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# CERTIFICATE

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**Issued Date: Oct. 16, 2008**  
**Report No.: 089255R-ITUSP02V01**

This is to certify that the following designated product

**Product : 4-channel MPEG4/MJPEG Industrial Video Encoder**  
**Trade name : Moxa**  
**Model Number : VPort 254, VPort 254-M-SC, VPort 254-S-SC, VPort 254-T**  
**VPort 254-M-SC-T, VPort 254-S-SC-T**  
**Company Name : MOXA Inc.**

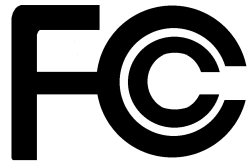
This product, which has been issued the test report listed as above in Quietek Laboratory, is based on a single evaluation of one sample and confirmed to comply with the requirements of the following EMC standard.

**FCC CFR Title 47 Part 15 Subpart B: 2007 Class A, CISPR 22: 2005**  
**ANSI C63.4: 2003 ICES-003 Issue 4: 2004 Class A**

TEST LABORATORY

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Vincent Lin / Manager



# Test Report

**Compliance with Industry Canada Interference-Causing  
Equipment Standard ICES-003**

Product Name : 4-channel MPEG4/MJPEG Industrial Video Encoder  
Model No. : VPort 254, VPort 254-M-SC, VPort 254-S-SC, VPort 254-T  
VPort 254-M-SC-T, VPort 254-S-SC-T

Applicant : MOXA Inc.

Address : F1.4, No. 135, Lane 235, Pao-Chiao Rd., Shing  
Tien City, Taipei, Taiwan, R.O.C.

Date of Receipt : 2008/09/25

Issued Date : 2008/10/16

Report No. : 089255R-ITUSP02V01

Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, NVLAP, NIST or any agency of the Government.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

## Test Report Certification

Issued Date : 2008/10/16

Report No. : 089255R-ITUSP02V01



Product Name : 4-channel MPEG4/MJPEG Industrial Video Encoder  
Applicant : MOXA Inc.  
Address : F1.4, No. 135, Lane 235, Pao-Chiao Rd., Shing Tien City,  
Taipei, Taiwan, R.O.C.  
Manufacturer : MOXA Inc.  
Model No. : VPort 254, VPort 254-M-SC, VPort 254-S-SC, VPort 254-T  
VPort 254-M-SC-T, VPort 254-S-SC-T  
Rated Voltage : AC 120 V / 60 Hz  
EUT Voltage : DC 12~32V, AC 24V  
Trade Name : Moxa  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2007 Class A CISPR  
22: 2005 ANSI C63.4: 2003  
ICES-003 Issue 4: 2004 Class A  
Test Result : Complied  
Performed Location : Quietek Corporation (Linkou Laboratory)  
No.5-22,Ruei-Shu Valley, Ruei-Ping Tsuen Lin Kuo Shiang,  
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TEL:+866-2-8601-3788 / FAX:+886-2-8601-3789

Documented By :

(Adm. Specialist / Joanne Lin)

Reviewed By :

(Engineer / Elvis Su)

Approved By :

( Manager / Vincent Lin)

## Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

<b>Taiwan R.O.C.</b>	<b>:</b>	<b>BSMI, NCC, TAF</b>
<b>Germany</b>	<b>:</b>	<b>TUV Rheinland</b>
<b>Norway</b>	<b>:</b>	<b>Nemko, DNV</b>
<b>USA</b>	<b>:</b>	<b>FCC, NVLAP</b>
<b>Japan</b>	<b>:</b>	<b>VCCI</b>

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/enterprise/services.php?item=100>  
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

### HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.  
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com



### LinKou Testing Laboratory :

No. 5, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.  
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### Suzhou (China) Testing Laboratory :

No. 99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou,China.  
TEL : +86-512-6251-5088 / FAX : +86-512-6251-5098 E-Mail : service@quietek.com



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## 1. General Information

### 1.1. EUT Description

Product Name	4-channel MPEG4/MJPEG Industrial Video Encoder
Trade Name	Moxa
Model No.	VPort 254, VPort 254-M-SC, VPort 254-S-SC, VPort 254-T VPort 254-M-SC-T, VPort 254-S-SC-T

Component	
Fiber Cable	Non-Shielded, 2.1m
Coaxial Cable	Shielded, 3m

Note:

The different of the six models is shown as below:

Model Number	Description
VPort 254-M-SC	Multi Mode
VPort 254-S-SC	Single Mode
VPort 254-T, VPort 254-M-SC-T, VPort 254-S-SC-T	Extreme temperatures

## 1.2. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
Mode 1: Normal Operation (Fiber Port)	
Mode 2: Normal Operation (LAN Port)	
Final Test Mode	
Emission	Mode 1: Normal Operation (Fiber Port)
	Mode 2: Normal Operation (LAN Port)

### 1.3. Tested System Details

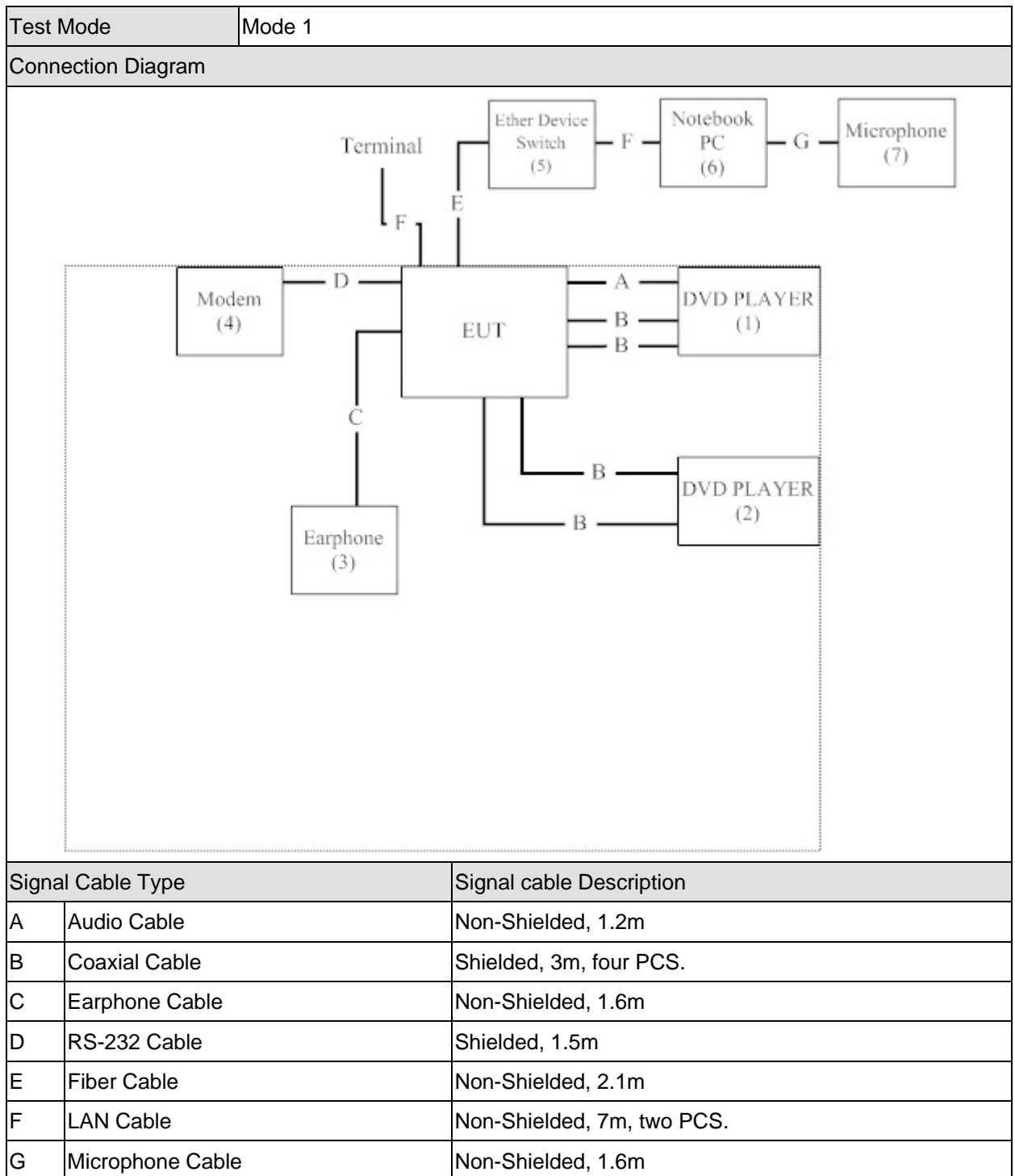
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Test Mode		Mode 1			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	DVD PLAYER	Pioneer	DV-989Avi-G	FEMP000538TA	Non-Shielded, 1.8m
2	DVD PLAYER	Pioneer	DV-S969Avi	EAMP004349LW	Non-Shielded, 1.8m
3	Earphone	AIWA	N/A	N/A	N/A
4	Modem	ACEEX	DM-1414	0102027553	Non-Shielded, 1.8m
5	Ether Device Switch	MOXA	EDS-408A-MM-SC	N/A	Non-Shielded, 1.8m
6	Notebook PC	DELL	PP04X	2D2ZM1S	Non-Shielded, 1.8m
7	Microphone	Yi Sheng	S-124	N/A	N/A

Test Mode		Mode 2			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	DVD PLAYER	Pioneer	DV-989Avi-G	FEMP000538TA	Non-Shielded, 1.8m
2	DVD PLAYER	Pioneer	DV-S969Avi	EAMP004349LW	Non-Shielded, 1.8m
3	Earphone	AIWA	N/A	N/A	N/A
4	Modem	ACEEX	DM-1414	0102027553	Non-Shielded, 1.8m
5	Notebook PC	DELL	PP04X	2D2ZM1S	Non-Shielded, 1.8m
6	Microphone	Yi Sheng	S-124	N/A	N/A



1.4. Configuration of Tested System



Test Mode		Mode 2	
Connection Diagram			
<p>The diagram shows a central EUT (Equipment Under Test) box. To its left, a Modem (4) is connected via a cable labeled 'D'. Below the EUT, an Earphone (3) is connected via a cable labeled 'C'. Above the EUT, a Terminal is connected via a cable labeled 'E', and a Notebook PC (5) is also connected via a cable labeled 'E'. To the right of the EUT, a Microphone (6) is connected to the Notebook PC (5) via a cable labeled 'F'. Two DVD PLAYERS, labeled (1) and (2), are connected to the EUT. DVD PLAYER (1) is connected via cables labeled 'A' and 'B'. DVD PLAYER (2) is connected via cables labeled 'B' and 'B'.</p>			
Signal Cable Type		Signal cable Description	
A	Audio Cable	Non-Shielded, 1.2m	
B	Coaxial Cable	Shielded, 3m, four PCS.	
C	Earphone Cable	Non-Shielded, 1.6m	
D	RS-232 Cable	Shielded, 1.5m	
E	LAN Cable	Non-Shielded, 7m, two PCS.	
F	Microphone Cable	Non-Shielded, 1.6m	

**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	Boot the PC from Hard Disk.
4	PC reads test software from disk.
5	The CCD will start to operate and capture the video figure into PC thought EUT.
6	PC will display "video figure" on monitor.
7	Repeat the above procedure (5) to (6).

**2. Technical Test**

**2.1. Summary of Test Result**

- No deviations from the test standards
- Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2007 Class A ANSI C63.4: 2003	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2007 Class A ANSI C63.4: 2003	Yes	No

## 2.2. List of Test Equipment

### Conducted Emission / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100366	2007/10/18
LISN	R&S	ENV4200	833209/007	2008/08/12
LISN	R&S	ENV216	100085	2008/02/14
Pulse Limiter	R&S	ESH3-Z2	357.88.10.52	2008/09/04

### Radiated Emission / Site3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2704	2008/09/15
Broadband Horn Antenna	Schwarzbeck	BBHA9170	208	2008/07/25
EMI Test Receiver	R&S	ESCS 30	838251/001	2008/03/22
Horn Antenna	Schwarzbeck	BBHA9120D	305	2008/08/10
Pre-Amplifier	QTK	N/A	N/A	2008/01/03
Spectrum Analyzer	Advantest	R3162	101102468	2007/10/24
EMI Test Receiver	R&S	ESI 26	838786/004	2008/05/25
Pre-Amplifier	MITEQ	QMF-4D-18040 0-45-6P	925974	2008/01/03

### **2.3. Measurement Uncertainty**

#### Conducted Emission

The measurement uncertainty is evaluated as  $\pm 2.26$  dB.

#### Radiated Emission

The measurement uncertainty is evaluated as  $\pm 3.19$  dB.

