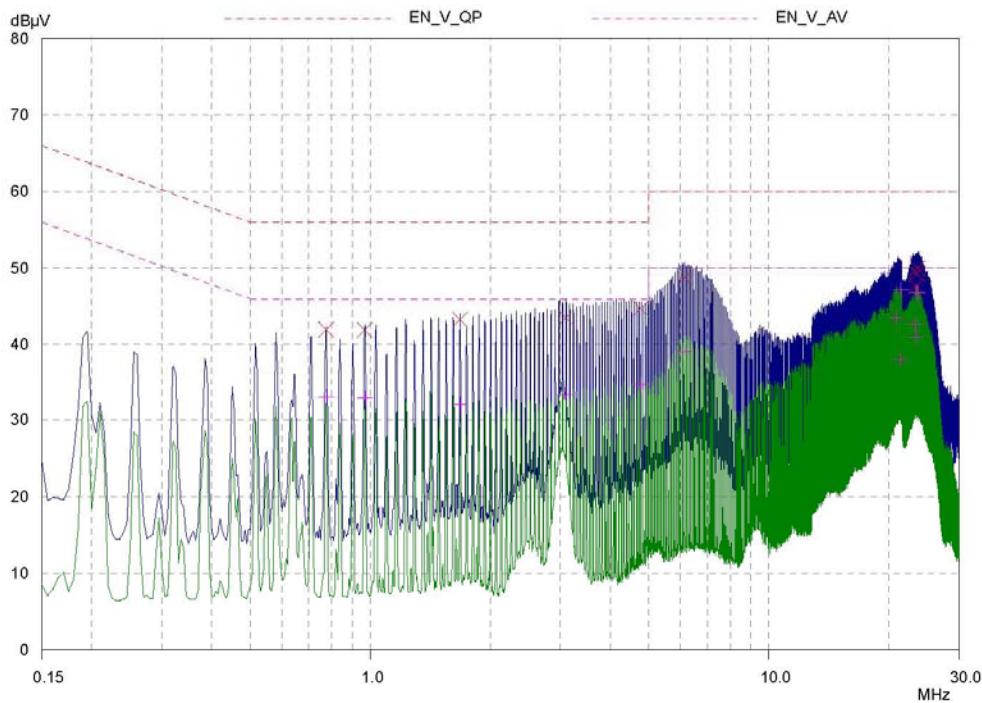
EUT: HL720S (AUO)
Manuf:
Op Cond: AC 120 V / 60 Hz
Operator:
Test Spec: FCC Part15 Subpart B
Comment: NEUTRAL-PE

Result File: auo_s_n.dat : HL720S

Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB



**Table 5: Test Data, Conducted Disturbance(HL720S:Hydis Panel)****<Quasi-Peak>**

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
6.580	51.37	L	0.34	0.19	51.90	60.00	8.10
6.710	51.55	L	0.34	0.19	52.08	60.00	7.92
6.775	51.66	L	0.34	0.19	52.19	60.00	7.81
6.840	51.80	L	0.34	0.19	52.33	60.00	7.67
6.905	51.50	L	0.34	0.19	52.03	60.00	7.97
7.225	51.53	L	0.34	0.19	52.06	60.00	7.94

<Average>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
0.775	37.18	L	0.14	0.05	37.37	46.00	8.63
1.225	37.29	L	0.15	0.07	37.51	46.00	8.49
1.420	37.46	L	0.15	0.07	37.68	46.00	8.32
4.385	38.25	L	0.24	0.16	38.65	46.00	7.35
20.710	43.20	L	1.00	0.37	44.57	50.00	5.43
21.545	46.69	L	1.00	0.37	48.06	50.00	1.94

► NOTE

* **C/F = Correction Factor**

* **C/L = Cable Loss**

* **LINE : L = Line-PE, N = Neutral-PE**

* **Margin Calculation**

Margin(Q.P) = Limit - Actual

[Actual(Q.P)= Reading(Q.P) + C/F + C/L]

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Figure 7: Spectral Diagram, LINE – PE (HL720S:Hydis Panel)

