

EMC TEST REPORT

Project No. : LBE021086

Product : **Video cassette recorder**

Model No. : **SLV-N900**

Date of test : November 29 ~ 30, 2002

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1. Introduction & Summary

1.1 Description of the EUT

Applicant	SAMSUNG ELECTRONICS Co., Ltd.	
Project Number	LBE021086	
Equipment Under Test	Video cassette recorder	
Trade Name	SONY	
Model Number	SLV-N900	
Variant Model	None	
Type of RF Output Connector	Type "F" Connector 75ohm(Unbalanced)	
FCC ID Number	A3LKHANVFD	
Operating(RF Modulator) Frequency	CH.3	Visual Carrier 61.25MHz Aural Carrier 65.75MHz
	CH.4	Visual Carrier 67.25MHz Aural Carrier 71.75MHz
Mains input	120V 60Hz	

1.2 Test facility

The EMI/EMS measurement facilities used to collect the tested data are located at 416 Maetan 3 Dong, Paldal-Ku, Suwon City, Kyungki Do, Korea.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1 & 16-2.

SAMSUNG Electronics Co.,Ltd is accredited by Korea Laboratory Accreditation Scheme(KOLAS) which signed the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the above test item(s) and test method(s).

Measured in Semi-anechoic chamber #1 that is FCC Registration Number 98856.

1.3 Test mode

The EUT was tested in the following operating modes(at both channel 3 and 4) for the tests mention in this report:

1) Playback mode [VHS Play]

A video tape recorded with VITS signal was played on the EUT.

2) Record mode [1V VITS Signal Input]

A 1V peak-to-peak VITS signal was supplied through the video input connector for recording.

3) Record mode [5V VITS Signal Input]

A 5V peak-to-peak VITS signal was supplied through the video input connector for recording.

4) Record mode [NTSC Signal Input]

A NTSC signal(Color bar with grea lines) was supplied at ch. 5(77.25MHz) through the Ant. input connector for recording.

Note: The NTSC TV signal input record mode is not applicable to the antenna transfer switch test.

1.4 Measuring instrument setup

The explanation of measuring instrument setup when respective function is used in any frequency band is as following:

Frequency Band [MHz]	Instrument	Detector function	Resolution Bandwidth	Video Bandwidth
30 to 1000	Spectrum analyzer	Peak	100kHz (1MHz)	1MHz
	EMI Test receiver	Quasi-Peak	120kHz	-
Above 1000	EMI Test receiver	Average	1MHz	-

1.5 Test rule and Procedure

FCC Rule Part 15, Subpart B : Unintentional Radiators

TV Interface Devices.

Test Procedure : ANSI C63.4-1992

1.6 Test Summary

Test item	Applied Standards	Result
AC POWERLINE CONDUCTED EMISSION	ANSI C63.4-1992	Pass
RADIATED EMISSION	ANSI C63.4-1992	Pass
OUTPUT SIGNAL LEVEL	ANSI C63.4-1992	Pass
OUTPUT TERMINAL CONDUCTED SPURIOUS EMISSION	ANSI C63.4-1992	Pass
ANTENNA TRANSFER SWITCH ISOLATION	ANSI C63.4-1992	Pass

* N/A : Test not applicable

2. Test equipment

Equipment	Model No.	Serial No.	Makers	Last calibration and Interval
Spectrum analyzer	8566B	3340A21744	H.P	02/03/04, 12Months
	Firmware versions : Rev.29.9.86			
Quasi-peak adapter	85650A	2521A00687	H.P	02/10/09, 12Months
RF Preselector	85685A	2602A00224	H.P	02/10/09, 12Months
Field strength meter	ESCS30	839809/022	R & S	02/06/18, 12Months
	Firmware versions : Main 1.08, OTP 02.01, GRA 02.03			
Field strength meter	ESVP	860688/015	R & S	02/02/28, 12Months
L.I.S.N	KNW-404	8-507-5	Kyoritsu	02/03/23, 12Months
Pattern Generator	PM5418-TDSI	LO627116	PHILIPS	01/12/07, 12Months
VITS Generator	MG318A	M08643	ANRITSU	02/02/18, 12Months
Matching PAD	9730	-	NIHON	-
Bi-Log Antenna	CBL6112B	2766	SCHAFFNER	02/ 04/26, 12Months

3. Test Results

3.1 RADIATED EMISSION MEASUREMENT

3.1.1 Test Procedure

Configure the EUT System in accordance with ANSI C63.4-1992 section 8 and 12.2. Power cords for the EUT System are connected to the receptacle on the ground plane. The output ports are connected to the cable provided with the device and the ending port of the cable are terminated in the proper impedance.

To find out the maximum emission, change the position of the cable, and the EUT operation mode under normal usage of the EUT.

The spectrum analyzer is scanned from 30MHz to 1,000MHz in channel 3 and 4.

3.1.2 Radiated Emission Test Data

The initial step in collecting radiated data was to perform a quasi-peak scan over the measurement range using a receiver.

All other emission are non-significant.

