

Certification of Compliance

CFR 47 Part 15 Subpart B

Test Report File No.	04-IST-0179	Date of Issue	July 06,2004
Model(s)	DV-T7D5N-QJ		
Kind of Product	Video Cassette Recorder	r (TV Interface D	evice)
Applicant	Daewoo Electronics Corp	poration.	
	543, Dangjung-Dong, Kur	npo-City, Kyoungg	i-DO, Korea
Manufacturer	Daewoo Electronics Corp	poration.	
	295, Gondan-dong, Kumi-	-city, Kyungsangb	uk-do, Korea.
Test Result	🛛 Positive	Negat	tive
Reviewed By	;	Approved By	
-			
0		Qui C	hung
from	M. Cee	- Vp-	0
J.H.LEE / E	MC Group Manager	G. Chun	ng / Chief
-			
clauses of F.C.	uested : Measurement to C rules and regulation		
	entional Radiatiors appendix consists of 52 pa	ages	
-The test result only	responds to the tested sam	mple.	
-It is not allowed t the allowance of IS	o copy this report even p T EMC Laboratory	partly without	
	for has been shown to b	ne canable of	

This equipment as for has been shown to be capable of continued compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4 2001.



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Test Conditions and Data - Emission Conducted Emission

◆ Conducted Emission	0.15MHz - 30MHz	
Test equipment / Data and Plots		8-20
♦ Radiated Emission	30MHz - 1GHz	
Test equipment / Data and Plots		21-22
igoplus Output Signal level measurements		
Test equipment / Data and Plots		23-36
igodoldle Output Terminal Conducted Spurious Emission	30MHz - 1GHz	
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Information OF TUNERS

Manufacture	Tuner Name
SAMSUNG Electric Co., Ltd.	SSTMI-US6
Korea Alps	TMZH2-030A
LG Innotek Co., Ltd.	TADM-H201F

INFORMATIONS OF TEST LABORATORY

EMC LABORATORY of IST Co., Ltd. *(FCC Filing Lab)* San 21-8, Goan-Ri, Baekam-Myun, Yongin-City Kyonggi-Do, 449-860, Korea TEL : +82 31 333 4093 FAX : +82 31 333 4094

ENVIRONMENTAL CONDITIONS

Temperature	22 °C
Humidity	47 %
Atmospheric pressure	1002 mbar

POWER SUPPLY SYSTEM USED

Power supply system

120Vac , 60Hz

PRODUCT INFORMATIONS

Power supply system	120Vac / 60Hz
Power consumption	17W
Video signal	EIA STANDARD NTSC COLOR
RF input impedance	75 ohm Unbal. (U/V one input)
RF output impedance	75 ohm Unbal.
VHF output signal	Channel 3 or 4 (selectable)
Video input signal	Phono type 1.0 \pm 0.2Vp-p sync negative 750hms unbalance
Video output signal	Phono type 1.0 \pm 0.2Vp-p sync negative 75ohms unbalance
Audio input signal	Phono type, -8.8dBm, more then $47k$ ohms unbalanced
Audio output signal	Phono type, -5.8dBm, less then 1k ohms unbalanced

-EMC suppression device is not used during the test.

- Please refer to user's manual.

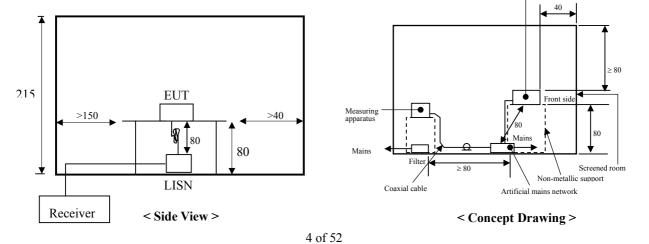
DESCRIPTIONS OF TEST

Conducted Emissions:

The measurement were performed over the frequency range of 0.15MHz to 30MHz using a $50\,\Omega/50$ uH LISN as the input transducer to a Spectrum Analyzer or a Field Intensity Meter. The measurements were made with the detector set for "Peak" amplitude within an bandwidth of 10KHz or for "quasi-peak" within a bandwidth of 9KHz.

- Procedure of Test

The line-conducted facility is located inside a shielded room No.1. A 1m X 1.5m wooden table 80cm height is placed 40cm away from the vertical wall and 1.5m away from the other wall of the shielded room. The R/S ESH3-Z5 and EMCO 3825/2 LISN are bonded to bottom of the shielded room. The EUT is located on the wooden table with distance more than 80cm from the LISN and powered from the EMCO LISN .The peripheral equipment is powered from the other LISN. Power to the LISNs are filtered by a noise cut power line filters. All electrical cables are shielded by braided tinned steel tubing with inner ϕ 1.2cm. 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 EMCO LISN. All interconnecting cables more than 1m were shortened by non-inductive bundling to a 1m length. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating conditions. The RF output of the LISN was connected to the R/S receiver to determine the frequency producing the maximum emission from the EUT. The frequency producing the maximum level was reexamined using Quasi-Peak mode by manual measurement, after scanned by automatic Peak mode for frequency range from 0.15 to 30MHz. The bandwidth of the receiver was set to 10kHz. The EUT, peripheral equipment, and interconnecting cables were arranged and manipulated to maximize each EME Equipment under tes emission.



DESCRIPTION OF TEST

Radiated Emissions:

The measurement was performed over the frequency range of 30MHz to 1GHz using antenna as the input transducer to a Spectrum analyzer or a Field Intensity Meter. The measurement was made with the detector set for "quasi-peak" within a bandwidth of 120KHz.

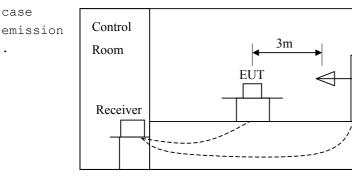
- Procedure of Test

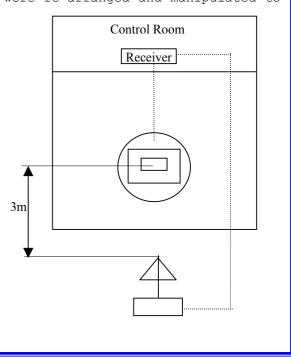
case

Preliminary measurements were made at 3 meter using bi-conical and log-periodic antennas, and spectrum analyzer to determine the frequency producing the max. emission in anechoic chamber. Appropriate precaution was taken to ensure that all emission from the EUT were maximized and investigated. The system configuration, mode of operation, turn table azimuth and height with respect to the antenna were noted for each frequency found. The spectrum was scanned from 40MHz to 300MHz using S/B biconical antenna and 300 to 1000MHz using S/B log-periodic antenna. Above 1GHz, linearly polarized double ridge horn antennas were used. Final measurements were made at open site with 3-meters test distance using S/B bi-log antenna or horn antenna. The OATS have been verified in regular for its normalized site attenuations. The test equipment was placed on a wooden table. Sufficient time for the EUT, peripheral 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 reexamined by manual. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120kHz or 1MHz depending on the frequency of type of signal. The EUT, peripheral equipment and interconnecting cables were reconfigured to the set-up producing the max. emission for the frequency and were placed on top of a 0.8-meter high nonmetallic 1 x 1.5 meter table. The EUT, peripheral equipment, and interconnecting cables were re-arranged and manipulated to