**2.4. Test Environment**

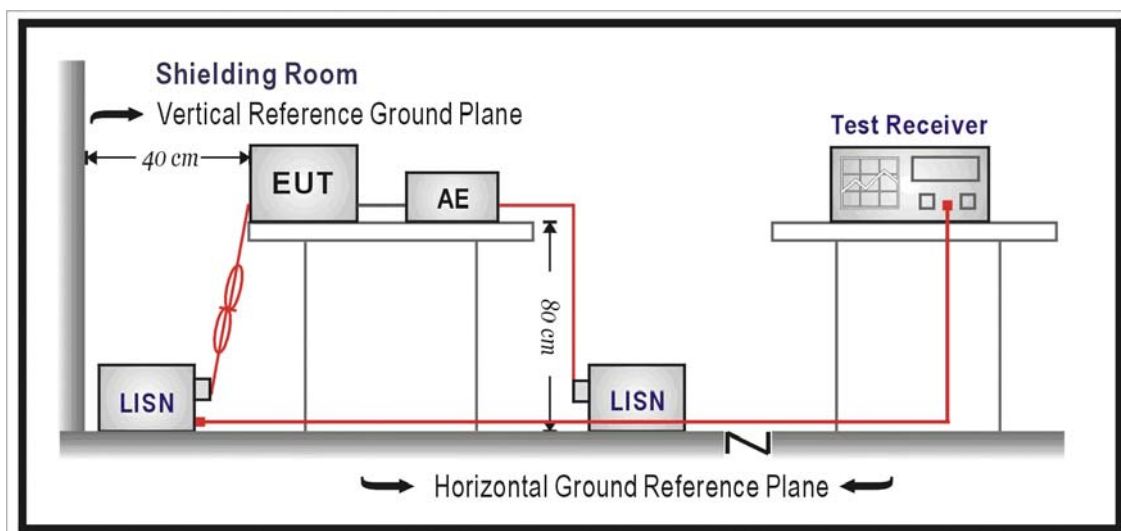
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000

### 3. Conducted Emission

#### 3.1. Test Specification

According to Standard : FCC Part 15 Subpart B, ANSI C63.4

#### 3.2. Test Setup



#### 3.3. Limit

Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.



### 3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

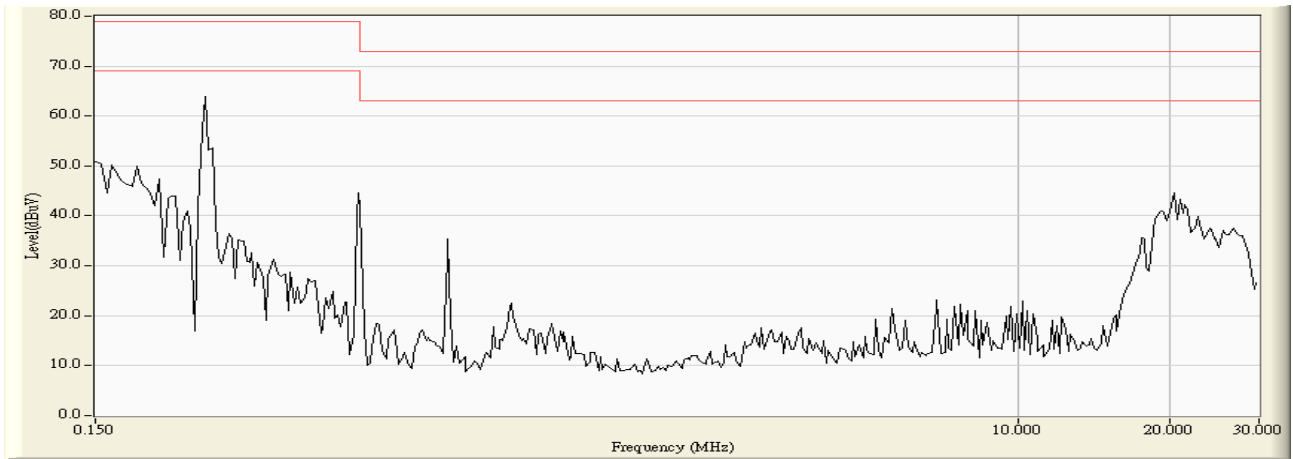
(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

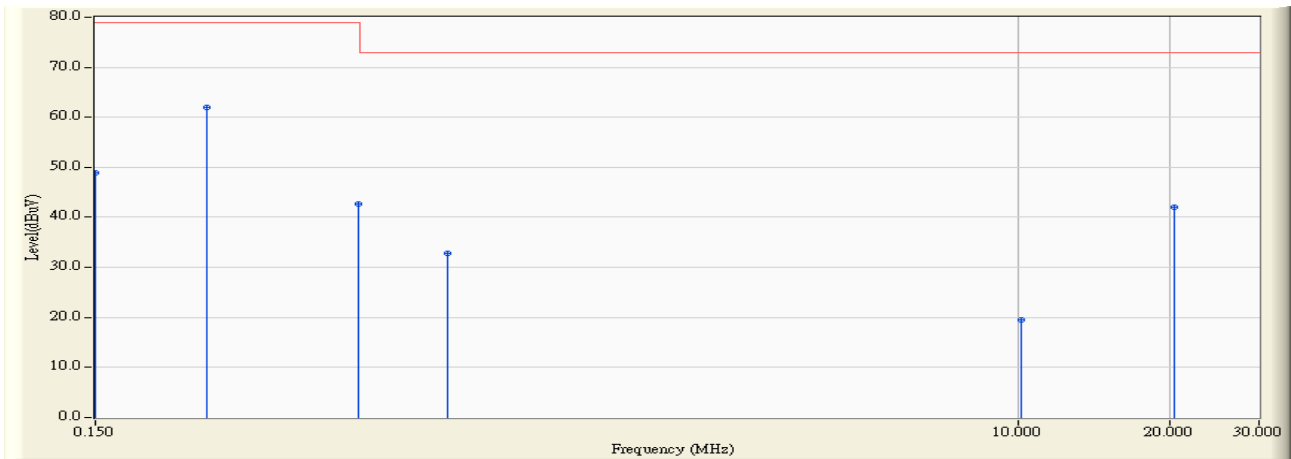
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

**3.5. Test Result**

Site : SR-1	Time : 2008/10/08 - 10:39
Limit : CISPR_A_00M_QP	Margin : 10
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-L(023) - Line1
Power : AC 24V	Note : Mode 1



Site : SR-1	Time : 2008/10/08 - 10:39
Limit : CISPR_A_00M_QP	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-L(023) - Line1
Power : AC 24V	Note : Mode 1

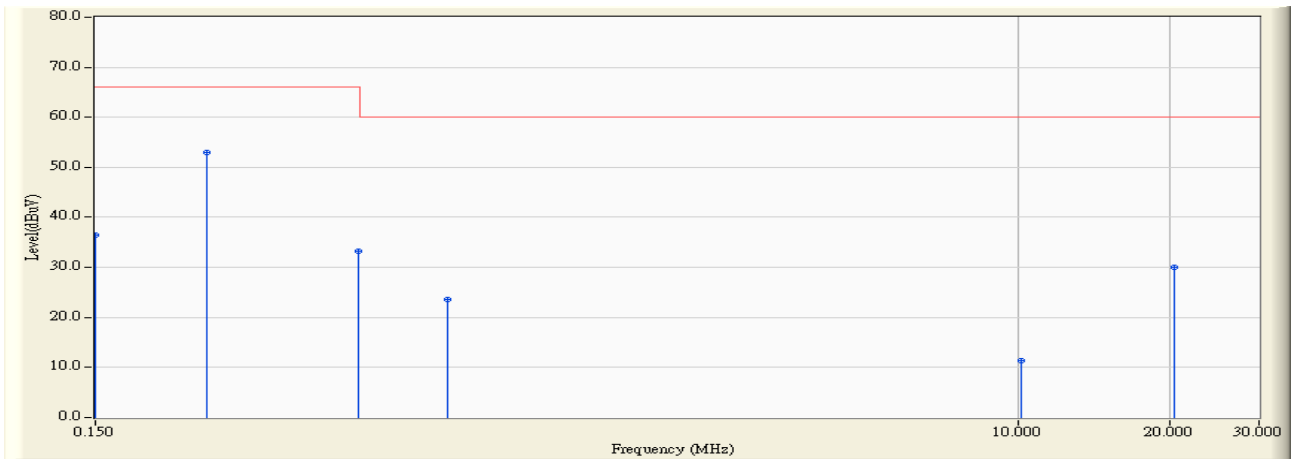


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	0.300	48.520	48.820	-30.180	79.000	QUASPEAK
2	*	0.249	0.349	61.600	61.949	-17.051	79.000	QUASPEAK
3		0.498	0.300	42.340	42.640	-36.360	79.000	QUASPEAK
4		0.747	0.310	32.470	32.780	-40.220	73.000	QUASPEAK
5		10.191	0.610	18.970	19.580	-53.420	73.000	QUASPEAK
6		20.374	1.110	40.900	42.010	-30.990	73.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/08 - 10:40
Limit : CISPR_A_00M_AV	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-L(023) - Line1
Power : AC 24V	Note : Mode 1

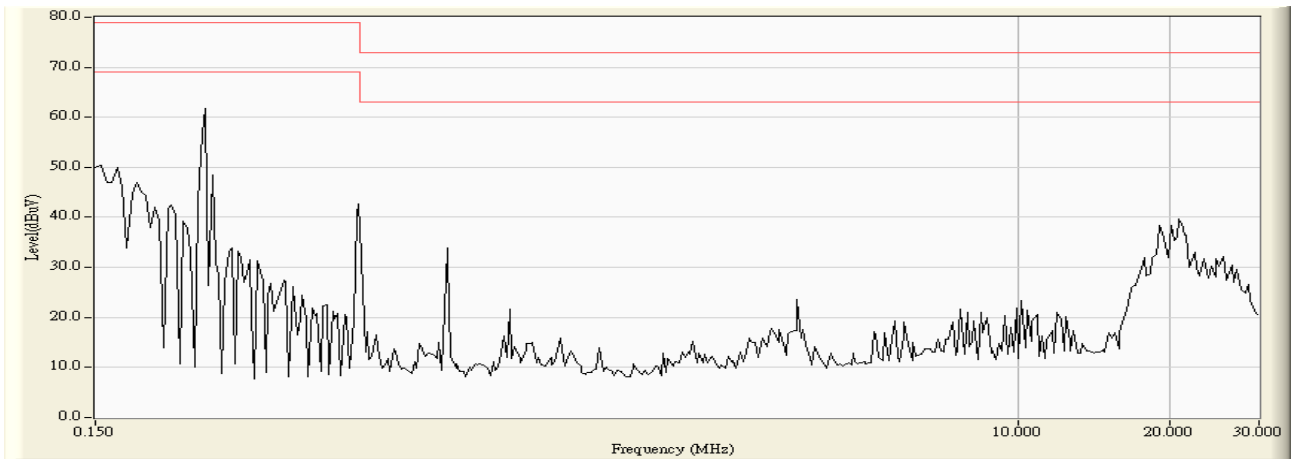


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	0.300	36.160	36.460	-29.540	66.000	AVERAGE
2	*	0.249	0.349	52.580	52.929	-13.071	66.000	AVERAGE
3		0.498	0.300	32.940	33.240	-32.760	66.000	AVERAGE
4		0.747	0.310	23.380	23.690	-36.310	60.000	AVERAGE
5		10.191	0.610	10.740	11.350	-48.650	60.000	AVERAGE
6		20.374	1.110	28.870	29.980	-30.020	60.000	AVERAGE

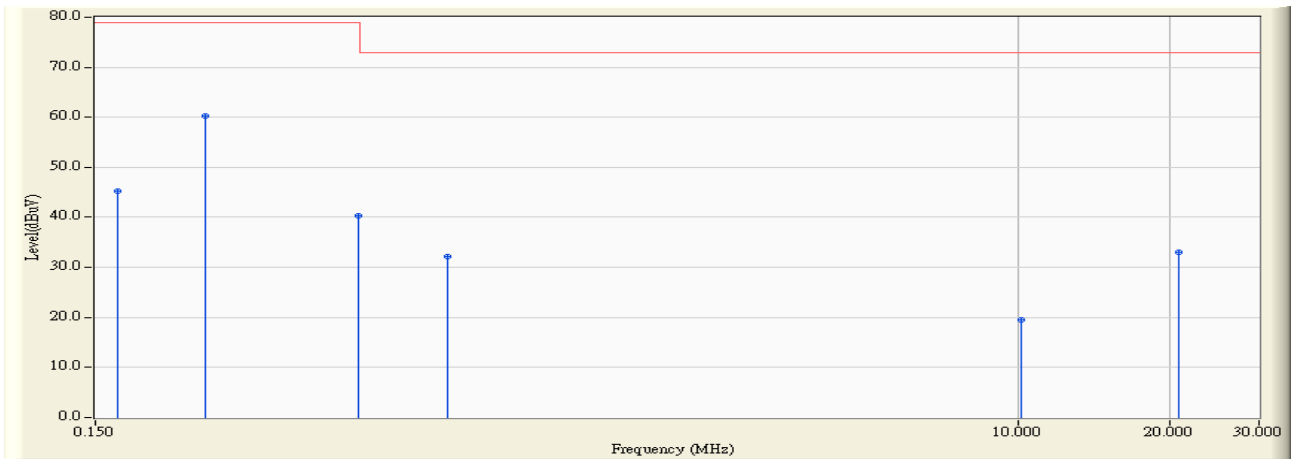
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/08 - 10:40
Limit : CISPR_A_00M_QP	Margin : 10
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-N(023) - Line2
Power : AC 24V	Note : Mode 1



Site : SR-1	Time : 2008/10/08 - 10:41
Limit : CISPR_A_00M_QP	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-N(023) - Line2
Power : AC 24V	Note : Mode 1

