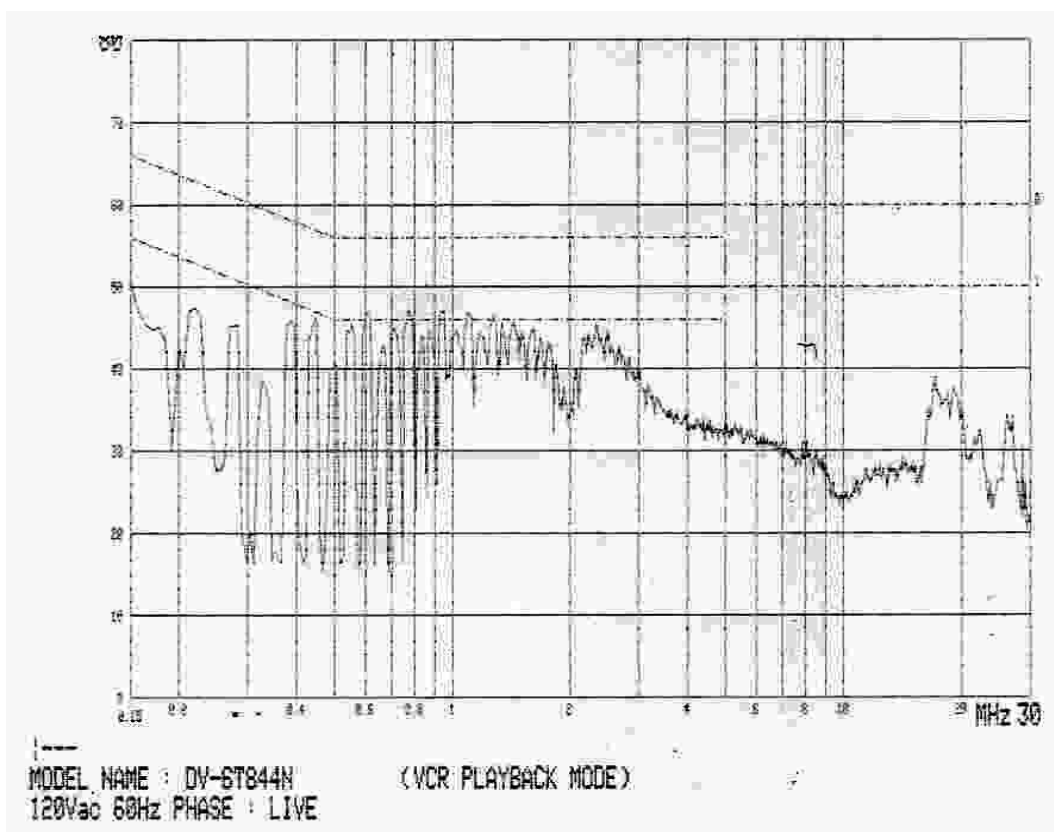


Conducted Emissions

(Mains Terminal Disturbance Voltages)



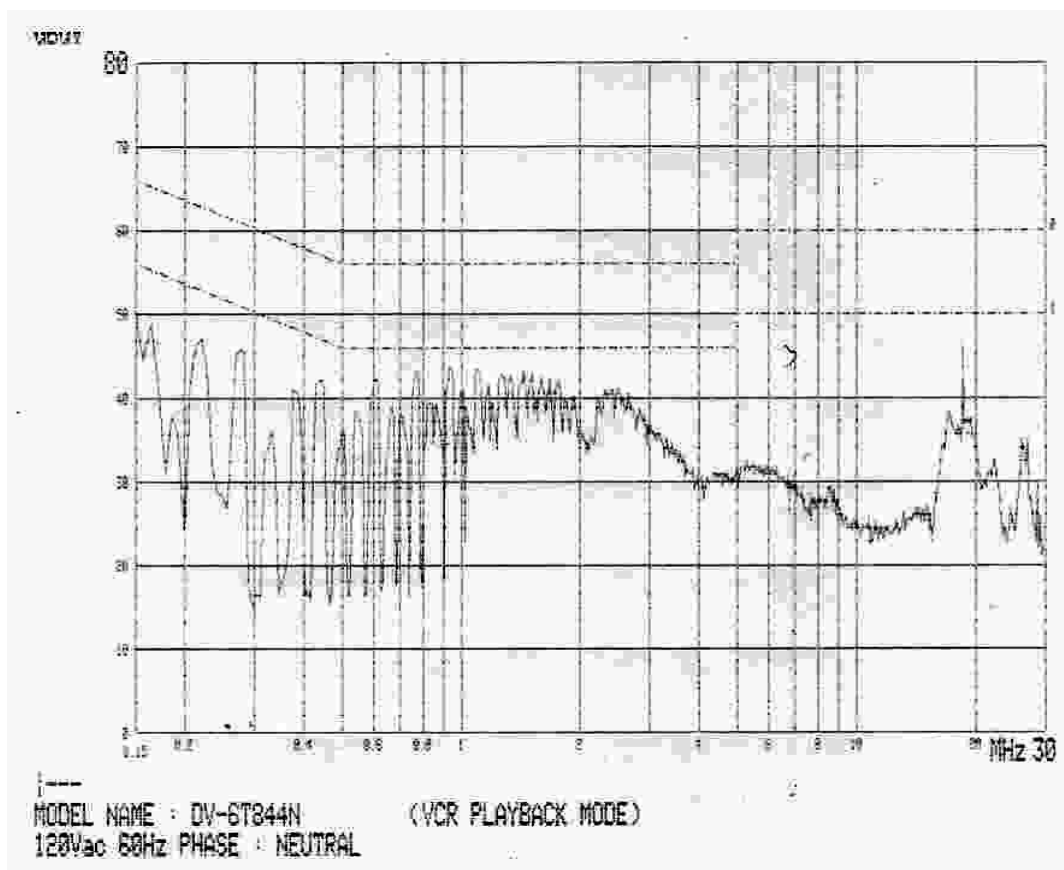
Tuner : TMZH2-030A (ALPS)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.445	44.7	32.4	57.0	47.0	12.3	14.6
0.779	45.1	26.4	56.0	46.0	10.9	19.6
0.943	45.0	25.5	56.0	46.0	11.0	20.5
1.437	43.4	21.3	56.0	46.0	12.6	24.7