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emission. maximize each 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 to the EUT and/or peripheral equipment and changing the polarity of the antenna, whichever determined the worst-





DESCRIPTION OF TEST

Output Signal level measurements :

The RF output of the TV interface device was fed to the TV receiver via coaxial cable. The signal level was measured by direct connection to the spectrum analyzer with 50/75 ohm matching transformer between the spectrum analyzer and the TV interface device. The RF output signal level measured RMS voltage was the highest RF level present at the output terminals during normal use of the device. Measurements were made of the levels of both the visual(61.25 MHz) and aural(71.25 MHz) of TV channel 3 and 4. The voltage corresponding to the peak envelope power of the video modulated signal during maximum amplitude peaks across a resistance(R ohms) matching the rated output impedance of the device. The voltage corresponding to peak envelope power of the square root of (R)[uV] for all other TV interface device. The voltage corresponding to peak envelope power of the audio modulated signal, if provided by the TV interface device, must not exceed 77.5 times the square root of (R)[uV] for all other TV interface device. (Sec 15.115 (b).(1).(ii))

Output Terminal Conducted Spurious Emission :

The RF output signal was fed to the TV receiver with coaxial cable. The measurements were made by direct connection to the spectrum analyzer and TV interface device with 50/75 ohm matching transformer. The frequency range 30 to 1000MHz was investigated for significant emission. The maximum RMS voltage of any emission appearing on frequencies removed by than 4.6MHz below or 7.4MHz above the video carrier frequency on which the TV interface device is operated must not exceed 10.95 timed the square root of (R) [uV] (Sec 15.115 (b).(2).(ii)) This represents the 30dB attenuation.

Transfer Switch Isolation Measurement :

The measurements were made of the maximum RMS voltage at the antenna terminals of the switch for all positions of the transfer switch. The maximum voltage corresponds to the peak envelope power of the video signal during maximum amplitude peaks. In either position of the receiver transfer switch, the maximum voltage at the receiving antenna input terminals of the switch when terminated with a resistance (R ohms) matching the rated impedance of the antenna input of the switch, must not exceed 0.346 times the square root of (R) [uV]. (Sec 15.115 (c).(1).(ii))

🧭 IST Co., Ltd. **EMC LABORATORY TEST REPORT NO.: 04-IST-0179** SUMMARY Conducted Emission The requirements are • MET ○ Not MET Minimum limit margin 4.0 dB at 0.150 MHz Maximum limit exceeding Remarks : With neutral phase, for Q-peak detect mode (VCR Playback mode, Tuner: TMZH2-030A (Alps) Radiated Emission The requirements are • MET ○ Not MET 6.5 dB at 66.8 MHz Minimum limit margin Maximum limit exceeding Remarks : VCR Record mode , Tuner: SSTMI-US6 (SAMSUNG) Output Signal Level Measurements The requirements are MET 🔾 Not MET Minimum limit margin Maximum limit exceeding Remarks : Limits are kept with more than 10dB margin Output Terminal Conducted Spurious Emission The requirements are MET 🔘 Not MET Minimum limit margin Maximum limit exceeding Limits are kept with more than 10dB margin Remarks : Transfer Switch Isolation Measurements The requirements are MET 🔾 Not MET Minimum limit margin Maximum limit exceeding Remarks : Limits are kept with more than 3dB margin Prepared By Note : -
means the test is applicable, is not applicable. I.Y.Lee / EMC Engineer

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TEST CONDITIONS AND DATA

Conducted Emissions

[Applicable]

♦ Test Equipment Used

The test equipment used is calibrated in regular for every year.

Model Name	Manufacturer	Descriptions
ESH3	Rohde & Schwarz	Test Receiver
ESH3-Z2	Rohde & Schwarz	Pulse Limiter
ESH3-Z5	Rohde & Schwarz	LISN
EZM	Rohde & Schwarz	Spectrum Monitor
PM5418	FLUKE	Pattern Generator

♦ Auxiliary Equipment Used

Model Name	Manufacturer	Descriptions
14C5NT	Daewoo Electronics.	Color TV Receiver

\blacklozenge Accessories including cables

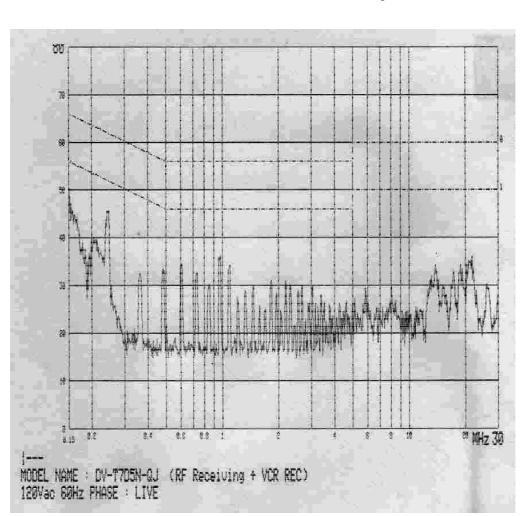
Name	Length	Port and Descriptions
RCA	1.5m	Video / Audio

iglet Environmental Conditions	
Temperature	23 °C
Humidity	50 %
Atmosphere pressure	1001 mbar
♦ Test Program	RF Receiving during VCR REC, VCR Playback Mode
♦ Test Area	Shielded Room #3

♦ Test Area

Note :

Conducted Emissions



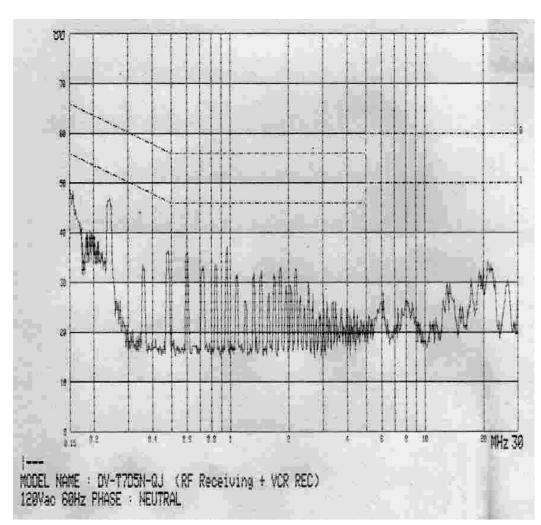
(Mains Terminal Disturbance Voltages)

