

# ***FCC Part 15 Subpart C***

## ***TEST REPORT***

*of*

E.U.T. : FM MODULATOR

FCC ID. : HQXFTR-CBX1021

MODEL : FTR-CBX1021

Working Frequency : 88.1~88.9 MHz

*for*

APPLICANT : SYSGRATION LTD.

ADDRESS : 10FL, No. 868-3, Chung Cheng Rd., Chung Ho  
235, Taipei, Taiwan, R.O.C.

Test Performed by

**ELECTRONICS TESTING CENTER, TAIWAN**

NO. 34, LIN 5, DING FU TSUN, LINKOU HSIANG,  
TAIPEI HSIEN, TAIWAN, R.O.C.

<http://www.etc.org.tw> ; e-mail : [etcemi@seed.net.tw](mailto:etcemi@seed.net.tw)

Tel:(02)26023052 Fax:(02)26010910

Report Number : ET93R-09-061-02

# TEST REPORT CERTIFICATION

Applicant : SYSGRATION LTD.  
10FL, No. 868-3, Chung Cheng Rd., Chung Ho 235, Taipei, Taiwan,  
R.O.C.

Manufacturer : SYSGRATION LTD.  
(1) No.28-2, North Industry Rd., Nan-Kan Industrial Zone, Nan-Tou  
City, Nan-Tou County, Taiwan. R.O.C.  
(2) 10FL, No. 868-3, Chung Cheng Rd., Chung Ho 235, Taipei,  
Taiwan, R.O.C.

Description of EUT :

- a) Type of EUT : FM MODULATOR
- b) Trade Name : Directed Video
- c) Model No : FTR-CBX1021
- d) Working Frequency : 88.1~88.9 MHz
- e) Power Supply : AC100V-240V, 50-60Hz

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (2003)

I HEREBY CERTIFY THAT; The data shown in this report were made in accordance with the procedures given in ANSI C63.4 and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Issued Date : Oct. 26, 2004

Test Engineer : Bo-Sen Fu  
( Bo-Sen Fu )

Approve & Authorized Signer : Will Yauo  
Will Yauo, Manager  
EMC Dept. II of ELECTRONICS  
TESTING CENTER, TAIWAN

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## 1. GENERAL INFORMATION

### 1.1 Product Description

a) Type of EUT	: FM MODULATOR
b) Trade Name	: Directed Video
c) Model No	: FTR-CBX1021
d) Working Frequency	: 88.1~88.9 MHz
e) Power Supply	: AC100V-240V, 50-60Hz

### 1.2 Characteristics of Device:

All audio sources will be transmitted, TV, DVD, CD, MP3 or external video sources. To disable this you may press the remote control or enter the menu as shown above and select 'Disable'

FM transmitter emission frequency:88.1MHz; 88.3MHz; 88.5MHz; 88.7MHz; 88.9MHz

### 1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in chapter 13 of ANSI C63.4 (2003)

The FM MODULATOR under test was operated in its normal operating mode for the purpose of the measurements.

The receiving antenna polarized horizontally was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the FM MODULATOR under test.

### 1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No. 34, Lin 5, Ding Fu Tsun, Linkou Hsiang, Tapei Hsien, Taiwan 244, R.O.C..

This site has been fully described in a report submitted to your office, and accepted in a letter dated Feb. 10, 2000.

## 2. DEFINITION AND LIMITS

### 2.1 Definition

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

### 2.2 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.15
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3360-4400	Above 38.6
13.36-13.41			

Remark “\*\*\*” : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

### 2.3 Limitation

#### (1) Conducted Emission Limits :

Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency MHz	Quasi Peak dB $\mu$ V	Average dB $\mu$ V
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

\* Decreases with the logarithm of the frequency

**(2) Radiated Emission Limits :**

According to 15.239 the field strength of emissions from intentional radiators operated under these frequency bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental	
	$\mu$ V/meter	dB $\mu$ V/meter
88-108	250	48

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209,as following table:

Other Frequencies (MHz)	Field Strength of Fundamental	
	$\mu$ V/meter	dB $\mu$ V/meter
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

**(3) Antenna Requirement :**

For intentional device, according to §5.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

**(4) Emissions Band Limits :**

According to 15.239(a), emissions from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

**2.4 Labeling Requirement**

The device shall bear the following statement in a conspicuous location on the device :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**2.5 User Information**

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### 3. SYSTEM TEST CONFIGURATION

#### 3.1 Justification

For both radiated and conducted emissions, the system was configured for testing in a typical fashion as a customer would normally use it. The peripherals other than EUT were connected in normally standing by situation.

All measurement were intentional to maximum the emissions from EUT by varying the connection cables, therefore, the test result is sure to meet the applicable requirement.