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



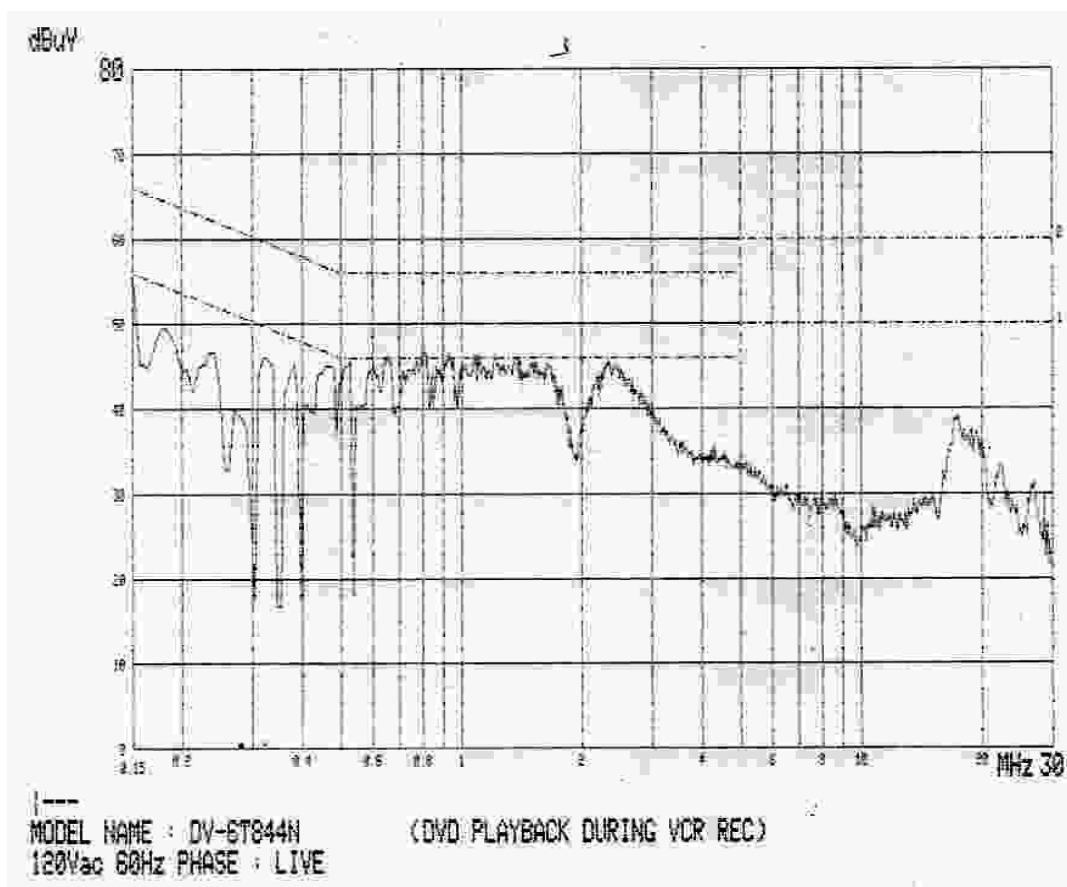
Tuner : TMZH2-030A (ALPS)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.221	44.1	42.0	62.8	52.8	18.7	10.8
0.930	40.5	22.8	56.0	46.0	15.5	23.2

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



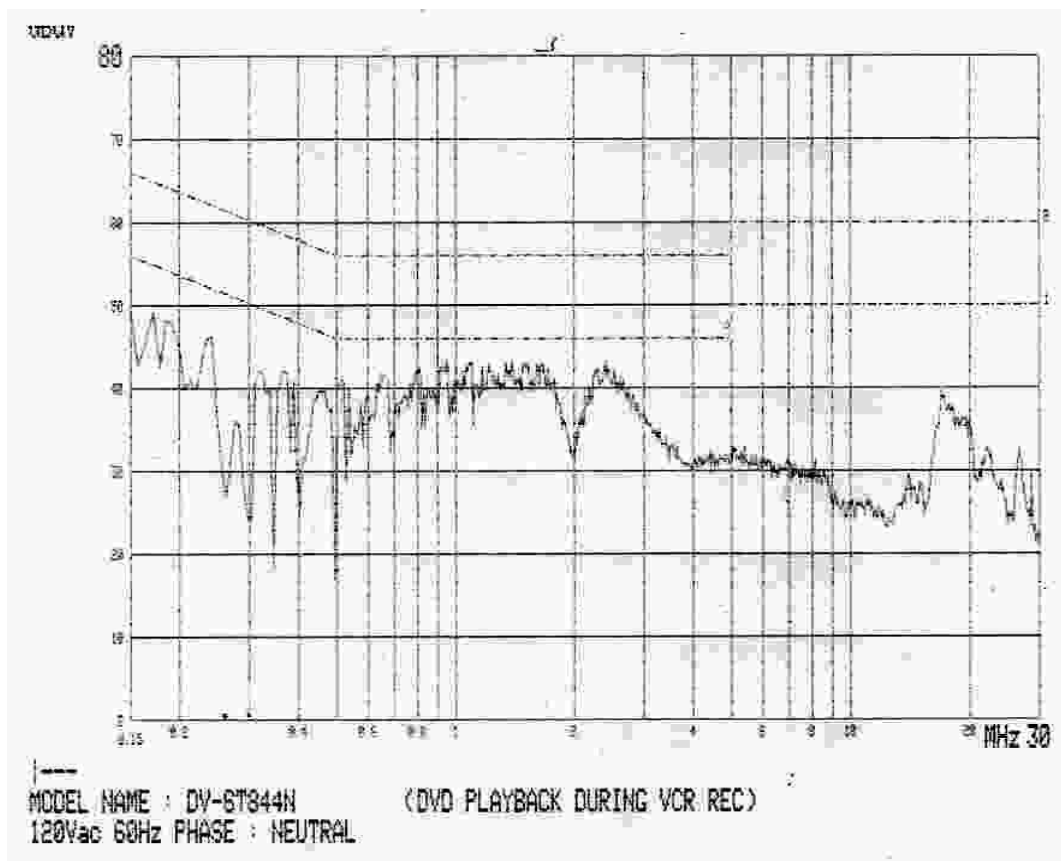
Tuner : TCMN0682PA20B4 (SAMSUNG)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.151	47.4	13.8	66.0	56.0	18.6	42.2
0.517	43.2	24.8	56.0	46.0	12.8	21.2
0.803	43.9	22.2	56.0	46.0	12.1	23.8
1.067	43.0	23.4	56.0	46.0	13.0	22.6
2.321	41.6	25.3	56.0	46.0	14.4	20.7