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22 May 2006 14:32

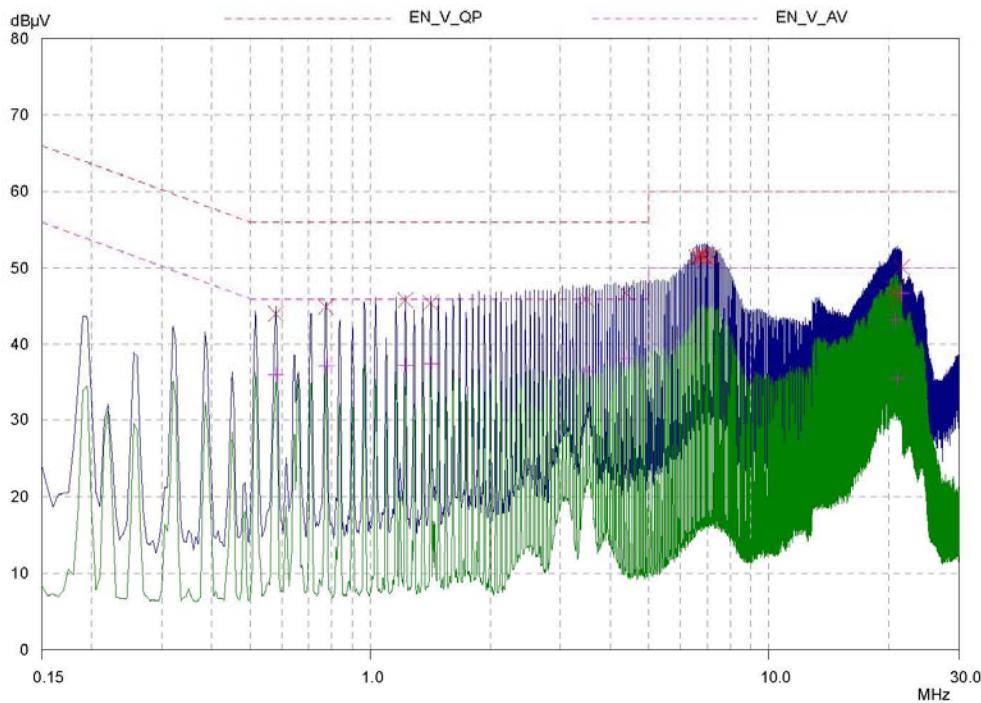
EUT: HL720S (Hydis)
Manuf:
Op Cond: AC 120 V / 60 Hz
Operator:
Test Spec: FCC Part15 Subpart B
Comment: LINE-PE

Result File: hy_s_l.dat : HL720S

Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB



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Figure 8: Spectral Diagram, NEUTRAL – PE(HL720S:Hydis Panel)

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22 May 2006 14:12

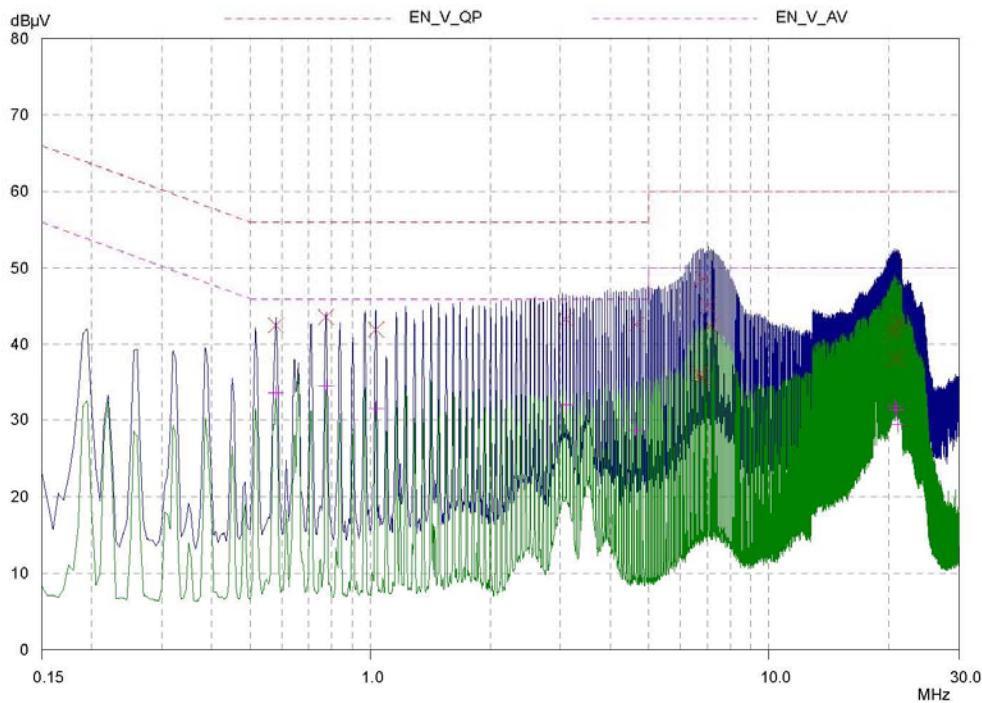
EUT: HL720S (Hydis)
Manuf:
Op Cond: AC 110 V / 60 Hz
Operator:
Test Spec: FCC Part15 Subpart B
Comment: NEUTRAL-PE