Tuner : SSTMI-US6 (SAMSUNG)

Freq. [MHz]				Limit [dB #/]		rgin dB]
[]	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	46.4	17.5	66.0	56.0	19.6	38.5
0.243	45.0	40.5	62.0	52.0	17.0	11.5
0.970	35.2	25.4	56.0	46.0	20.8	20.6

Conducted Emissions



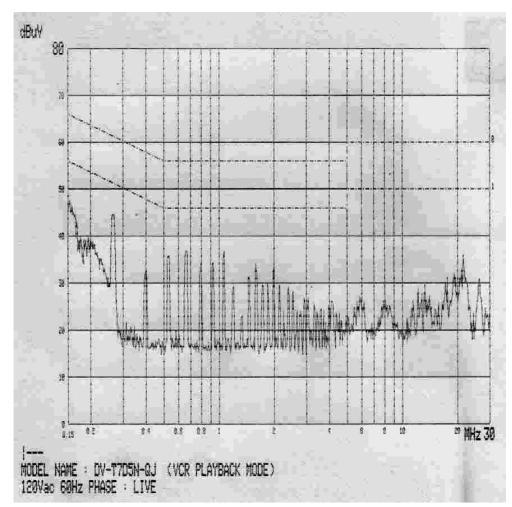


Tuner : SSTMI-US6 (SAMSUNG)

Freq. [MHz]			Limit [dB #]		Margin [dB]	
[]	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.152	46.4	17.6	65.9	55.9	19.5	38.3
0.241	45.3	41.3	62.1	52.1	16.8	10.8
0.975	36.6	16.6	56.0	46.0	19.4	29.4

Conducted Emissions

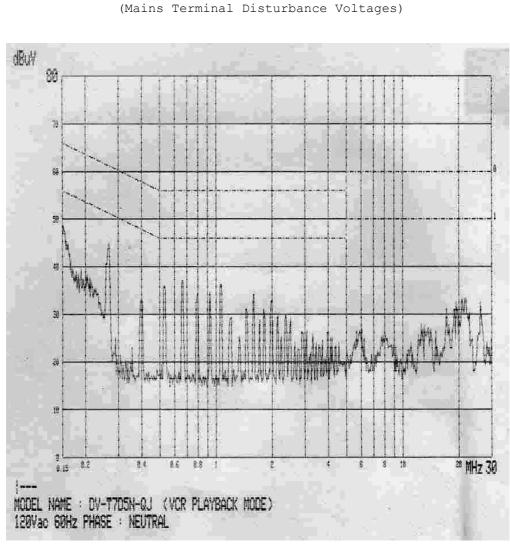




Tuner : SSTMI-US6 (SAMSUNG)

Freq. [MHz]		rement ∦]		mit 3µ∛]		rgin dB]
[]	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	45.9	19.9	66.0	56.0	20.1	36.1
0.265	43.7	40.9	61.3	51.3	17.6	10.4
1.060	35.3	26.3	56.0	46.0	20.7	19.7

Conducted Emissions



Tuner : SSTMI-US6 (SAMSUNG)

Freq. [MHz]		rement ∦]		mit 3 µ∛]		rgin dB]
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	46.2	20.1	66.0	56.0	19.8	35.9
0.265	43.7	41.3	61.3	51.3	17.5	9.9
0.661	38.1	30.8	56.0	46.0	17.9	15.2

dBu∛ 80 68 4 59 28 hun the has here 18 28 MHz 30 3.2 8.4 8.8 8.8 10 8.15 MODEL : DV-T7D5N-QJ (RF RECEIVING + VCR REC) 120Vac 60Hz PHASE : LIVE

(Mains Terminal Disturbance Voltages)

Tuner : TMZH2-030A (Alps)

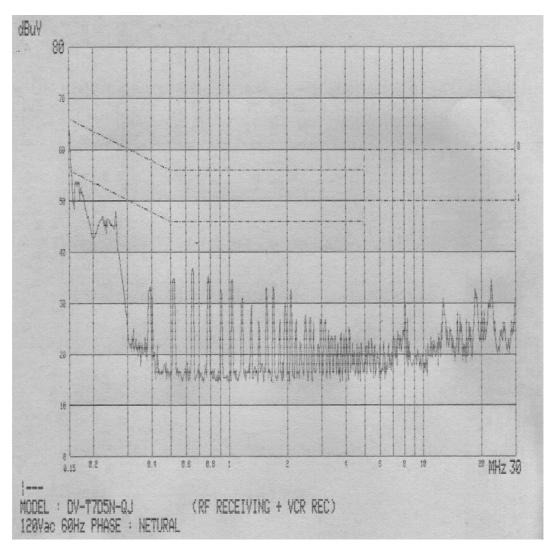
Freq. [MHz]		rement ∦]		mit 3 µ∛]		rgin dB]
[]	Q-peak	Average	Q-peak Average		Q-peak	Average
0.150	60.7	17.7	66.0	56.0	5.3	38.3
0.169	47.6	11.6	65.0	55.0	17.4	43.4
0.259	43.2	40.7	61.5	51.5	18.3	10.8

Note : The insertion loss, 0.8dB, is negligible compare with the margin evaluated.

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Conducted Emissions

(Mains Terminal Disturbance Voltages)



Tuner : TMZH2-030A (Alps)

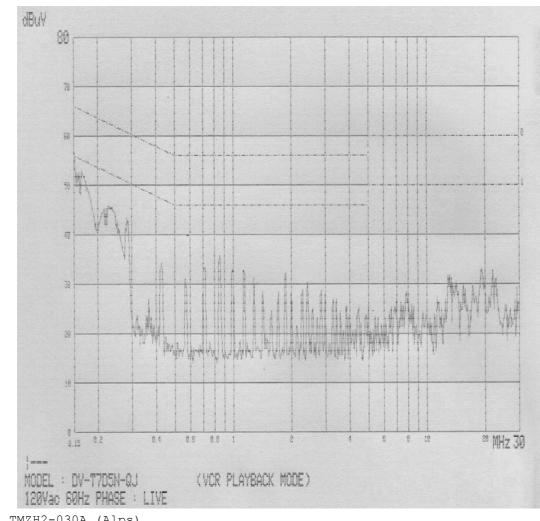
Freq. [MHz]		rement ∦]		mit 3µ∛]		rgin dB]
1	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	62.0	17.0	66.0	56.0	4.0	39.0
0.169	47.9	10.6	65.0	55.0	17.1	44.4
0.259	43.2	41.0	61.5	51.5	18.3	10.5

Note : The insertion loss, 0.8dB, is negligible compare with the margin evaluated.