The minimum margin to the limit is as follows :

Eut Mode : VHS Playback at CH3 and CH4

Frequency Range [MHz]	Tested Frequency [MHz]	ANT Pol.	Meter Reading [A] [dBuV/m]	Total Loss [B] [dB]	Antenna Height [Cm]	Turn table Degree [Deg]	Results [A+B] [dBuV/m]	Limits at 3m [dBuV/m]	Margin (Limit-Result) [dB]
30 - 88	42.960	V	15.3	11.7	100	240	27.0	40.0	13.0
	59.600	H	15.2	6.4	300	360	21.6	40.0	18.4
	71.590	V	13.0	6.8	100	360	19.8	40.0	20.3
88 - 216	114.540	H	14.7	13.5	398	160	28.2	43.5	15.3
	143.180	H	13.1	12.8	239	220	25.9	43.5	17.6
	171.820	H	14.5	11.7	174	310	26.2	44.5	18.3
216 - 960	Meter Reading is less than 10dBuV						0.0	46.0	46.0
							0.0	46.0	46.0
							0.0	46.0	46.0

* Receiving Antenna Mode : **Horizontal, Vertical**

* Test distance : 3m (Semi-Anechoic Chamber)

* Results = Meter Reading + Total Loss(Antenna factor + Cable loss)

Eut Mode : Rec(1V VITS Signal) at CH3 and CH4

Frequency Range [MHz]	Tested Frequency [MHz]	ANT Pol.	Meter Reading [A] [dBuV/m]	Total Loss [B] [dB]	Antenna Height [Cm]	Turn table Degree [Deg]	Results [A+B] [dBuV/m]	Limits at 3m [dBuV/m]	Margin (Limit-Result) [dB]
30 - 88	36.600	V	14.9	15.1	100	280	30.0	40.0	10.0
	42.960	V	14.0	11.7	100	250	25.7	40.0	14.3
	57.270	H	16.2	6.8	302	270	23.0	40.0	17.0
	71.590	V	15.2	6.8	146	60	22.0	40.0	18.1
88 - 216	114.550	H	14.6	13.5	400	160	28.1	43.5	15.4
	143.180	H	13.4	12.8	239	219	26.2	43.5	17.3
	171.820	H	14.2	11.7	202	303	25.9	44.5	18.6
216 - 960	Meter Reading is less than 10dBuV						0.0	46.0	46.0
							0.0	46.0	46.0
							0.0	46.0	46.0

* Receiving Antenna Mode : **Horizontal, Vertical**

* Test distance : 3m (Semi-Anechoic Chamber)

* Results = Meter Reading + Total Loss(Antenna factor + Cable loss)

Eut Mode : Rec(5V VITS Signal) at CH3 and CH4

Frequency Range [MHz]	Tested Frequency [MHz]	ANT Pol.	Meter Reading [A] [dBuV/m]	Total Loss [B] [dB]	Antenna Height [Cm]	Turn table Degree [Deg]	Results [A+B] [dBuV/m]	Limits at 3m [dBuV/m]	Margin (Limit-Result) [dB]
30 - 88	36.600	V	14.3	15.1	100	160	29.4	40.0	10.6
	42.960	V	10.8	11.7	100	70	22.5	40.0	17.5
	57.270	H	12.6	6.8	274	300	19.4	40.0	20.6
	71.590	V	6.1	6.8	234	360	12.9	40.0	27.2
88 - 216	114.550	H	14.1	13.5	400	160	27.6	43.5	15.9
	143.180	H	12.0	12.8	256	200	24.8	43.5	18.7
	171.820	H	11.1	11.7	198	90	22.8	44.5	21.7
216 - 960	Meter Reading is less than 10dBuV						0.0	46.0	46.0
							0.0	46.0	46.0
							0.0	46.0	46.0

* Receiving Antenna Mode : **Horizontal, Vertical**

* Test distance : 3m (Semi-Anechoic Chamber)

* Results = Meter Reading + Total Loss(Antenna factor + Cable loss)

Eut Mode : Rec(NTSC Signal) at CH3 and CH4

Frequency Range [MHz]	Tested Frequency [MHz]	ANT Pol.	Meter Reading [A] [dBuV/m]	Total Loss [B] [dB]	Antenna Height [Cm]	Turn table Degree [Deg]	Results [A+B] [dBuV/m]	Limits at 3m [dBuV/m]	Margin (Limit-Result) [dB]
30 - 88	55.250	V	22.0	7.3	100	240	29.3	40.0	10.8
	66.810	H	15.8	6.2	100	360	22.0	40.0	18.0
	75.100	H	12.7	7.4	113	298	20.1	40.0	19.9
88 - 216	114.550	H	12.8	13.5	400	180	26.3	43.5	17.2
	143.180	H	12.4	12.8	244	190	25.2	43.5	18.3
	171.820	H	12.5	11.7	198	340	24.2	44.5	20.3
216 - 960	Meter Reading is less than 10dBuV						0.0	46.0	46.0
							0.0	46.0	46.0
							0.0	46.0	46.0

* Receiving Antenna Mode : **Horizontal, Vertical**

* Test distance : 3m (Semi-Anechoic Chamber)

* Results = Meter Reading + Total Loss(Antenna factor + Cable loss)