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



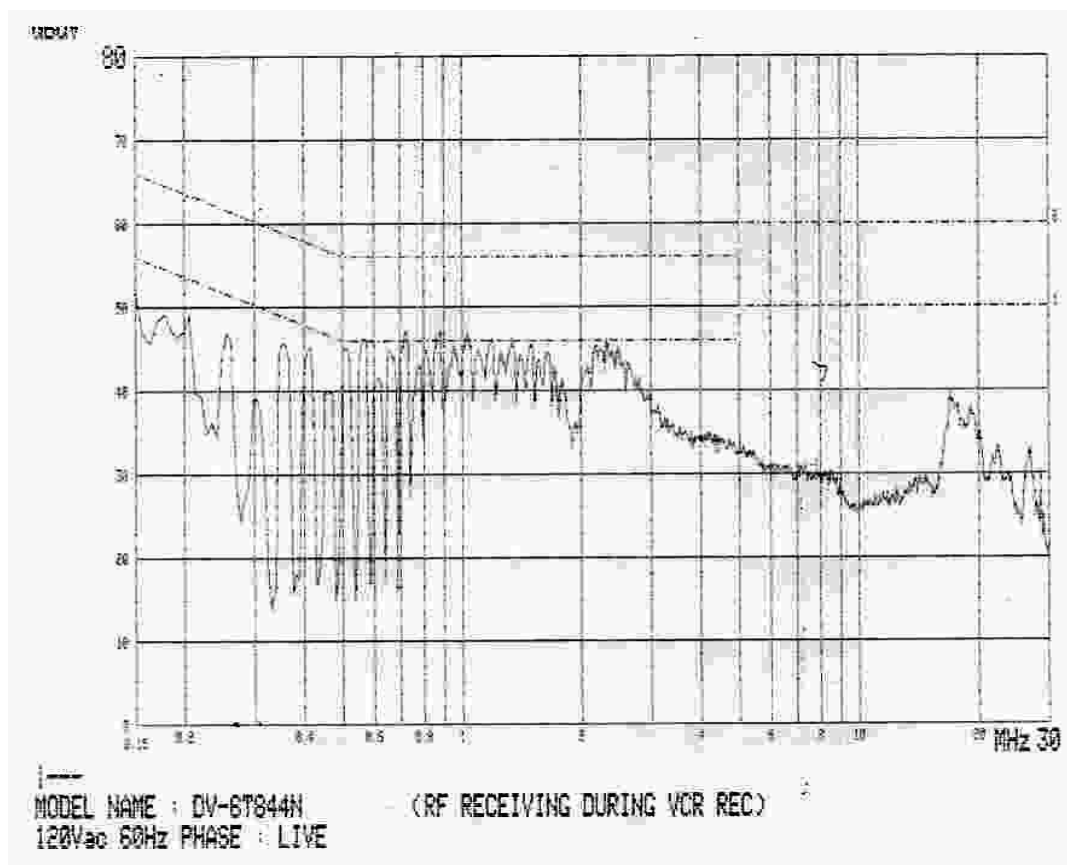
Tuner : TCMN0682PA20B4 (SAMSUNG)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.232	44.7	36.5	62.4	52.4	17.7	15.9
1.074	39.8	19.2	56.0	46.0	16.2	26.8