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Conducted Emissions

(Mains Terminal Disturbance Voltages)

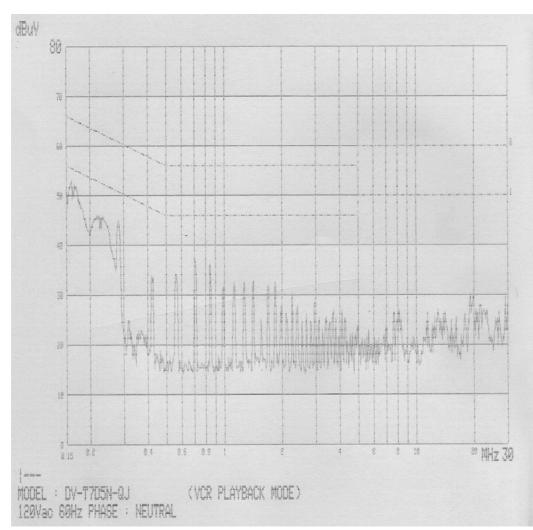


Tuner : TMZH2-030A (Alps)

Freq. [MHz]		rement ∦]		mit 3 µ∛]		rgin dB]
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	57.0	22.6	66.0	56.0	9.0	33.4
0.165	47.1	11.0	65.2	55.2	18.1	44.2
0.284	42.3	40.5	60.7	50.7	18.4	10.2

Conducted Emissions

(Mains Terminal Disturbance Voltages)

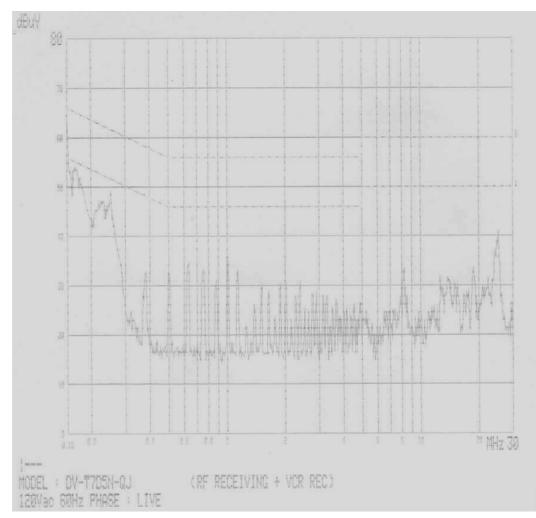


Tuner : TMZH2-030A (Alps)

Freq. [MHz]		Measurement [dB ∉]		Limit [dB ∉V]		rgin dB]
1	Q-peak	Average Q-peak Average		Q-peak	Average	
0.164	47.4	11.3	65.3	55.3	17.9	44.0
0.284	42.5	40.6	60.7	50.7	18.2	10.1
0.711	35.9	31.7	56.0	46.0	20.1	14.3

Conducted Emissions

(Mains Terminal Disturbance Voltages)



Tuner : TADM-H201F (LG)

Freq. [MHz]	Measurement [dB ∦]		Limit [dB 🔊]		Margin [dB]	
[]	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	61.3	13.8	66.0	56.0	4.7	42.2
0.167	48.0	10.1	65.1	55.1	17.1	45.0
0.251	44.1	40.6	61.7	51.7	17.6	11.1

Note : The insertion loss, 0.8dB, is negligible compare with the margin evaluated.

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(Mains Terminal Disturbance Voltages) ²⁰ MHz 30 (RF RECEIVING + VCR REC) DV-T705N-QJ : NEUTRAL

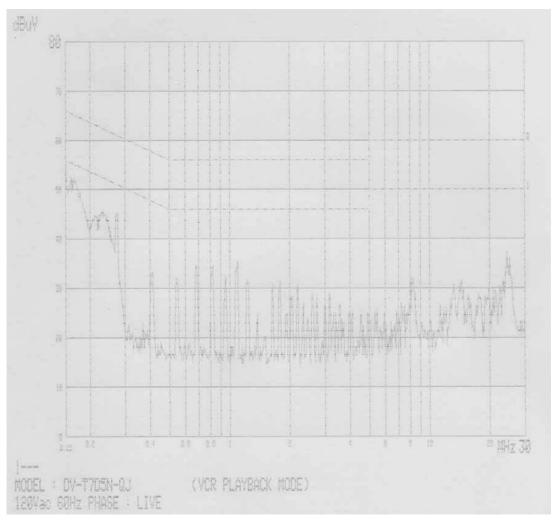
Conducted Emissions

Tuner : TADM-H201F (LG)

Freq. [MHz]		rement ∦]		mit 3 µ∛]		rgin dB]
[]	Q-peak	Average	e Q-peak Average		Q-peak	Average
0.150	60.3	13.7	66.0	56.0	5.7	42.3
0.169	48.1	10.1	65.0	55.0	16.9	44.9
0.250	44.1	41.0	61.8	51.8	17.7	10.8

Conducted Emissions

(Mains Terminal Disturbance Voltages)



Tuner : TADM-H201F (LG)

Freq. [MHz]		rement ∦]		mit 3 µ∛]		rgin dB]
[]	Q-peak	eak Average Q-peak Average		Average	Q-peak	Average
0.150	54.5	15.1	66.0	56.0	11.5	40.9
0.166	47.2	10.5	65.2	55.2	18.0	44.7
0.275	42.9	40.1	61.0	51.0	18.1	10.9

<text>

Tuner : TADM-H201F (LG)

Freq. [MHz]		rement ∦]		mit 3 µ∛]		rgin dB]
[]	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.150	57.0	15.1	66.0	56.0	9.0	40.9
0.165	47.4	10.3	65.2	55.2	17.8	44.9
0.276	42.7	40.4	60.9	50.9	18.2	10.5

		IST Co., Ltd. EMC LABORATORY TEST REPORT NO. : 04-IST-0179
	TEST CONDITIONS	AND DATA
	Radiated Emiss	sions
[Applicable]		
♦ Test Equipment Used		
	is calibrated in regular for ever	y year.
Model Name	Manufacturer	Descriptions
ESVP	Rohde & Schwarz	Test Receiver
VULB9160	Schwarzbeck	Antenna
EZM	Rohde & Schwarz	Spectrum Monitor
PM5418	FLUKE	Pattern Generator
 Auxiliary Equipment U Model Name 	sea Manufacturer	Deceminticas
Model Name		Descriptions Color TV Receiver
 Accessories including Name Length 		scriptions
RCA 1.5		
◆ Environmental Conditi		
	22℃	
Temperature Humidity	50 %	
Atmosphere pressure		
		VCD DEC. VCD Dischards Made
◆ Test Program	KF RECEIVING AURING	VCR REC, VCR Playback Mode,
◆ Test Area Note :	Open Area Test Site	#2