3.2 AC POWERLINE CONDUCTED EMISSION MEASUREMENT

3.2.1 Reference Rule and Specification

FCC Rule Part 15, Section 15.107(a)

3.2.2 Test Procedure

- 1) Configure the EUT System in accordance with ANSI C63.4-1992 section 7 and 12.2. Connect the EUT's AC line cord to the EUT port of LISN.
- 2) All input terminals are terminated in the proper impedance.
The output ports are connected to the cable provided with the device and the ending port are terminated in the proper impedance.
- 3) Using a calibrated coaxial cable, the TEST RECEIVER is connected to the measuring port of the LISN for EUT. To the find out an EUT condition procedures the maximum emission, the position of cables, EUT operations mode are the position of cables, EUT operations mode are checked under normal usage of EUT.
Then, the emission are scanned from 0.45MHz to 30MHz relative to the limit are recorded.

3.2.3 Test Results

1) EUT Mode : Playback mode [VHS Play]

Frequency [MHz]	Meter reading(a)		Total Loss(b) [dB]	Results (a) + (b) [dBuV]	Limits [dBuV]	Margin [dB]
	LISN Port					
	L1	L2				
0.583	26.1	22.6	0.33	26.4	48.0	21.6
1.101	28.1	29.8	0.3	30.1	48.0	17.9
1.514	31.3	32.3	0.44	32.7	48.0	15.3
3.138	39	40.4	0.27	40.7	48.0	7.3
9.179	38.7	39.1	0.31	39.4	48.0	8.6
14.317	38.8	36.4	0.81	39.6	48.0	8.4

2) EUT Mode : Record mode [1V VITS Signal Input]

Frequency [MHz]	Meter reading(a)		Total Loss(b) [dB]	Results (a) + (b) [dBuV]	Limits [dBuV]	Margin [dB]
	LISN Port					
	L1	L2				
1.374	30.5	31.2	0.31	31.5	48.0	16.5
3.138	32.9	34.8	0.27	35.1	48.0	12.9
5.539	33.3	32.3	0.25	33.6	48.0	14.5
6.463	40.9	39.7	0.24	41.1	48.0	6.9
11.090	37.3	41.8	0.5	42.3	48.0	5.7
27.813	30.8	29.5	1.34	32.1	48.0	15.9

* Margin = Limits - Results

3) EUT Mode : Record mode [5V VITS Signal Input]

Frequency [MHz]	Meter reading(a)		Total Loss(b) [dB]	Results (a) + (b) [dBuV]	Limits [dBuV]	Margin [dB]
	LISN Port					
	L1	L2				
0.527	26.5	30.7	0.32	31.0	48.0	17.0
1.234	30.6	31.5	0.303	31.8	48.0	16.2
4.188	36	37.3	0.27	37.6	48.0	10.4
5.833	43.9	44.1	0.24	44.3	48.0	3.7
9.396	42.6	43.8	0.35	44.2	48.0	3.9
14.702	35.3	35.4	0.83	36.2	48.0	11.8

4) EUT Mode : Record mode [NTSC Signal Input]

Frequency [MHz]	Meter reading(a)		Total Loss(b) [dB]	Results (a) + (b) [dBuV]	Limits [dBuV]	Margin [dB]
	LISN Port					
	L1	L2				
0.527	28.0	30.0	0.32	30.3	48.0	17.7
1.815	28.9	32.0	0.29	32.3	48.0	15.7
3.061	38.6	39.2	0.27	39.5	48.0	8.5
8.962	38.6	40.7	0.28	41.0	48.0	7.0
14.324	34.2	37.7	0.81	38.5	48.0	9.5
28.639	32.5	28.4	1.35	33.9	48.0	14.2

* Margin = Limits - Results

3.3 OUTPUT SIGNAL LEVEL MEASUREMENT

3.3.1 Test Procedure

Configure the EUT System in accordance with ANSI C63.4-1992 section 12.2.

The RF output terminal is connected to the spectrum analyzer through the matching transformer with a calibrated 75 ohms coaxial cable.

Then, the RF output signal level is measured under the EUT condition produces the maximum signal level.

3.3.2 Test Results

1) EUT Mode : Playback[VHS Play]

RF Output channel	Measured carrier frequency[MHz]		Matching Pad [dB]	Meter reding [dBuV/50ohm]		RF Output signal level [dBuV/75ohm]			
	Visual	Aural		Visual	Aural	Visual	Limit	Aural	Limit
3	61.26	65.79	-	66.31	49.62	66.31	69.54	49.62	56.53
4	67.24	71.75	-	65.91	49.3	65.91	69.54	49.3	56.53

* Matching Pad Loss is included in Meter reading

2) EUT Mode : Recording / VITS 1Vp-p

RF Output channel	Measured carrier frequency[MHz]		Matching Pad [dB]	Meter reding [dBuV/50ohm]		RF Output signal level [dBuV/75ohm]			
	Visual	Aural		Visual	Aural	Visual	Limit	Aural	Limit
3	61.26	65.79	-	66.34	50.01	66.34	69.54	50.01	56.53
4	67.25	71.75	-	65.9	49.49	65.9	69.54	49.49	56.53