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



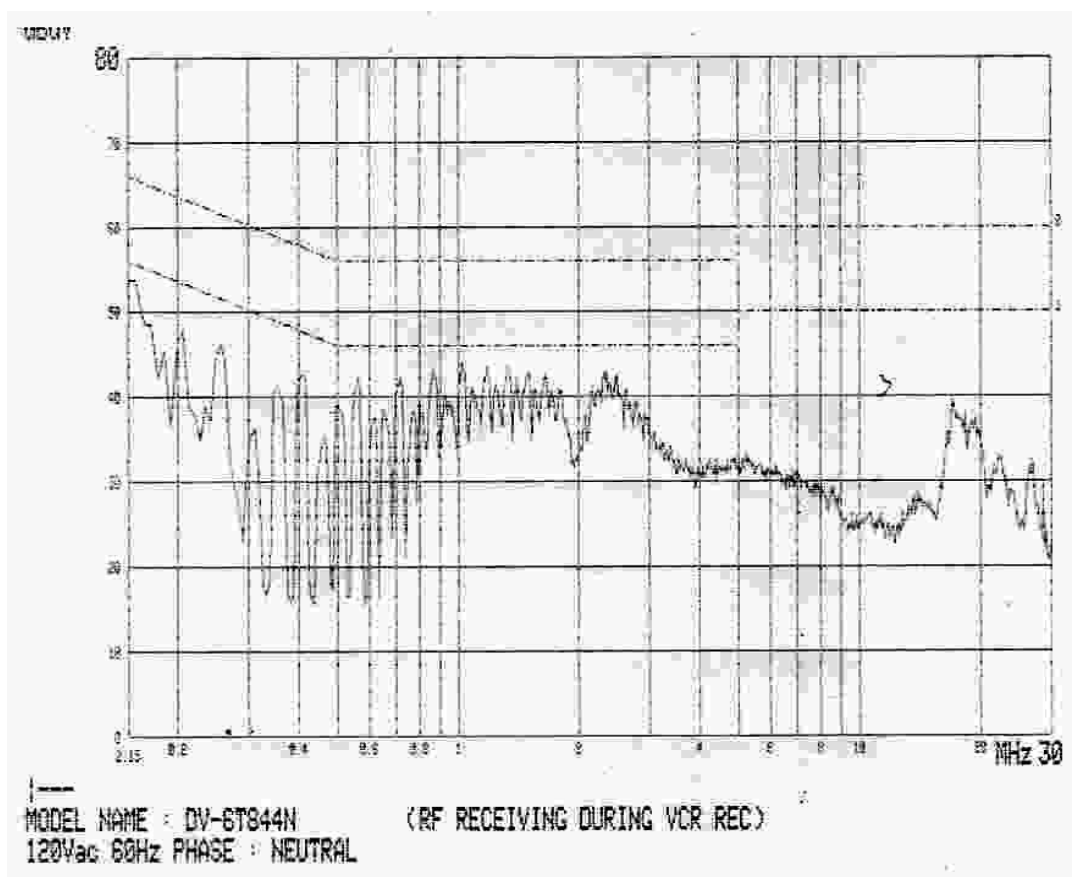
Tuner : TCMN0682PA20B4 (SAMSUNG)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.568	44.7	24.9	56.0	46.0	11.3	21.1
0.723	44.9	25.7	56.0	46.0	11.1	20.3
0.878	44.7	23.2	56.0	46.0	11.3	22.8
1.029	44.6	21.5	56.0	46.0	11.4	24.5
2.316	43.2	25.0	56.0	46.0	12.8	21.0

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



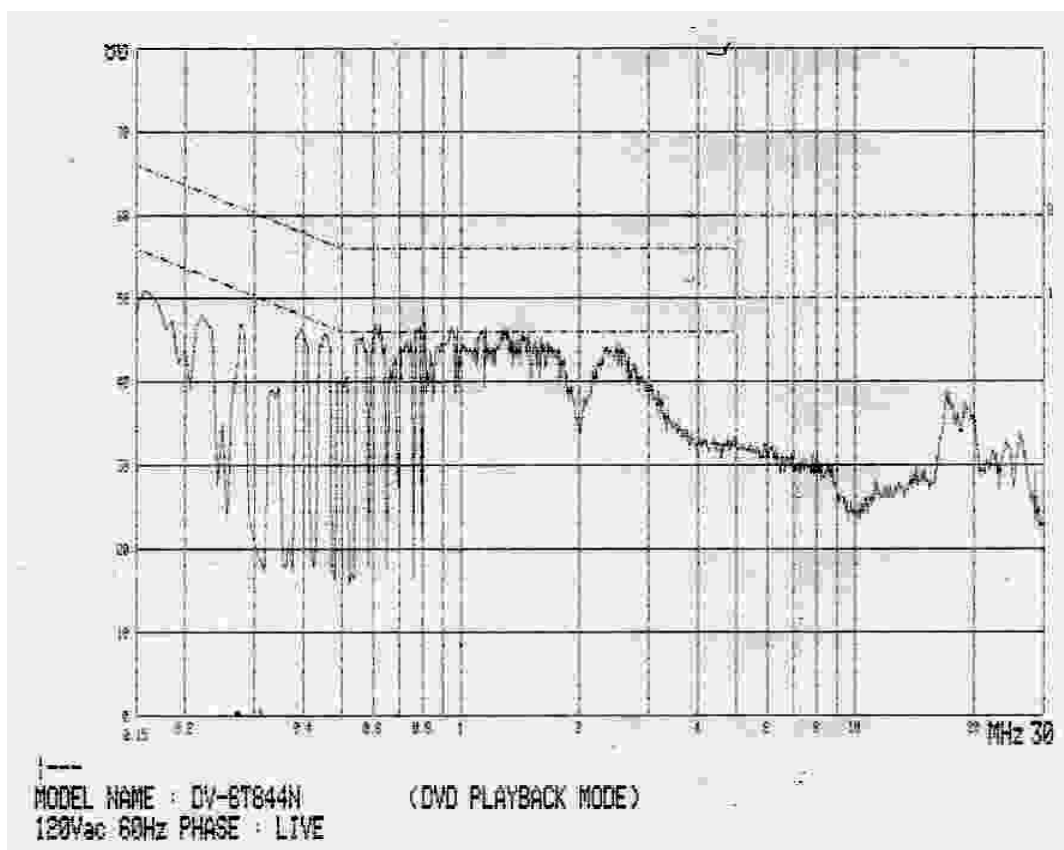
Tuner : TCMN0682PA20B4 (SAMSUNG)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.154	48.3	38.7	65.8	55.8	17.5	17.1
0.260	44.2	32.9	61.4	51.4	17.2	18.5
1.023	41.2	19.4	56.0	46.0	14.8	26.6