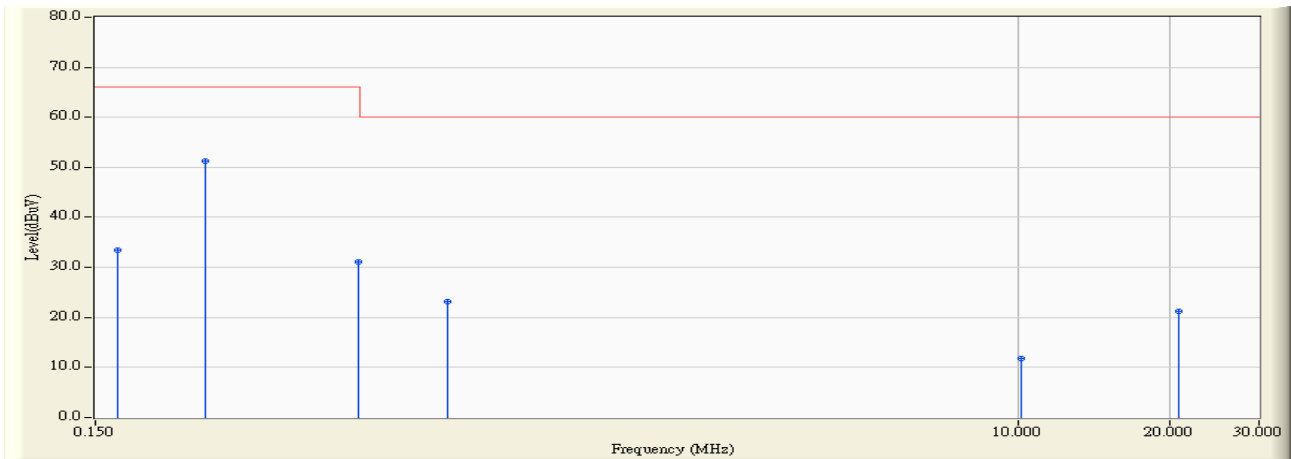


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	0.300	44.850	45.150	-33.850	79.000	QUASPEAK
2	*	0.248	0.300	60.030	60.330	-18.670	79.000	QUASPEAK
3		0.498	0.310	40.040	40.350	-38.650	79.000	QUASPEAK
4		0.744	0.319	31.900	32.219	-40.781	73.000	QUASPEAK
5		10.180	0.510	19.080	19.590	-53.410	73.000	QUASPEAK
6		20.861	0.930	32.110	33.040	-39.960	73.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/08 - 10:41
Limit : CISPR_A_00M_AV	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-N(023) - Line2
Power : AC 24V	Note : Mode 1

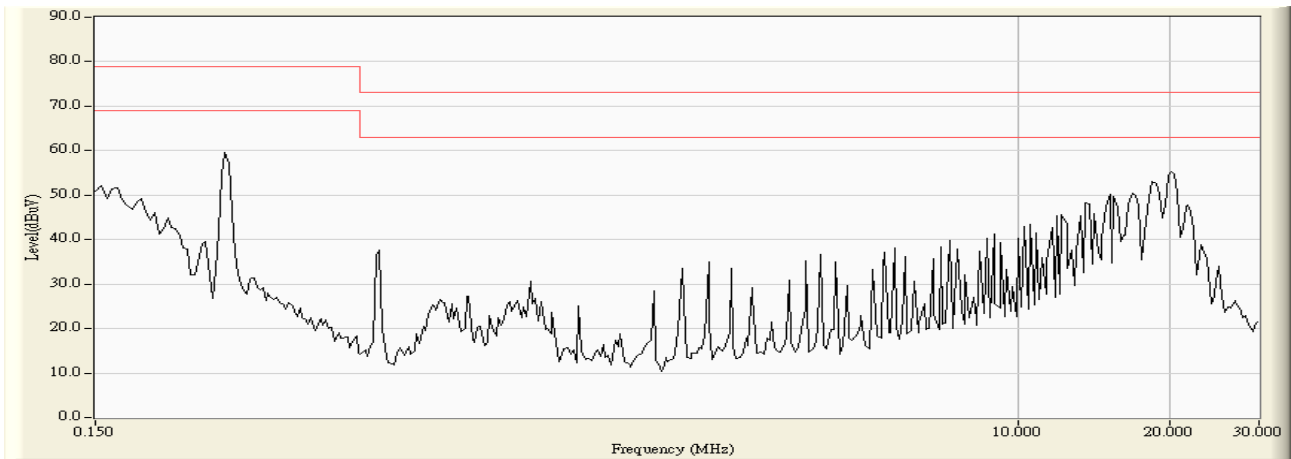


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	0.300	33.260	33.560	-32.440	66.000	AVERAGE
2	*	0.248	0.300	51.060	51.360	-14.640	66.000	AVERAGE
3		0.498	0.310	30.810	31.120	-34.880	66.000	AVERAGE
4		0.744	0.319	22.740	23.059	-36.941	60.000	AVERAGE
5		10.180	0.510	11.200	11.710	-48.290	60.000	AVERAGE
6		20.861	0.930	20.270	21.200	-38.800	60.000	AVERAGE

**Note:**

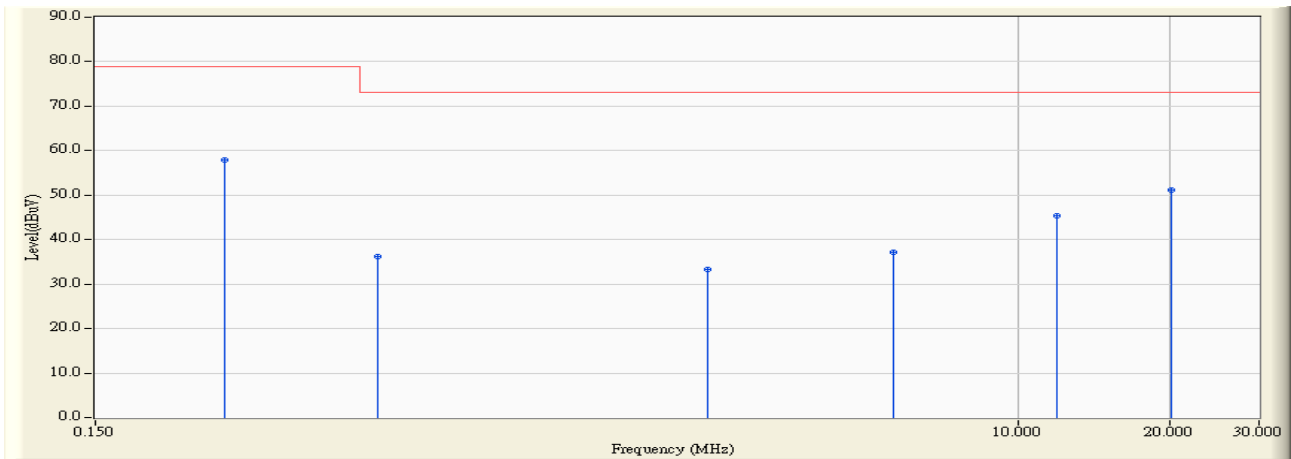
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/02 - 03:19
Limit : CISPR_A_00M_QP	Margin : 10
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 1 (+)





Site : SR-1	Time : 2008/10/02 - 03:22
Limit : CISPR_A_00M_QP	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 1 (+)

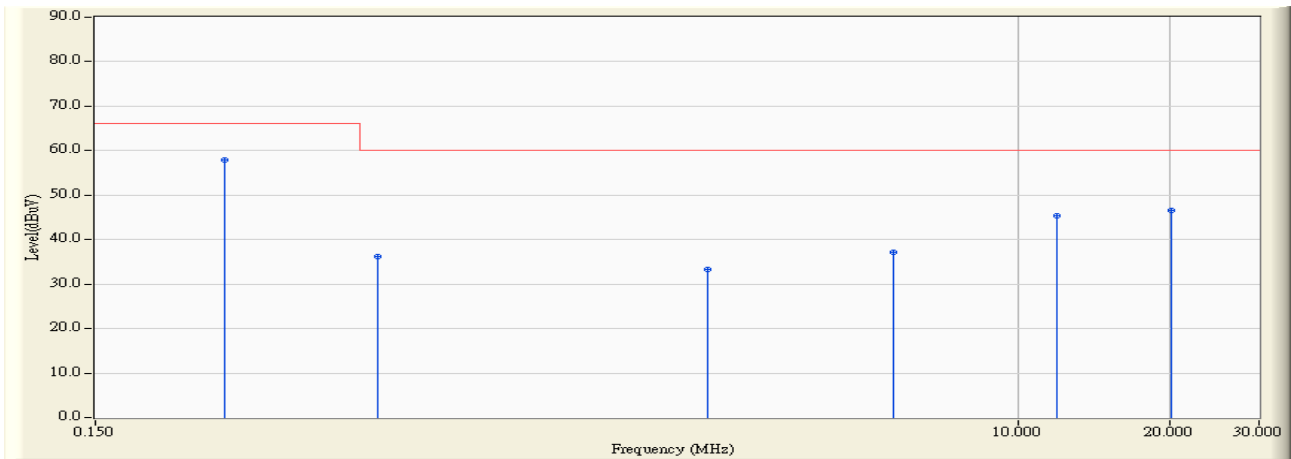


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.271	0.528	57.330	57.858	-21.142	79.000	QUASPEAK
2		0.542	0.400	35.850	36.250	-36.750	73.000	QUASPEAK
3		2.437	0.400	32.820	33.220	-39.780	73.000	QUASPEAK
4		5.692	0.400	36.840	37.240	-35.760	73.000	QUASPEAK
5		11.928	0.471	44.840	45.311	-27.689	73.000	QUASPEAK
6		20.064	0.700	50.350	51.050	-21.950	73.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/02 - 03:22
Limit : CISPR_A_00M_AV	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 1 (+)

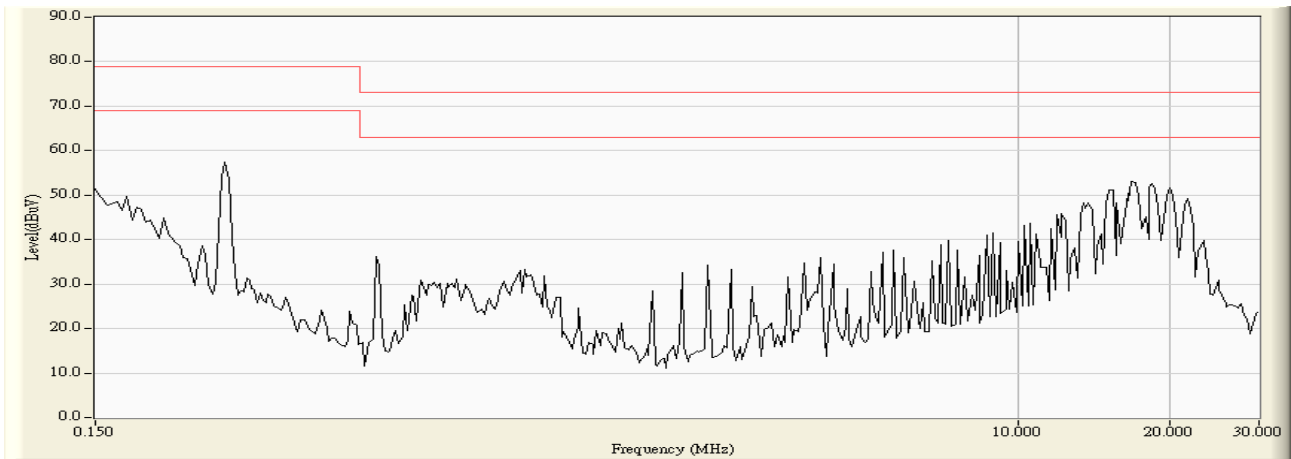


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.271	0.528	57.320	57.848	-8.152	66.000	AVERAGE
2		0.542	0.400	35.840	36.240	-23.760	60.000	AVERAGE
3		2.437	0.400	32.810	33.210	-26.790	60.000	AVERAGE
4		5.692	0.400	36.830	37.230	-22.770	60.000	AVERAGE
5		11.928	0.471	44.830	45.301	-14.699	60.000	AVERAGE
6		20.064	0.700	45.870	46.570	-13.430	60.000	AVERAGE

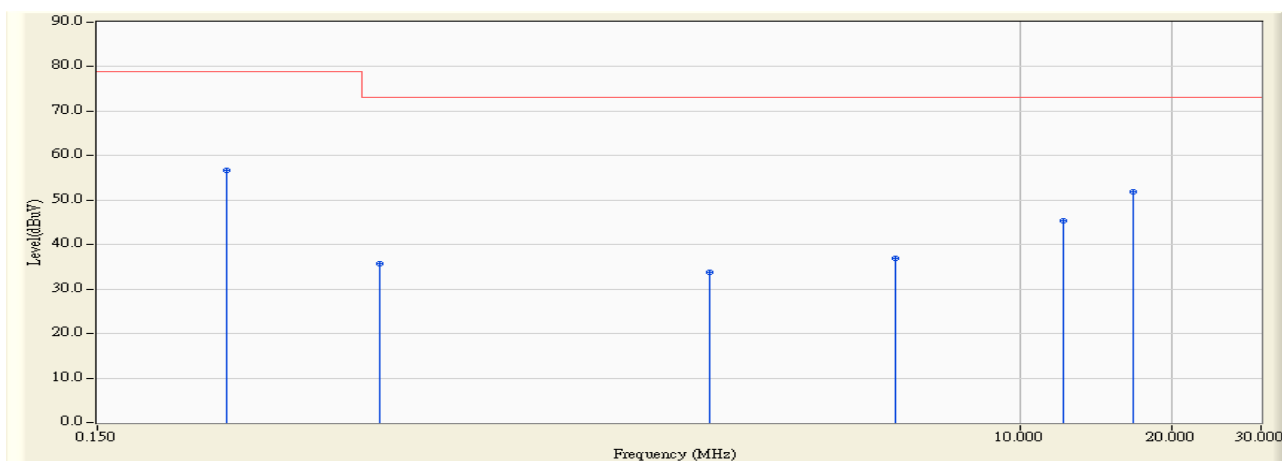
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/02 - 03:22
Limit : CISPR_A_00M_QP	Margin : 10
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 1 (-)