#### 3.2 Devices for Tested System

Device	Manufacture	Model / FCC ID.	Description
FM MODULATOR *	SYSGRATION LTD.	FTR-CBX1021 /HQXFTR-1021	----
Color TV/Monitor	ACTION	CAN-9108	1.8m Unshielded AC Power Cord
DVD Player	SONY	DVP-NS530	2.0m Unshielded AC Power Cord
Earphone	----	----	0.6m Unshielded Cable

Remark “\*” means equipment under test.

## 4 RADIATED EMISSION MEASUREMENT

### 4.1 Applicable Standard

For intentional radiators, the radiated emission shall comply with §5.209(a).

### 4.2 Measurement Procedure

1. Setup the configuration per figure 1 and 2 for frequencies measured below and above 1 GHz respectively.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Check the three frequencies of highest emission with varying the placement of cables associated with EUT to obtain the worse case and record the result.



Figure 1 : Frequencies measured at 30MHz to 1 GHz configuration

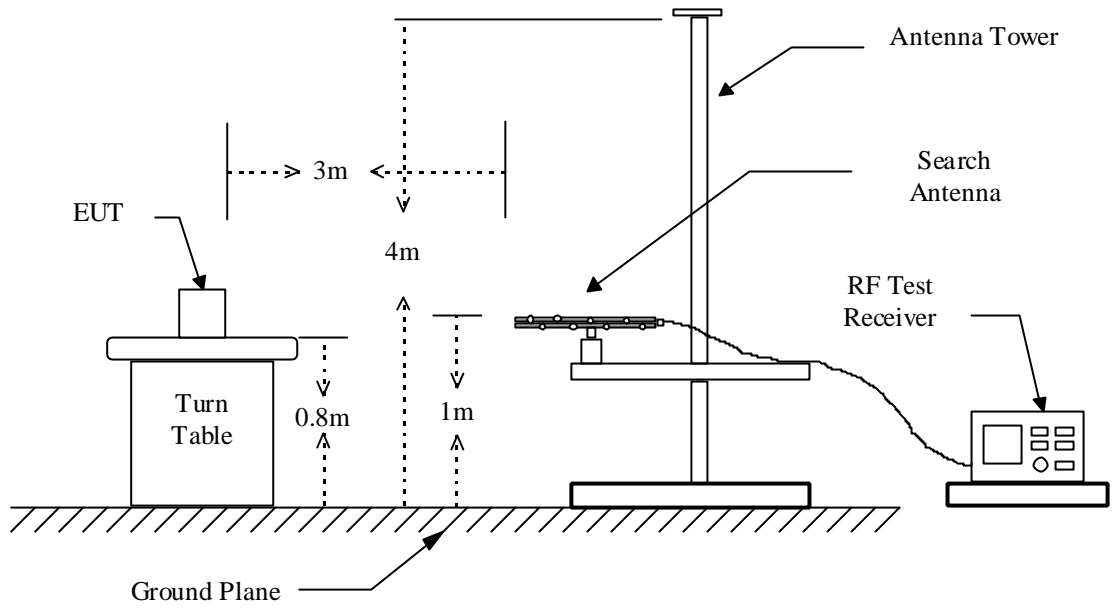
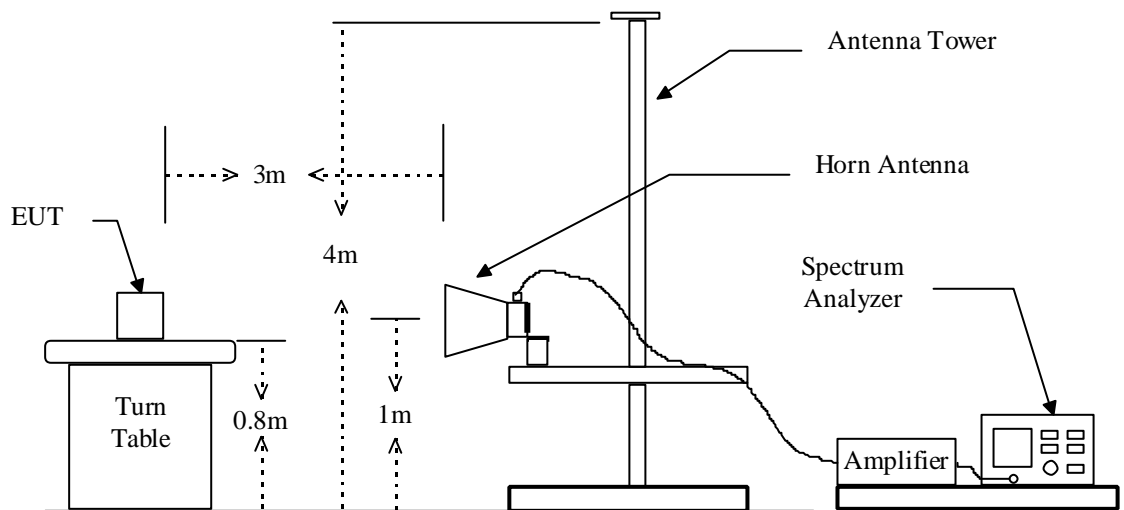