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



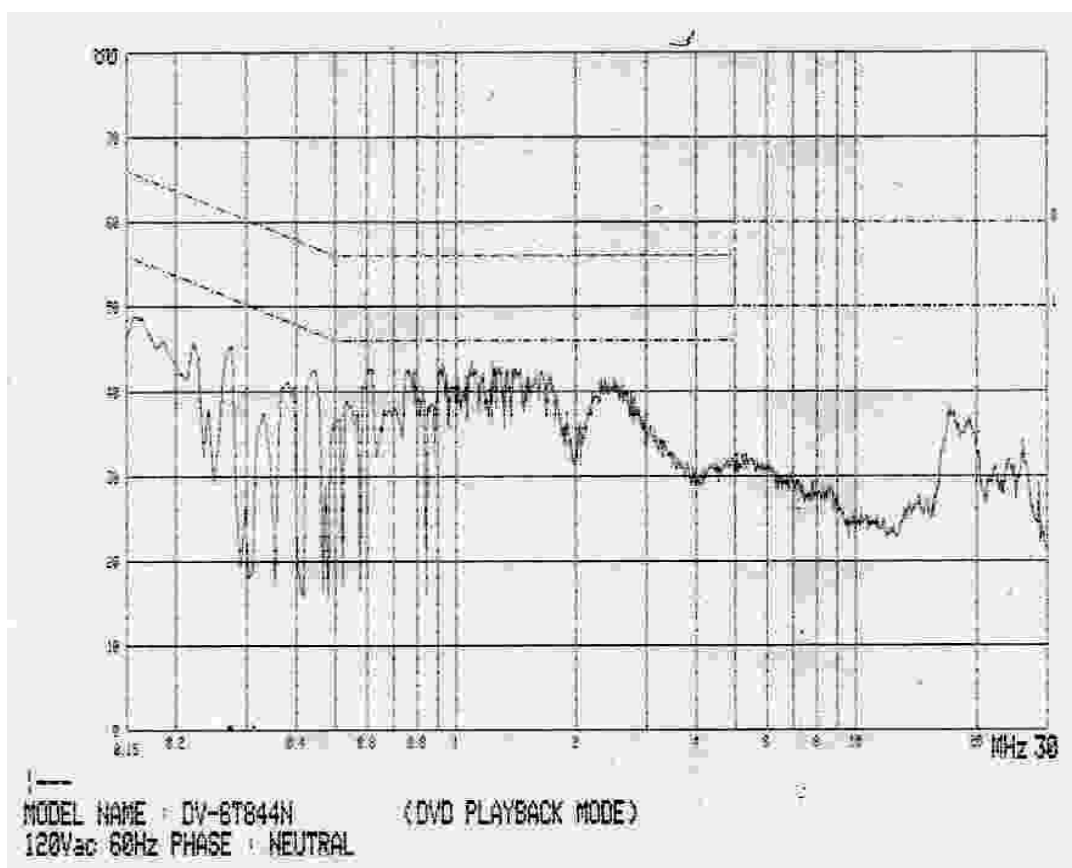
Tuner : TCMN0682PA20B4 (SAMSUNG)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.391	44.3	28.0	58.0	48.0	13.7	20.0
0.621	44.2	20.1	56.0	46.0	11.8	25.9
0.779	44.3	22.2	56.0	46.0	11.7	23.8
0.937	44.1	23.3	56.0	46.0	11.9	22.7
1.278	43.3	21.5	56.0	46.0	12.7	24.5

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



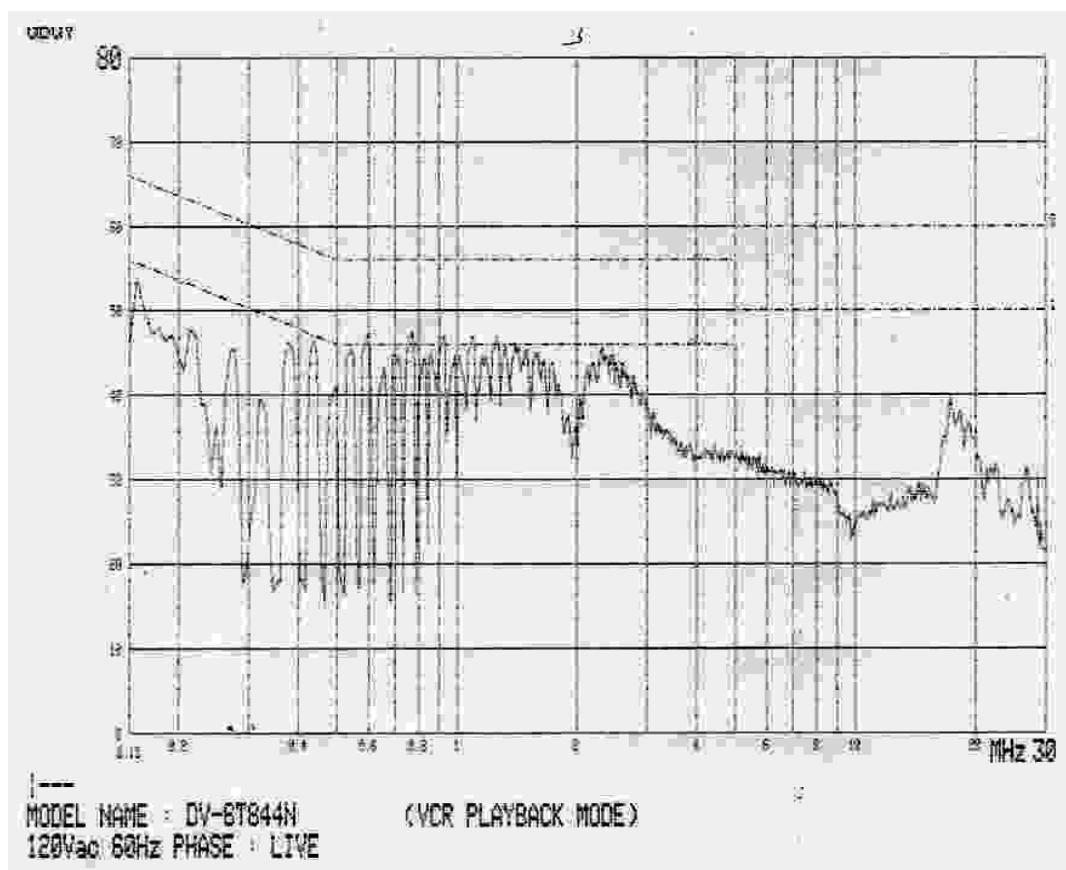
Tuner : TCMN0682PA20B4 (SAMSUNG)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.275	43.8	33.5	61.0	51.0	17.2	17.5
1.073	39.9	18.9	56.0	46.0	16.1	27.1

