

TEST REPORT

Report No.: RV14728/2011
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Date: August 10, 2011

iTech Company LLC
41758 Christy Street,
Fremont CA 94538 USA

The following merchandise was submitted and identified by the vendor as:

Product Description: 19" Military LCD Monitor
Style/ Item No.: WMRM919
Quantity: Total 1 set
Testing Period: July 8 to July 11

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. Vibration Test

Test Results : -PLEASE SEE ATTACHED SHEETS-



Terence Hsieh
Manager - Operation

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1. Vibration Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	139173

Lab Environmental Conditions:

Ambient temperature: 25±3°C
 Relative humidity: 55±20%RH

Test Method/ Specification:

Test Method: Reference to MIL-STD-810G, Method 514.6 Testing Procedures I, Table 514.6C-VI, Category-4 Composite wheeled vehicle vibration exposures. (Break points for curves of Figure 514.6C-3)

Sample Condition: Packaged

Wave form: Random

Frequency: 5~500 Hz (Test Spectrums as shown in the following sheets in detail)

Impact acceleration: 1.48 & 1.90 & 2.24 Grms

Direction: X, Y, Z axes (See photo 7 ~ 9)

Duration: 1 hour/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power then examine whether the display function of specimen could be work normally or not.
- Place the product on the vibration table in its normal operating orientation and configuration. The Product shall be no fixture to the vibration table such that the vibratory input is transmitted directly to the product. Operating the product during the test. Vibrate the product up the frequency range at a rate of 5 to 500 Hz. At the appropriate level in the table of test condition in each of three orthogonal axes. The test shall last approximately 60 minutes per axis. Equivalent to 1.48 & 1.90 & 2.24 Grms. Document the result during the test. The functional and electrical check is required, document the result after the check. Performance check: Running Window XP with stress software BCM diagnostics Pro version 2.30.

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Test Method/ Specification--Continued:

Test Spectrums:

Vertical - Z axis		Transverse - X axis		Longitudinal - Y axis	
Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)
5	0.1759	5	0.0998	5	0.0441
8	0.5120	7	0.0799	7	0.0390
11	0.0660	9	0.1115	8	0.0576
12	0.0585	10	0.0577	9	0.0430
13	0.0348	14	0.0294	10	0.0293
15	0.1441	15	0.0651	13	0.0221
16	0.1237	16	0.0646	15	0.0558
20	0.0241	17	0.0436	16	0.0585
23	0.0536	18	0.0393	18	0.0160
26	0.0124	19	0.0622	20	0.0099
27	0.0118	24	0.0100	23	0.0452
30	0.0331	37	0.0045	25	0.0110
34	0.0086	38	0.0065	35	0.0036
39	0.0347	44	0.0033	37	0.0098
43	0.0073	55	0.0024	40	0.0040
45	0.0141	57	0.0042	41	0.0044
49	0.0084	59	0.0019	45	0.0023
52	0.0089	76	0.0012	47	0.0047
57	0.0045	79	0.0021	50	0.0016
67	0.0160	83	0.0010	54	0.0017
80	0.0037	114	0.0006	64	0.0010
90	0.0077	135	0.0017	69	0.0030
93	0.0053	142	0.0010	77	0.0007
98	0.0065	158	0.0018	85	0.0015
99	0.0063	185	0.0010	90	0.0012
111	0.0046	191	0.0007	97	0.0015
123	0.0069	206	0.0008	104	0.0036
128	0.0055	273	0.0035	114	0.0040
164	0.0031	300	0.0016	122	0.0015
172	0.0035	364	0.0074	132	0.0013
215	0.0133	374	0.0022	206	0.0033
264	0.0056	395	0.0051	247	0.0226
276	0.0096	500	0.0012	257	0.0041
292	0.0032	⇒ equivalent to 1.48 G _{rms}		264	0.0054
348	0.0044			276	0.0040
417	0.0031			303	0.0073
500	0.0008			332	0.0092
⇒ equivalent to 2.24 G _{rms}				353	0.0172
				382	0.0071
				428	0.0157
				500	0.0016
				⇒ equivalent to 1.90 G _{rms}	

Specimen:




Style/ Item No. : WMRM919

Quantity : total 1 set

Test Result:

Check Item Style/Item No.	Appearance check (Visual check)	Functional Check & Performance Check
WMRM919	No visible damage	Normal

Test Photos:

	
<p>1. Appearance of specimen (WMRM919)</p>	<p>2. Appearance of specimen (WMRM919)</p>
	
<p>3. Appearance of specimen (WMRM919)</p>	<p>4. Appearance of specimen (WMRM919)</p>
	
<p>5. Appearance of specimen (WMRM919)</p>	<p>6. Appearance of specimen (WMRM919)</p>

Test Photos--Continued:



7. Vibration Test -- X axis



8. Vibration Test -- Y axis



9. Vibration Test -- Z axis



10. Functional check



11. Functional check

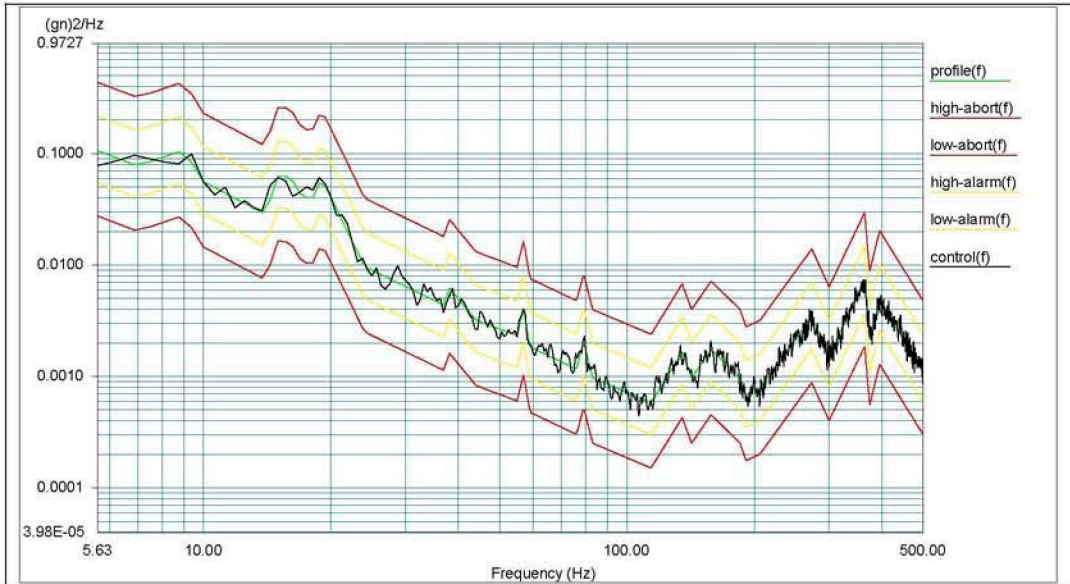
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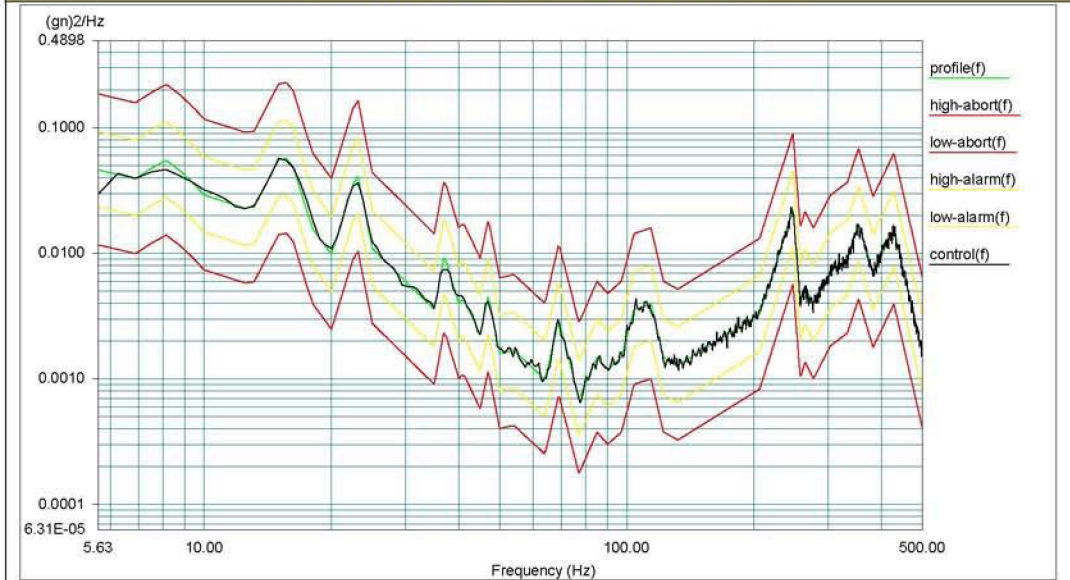
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Test Photos--Continued:



12. Frequency response spectrum: X axis



13. Frequency response spectrum: Y axis

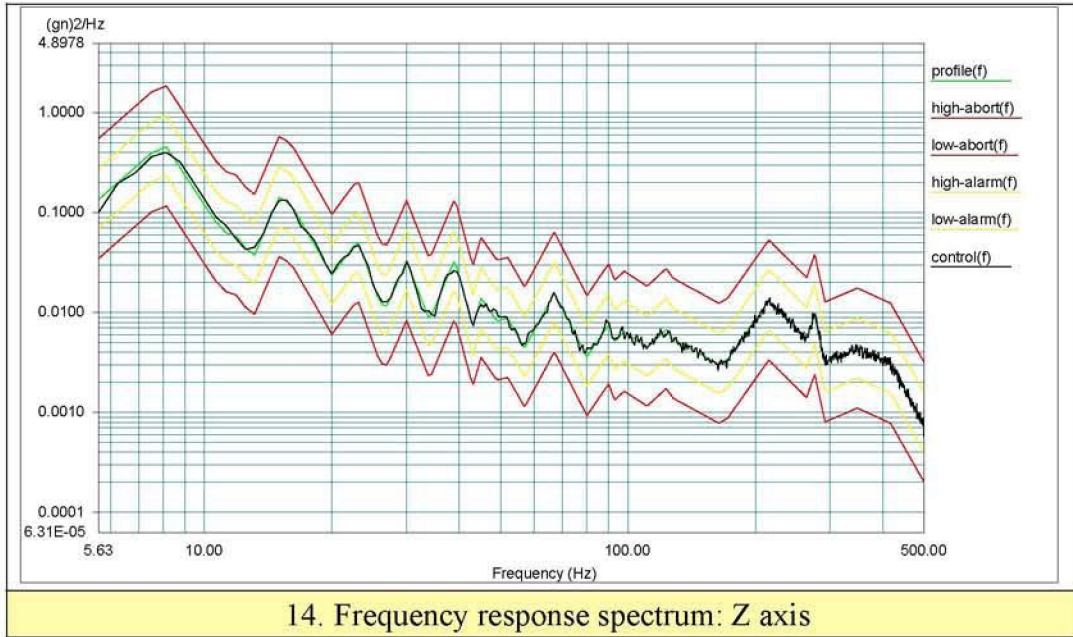
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Test Photos--Continued:



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