Result File: hy_s_n.dat : HL720S

Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK+AV	20msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB





5.2 Radiated Emissions

Result :**PASS**

Preliminary measurements were made indoors at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME.

Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found.

The spectrum was scanned from 30 to 300 MHz using biconical antenna and from 300 to 1000 MHz using log-periodic antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using SCHWARZBECK dipole antennas.

The test equipment was placed on a wooden table situated on a 4x4 meter area adjacent to the measurement area. Turntable was to protect from weather in the dome that made with FRP.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter(ESVS 10) and Quasi-Peak Adapter.

The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100 kHz or 1 MHz depending on the frequency or type of signal.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non- metallic 1 x 1.5 meter table.

The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission.

Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed, and/or support equipment, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of radiated emission test.

Each EME reported was calibrated using self-calibrating mode.


Table 6 : Test Data, Radiated Emissions
<HL720D:AUO Panel>

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
156.39	V	1.0	17.3	14.9	1.2	16.1	33.4	43.5	10.1
365.63	V	1.0	13.1	17.3	1.7	19.0	32.1	46.0	13.9
833.20	V	1.0	10.5	23.0	2.6	25.6	36.1	46.0	9.9

Table. Radiated Measurements at 3-meters

<HL720D:Hydis Panel>

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
154.34	V	1.1	17.9	14.9	1.2	16.1	34.0	43.5	9.5
234.13	V	1.0	10.6	17.2	1.3	18.5	29.1	46.0	16.9
367.19	H	2.8	12.8	17.3	1.7	19.0	31.8	46.0	14.2

Table. Radiated Measurements at 3-meters

NOTES:

1. All modes of operation were investigated and the worst-case emission are reported.
2. All other emission are non-significant.
3. All readings are calibrated by self-mode in receiver.
4. Measurements using CISPR Quasi-Peak mode.
5. H = Horizontal, V = Vertical Polarization
6. Data = Real Reading + T - Fact(Antenna+Cable)
7. Margin = Limits – Data



<HL720S:AUO Panel>

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
160.12	V	1.0	20.3	15.3	1.3	16.6	36.9	43.5	6.6
367.25	V	1.0	17.0	17.3	1.7	19.0	36.0	46.0	10.0

Table. Radiated Measurements at 3-meters

<HL720S:Hydis Panel>

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
150.26	V	1.0	17.1	15.1	1.2	16.3	33.4	43.5	10.1
296.77	V	1.0	13.3	19.3	1.5	20.8	34.1	46.0	11.9

Table. Radiated Measurements at 3-meters

NOTES:

1. All modes of operation were investigated and the worst-case emission are reported.
2. All other emission are non-significant.
3. All readings are calibrated by self-mode in receiver.
4. Measurements using CISPR Quasi-Peak mode.
5. H = Horizontal, V = Vertical Polarization
6. Data = Real Reading + T - Fact(Antenna+Cable)
7. Margin = Limits – Data