Figure 2 : Frequencies measured above 1 GHz configuration



### 4.3 Measuring Instrument

The following instrument are used for radiated emissions measurement:

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Adventest	R3271	11/09/2004
RF Test Receiver	Rohde & Schwarz	ESVS 30	09/05/2005
Horn Antenna	EMCO	3115	03/17/2005
Horn Antenna	EMCO	3116	05/02/2005
Log periodic Antenna	EMCO	3146	12/22/2004
Biconical Antenna	EMCO	3110B	12/22/2004
Preamplifier	Hewlett-Packard	8449B	06/30/2005
Preamplifier	Hewlett-Packard	8447D	02/18/2005
Spectrum Analyzer	Hewlett-Packard	8564E	07/21/2005
Bilog Antenna	Schaffner	CBL6111C	01/13/2005

Measuring instrument setup in measured frequency band when specified detector function is used :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	10Hz

## 4.4 Test Data

### 4.4.1 Fundamental and Harmonics

Fundamental Frequency : 88.1 MHz

Audio Modulation : 1 kHz

Test Date : Oct. 04, 2004

Temperature : 26 °C

Humidity : 55 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
88.100	59.5	***	60.9	***	-14.2	46.7	***	68.0	48.0	-1.3	185	1.1
176.200	50.7	***	50.2	***	-9.1	41.6	***	63.5	43.5	-1.9	190	1.0
264.300	48.3	***	45.0	***	-3.8	44.5	***	66.0	46.0	-1.5	180	1.1
352.400	53.2	***	46.4	***	-10.1	43.1	***	66.0	46.0	-2.9	185	1.1
440.500	48.4	***	48.1	***	-5.6	42.8	***	66.0	46.0	-3.2	171	1.1
528.600	41.2	***	42.1	***	-5.0	37.1	***	66.0	46.0	-8.9	186	1.2
616.700	37.8	***	36.9	***	-3.7	34.1	***	66.0	46.0	-11.9	190	1.3
704.800	34.1	***	34.6	***	-1.0	33.6	***	66.0	46.0	-12.4	178	1.1
792.900	33.0	***	32.5	***	0.4	33.4	***	66.0	46.0	-12.6	180	1.2
881.000	32.5	***	33.3	***	2.3	35.6	***	66.0	46.0	-10.4	185	1.1

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "\*\*\*" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Fundamental Frequency : 88.9 MHz

Audio Modulation : 1 kHz

Test Date : Oct. 04, 2004

Temperature : 26 °C

Humidity : 55 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H		V			Peak	Ave	Peak	Ave			
	Peak	Ave	Peak	Ave								
88.900	58.0	***	58.7	***	-14.1	44.6	***	68.0	48.0	-3.4	185	1.2
177.800	50.3	***	50.6	***	-9.1	41.5	***	63.5	43.5	-2.0	183	1.0
266.700	43.8	***	44.4	***	-3.7	40.7	***	66.0	46.0	-5.3	175	1.1
355.600	48.7	***	48.4	***	-9.5	39.2	***	66.0	46.0	-6.8	190	1.3
444.500	47.7	***	47.9	***	-5.6	42.3	***	66.0	46.0	-3.7	175	1.2
533.400	43.2	***	43.3	***	-5.1	38.2	***	66.0	46.0	-7.8	190	1.2
622.300	36.6	***	36.0	***	-3.4	33.2	***	66.0	46.0	-12.8	185	1.0
711.200	35.0	***	34.5	***	-0.9	34.1	***	66.0	46.0	-11.9	185	1.2
800.100	33.8	***	34.5	***	0.7	35.2	***	66.0	46.0	-10.8	195	1.2
889.000	33.4	***	34.0	***	2.2	36.2	***	66.0	46.0	-9.8	189	1.1

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "\*\*\*" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

#### 4.4.2 Other Emissions

Operation Mode : FM Modulation Audio Modulation : 1 kHz  
 Test Date : Oct. 04, 2004 Temperature : 26 °C Humidity : 55 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
123.650	H	53.0	-11.1	41.9	43.5	-1.6	175	1.00
157.230	H	47.8	-9.6	38.2	43.5	-5.3	185	1.10
191.240	V	44.4	-8.2	36.2	43.5	-7.3	180	1.10
331.100	H	52.1	-7.6	44.5	46.0	-1.5	185	1.00
540.610	H	47.5	-5.1	42.4	46.0	-3.6	185	1.00
724.800	V	44.2	-0.8	43.4	46.0	-2.6	185	1.10