Radiated Emissions

(Disturbance Radiation)

[Applicable]

System CH (MHz) (H/V) (dBuV/m) (dBuV/m)<		[]		I			
RF Receiving 66.8 V 40.0 33.5 6.5 + 86.1 V 40.0 32.4 7.6 VCR record 114.9 V 43.5 33.9 9.6 129.2 H 43.5 32.7 10.8 143.4 H 43.5 32.7 10.8 143.4 H 43.5 32.2 10.3 VCR Playback 66.4 H 40.0 33.1 6.9 86.0 H 40.0 32.1 7.9 129.2 H 43.5 32.5 11.0 143.4 V 43.5 33.7 9.8 Alps tuner R Receiving 85.9 V 40.0 27.1 12.9 + 114.5 V 43.5 30.5 13.0 VCR REC 128.9 V 43.5 29.7 13.8 VCR Playback 85.9 V 40.0 26.6 13.4 144.5 V 43.5 29.1 14.4 IG tuner K	System	СН	-				Margin (dB)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SAMSUNG tuner						
VCR record 114.9 V 43.5 33.9 9.6 129.2 H 43.5 32.7 10.8 143.4 H 43.5 33.2 10.3 VCR Playback 66.4 H 40.0 33.1 6.9 86.0 H 40.0 32.1 7.9 129.2 H 43.5 32.5 11.0 143.4 V 43.5 32.5 11.0 143.4 V 43.5 33.7 9.8 Alps tuner V 43.5 33.7 9.8 Alps tuner VCR REC 128.9 V 40.0 27.1 12.9 + 114.5 V 43.5 30.5 13.0 VCR REC 128.9 V 43.5 29.7 13.8 VCR Playback 85.9 V 40.0 26.6 13.4 114.5 V 43.5 20.2 13.3 128.9 V 43.5 29.1 14.4 LG tuner I14.5 H 43.5 26.2	RF Receiving		66.8	V	40.0	33.5	6.5
129.2 H 43.5 32.7 10.8 143.4 H 43.5 33.2 10.3 VCR Playback 66.4 H 40.0 33.1 6.9 86.0 H 40.0 32.1 7.9 129.2 H 43.5 32.5 11.0 143.4 V 43.5 30.5 13.0 VCR rec 128.9 V 40.0 27.1 12.9 + 114.5 V 43.5 30.5 13.0 VCR REC 128.9 V 40.0 26.6 13.4 114.5 V 43.5 30.2 13.3 128.9 V 40.0 24.4 15.6 414.5 H 43.5 29.1 14.4 LG tuner 114.5 H 43.5 26.2 17.3 VCR REC 128.9 <td>+</td> <td></td> <td>86.1</td> <td>V</td> <td>40.0</td> <td>32.4</td> <td>7.6</td>	+		86.1	V	40.0	32.4	7.6
143.4H43.533.210.3VCR Playback 66.4 H 40.0 33.1 6.9 86.0 H 40.0 32.1 7.9 129.2 H 43.5 32.5 11.0 143.4 V 43.5 33.7 9.8 Alps tunerRFReceiving 85.9 V 40.0 27.1 12.9 $+$ 114.5 V 43.5 30.5 13.0 VCR REC 128.9 V 40.0 27.1 12.9 $+$ 114.5 V 43.5 29.7 13.8 VCR Playback 85.9 V 40.0 26.6 13.4 114.5 V 43.5 29.1 14.4 LG tunerRF Receiving 85.9 H 40.0 24.4 15.6 $+$ 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3	VCR record		114.9	V	43.5	33.9	9.6
VCR Playback 66.4 H 40.0 33.1 6.9 86.0 H 40.0 32.1 7.9 129.2 H 43.5 32.5 11.0 143.4 V 43.5 33.7 9.8 Alps tunerNormalityNormalityNormalityNormalityRF Receiving 85.9 V 40.0 27.1 12.9 + 114.5 V 43.5 30.5 13.0 VCR REC 128.9 V 43.5 29.7 13.8 VCR Playback 85.9 V 40.0 26.6 13.4 114.5 V 43.5 29.1 14.4 LG tunerNormalityNormalityNormalityNormalityRF Receiving 85.9 H 40.0 24.4 15.6 + 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3			129.2	Н	43.5	32.7	10.8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			143.4	Н	43.5	33.2	10.3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	VCR Playback		66.4	Н	40.0	33.1	6.9
143.4V43.533.79.8Alps tunerRF Receiving 85.9 V 40.0 27.1 12.9 + 114.5 V 43.5 30.5 13.0 VCR REC 128.9 V 43.5 29.7 13.8 VCR Playback 85.9 V 40.0 26.6 13.4 114.5 V 43.5 30.2 13.3 128.9 V 43.5 29.7 13.8 VCR Playback 85.9 V 43.5 29.1 LG tunerRF Receiving 85.9 H 40.0 24.4 15.6 + 114.5 H 43.5 26.2 $7.7.3$ 7.0 16.5 7.0 16.5 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3			86.0	Н	40.0	32.1	7.9
Alps tunerRF Receiving 85.9 V 40.0 27.1 12.9 + 114.5 V 43.5 30.5 13.0 VCR REC 128.9 V 43.5 29.7 13.8 VCR Playback 85.9 V 40.0 26.6 13.4 114.5 V 43.5 30.2 13.3 128.9 V 43.5 28.8 14.7 171.8 V 43.5 29.1 14.4 LG tunerRF Receiving 85.9 H 40.0 24.4 15.6 + 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3			129.2	Н	43.5	32.5	11.0
RF Receiving 85.9 V 40.0 27.1 12.9 + 114.5 V 43.5 30.5 13.0 VCR REC 128.9 V 43.5 29.7 13.8 VCR Playback 85.9 V 40.0 26.6 13.4 114.5 V 43.5 30.2 13.3 128.9 V 43.5 28.8 14.7 171.8 V 43.5 29.1 14.4 LG tunerRF Receiving 85.9 H 40.0 24.4 114.5 H 43.5 26.2 17.8 V 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 VCR Playback 85.9 V 40.0 24.6 114.6 V 43.5 28.2 15.3			143.4	V	43.5	33.7	9.8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Alps tuner						
VCR REC 128.9 V 43.5 29.7 13.8 VCR Playback 85.9 V 40.0 26.6 13.4 114.5 V 43.5 30.2 13.3 128.9 V 43.5 28.8 14.7 128.9 V 43.5 29.1 14.4 LG tuner 85.9 H 40.0 24.4 15.6 * 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 26.2 17.3 VCR REC 128.9 V 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3	RF Receiving		85.9	V	40.0	27.1	12.9
VCR Playback 85.9 V 40.0 26.6 13.4 114.5 V 43.5 30.2 13.3 128.9 V 43.5 28.8 14.7 171.8 V 43.5 29.1 14.4 LG tuner 85.9 H 40.0 24.4 15.6 + 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 VCR Playback 85.9 V 43.5 28.2 15.3	+		114.5	V	43.5	30.5	13.0
114.5 V 43.5 30.2 13.3 128.9 V 43.5 28.8 14.7 171.8 V 43.5 29.1 14.4 LG tuner RF Receiving 85.9 H 40.0 24.4 15.6 + 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3	VCR REC		128.9	V	43.5	29.7	13.8
114.5 V 43.5 30.2 13.3 128.9 V 43.5 28.8 14.7 171.8 V 43.5 29.1 14.4 LG tuner RF Receiving 85.9 H 40.0 24.4 15.6 + 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3	VCR Playback		85.9	V	40.0	26.6	13.4
171.8 V 43.5 29.1 14.4 LG tuner 85.9 H 40.0 24.4 15.6 F Receiving 85.9 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 26.2 17.3 VCR Playback 85.9 V 40.0 24.6 15.4 VCR Playback 85.9 V 43.5 28.2 15.3			114.5	V	43.5	30.2	13.3
LG tuner RF Receiving 85.9 H 40.0 24.4 15.6 + 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3			128.9	V	43.5	28.8	14.7
RF Receiving 85.9 H 40.0 24.4 15.6 + 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3			171.8	V	43.5	29.1	14.4
+ 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3	LG tuner						
+ 114.5 H 43.5 26.2 17.3 VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3	RF Receiving		85.9	Н	40.0	24.4	15.6
VCR REC 128.9 V 43.5 27.0 16.5 VCR Playback 85.9 V 40.0 24.6 15.4 114.6 V 43.5 28.2 15.3	5			Н	43.5		17.3
114.6 V 43.5 28.2 15.3	VCR REC		128.9	V	43.5		16.5
114.6 V 43.5 28.2 15.3	VCR Playback		85.9	V	40.0	24.6	15.4
1282 V 435 286 149	-		114.6	V	43.5	28.2	15.3
			128.2	V	43.5	28.6	14.9