* Matching Pad Loss is included in Meter reading

3) EUT Mode : Recording / VITS 5Vp-p

RF Output channel	Measured carrier frequency[MHz]		Matching Pad [dB]	Meter reding [dBuV/50ohm]		RF Output signal level [dBuV/75ohm]			
	Visual	Aural		Visual	Aural	Visual	Limit	Aural	Limit
3	61.26	65.79	-	66.33	49.78	66.33	69.54	49.78	56.53
4	67.25	71.75	-	65.95	49.69	65.95	69.54	49.69	56.53

* Matching Pad Loss is included in Meter reading

3) EUT Mode : Recording / NTSC

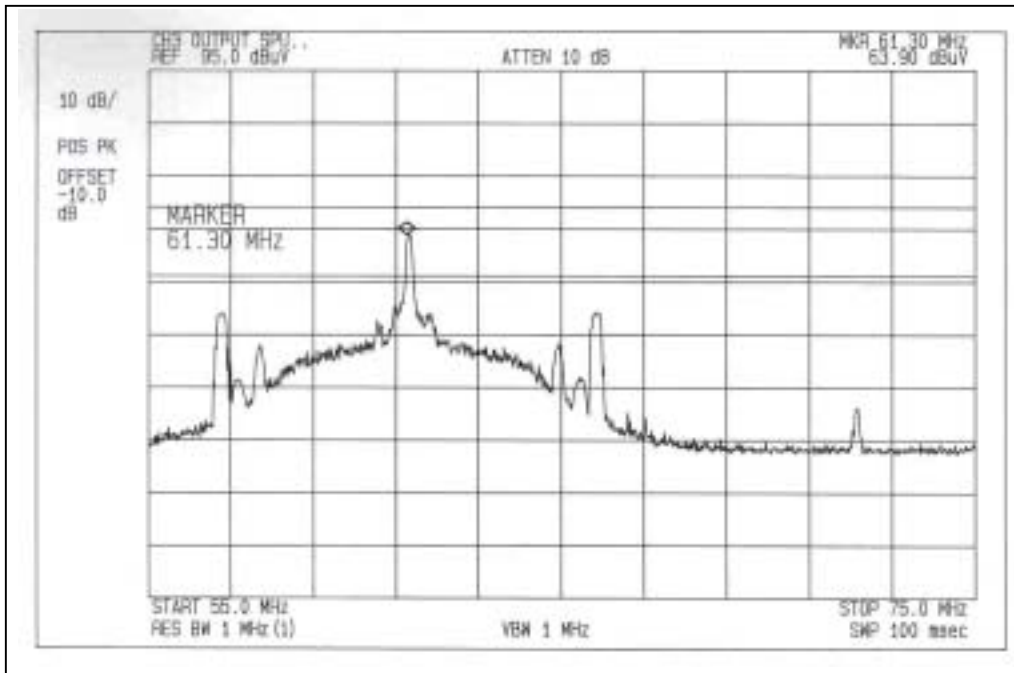
RF Output channel	Measured carrier frequency[MHz]		Matching Pad [dB]	Meter reding [dBuV/50ohm]		RF Output signal level [dBuV/75ohm]			
	Visual	Aural		Visual	Aural	Visual	Limit	Aural	Limit
3	61.26	65.79	-	66.45	49.55	66.45	69.54	49.55	56.53
4	67.25	71.75	-	65.99	49.28	65.99	69.54	49.28	56.53