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



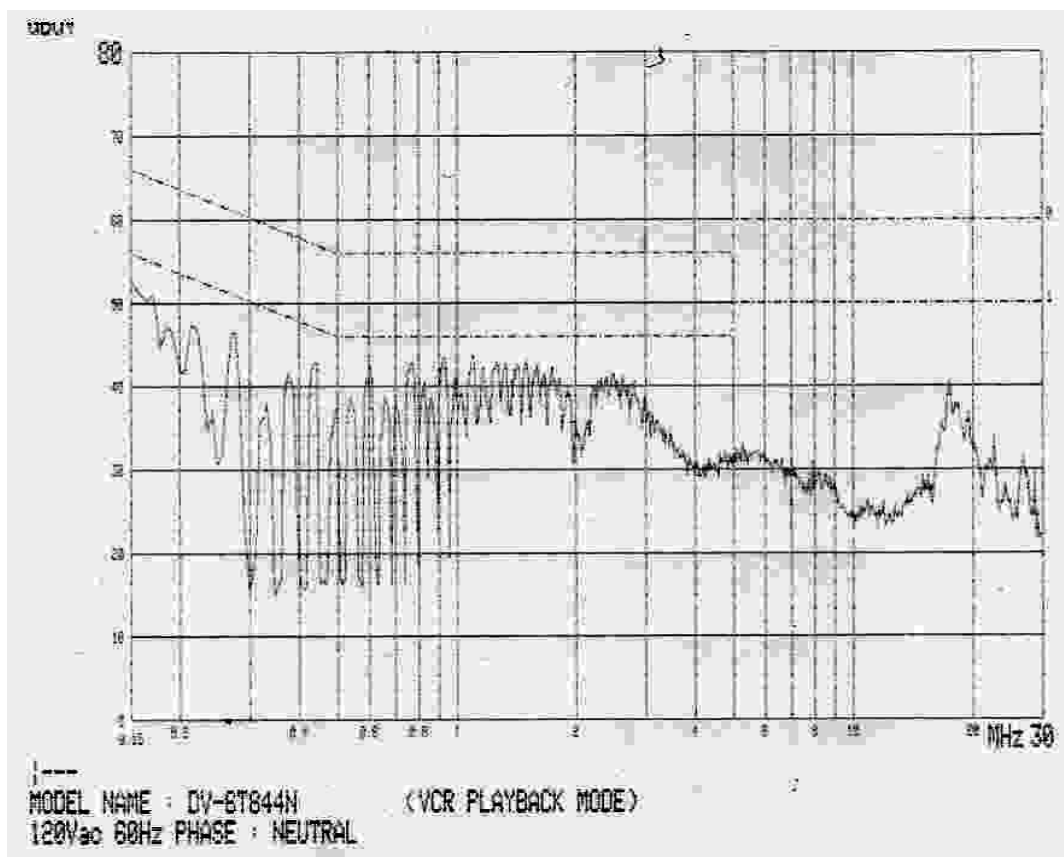
Tuner : TCMN0682PA20B4 (SAMSUNG)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.161	48.4	41.6	65.4	55.4	17.0	13.8
0.435	44.6	32.1	57.2	47.2	12.6	15.1
0.598	45.1	28.6	56.0	46.0	10.9	17.4
0.758	45.2	27.2	56.0	46.0	10.8	18.8
0.923	45.2	24.3	56.0	46.0	10.8	21.7

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

Conducted Emissions

(Mains Terminal Disturbance Voltages)



Tuner : TCMN0682PA20B4 (SAMSUNG)

Freq. [MHz]	Measurement [dB μ V]		Limit [dB μ V]		Margin [dB]	
	Q-peak	Average	Q-peak	Average	Q-peak	Average
0.151	47.0	12.4	66.0	56.0	19.0	43.6
0.217	45.4	42.6	62.9	52.9	17.5	10.3
0.272	44.8	40.4	61.1	51.1	16.3	10.7
0.925	41.3	20.1	56.0	46.0	14.7	25.9

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

TEST CONDITIONS AND DATA

Radiated Emissions

[Applicable]

◆ Test Equipment Used

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

Model Name	Manufacturer	Descriptions
ESVP	Rohde & Schwarz	Test Receiver
VULB9160	Schwarzbeck	Antenna
EZM	Rohde & Schwarz	Spectrum Monitor

◆ Auxiliary Equipment Used

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

◆ Accessories including cables

Name	Length	Port and Descriptions
RCA	1.5m	Video / Audio
S-Video	1.5m	

◆ Environmental Conditions

Temperature	18℃
Humidity	50 %
Atmosphere pressure	1002mbar

◆ Test Program

DVD Playback during VCR record, DVD Playback,
RF Receiving during VCR record, VCR Playback

◆ Test Area

Open Area Test Site #2

Note :

Radiated Emissions

(Disturbance Radiation)

[Applicable]

Tuner : TADM-H101F (LG)