Site : SR-1	Time : 2008/10/02 - 03:24
Limit : CISPR_A_00M_QP	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 1 (-)

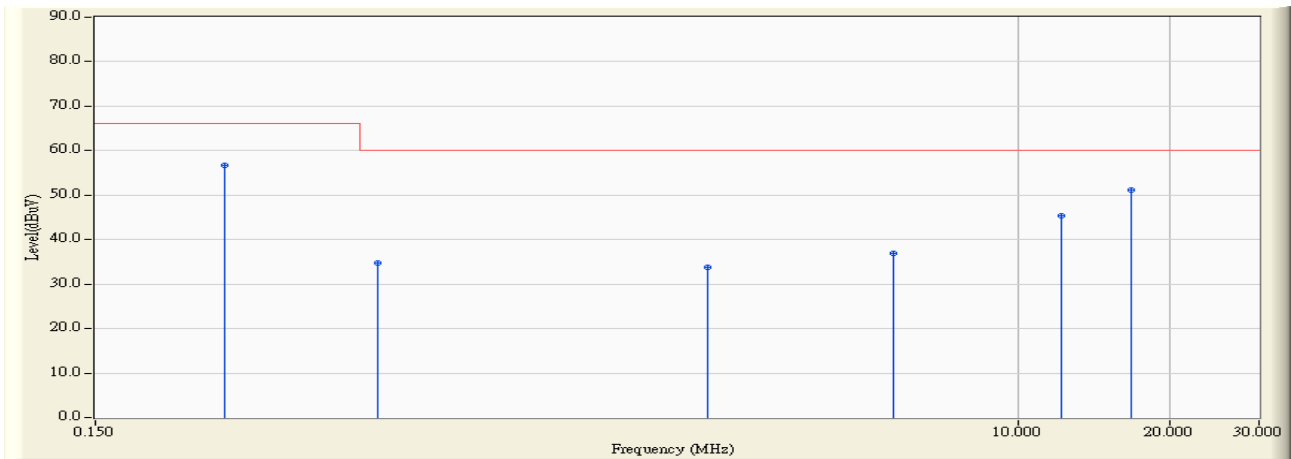


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.271	0.528	56.280	56.808	-22.192	79.000	QUASPEAK
2		0.541	0.400	35.240	35.640	-37.360	73.000	QUASPEAK
3		2.437	0.400	33.460	33.860	-39.140	73.000	QUASPEAK
4		5.686	0.400	36.490	36.890	-36.110	73.000	QUASPEAK
5		12.185	0.494	44.840	45.334	-27.666	73.000	QUASPEAK
6	*	16.790	0.640	51.250	51.890	-21.110	73.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/02 - 03:24
Limit : CISPR_A_00M_AV	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 1 (-)

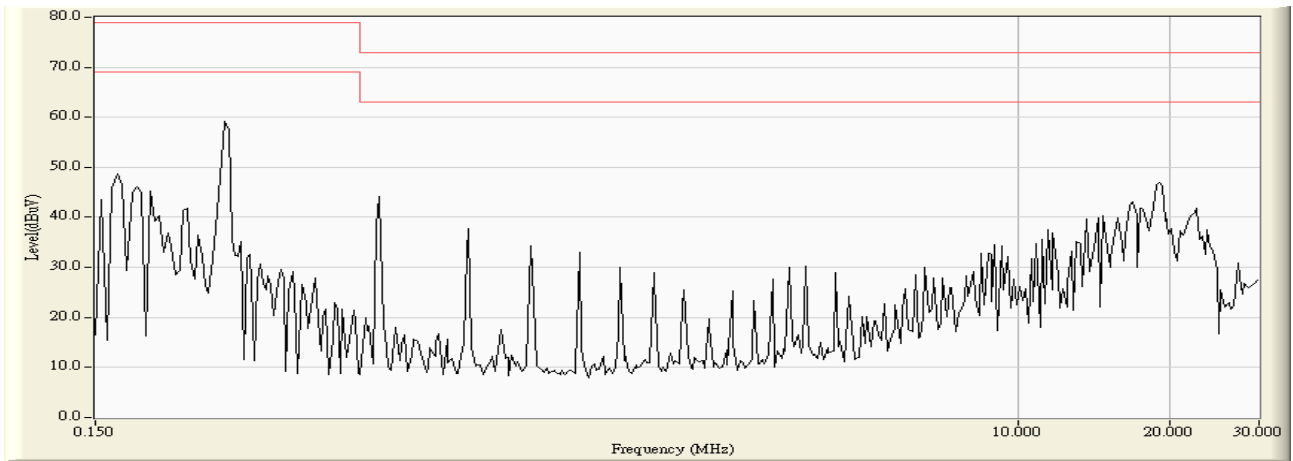


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.271	0.528	56.270	56.798	-9.202	66.000	AVERAGE
2		0.541	0.400	34.430	34.830	-25.170	60.000	AVERAGE
3		2.437	0.400	33.450	33.850	-26.150	60.000	AVERAGE
4		5.686	0.400	36.480	36.880	-23.120	60.000	AVERAGE
5		12.185	0.494	44.830	45.324	-14.676	60.000	AVERAGE
6	*	16.790	0.640	50.520	51.160	-8.840	60.000	AVERAGE

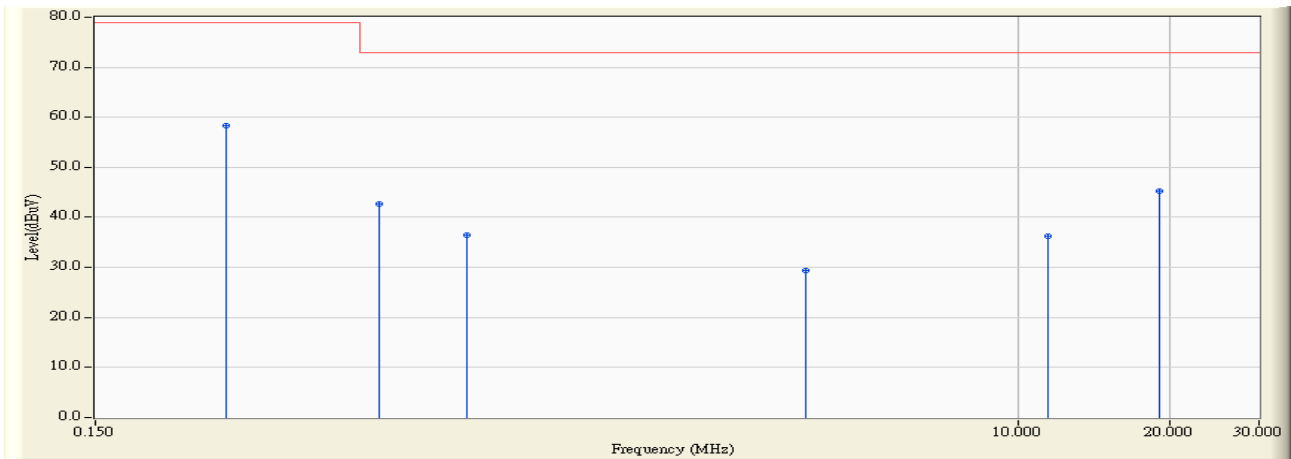
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/07 - 13:26
Limit : CISPR_A_00M_QP	Margin : 10
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-L(023) - Line1
Power : AC 24V	Note : Mode 2



Site : SR-1	Time : 2008/10/07 - 13:28
Limit : CISPR_A_00M_QP	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-L(023) - Line1
Power : AC 24V	Note : Mode 2

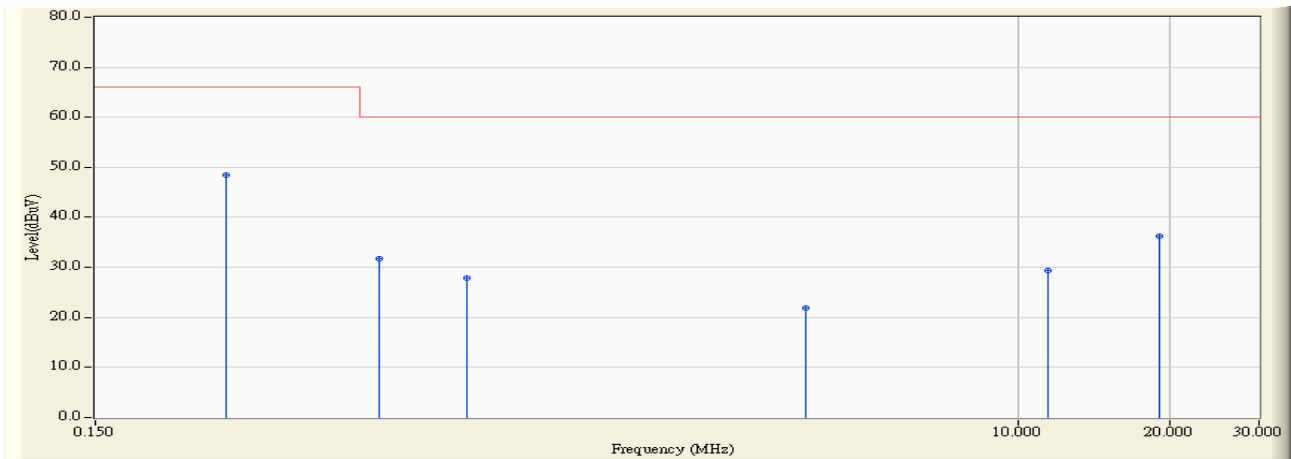


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.272	0.300	58.090	58.390	-20.610	79.000	QUASPEAK
2		0.546	0.300	42.450	42.750	-30.250	73.000	QUASPEAK
3		0.817	0.310	36.080	36.390	-36.610	73.000	QUASPEAK
4		3.817	0.390	28.910	29.300	-43.700	73.000	QUASPEAK
5		11.452	0.687	35.600	36.287	-36.713	73.000	QUASPEAK
6		19.082	1.080	44.180	45.260	-27.740	73.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/07 - 13:28
Limit : CISPR_A_00M_AV	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-L(023) - Line1
Power : AC 24V	Note : Mode 2



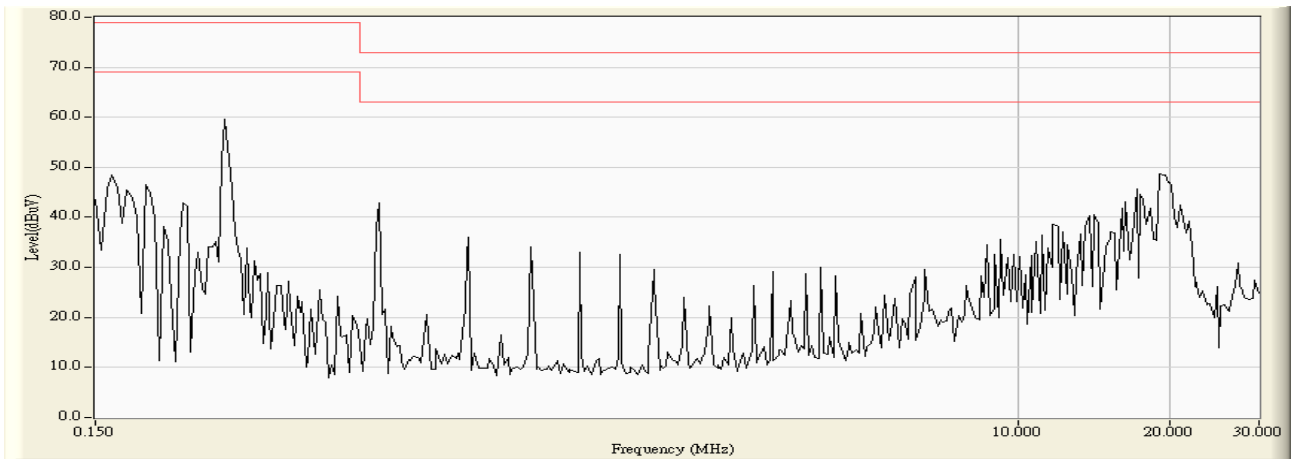
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.272	0.300	48.080	48.380	-17.620	66.000	AVERAGE
2		0.546	0.300	31.340	31.640	-28.360	60.000	AVERAGE
3		0.817	0.310	27.670	27.980	-32.020	60.000	AVERAGE
4		3.817	0.390	21.560	21.950	-38.050	60.000	AVERAGE
5		11.452	0.687	28.630	29.317	-30.683	60.000	AVERAGE
6		19.082	1.080	35.080	36.160	-23.840	60.000	AVERAGE

**Note:**

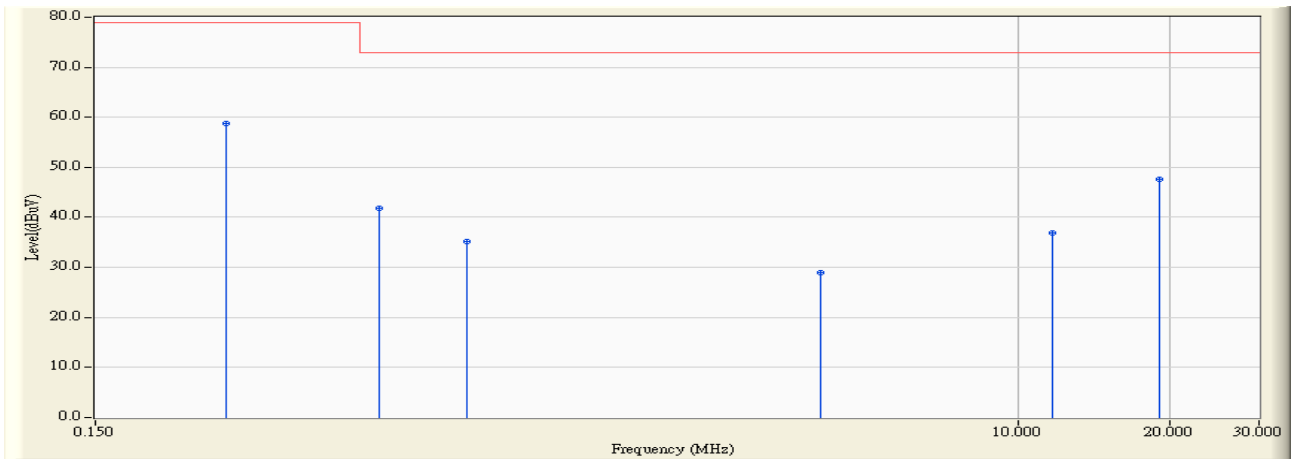
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : SR-1	Time : 2008/10/07 - 13:29
Limit : CISPR_A_00M_QP	Margin : 10
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-N(023) - Line2
Power : AC 24V	Note : Mode 2