* Matching Pad Loss is included in Meter reading

3.3.3 Test Graphs

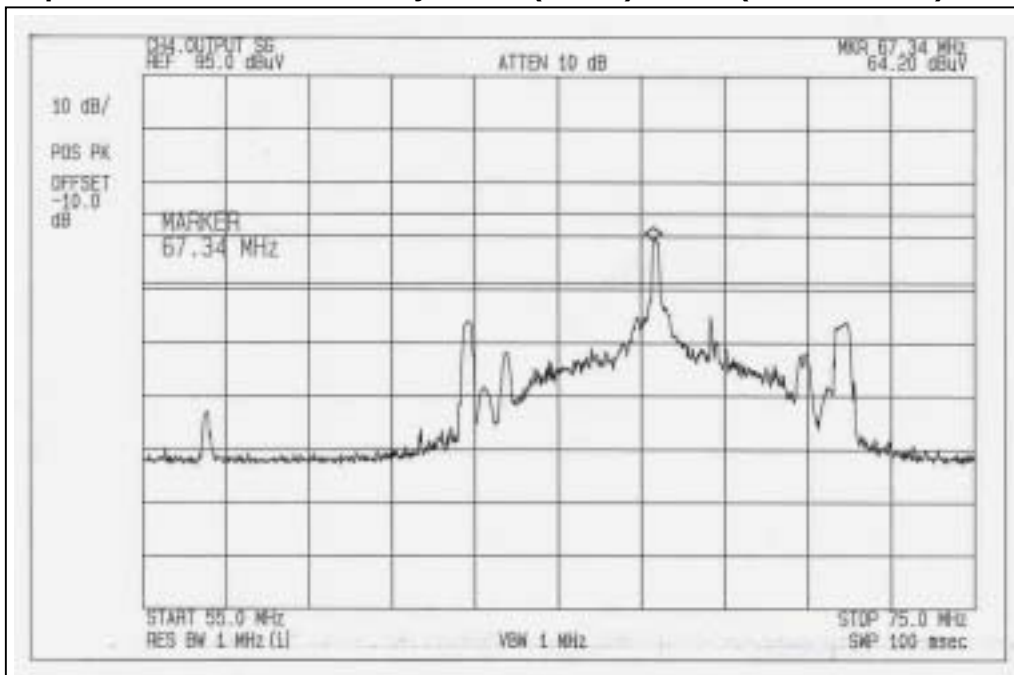
Test channel : CH.3

Operation Mode : VHS Play & REC(NTSC) & REC(1V&5V VITS)



Test channel : CH.4

Operation Mode : VHS Play & REC(NTSC) & REC(1V&5V VITS)



3.4 OUTPUT TERMINAL CONDUCTED SPURIOUS EMISSION MEASUREMENT

3.4.1 Test Procedure

The EUT system and measuring instrument are set up in the same manner of the output signal measurement.

The spectrum was scanned from 30MHz to more than 4.6MHz below the visual carrier frequency, and from more than 7.4MHz above the visual carrier frequency to 1000MHz.

Then, the significant spurious emissions are measured at the output terminal.

3.4.2 Test Results

1) EUT Mode : Playback[VHS Play]

Output: 3CH

Tested Frequency [MHz]	Meter Reading [A] [dBuV]	Total Loss [B] [dB]	Results [A+B] [dBuV]	Limits [dBuV]	Margin (Limit-Result) [dB]
47.750	18.9	-	18.9	39.5	20.6
74.750	18.0	-	18.0	39.5	21.5
122.510	21.0	-	21.0	39.5	18.5

* Matching Pad Loss is included in Meter reading

2) EUT Mode : REC[1V VITS]

Output: 3CH

Tested Frequency [MHz]	Meter Reading [A] [dBuV]	Total Loss [B] [dB]	Results [A+B] [dBuV]	Limits [dBuV]	Margin (Limit-Result) [dB]
47.760	18.9	-	18.9	39.5	20.6
51.960	15.6	-	15.6	39.5	23.9
53.960	16.6	-	16.6	39.5	22.9
122.510	21.0	-	21.0	39.5	18.5
914.170	16.6	-	16.6	39.5	22.9

* Matching Pad Loss is included in Meter reading

3) EUT Mode : REC[5V VITS]
Output: 3CH

Tested Frequency [MHz]	Meter Reading [A] [dBuV]	Total Loss [B] [dB]	Results [A+B] [dBuV]	Limits [dBuV]	Margin (Limit-Result) [dB]
47.760	18.8	-	18.8	39.5	20.7
51.960	15.5	-	15.5	39.5	24.0
53.960	16.7	-	16.7	39.5	22.8
122.510	21.0	-	21.0	39.5	18.5
914.170	16.7	-	16.7	39.5	22.9

* Matching Pad Loss is included in Meter reading

4) EUT Mode : REC[NTSC]
Output: 3CH

Tested Frequency [MHz]	Meter Reading [A] [dBuV]	Total Loss [B] [dB]	Results [A+B] [dBuV]	Limits [dBuV]	Margin (Limit-Result) [dB]
47.760	17.8	-	17.8	39.5	21.7
55.500	16.9	-	16.9	39.5	22.6
122.510	21.0	-	21.0	39.5	18.5

* Matching Pad Loss is included in Meter reading

5) EUT Mode : Playback[VHS Play]
Output: 4CH

Tested Frequency [MHz]	Meter Reading [A] [dBuV]	Total Loss [B] [dB]	Results [A+B] [dBuV]	Limits [dBuV]	Margin (Limit-Result) [dB]
53.810	14.8	-	14.8	39.5	24.7
55.490	16.8	-	16.8	39.5	22.8
134.480	20.8	-	20.8	39.5	18.7

* Matching Pad Loss is included in Meter reading

6) EUT Mode : REC[1V VITS]
Output: 4CH

Tested Frequency [MHz]	Meter Reading [A] [dBuV]	Total Loss [B] [dB]	Results [A+B] [dBuV]	Limits [dBuV]	Margin (Limit-Result) [dB]
53.740	18.7	-	18.7	39.5	20.8
55.490	16.8	-	16.8	39.5	22.7
60.060	18.2	-	18.2	39.5	21.3
134.480	20.8	-	20.8	39.5	18.8

* Matching Pad Loss is included in Meter reading

7) EUT Mode : REC[5V VITS]
Output: 4CH

Tested Frequency [MHz]	Meter Reading [A] [dBuV]	Total Loss [B] [dB]	Results [A+B] [dBuV]	Limits [dBuV]	Margin (Limit-Result) [dB]
53.740	18.7	-	18.7	39.5	20.8
55.490	16.5	-	16.5	39.5	23.0
60.060	15.2		15.2	39.5	24.3
57.950	15.6		15.6	39.5	23.9
60.650	17.3	-	17.3	39.5	22.2
134.480	20.7		20.7	39.5	18.8