System	CH	Freq. (MHz)	Pol. (H/V)	Limits (dBuV/m)	Result (dBuV/m)	Margin (dB)
DVD Playback during VCR record		114.6	H	43.5	33.5	10.0
		216.0	H	43.5	40.1	3.4
		270.0	H	46.0	40.0	6.0
		442.0	V	46.0	41.5	4.5
		540.0	V	46.0	40.2	5.8
		743.2	V	46.0	42.3	3.7
DVD Playback Mode		111.6	H	43.5	35.0	8.5
		216.0	H	43.5	40.4	3.1
		270.0	V	46.0	42.5	3.5
		313.4	V	46.0	41.3	4.7
RF Receiving during VCR record		189.0	H	43.5	35.8	7.7
		216.0	H	43.5	40.2	3.3
		270.0	V	46.0	41.6	4.4
		540.0	V	46.0	42.2	3.8
		626.7	V	46.0	42.3	3.7
VCR Playback Mode		114.6	H	43.5	35.2	8.3
		202.8	H	43.5	38.5	5.0
		216.0	H	43.5	40.3	3.2
		270.0	V	46.0	41.7	4.3
		596.0	V	46.0	41.3	4.7

End of data

Note :

Radiated Emissions

(Disturbance Radiation)

[Applicable]

Tuner : TADM-H201F (LG)

System	CH	Freq. (MHz)	Pol. (H/V)	Limits (dBuV/m)	Result (dBuV/m)	Margin (dB)
DVD Playback during VCR record		189.0	H	43.5	35.2	8.3
		202.7	H	43.5	38.0	5.5
		216.0	H	43.5	40.4	3.1
		270.0	H	46.0	40.1	5.9
		540.0	V	46.0	40.2	5.8
		595.9	V	46.0	40.3	5.7
		675.0	V	46.0	38.3	7.7
		945.0	V	46.0	42.8	3.2
DVD Playback Mode		111.6	H	43.5	36.1	7.4
		135.0	H	43.5	39.2	4.3
		202.7	H	43.5	40.1	3.4
		216.0	H	43.5	40.3	3.2
		270.0	V	46.0	42.5	3.5
		313.4	V	46.0	40.1	5.9
RF Receiving during VCR record		189.0	H	43.5	33.5	10.0
		202.8	H	43.5	37.5	6.0
		216.0	H	43.5	39.9	3.6
		270.0	V	46.0	41.4	4.6
		313.4	V	46.0	39.7	6.3
		540.0	V	46.0	42.6	3.4
		626.7	V	46.0	42.0	4.0
VCR Playback Mode		114.6	H	43.5	31.6	11.9
		202.8	H	43.5	38.8	4.7
		216.0	H	43.5	40.2	3.3
		270.0	V	46.0	41.7	4.3
		313.4	V	46.0	40.2	5.8
		596.0	V	46.0	40.5	5.5
		944.9	V	46.0	42.9	3.1

End of data

Note :

Radiated Emissions

(Disturbance Radiation)

[Applicable]

Tuner : TMZH2-030A (ALPS)

System	CH	Freq. (MHz)	Pol. (H/V)	Limits (dBuV/m)	Result (dBuV/m)	Margin (dB)
DVD Playback during VCR record		77.4	H	40.0	31.6	8.4
		202.7	H	43.5	36.1	7.4
		216.0	H	43.5	40.1	3.4
		270.0	H	46.0	42.0	4.0
		595.9	V	46.0	42.8	3.2
		675.0	V	46.0	36.6	9.4
DVD Playback Mode		111.6	H	43.5	35.6	7.9
		135.0	H	43.5	40.3	3.2
		162.0	H	43.5	37.4	6.1
		202.7	H	43.5	40.2	3.3
		216.0	H	43.5	39.4	4.1
		270.0	V	46.0	40.1	5.9
		626.7	V	46.0	42.5	3.5
		675.0	V	46.0	38.9	7.1
RF Receiving during VCR record		202.8	H	43.5	38.6	4.9
		216.0	H	43.5	39.5	4.0
		270.0	V	46.0	42.2	3.8
		313.4	V	46.0	40.1	5.9
		540.0	V	46.0	42.8	3.2
		626.7	V	46.0	41.9	4.1
VCR Playback Mode		135.0	H	43.5	39.3	4.2
		202.8	H	43.5	34.7	8.8
		216.0	H	43.5	39.4	4.1
		270.0	V	46.0	41.9	4.1
		313.4	V	46.0	41.1	4.9

End of data

Note :

Radiated Emissions

(Disturbance Radiation)

[Applicable]

Tuner : TCMN0682PA20B4 (SAMSUNG)

System	CH	Freq. (MHz)	Pol. (H/V)	Limits (dBuV/m)	Result (dBuV/m)	Margin (dB)
DVD Playback during VCR record		202.7	H	43.5	39.3	4.2
		216.0	H	43.5	38.6	4.9
		270.0	H	46.0	41.2	4.8
		540.0	V	46.0	41.7	4.3
		595.9	V	46.0	37.2	8.8
DVD Playback Mode		111.6	H	43.5	38.4	5.1
		202.7	H	43.5	40.2	3.3
		216.0	H	43.5	40.1	3.4
		270.0	V	46.0	41.6	4.4
RF Receiving during VCR record		189.0	H	43.5	35.3	8.2
		202.8	H	43.5	39.8	3.7
		216.0	H	43.5	39.7	3.8
		270.0	V	46.0	41.0	5.0
		313.4	V	46.0	39.4	6.6
		540.0	V	46.0	42.0	4.0
VCR Playback Mode		114.6	H	43.5	36.2	7.3
		202.8	H	43.5	37.2	6.3
		216.0	H	43.5	40.5	3.0
		270.0	V	46.0	41.5	4.5
		313.4	V	46.0	41.1	4.9
		596.0	V	46.0	39.0	7.0

End of data

Note :

TEST CONDITIONS AND DATA

Output Signal Level Measurements

◆ Test Equipment Used

<u>Model Name</u>	<u>Manufacturer</u>	<u>Description</u>
8566B	Hewlett Packard	Spectrum Analyzer
85685A	Hewlett Packard	RF preselector
RAM	Rohde & Schwarz	Matching Pad
PM5515	Philips	Pattern Generator