Site : SR-1	Time : 2008/10/07 - 13:31
Limit : CISPR_A_00M_QP	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-N(023) - Line2
Power : AC 24V	Note : Mode 2

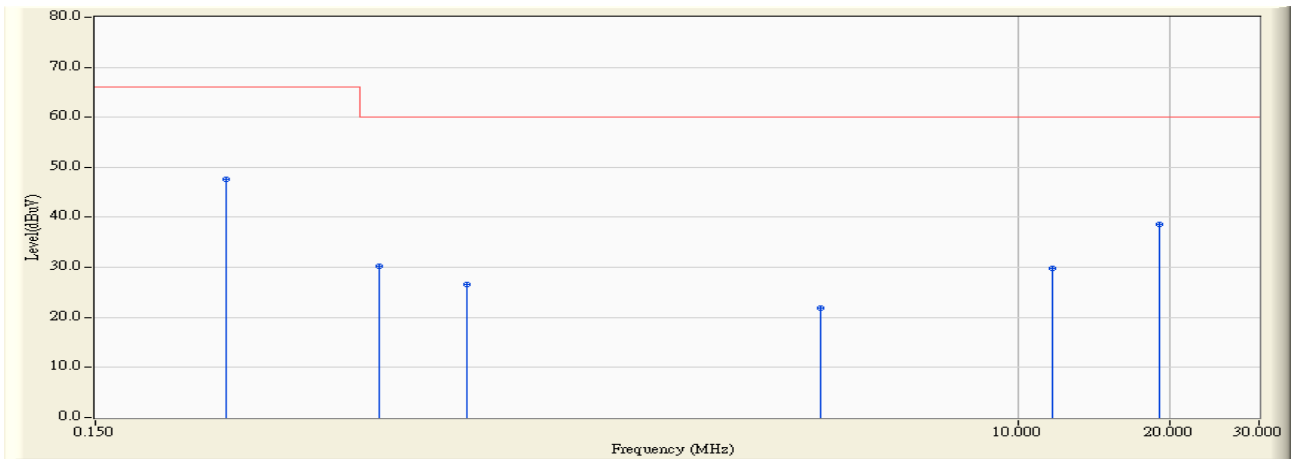


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.272	0.300	58.460	58.760	-20.240	79.000	QUASPEAK
2		0.545	0.310	41.580	41.890	-31.110	73.000	QUASPEAK
3		0.817	0.320	34.880	35.200	-37.800	73.000	QUASPEAK
4		4.088	0.400	28.510	28.910	-44.090	73.000	QUASPEAK
5		11.719	0.622	36.240	36.862	-36.138	73.000	QUASPEAK
6		19.076	0.900	46.660	47.560	-25.440	73.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/07 - 13:31
Limit : CISPR_A_00M_AV	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : LISN-N(023) - Line2
Power : AC 24V	Note : Mode 2

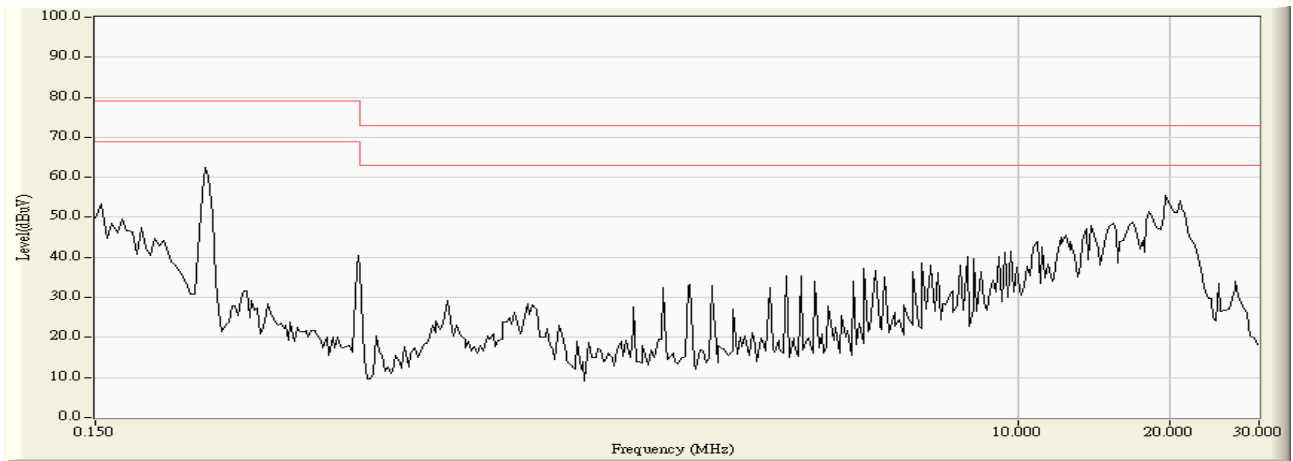


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.272	0.300	47.220	47.520	-18.480	66.000	AVERAGE
2		0.545	0.310	29.910	30.220	-29.780	60.000	AVERAGE
3		0.817	0.320	26.290	26.610	-33.390	60.000	AVERAGE
4		4.088	0.400	21.370	21.770	-38.230	60.000	AVERAGE
5		11.719	0.622	29.230	29.852	-30.148	60.000	AVERAGE
6		19.076	0.900	37.620	38.520	-21.480	60.000	AVERAGE

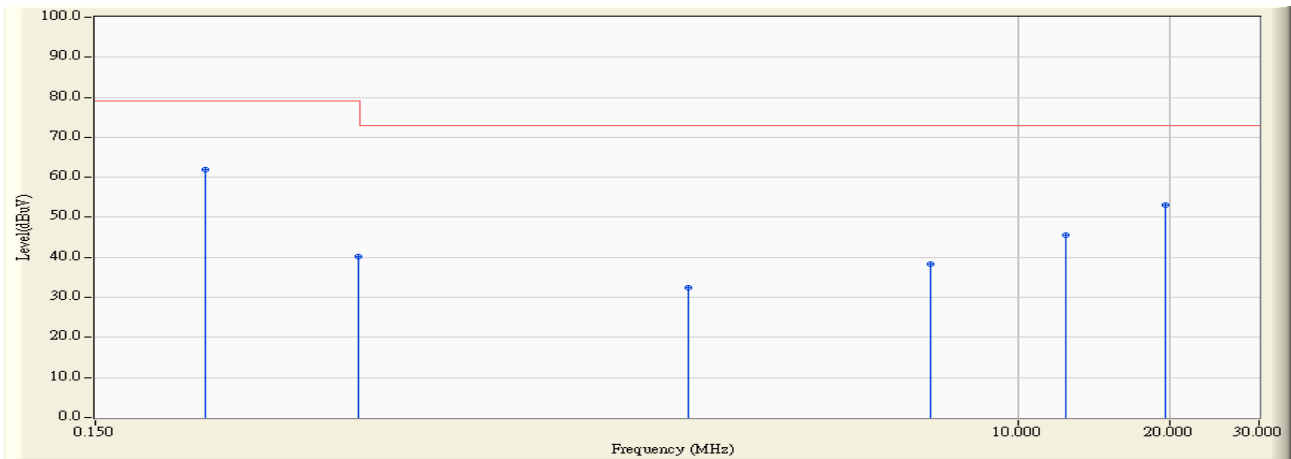
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/02 - 03:39
Limit : CISPR_A_00M_QP	Margin : 10
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 2 (+)



Site : SR-1	Time : 2008/10/02 - 03:40
Limit : CISPR_A_00M_QP	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 2 (+)

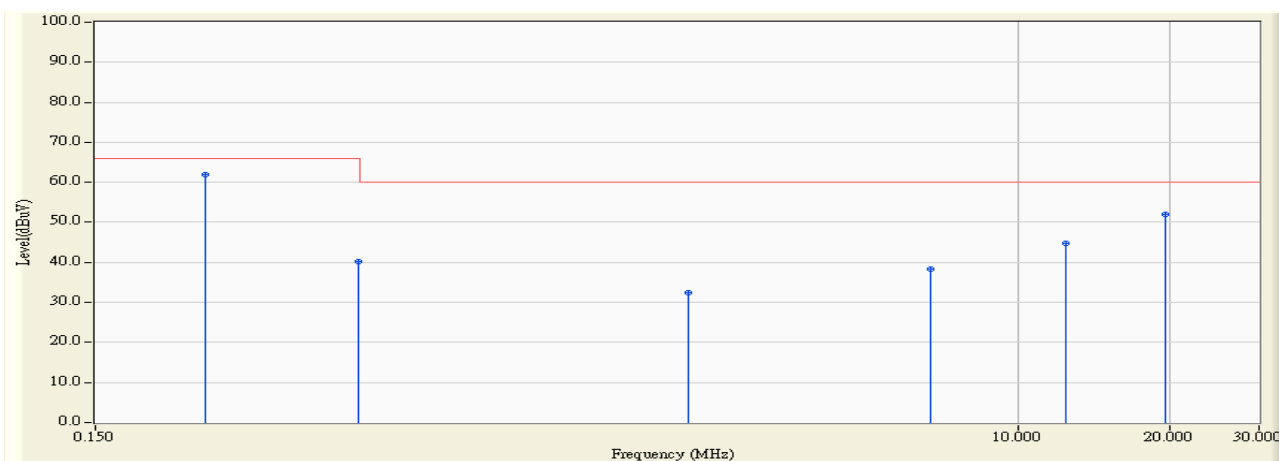


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.248	0.552	61.470	62.022	-16.978	79.000	QUASPEAK
2		0.498	0.400	39.750	40.150	-38.850	79.000	QUASPEAK
3		2.235	0.400	32.130	32.530	-40.470	73.000	QUASPEAK
4		6.710	0.400	37.980	38.380	-34.620	73.000	QUASPEAK
5		12.423	0.516	44.940	45.456	-27.544	73.000	QUASPEAK
6		19.628	0.690	52.350	53.040	-19.960	73.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/02 - 03:40
Limit : CISPR_A_00M_AV	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 2 (+)

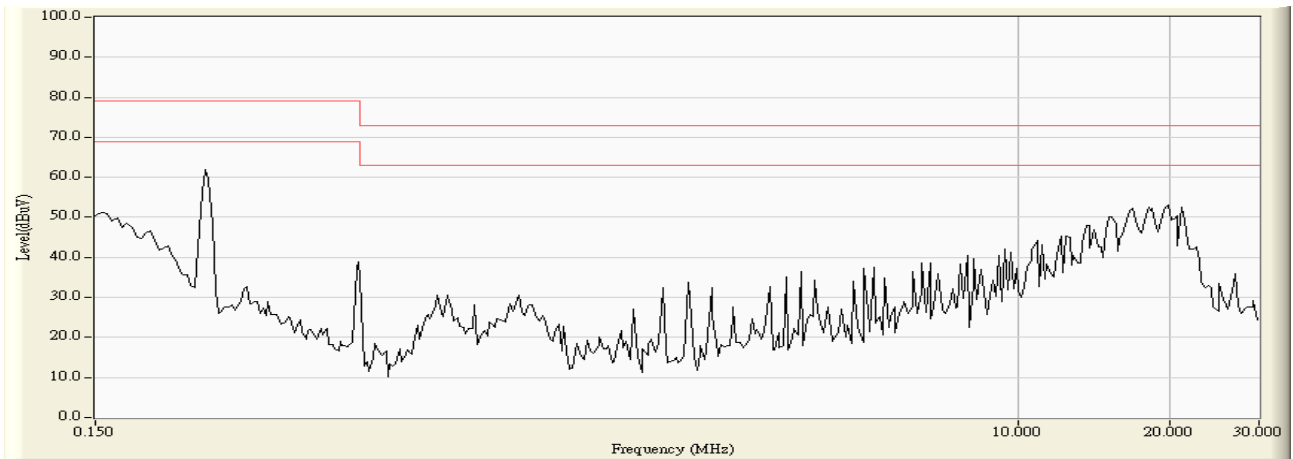


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.248	0.552	61.460	62.012	-3.988	66.000	AVERAGE
2		0.498	0.400	39.740	40.140	-25.860	66.000	AVERAGE
3		2.235	0.400	32.120	32.520	-27.480	60.000	AVERAGE
4		6.710	0.400	37.970	38.370	-21.630	60.000	AVERAGE
5		12.423	0.516	44.390	44.906	-15.094	60.000	AVERAGE
6		19.628	0.690	51.400	52.090	-7.910	60.000	AVERAGE