* Matching Pad Loss is included in Meter reading

8) EUT Mode : REC[NTSC]
Output: 4CH

Tested Frequency [MHz]	Meter Reading [A] [dBuV]	Total Loss [B] [dB]	Results [A+B] [dBuV]	Limits [dBuV]	Margin (Limit-Result) [dB]
53.710	18.2	-	18.2	39.5	21.3
55.490	16.8	-	16.8	39.5	22.7
134.480	20.8	-	20.8	39.5	18.7

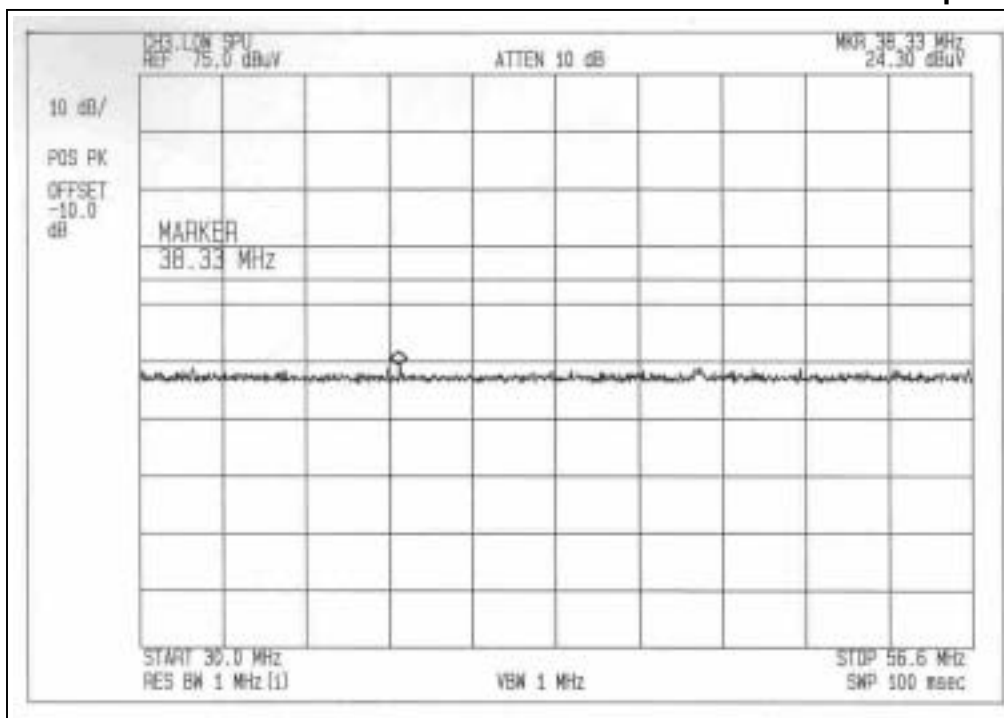
* Matching Pad Loss is included in Meter reading