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

#### 4.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

### 4.6 Radiated Measurement Photos



## 5 CONDUCTED EMISSION MEASUREMENT

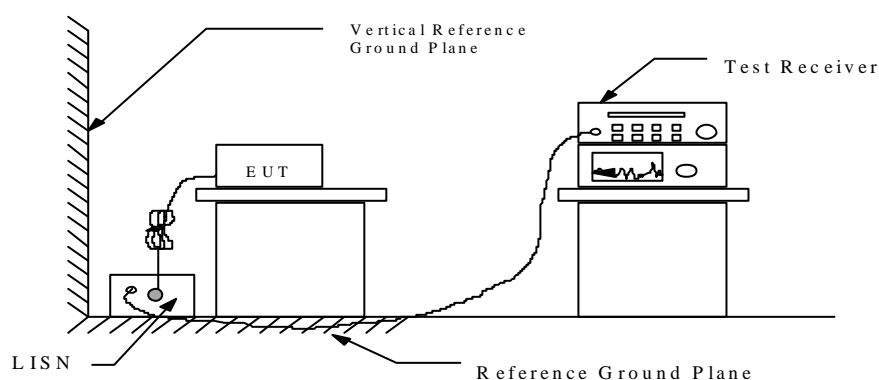
### 5.1 Standard Applicable

For unintentional and intentional device, Line Conducted Emission Limits are in accordance to § 15.107(a) and §15.207(a) respectively .

### 5.2 Measurement Procedure

1. Setup the configuration per figure 3.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 6 or 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then records the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest three emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 3 : Conducted emissions measurement configuration



**5.3 Conducted Emission Data**

Operation Mode : FM Modulation

Audio Modulation : 1 kHz

Test Date : Oct. 04, 2004Temperature : 26° CHumidity: 55%

Freq. (MHz)	Meter Reading (dB $\mu$ V)				Factor (dB)	Limit (dB $\mu$ V)		Result (dB $\mu$ V)			
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value	
	N	L1	N	L1				N	L1	N	L1
0.167	47.2	33.4	----	----	0.2	65.1	55.1	47.4	33.6	----	----
0.185	43.1	45.2	----	----	0.2	64.3	54.3	43.3	45.4	----	----
0.243	47.2	47.3	----	----	0.2	62.0	52.0	47.4	47.5	----	----
3.712	33.9	34.2	----	----	0.6	56.0	46.0	34.5	34.8	----	----
4.216	39.7	39.6	----	----	0.6	56.0	46.0	40.3	40.2	----	----
4.321	36.4	37.2	----	----	0.6	56.0	46.0	37.0	37.8	----	----



## 5.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{RESULT = READING + LISN FACTOR}$$

Assume a receiver reading of 22.5 dB  $\mu$  V is obtained, and LISN Factor is 0.1 dB, then the total of disturbance voltage is 22.6 dB  $\mu$  V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{ V}$$

$$\begin{aligned} \text{Level in } \mu \text{ V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{ V})/20] \\ &= 13.48 \mu \text{ V} \end{aligned}$$

## 5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipments	Manufacturer	Model No.	Next Cal. Date
EMI Test Receiver	Rohde and Schwarz	ESCS30	12/01/2004
Line Impedance Stabilization network	Rohde and Schwarz	ESH2-Z5	08/10/2005
Line Impedance Stabilization network	Kyoritsu	KNW-407	12/24/2004
Shielded Room	Riken	----	N.C.R.
Monitor	IBM	E54	N.C.R.
Printer	HP	LASERJET 1000	N.C.R.
Computer	ACER	Veriton 7500G	N.C.R.

## 5.6 Photos of Conduction Measuring Setup



## **6 ANTENNA REQUIREMENT**

### **6.1 Standard Applicable**

According to §5.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### **6.2 Antenna Construction**

The antenna is permanently mounted on EUT, no consideration of replacement.

## 7 EMISSION BAND MEASUREMENT

### 7.1 Standard Applicable

According to 15.239(a), emissions from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

### 7.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 1 and measurement the turn on the EUT. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 10 kHz and 100kHz respectively with a convenient frequency span including 200kHz bandwidth of the emission.
4. Mark the bandwidth of 200kHz points and plot the graph on spectrum analyzer.
5. Repeat above procedures until all measured frequencies were complete.

### 7.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Rohde & Schwarz	FSP	05/31/2005

### 7.4 Measurement Data

Test Date : Sep. 30, 2004      Temperature : 26 °C      Humidity : 55%  
Audio Modulation : 1 kHz

***Test result:***

***The 26 dB bandwidth of 88.104 MHz = 172.000 kHz < 200 kHz.***

***The 26 dB bandwidth of 88.902 MHz = 104.000 kHz < 200 kHz.***

***The 200 Khz band lie wholly within the frequency range of 88-108 MHz.***

***Note : Please see appendix 2 for Plotted Data***

## **Appendix 1 : Plotted Data For Conducted Measurement**

### CONDUCTION EMISSION TEST

#### Peak Value

EUT:

Manuf:

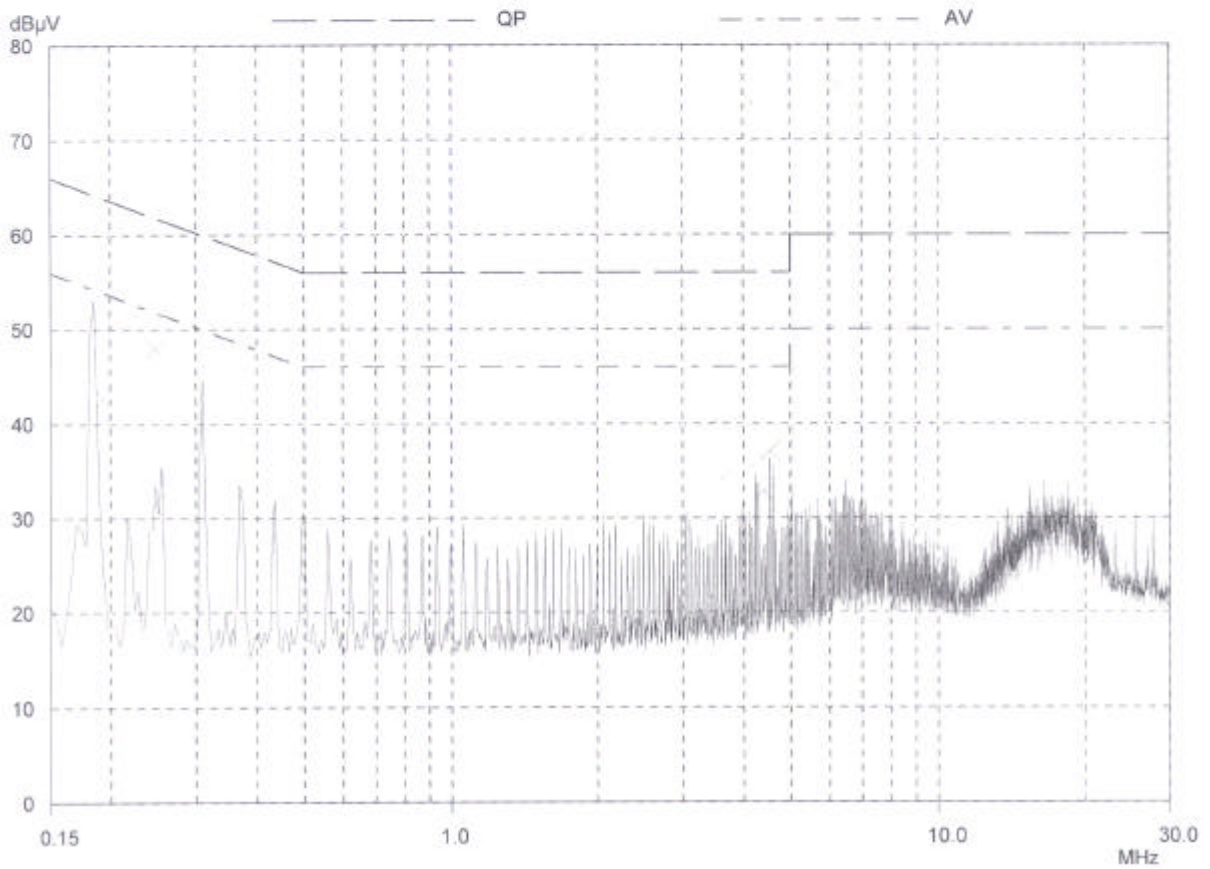
Op Cond: FM

Operator:

Test Spec:

Comment: N

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB

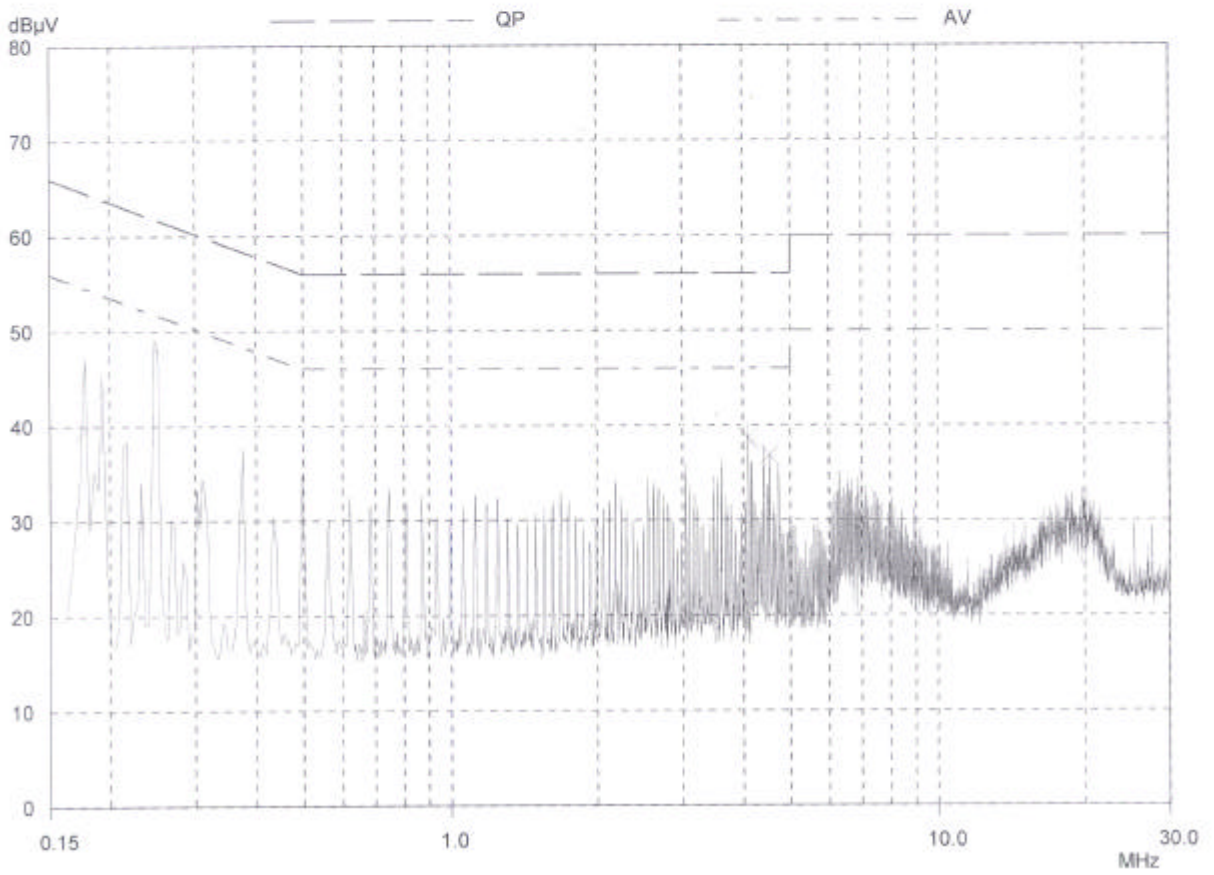


### CONDUCTION EMISSION TEST

#### Peak Value

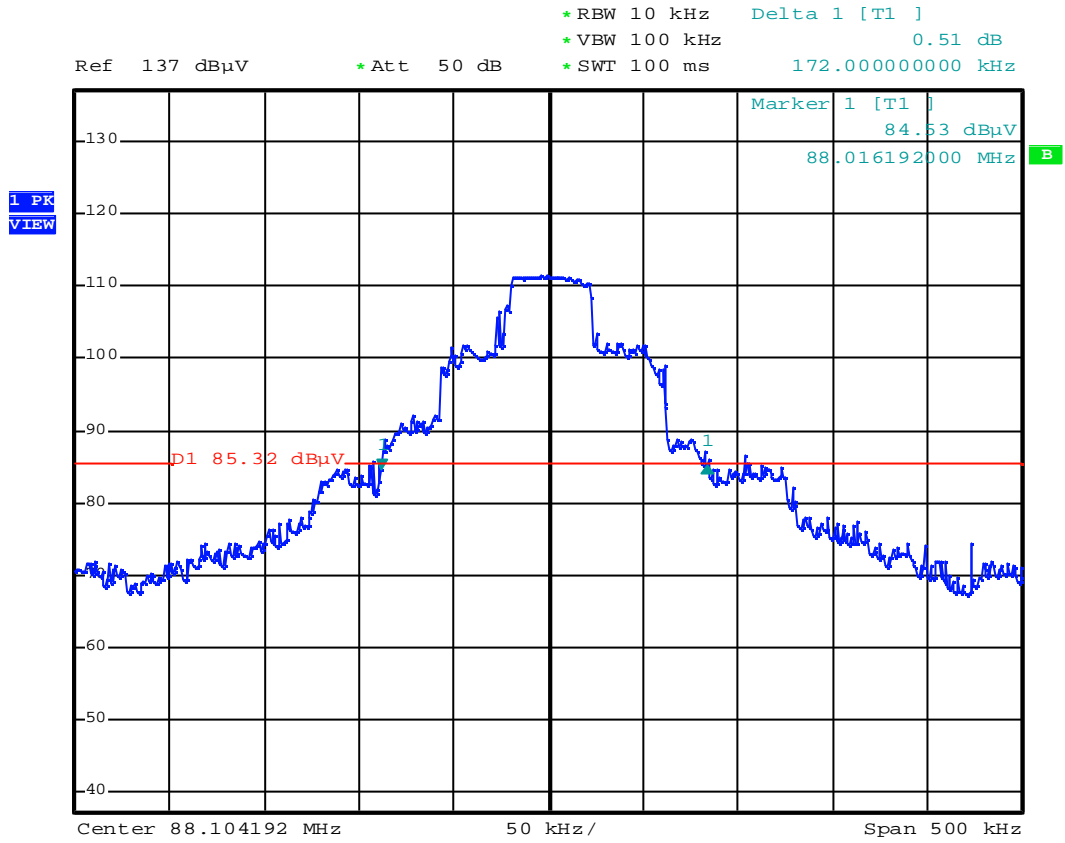
EUT:  
Manuf:  
Op Cond: DVD MODE  
Operator: FM  
Test Spec:  
Comment: L1