Note :

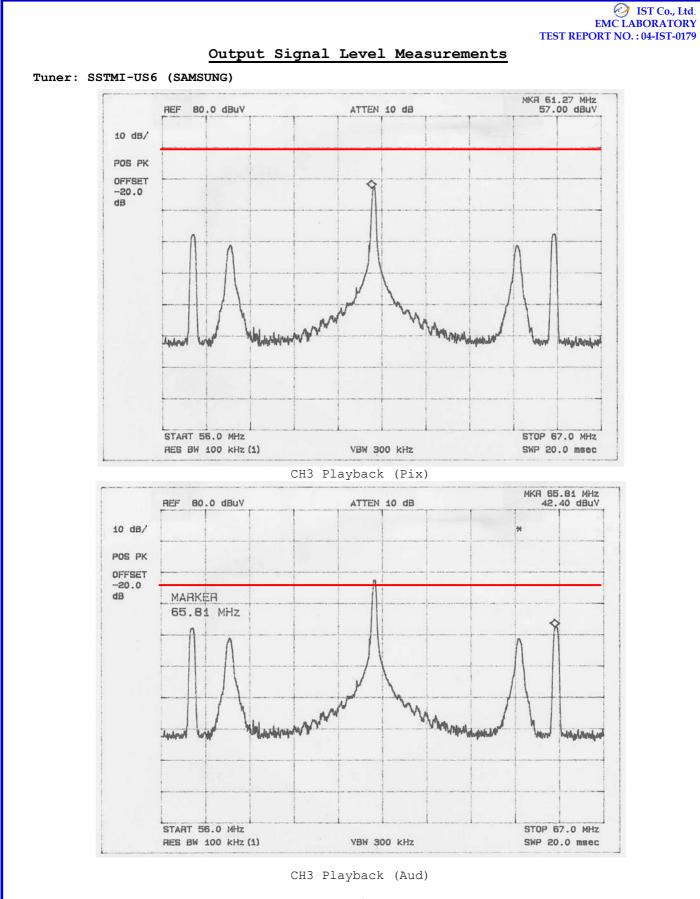
TEST CONDITIONS AND DATA Output Signal Level Measurements

◆ Test Equipment Used Model Name Manufacturer Description 8566B Hewlett Packard Spectrum Analyzer 85685A Hewlett Packard RF preselector RAM Rohde & Schwarz Matching Pad PM5418 FLUKE Pattern Generator Auxiliary Equipment Used Model Name Manufacturer Descriptions 14C5NT Daewoo Electronics. Color TV Receiver Accessories including cables Name Length Port and Descriptions RCA Video / Audio 1.5m Environmental Conditions Temperature 22°C Humidity 47 % Atmosphere pressure 1002mbar Test Program Playback and record mode 🔶 Test Area Compact Chamber Note : Limit Calculations For Video Signal $346.4 \times 75^{1/2} = 2999uV = 69.54dBuV = -37.46 dBm$ For Audio Signal 77.5 X $75^{1/2} = 671.17 \text{uV} = 56.53 \text{dBuV} = -50.46 \text{ dBm}$ The test was performed with RF receiving as VITS. The VITS signals, 1V and 5V