3.4.3 Test Graph

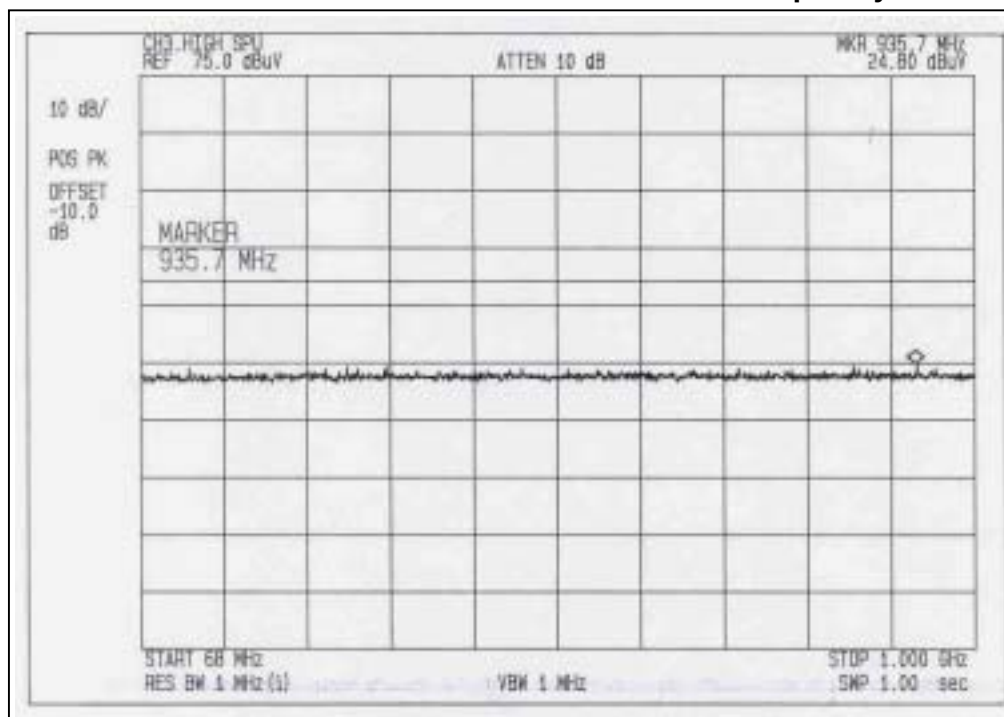
Test channel : 3

EUT mode : Playback / VITS 1Vp-p / VITS 5Vp-p / NTSC TV Signal

From 30MHz to more than 4.6MHz below the visual carrier frequency



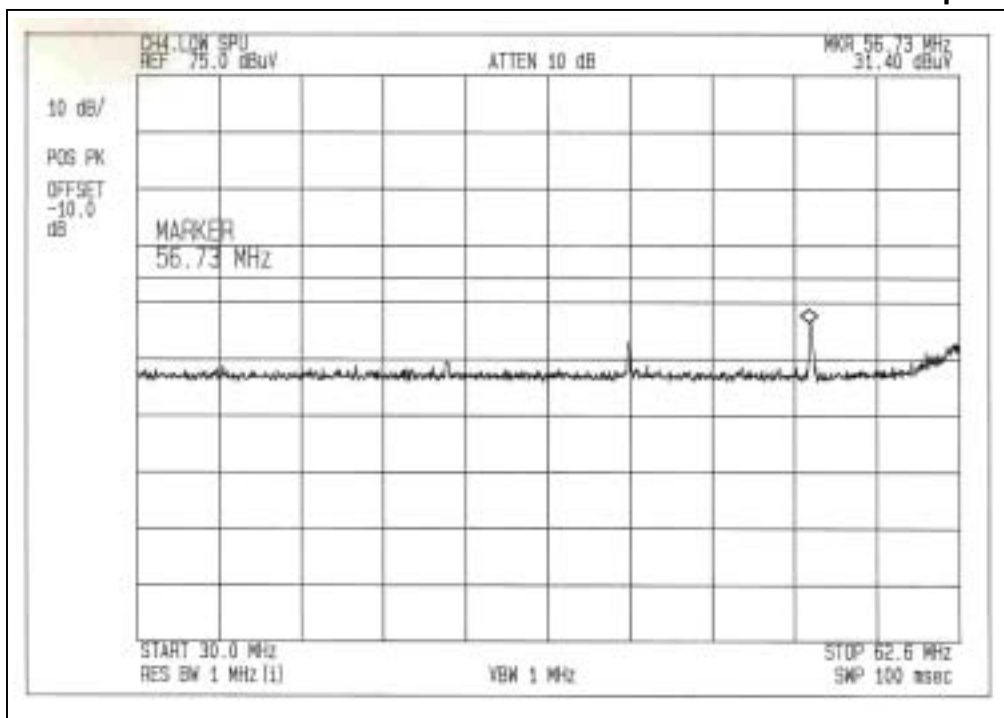
From more than 7.4MHz above the visual carrier frequency



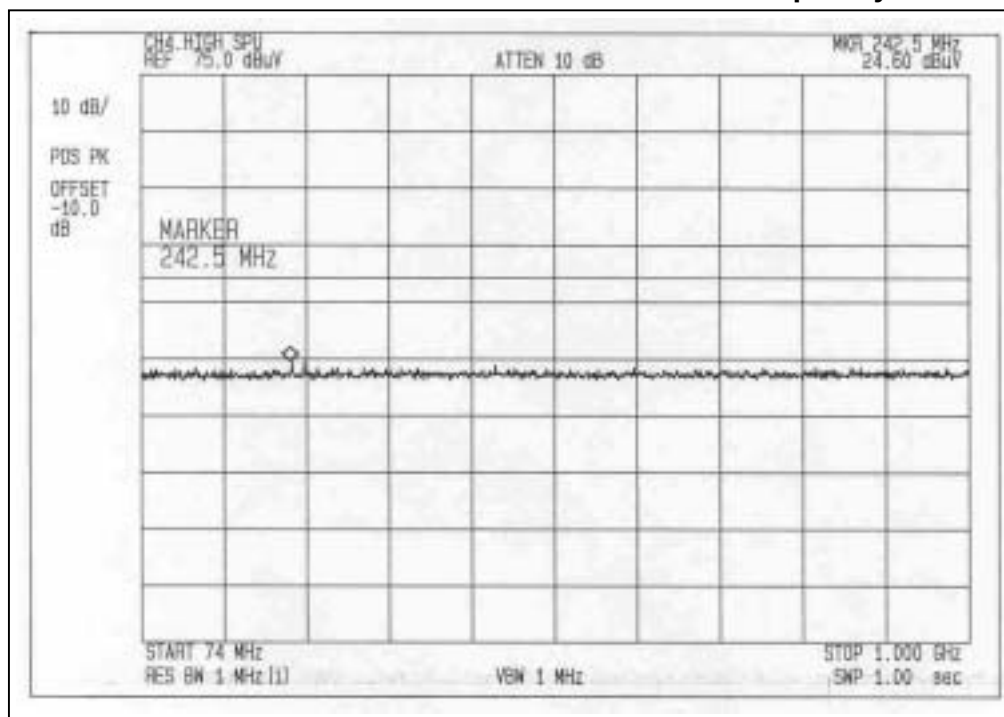
Test channel : 4

EUT mode : Playback / VITS 1Vp-p / VITS 5Vp-p / NTSC TV Signal

From 30MHz to more than 4.6MHz below the visual carrier frequency



From more than 7.4MHz above the visual carrier frequency



3.5 ANTENNA TRANSFER SWITCH ISOLATION MEASUREMENT

3.5.1 Test Procedure

Configure the EUT System in accordance with ANSI C63.4-1992 section 12.2.