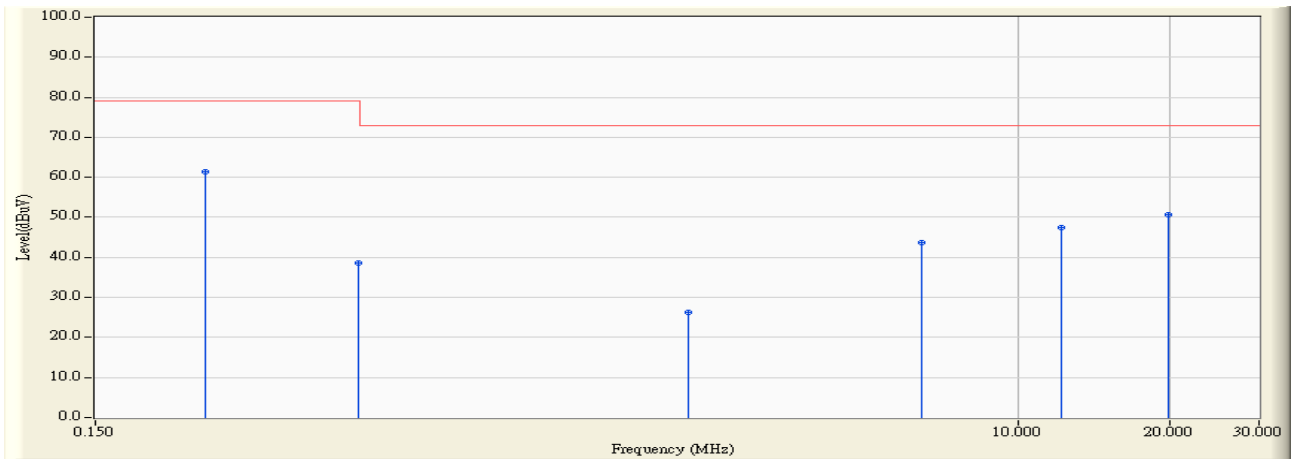
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2008/10/02 - 03:41
Limit : CISPR_A_00M_QP	Margin : 10
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 2 (-)



Site : SR-1	Time : 2008/10/02 - 03:42
Limit : CISPR_A_00M_QP	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 2 (-)



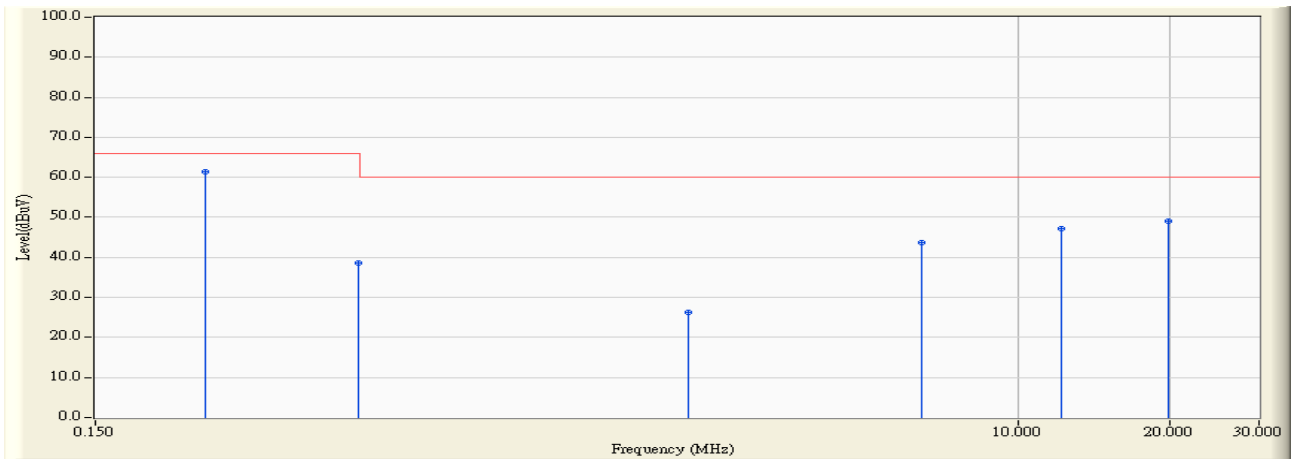
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.248	0.552	60.890	61.442	-17.558	79.000	QUASPEAK
2		0.498	0.400	38.240	38.640	-40.360	79.000	QUASPEAK
3		2.234	0.400	25.850	26.250	-46.750	73.000	QUASPEAK
4		6.453	0.400	43.210	43.610	-29.390	73.000	QUASPEAK
5		12.162	0.492	47.090	47.582	-25.418	73.000	QUASPEAK
6		19.851	0.700	50.010	50.710	-22.290	73.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : SR-1	Time : 2008/10/02 - 03:42
Limit : CISPR_A_00M_AV	Margin : 0
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : DC_LISN_NNBM8126F - Line1
Power : DC 32V	Note : Mode 2 (-)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.248	0.552	60.880	61.432	-4.568	66.000	AVERAGE
2		0.498	0.400	38.230	38.630	-27.370	66.000	AVERAGE
3		2.234	0.400	25.840	26.240	-33.760	60.000	AVERAGE
4		6.453	0.400	43.200	43.600	-16.400	60.000	AVERAGE
5		12.162	0.492	46.710	47.202	-12.798	60.000	AVERAGE
6		19.851	0.700	48.290	48.990	-11.010	60.000	AVERAGE

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3.6. Test Photograph

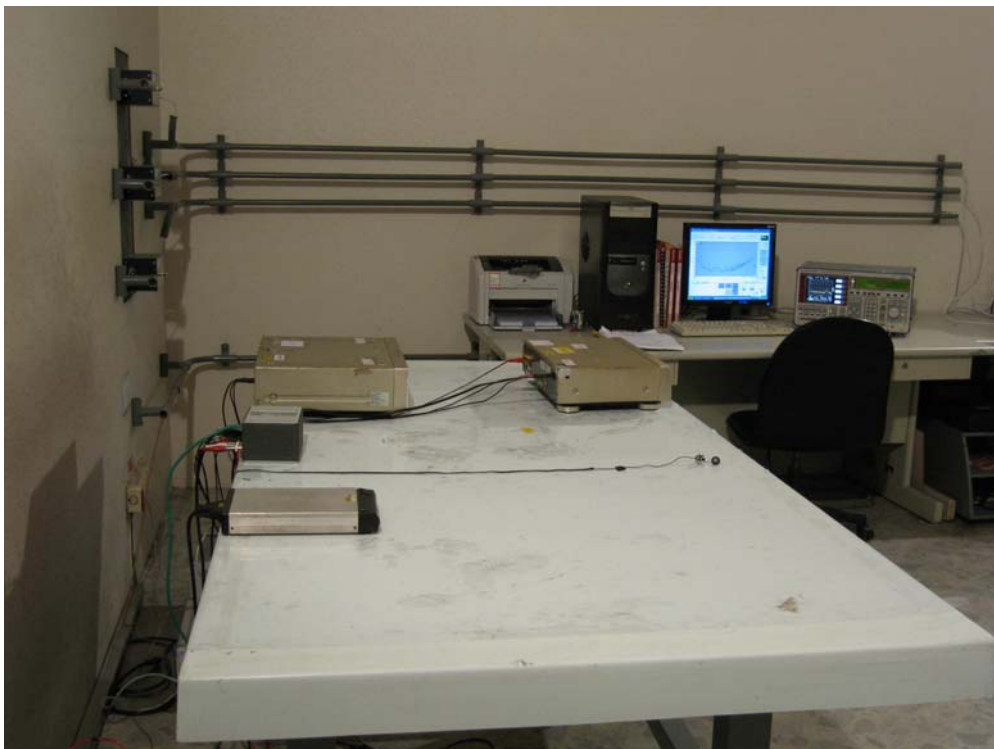
Test Mode : Mode 1: Normal Operation (Fiber Port)

Description : Front View of Conducted Test



Test Mode : Mode 1: Normal Operation (Fiber Port)

Description : Back View of Conducted Test



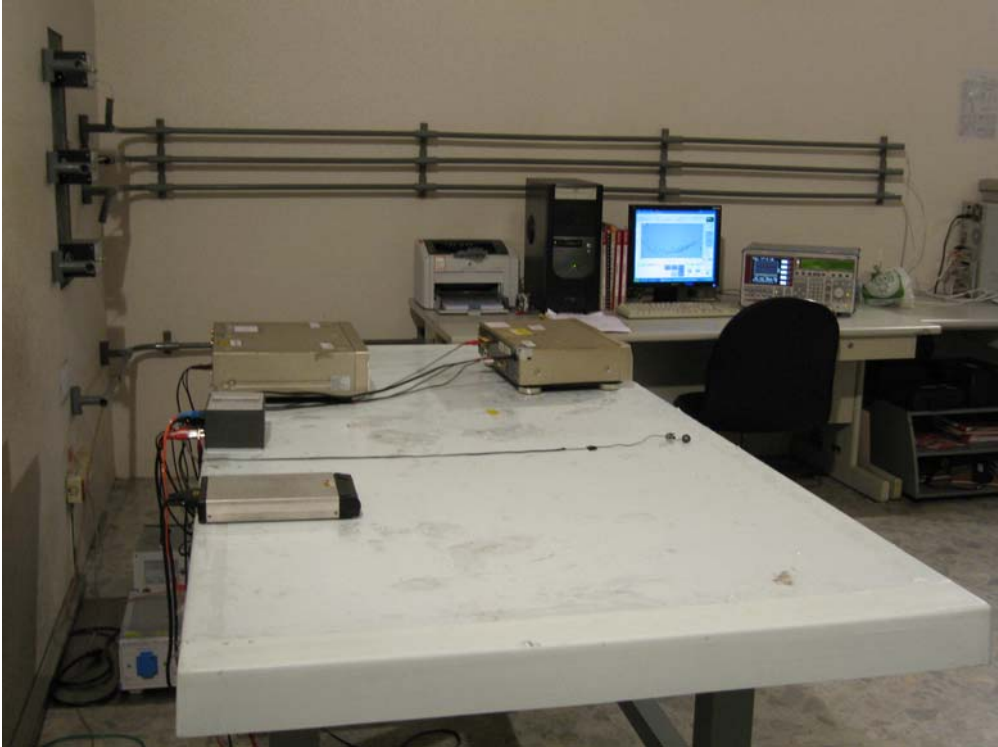
Test Mode : Mode 2: Normal Operation (LAN Port)

Description : Front View of Conducted Test



Test Mode : Mode 2: Normal Operation (LAN Port)

Description : Back View of Conducted Test



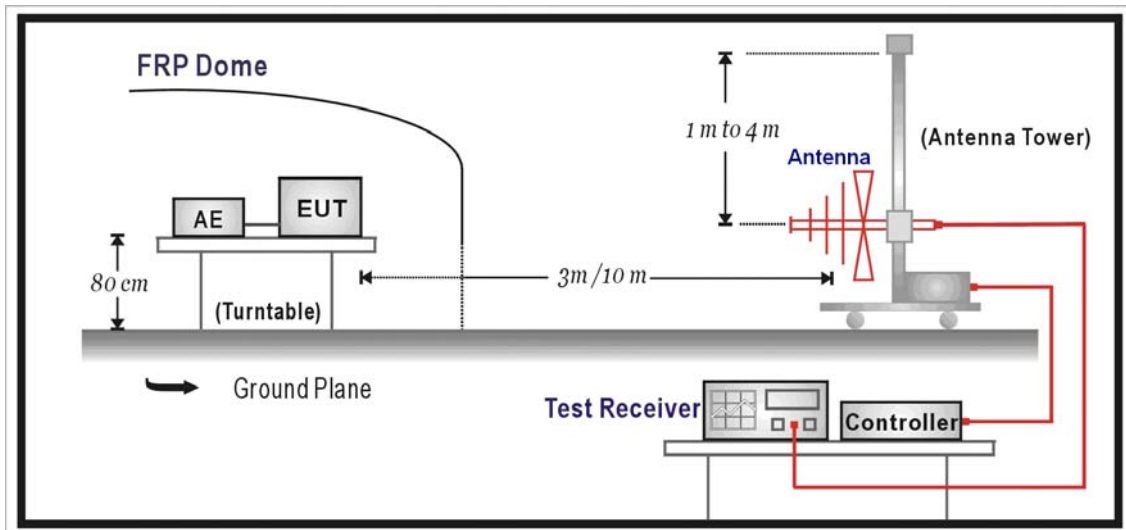
**4. Radiated Emission**

**4.1. Test Specification**

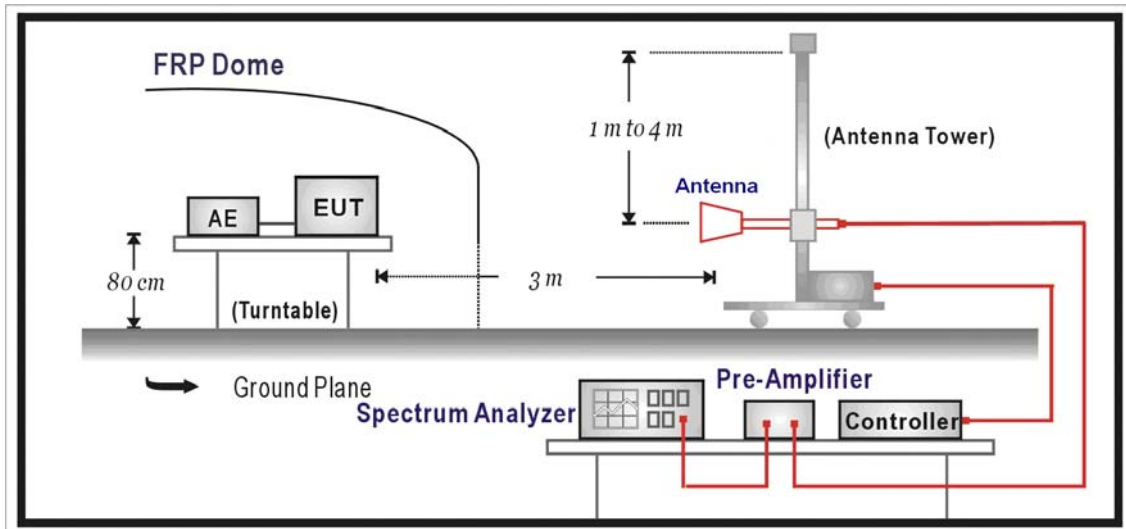
According to EMC Standard : FCC Part 15 Subpart B, ANSI C63.4