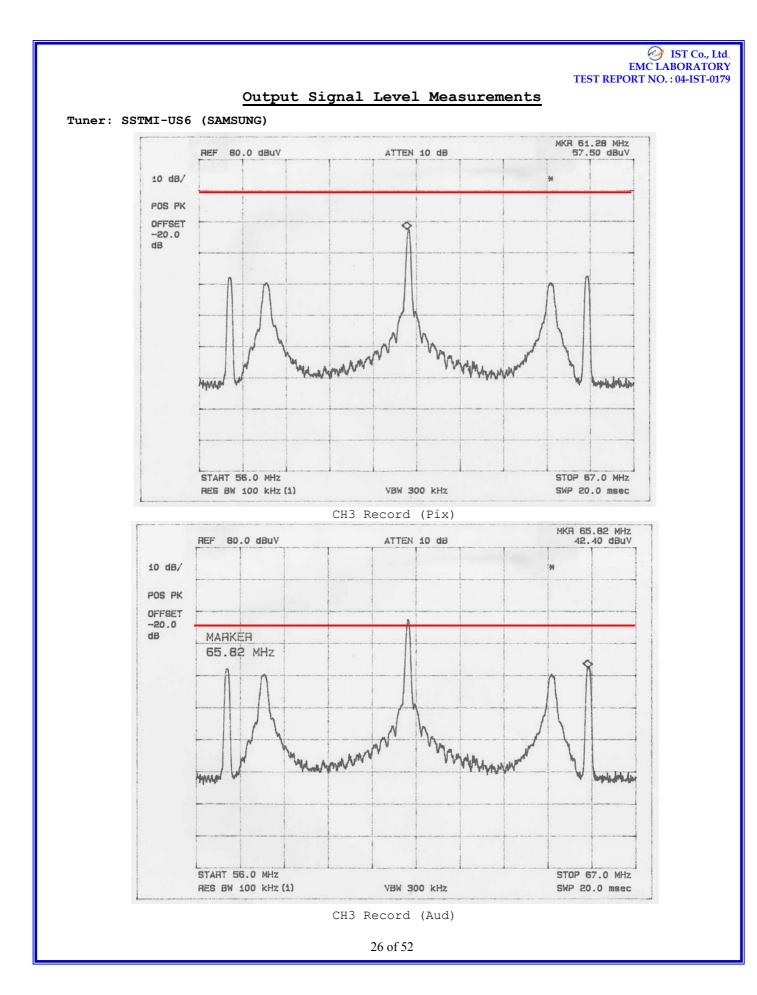
test program was employed for each channel.

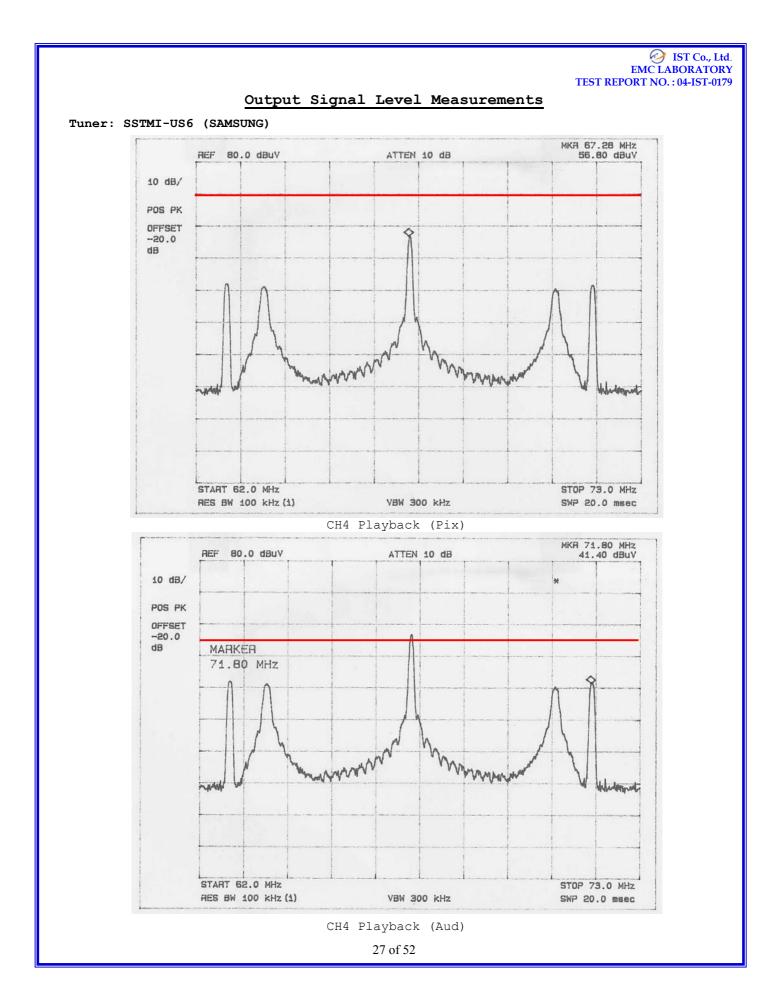
peak-to-peak, were used for channel 3 and channel 4 with alternate. The above

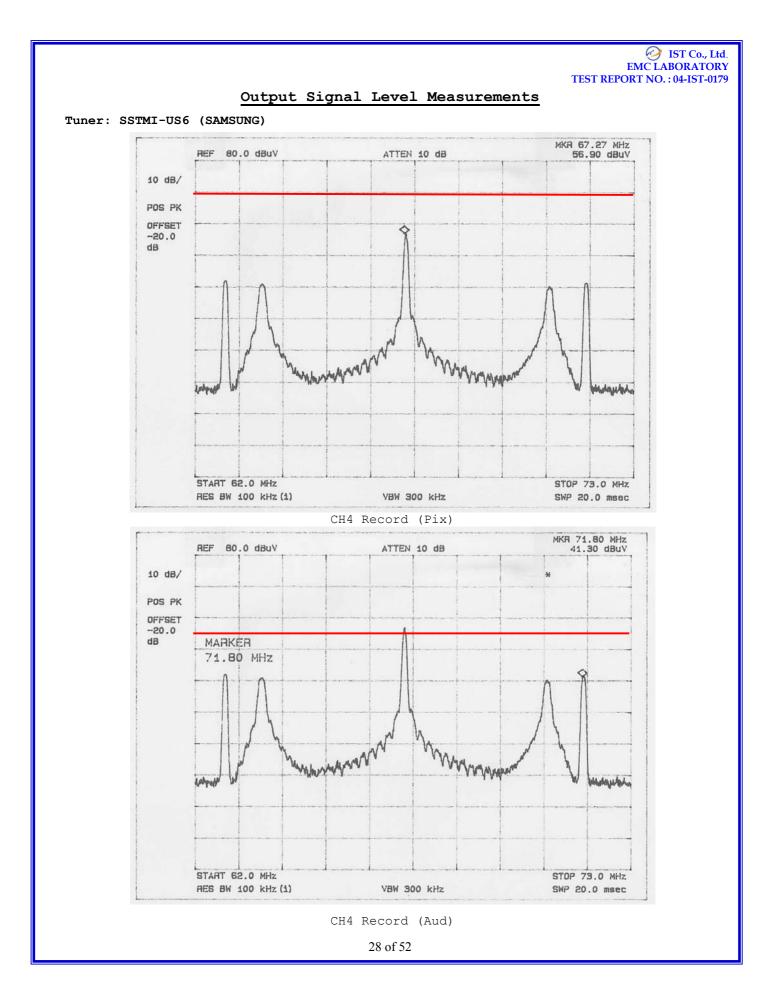
IV CH. 3(Pix) 3(Aud)	<u>Out</u> Freq.(MHz) 61.27	Level(dBuV)	vel Measurem		
3(Pix)	-	Level(dBuV)	Limit (dBuV)		
	61.27			Mode	Margin(dB)
(Aud)		57.0	69.54	Playback	12.54
	65.81	42.4	56.53	Playback	14.13
(Pix)	61.28	57.5	69.54	Record	12.04
(Aud)	65.82	42.4	56.53	Record	14.13
(Pix)	67.28	56.8	69.54	Playback	12.74
(Aud)	71.80	41.4	56.53	Playback	15.13
(Pix)	67.27	56.9	69.54	Record	12.64
(Aud)	71.80	41.3	56.53	Record	15.23
	Outpu	ut Signal Tabula	ated Data with	Tuner	
	(SAMSUNG	Electronic Co.,	, Ltd. Model: S	STMI-US6)	
V CH.	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
(Pix)	61.27	55.0	69.54	Playback	14.54
(Aud)	65.81	41.4	56.53	Playback	15.13
(Pix)	61.28	56.1	69.54	Record	13.44
(Aud)	65.82	41.4	56.53	Record	15.13
(Pix)	67.28	56.0	69.54	Playback	13.54
(Aud)	71.80	41.4	56.53	Playback	15.13
(Pix)	67.27	54.5	69.54	Record	15.04
(Aud)	71.80	41.5	56.53	Record	15.03
(nuu)		it Signal Tabula			10.00
		(Korea Alps. Mod			
	-	(Roica Aips. Hot		<u>/</u>	
V CH.	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
(Pix)	61.27	58.6	69.54	Playback	10.94
(Aud)	65.81	42.7	56.53	Playback	13.83
(Pix)	61.28	58.3	69.54	Record	11.24
(Aud)	65.82	42.7	56.53	Record	13.83
(Pix)	67.28	57.1	69.54	Playback	12.44
(Aud)	71.80	42.3	56.53	Playback	14.23
(Pix)	67.27	58.2	69.54	Record	11.34
(Aud)	71.80	42.4	56.53	Record	14.13
		ut Signal Tabula Innotek Co., Lto			
			of 52		