The RF output terminal is terminated in the proper impedance.

The ANT input terminal is connected is to the spectrum analyzer through the matching transformer with a calibrated 75 ohms coaxial cable.

Then, the RF output leakage level is measured under the EUT condition produces the maximum signal level.

3.5.2 Test Results

1) EUT Mode : Playback[VHS Play]

RF Output channel	Measured frequency [MHz]	Meter reading [dBuV/50ohm]	Matching Pad [dB]	Results [dBuV/75ohm]	Limits [dBuV/75ohm]
3	61.25	1.5	4	5.5	9.5
4	67.25	3.2	4	7.2	9.5

3) EUT Mode : Recording / VITS 1Vp-p

RF Output channel	Measured frequency [MHz]	Meter reading [dBuV/50ohm]	Matching Pad [dB]	Results [dBuV/75ohm]	Limits [dBuV/75ohm]
3	61.25	0.5	4	4.5	9.5
4	67.24	4.1	4	8.1	9.5

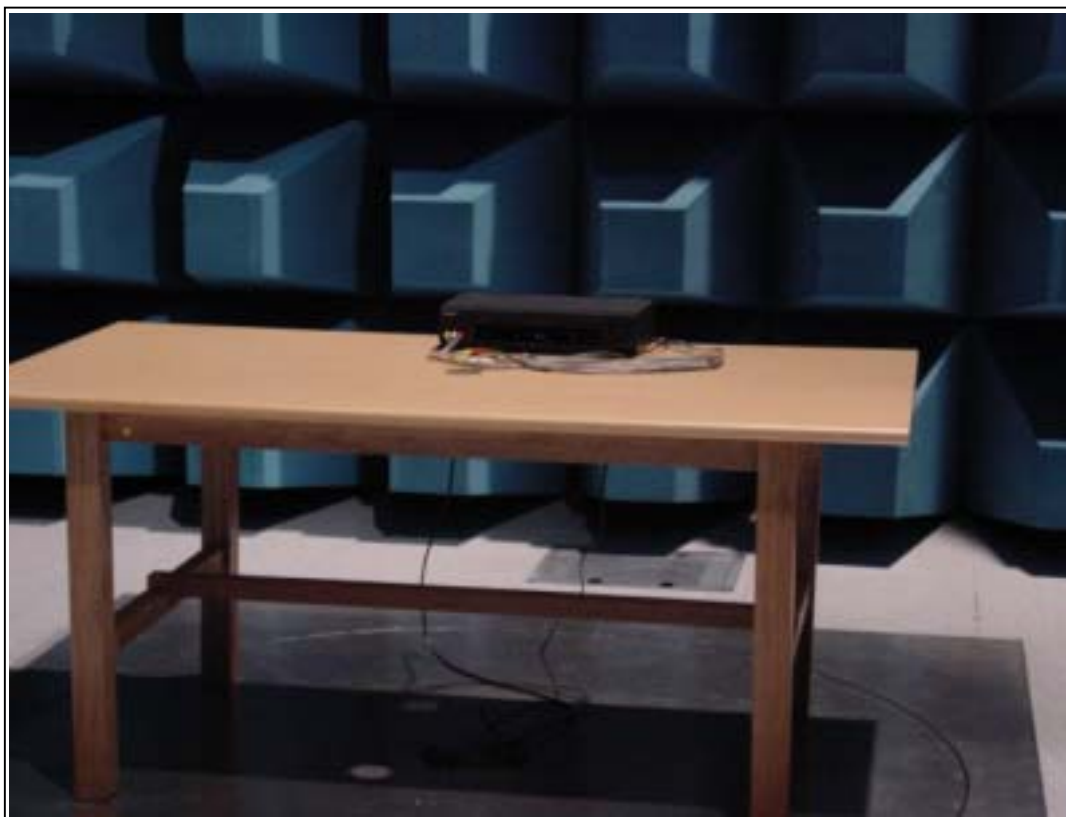
4) EUT Mode : Recording / VITS 5Vp-p

RF Output channel	Measured frequency [MHz]	Meter reading [dBuV/50ohm]	Matching Pad [dB]	Results [dBuV/75ohm]	Limits [dBuV/75ohm]
3	61.25	0.5	4	4.5	9.5
4	67.25	3.1	4	7.1	9.5

Test Set up Photographs

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[RADIATED EMISSION MEASUREMENT]



[AC POWERLINE CONDUCTED EMISSION MEASUREMENT]



Test Set up Photographs

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[ANTENNA TRANSFER SWITCH ISOLATION MEASUREMENT]



[OUTPUT SIGNAL LEVEL & TERMINAL CONDUCTED SPURIOUS EMISSION]