**4.2. Test Setup**

Under 1GHz Test Setup:



Above 1GHz Test Setup:



**4.3. Limit**

Under 1GHz test shall not exceed the following value:

Limits		
Frequency (MHz)	Distance (m)	dBuV/m
30 – 230	10	40
230 – 1000	10	47

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Above 1GHz test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance(m)	dBuV/m
30-88	10	39
88-216	10	43.5
216-960	10	46.4
Above 960	10	49.5

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

**4.4. Test Procedure**

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

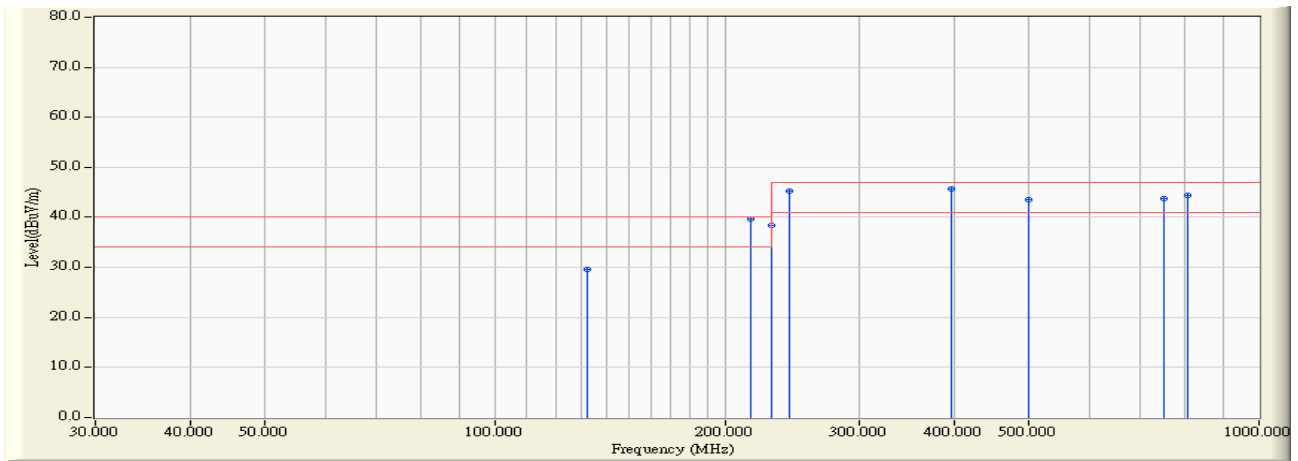
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz and above 1GHz is 1MHz.

4.5. Test Result

Site : OATS-3	Time : 2008/10/02 - 23:46
Limit : CISPR_A_10M_QP	Margin : 6
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : 2007_Site3(2921)_10M - HORIZONTAL
Power : AC 24V	Note : Mode 1

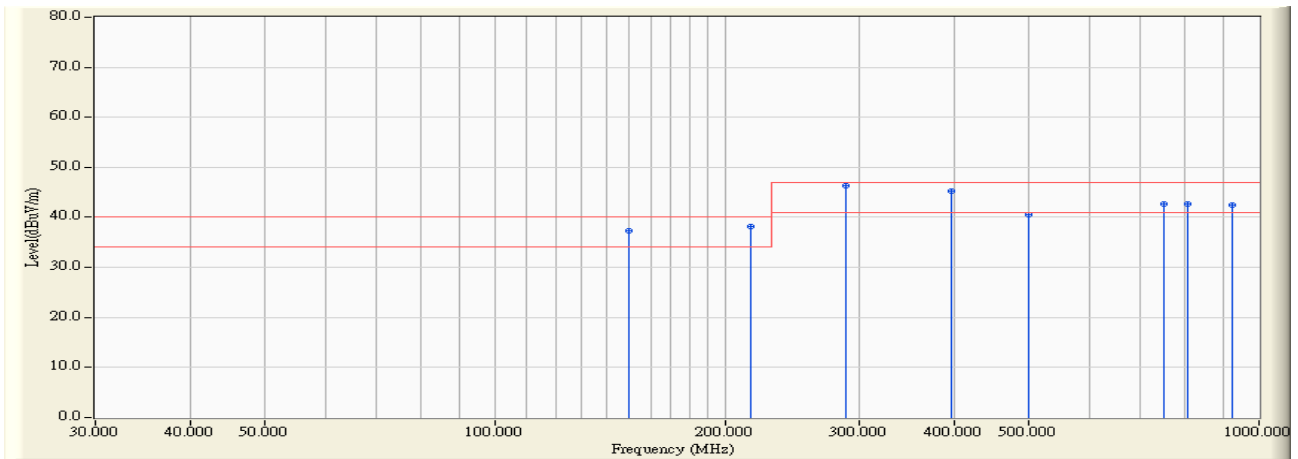


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		132.000	14.744	14.800	29.544	-10.456	40.000	QUASIPeAK
2	*	215.998	13.863	25.900	39.763	-0.237	40.000	QUASIPeAK
3		229.996	14.873	23.600	38.473	-1.527	40.000	QUASIPeAK
4		242.998	15.801	29.400	45.201	-1.799	47.000	QUASIPeAK
5		395.998	19.976	25.700	45.676	-1.324	47.000	QUASIPeAK
6		500.008	22.065	21.400	43.465	-3.535	47.000	QUASIPeAK
7		750.011	25.603	18.200	43.803	-3.197	47.000	QUASIPeAK
8		804.990	26.390	18.100	44.489	-2.511	47.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/10/02 - 23:30
Limit : CISPR_A_10M_QP	Margin : 6
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : 2007_Site3(2921)_10M - VERTICAL
Power : AC 24V	Note : Mode 1



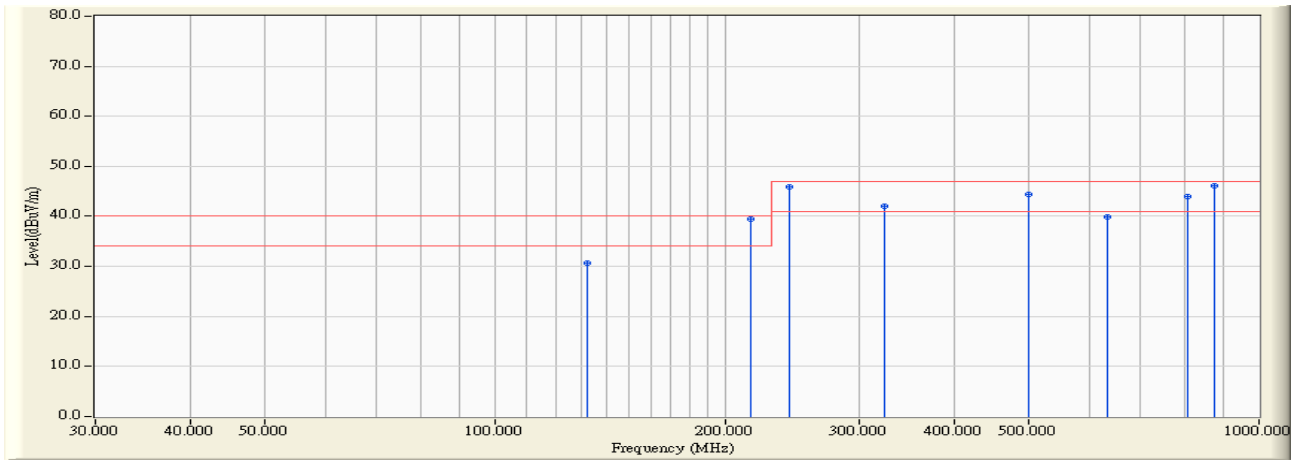
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		150.000	13.817	23.600	37.417	-2.583	40.000	QUASIPeAK
2		215.998	13.863	24.300	38.163	-1.837	40.000	QUASIPeAK
3	*	287.495	17.129	29.300	46.429	-0.571	47.000	QUASIPeAK
4		395.998	19.976	25.300	45.276	-1.724	47.000	QUASIPeAK
5		500.008	22.065	18.500	40.565	-6.435	47.000	QUASIPeAK
6		750.012	25.603	17.000	42.603	-4.397	47.000	QUASIPeAK
7		804.991	26.390	16.300	42.689	-4.311	47.000	QUASIPeAK
8		924.242	27.989	14.500	42.489	-4.511	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : OATS-3	Time : 2008/10/03 - 00:10
Limit : CISPR_A_10M_QP	Margin : 6
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : 2007_Site3(2921)_10M - HORIZONTAL
Power : DC 32V	Note : Mode 1

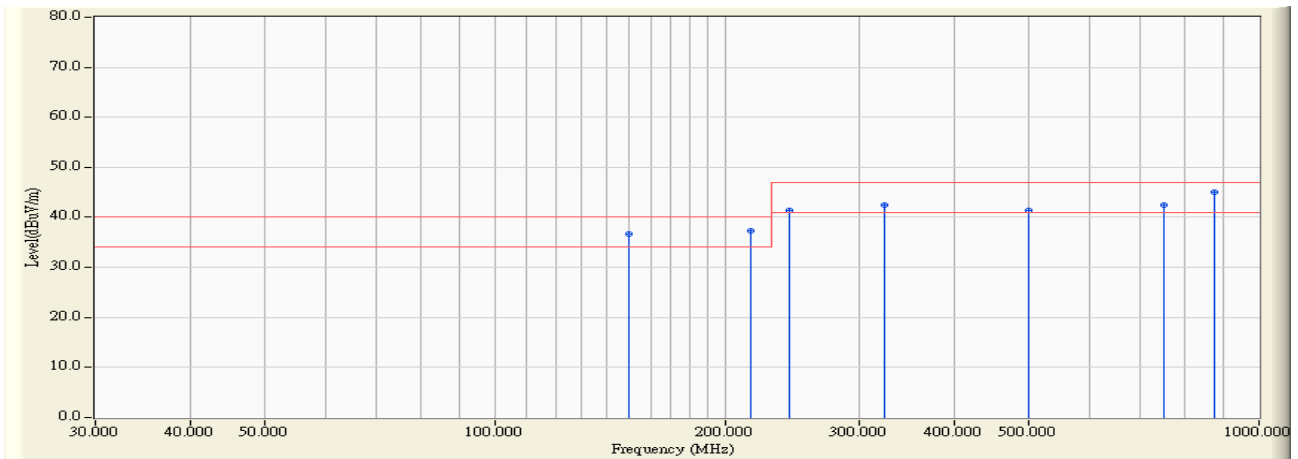


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		132.000	14.744	15.900	30.644	-9.356	40.000	QUASIPeAK
2	*	216.000	13.863	25.500	39.363	-0.637	40.000	QUASIPeAK
3		243.000	15.801	30.100	45.901	-1.099	47.000	QUASIPeAK
4		324.000	18.043	23.900	41.943	-5.057	47.000	QUASIPeAK
5		500.008	22.065	22.400	44.465	-2.535	47.000	QUASIPeAK
6		632.491	24.132	15.800	39.932	-7.068	47.000	QUASIPeAK
7		804.990	26.390	17.600	43.989	-3.011	47.000	QUASIPeAK
8		875.047	27.324	18.700	46.024	-0.976	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/10/03 - 00:02
Limit : CISPR_A_10M_QP	Margin : 6
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : 2007_Site3(2921)_10M - VERTICAL
Power : DC 32V	Note : Mode 1

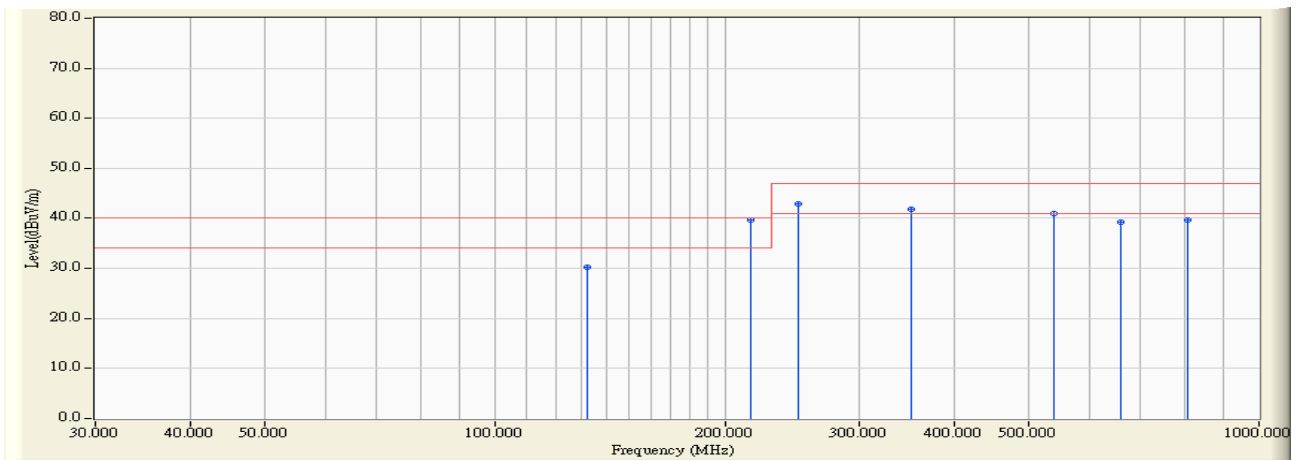


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	150.000	13.817	22.800	36.617	-3.383	40.000	QUASIPeAK
2	215.998	13.863	23.400	37.263	-2.737	40.000	QUASIPeAK
3	243.000	15.801	25.700	41.501	-5.499	47.000	QUASIPeAK
4	324.000	18.043	24.400	42.443	-4.557	47.000	QUASIPeAK
5	500.006	22.065	19.300	41.365	-5.635	47.000	QUASIPeAK
6	750.013	25.603	16.900	42.503	-4.497	47.000	QUASIPeAK
7	* 875.047	27.324	17.800	45.124	-1.876	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/10/02 - 05:28
Limit : CISPR_A_10M_QP	Margin : 6
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : 2007_Site3(2921)_10M - HORIZONTAL
Power : AC 24V	Note : Mode 2