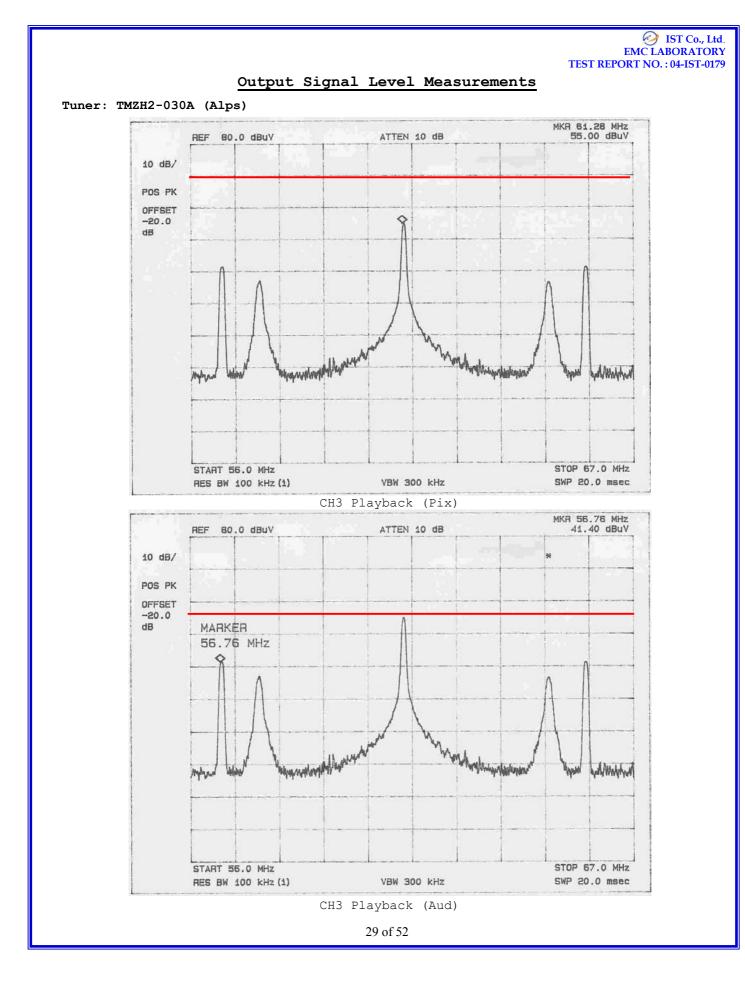


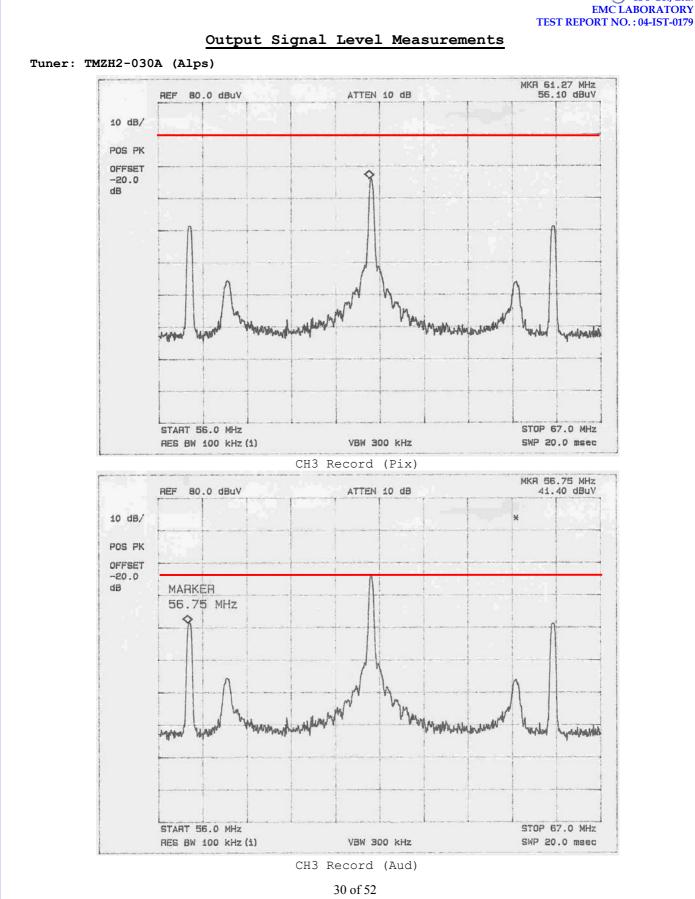
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🧭 IST Co., Ltd. **EMC LABORATORY**