Final Measurement:      Detector: X QP  
                                 Meas Time: 1sec  
                                 Peaks: 8  
                                 Acc Margin: 25 dB

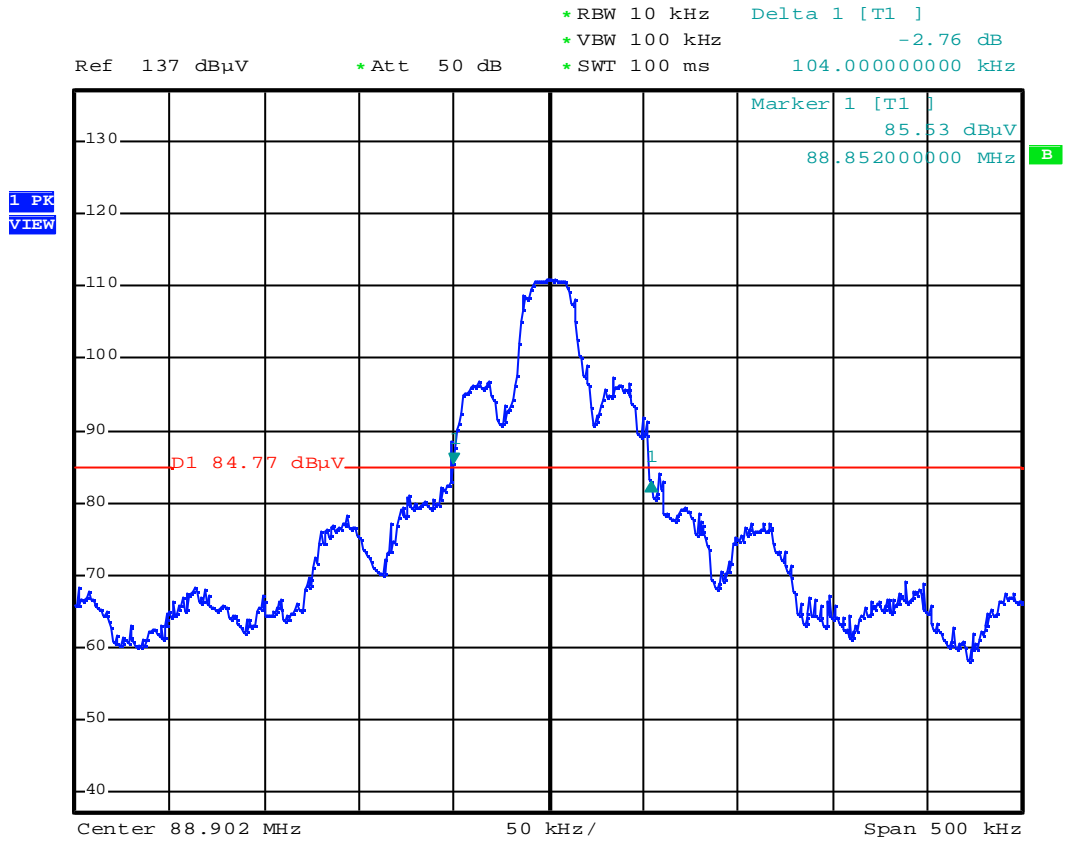