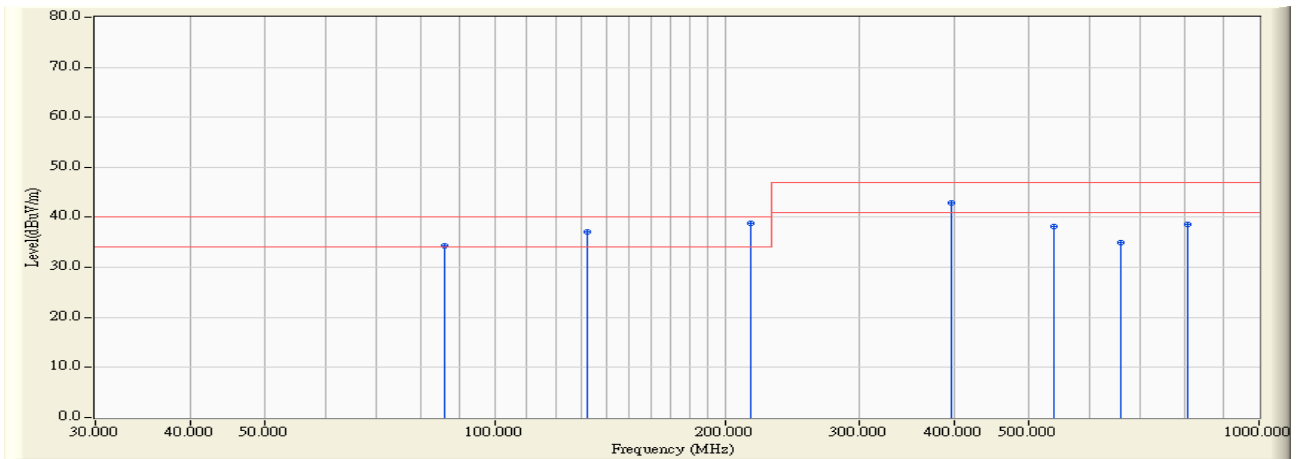


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		132.000	14.744	15.600	30.344	-9.656	40.000	QUASIPeAK
2	*	215.998	13.863	25.900	39.763	-0.237	40.000	QUASIPeAK
3		250.000	16.298	26.600	42.898	-4.102	47.000	QUASIPeAK
4		350.998	18.768	23.000	41.768	-5.232	47.000	QUASIPeAK
5		539.996	22.758	18.200	40.958	-6.042	47.000	QUASIPeAK
6		659.996	24.440	14.800	39.240	-7.760	47.000	QUASIPeAK
7		804.988	26.390	13.200	39.589	-7.411	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/10/02 - 05:13
Limit : CISPR_A_10M_QP	Margin : 6
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : 2007_Site3(2921)_10M - VERTICAL
Power : AC 24V	Note : Mode 2

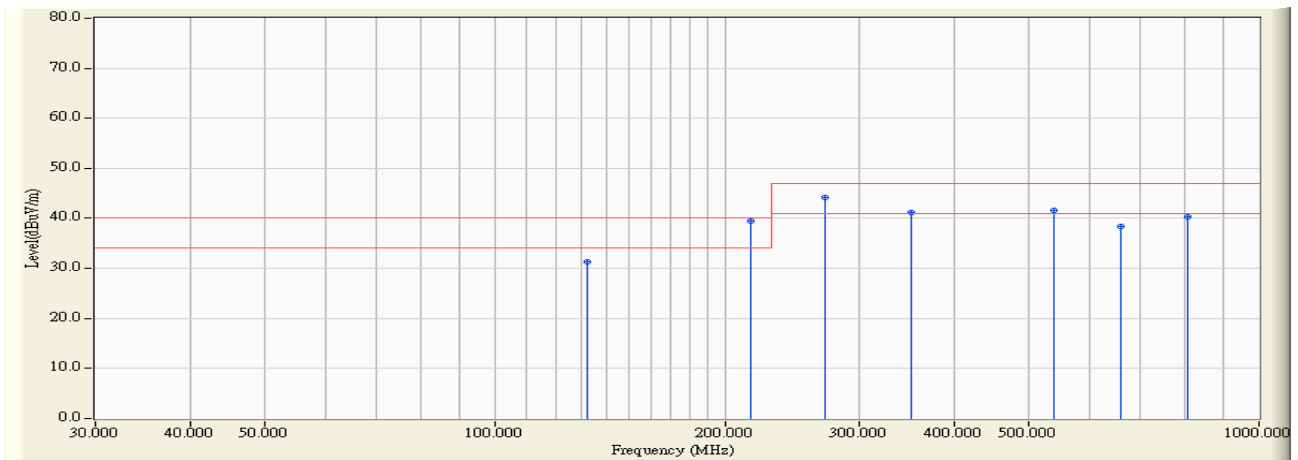


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	85.877	12.111	22.300	34.411	-5.589	40.000	QUASPEAK
2	131.998	14.744	22.300	37.044	-2.956	40.000	QUASPEAK
3	* 215.998	13.863	24.900	38.763	-1.237	40.000	QUASPEAK
4	395.998	19.976	23.000	42.976	-4.024	47.000	QUASPEAK
5	539.998	22.758	15.500	38.258	-8.742	47.000	QUASPEAK
6	659.996	24.440	10.500	34.940	-12.060	47.000	QUASPEAK
7	804.988	26.390	12.200	38.589	-8.411	47.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/10/02 - 05:54
Limit : CISPR_A_10M_QP	Margin : 6
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : 2007_Site3(2921)_10M - HORIZONTAL
Power : DC 32V	Note : Mode 2

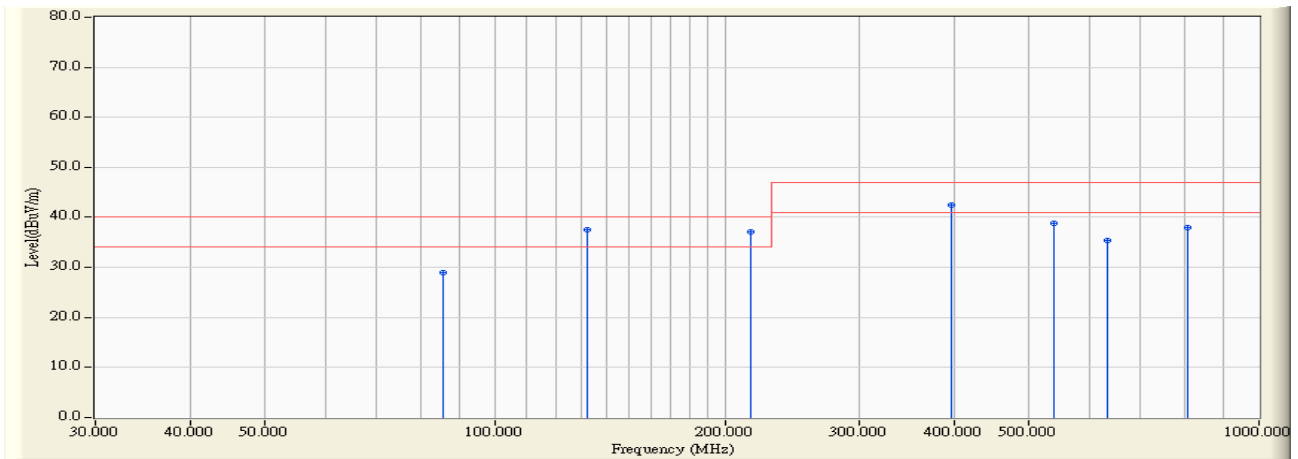


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		132.000	14.744	16.500	31.244	-8.756	40.000	QUASPEAK
2	*	216.000	13.863	25.600	39.463	-0.537	40.000	QUASPEAK
3		269.998	16.748	27.500	44.248	-2.752	47.000	QUASPEAK
4		350.998	18.768	22.500	41.268	-5.732	47.000	QUASPEAK
5		539.998	22.758	18.900	41.658	-5.342	47.000	QUASPEAK
6		659.996	24.440	14.000	38.440	-8.560	47.000	QUASPEAK
7		804.988	26.390	14.000	40.389	-6.611	47.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2008/10/02 - 05:43
Limit : CISPR_A_10M_QP	Margin : 6
EUT : 4-channel MPEG4/MJPEG Industrial Video Encoder	Probe : 2007_Site3(2921)_10M - VERTICAL
Power : DC 32V	Note : Mode 2



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		85.580	12.050	16.800	28.850	-11.150	40.000	QUASPEAK
2	*	132.000	14.744	22.800	37.544	-2.456	40.000	QUASPEAK
3		216.000	13.863	23.200	37.063	-2.937	40.000	QUASPEAK
4		395.998	19.976	22.400	42.376	-4.624	47.000	QUASPEAK
5		539.999	22.758	16.100	38.858	-8.142	47.000	QUASPEAK
6		632.491	24.132	11.200	35.332	-11.668	47.000	QUASPEAK
7		804.988	26.390	11.500	37.889	-9.111	47.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

## 4.6. Test Photograph

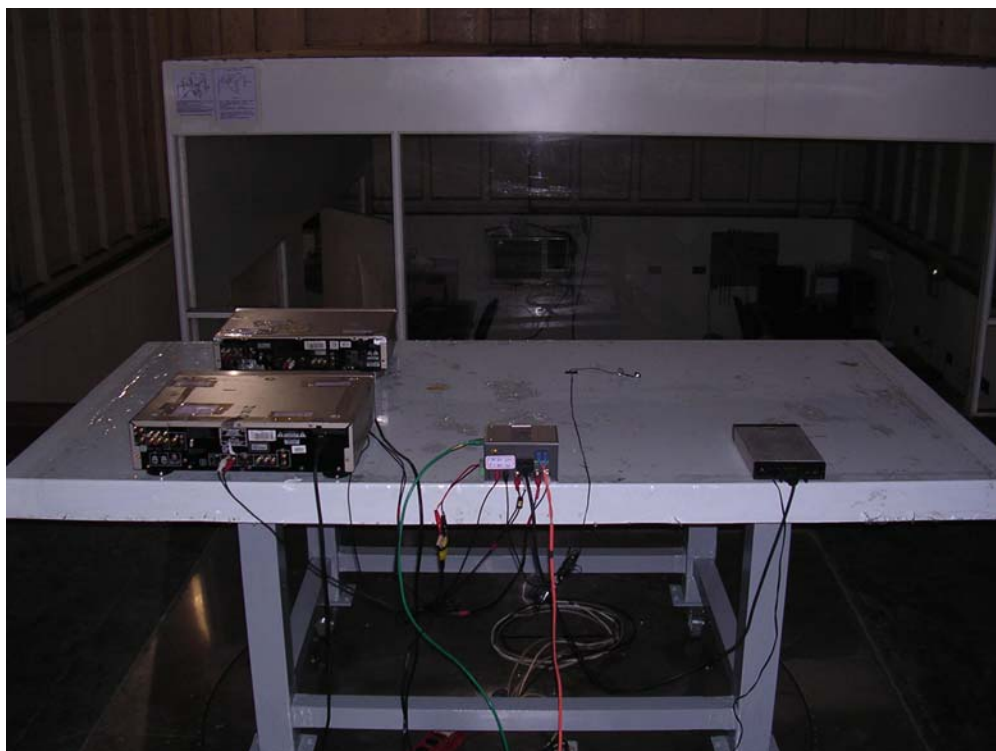
Test Mode : Mode 1: Normal Operation (Fiber Port)

Description : Front View of Radiated Test (AC)



Test Mode : Mode 1: Normal Operation (Fiber Port)

Description : Back View of Radiated Test (AC)



Test Mode : Mode 1: Normal Operation (Fiber Port)

Description : Front View of Radiated Test (DC)



Test Mode : Mode 1: Normal Operation (Fiber Port)

Description : Back View of Radiated Test (DC)





Test Mode : Mode 2: Normal Operation (LAN Port)

Description : Front View of Radiated Test (AC)



Test Mode : Mode 2: Normal Operation (LAN Port)

Description : Back View of Radiated Test (AC)



Test Mode : Mode 2: Normal Operation (LAN Port)

Description : Front View of Radiated Test (DC)



Test Mode : Mode 2: Normal Operation (LAN Port)

Description : Back View of Radiated Test (DC)



5. Attachment

➤ EUT Photograph

(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



(4) EUT Photo



(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



(8) EUT Photo



(9) EUT Photo