## **Appendix 2 : Plotted Data For Emission Band Measurement**

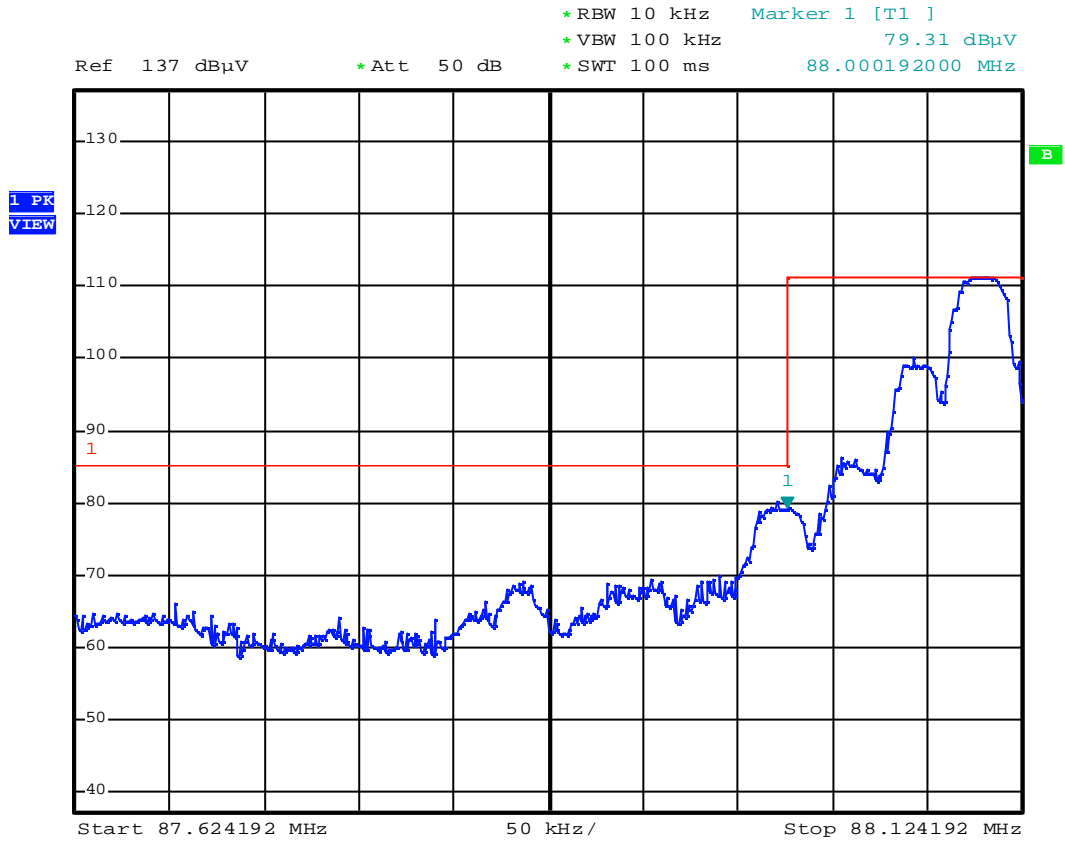




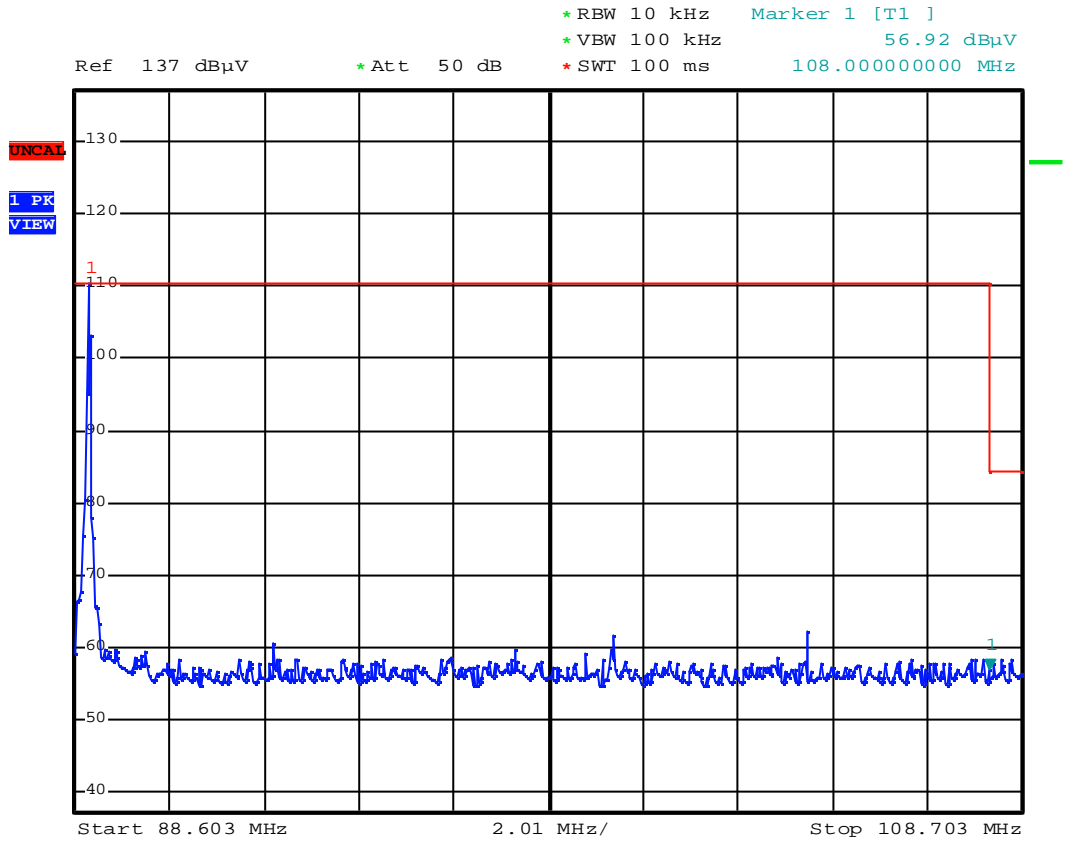
Date: 30.SEP.2004 20:33:43



Date: 30.SEP.2004 21:03:29



Date: 30.SEP.2004 21:01:18



Date: 30.SEP.2004 21:30:50