◆ Auxiliary Equipment Used

<u>Model Name</u>	<u>Manufacturer</u>	<u>Descriptions</u>
14C5NT	Daewoo Electronics.	Color TV Receiver

◆ Accessories including cables

<u>Name</u>	<u>Length</u>	<u>Port and Descriptions</u>
RCA	1.5m	Video / Audio

◆ Environmental Conditions

Temperature	18°C
Humidity	47 %
Atmosphere pressure	1002mbar

◆ Test Program Playback and record mode

◆ Test Area Compact Chamber

Note : Limit Calculations

For Video Signal

$$346.4 \times 75^{1/2} = 2999\mu V = 69.54\text{dBuV} = -37.46 \text{ dBm}$$

For Audio Signal

$$77.5 \times 75^{1/2} = 671.17\mu V = 56.53\text{dBuV} = -50.46 \text{ dBm}$$

The test were performed with RF receiving as VITS. The VITS signals, 1V and 5V peak-to-peak, were used for channel 3 and channel 4 with alternate. The above test program were employed for each channel.

Output Signal Level Measurements

TV CH.	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3 (Pix)	61.29	56.7	69.54	Playback	12.84
3 (Aud)	56.74	42.6	56.53	Playback	13.93
3 (Pix)	61.29	56.8	69.54	Record	12.74
3 (Aud)	65.79	42.5	56.53	Record	14.03
4 (Pix)	67.27	58.0	69.54	Playback	11.54
4 (Aud)	62.75	42.7	56.53	Playback	13.83
4 (Pix)	67.28	57.8	69.54	Record	11.74
4 (Aud)	71.81	42.2	56.53	Record	14.33

Output Signal Tabulated Data with Tuner

(LG Innotek Co., Ltd. Model: **TADM-H101F**)

TV CH.	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3 (Pix)	61.29	58.2	69.54	Playback	11.34
3 (Aud)	56.78	42.5	56.53	Playback	14.03
3 (Pix)	61.30	58.3	69.54	Record	11.24
3 (Aud)	65.82	42.4	56.53	Record	14.13
4 (Pix)	67.28	56.3	69.54	Playback	13.24
4 (Aud)	62.75	41.8	56.53	Playback	14.73
4 (Pix)	67.28	57.6	69.54	Record	11.94
4 (Aud)	71.81	42.0	56.53	Record	14.53

Output Signal Tabulated Data with Tuner

(LG Innotek Co., Ltd. Model: **TADM-H201F**)

Output Signal Level Measurements

TV CH.	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3 (Pix)	61.28	55.0	69.54	Playback	14.54
3 (Aud)	56.74	41.5	56.53	Playback	15.03
3 (Pix)	61.29	55.9	69.54	Record	13.64
3 (Aud)	56.74	43.1	56.53	Record	13.43
4 (Pix)	67.27	56.5	69.54	Playback	13.04
4 (Aud)	62.74	42.0	56.53	Playback	14.53
4 (Pix)	67.28	54.8	69.54	Record	14.74
4 (Aud)	71.80	40.7	56.53	Record	15.83

Output Signal Tabulated Data with Tuner

(Korea Alps Model: **TMZH2-030A**)

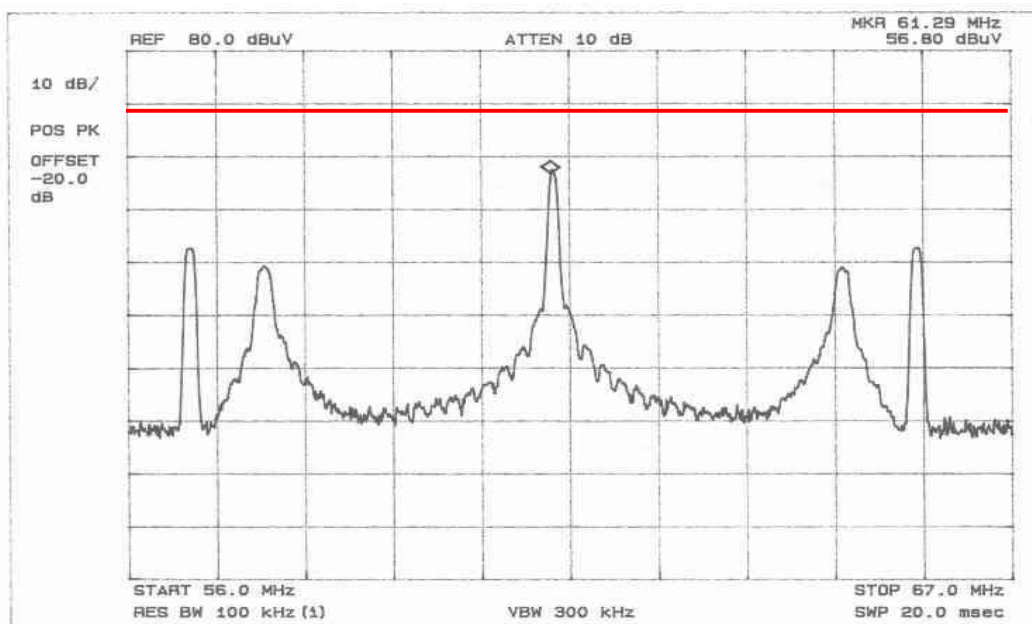
TV CH.	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3 (Pix)	61.28	57.3	69.54	Playback	12.24
3 (Aud)	56.74	42.1	56.53	Playback	14.43
3 (Pix)	61.28	57.3	69.54	Record	12.24
3 (Aud)	65.80	42.0	56.53	Record	14.53
4 (Pix)	67.29	57.2	69.54	Playback	12.34
4 (Aud)	62.74	42.7	56.53	Playback	13.83
4 (Pix)	67.28	55.9	69.54	Record	13.64
4 (Aud)	71.79	42.3	56.53	Record	14.23

Output Signal Tabulated Data with Tuner

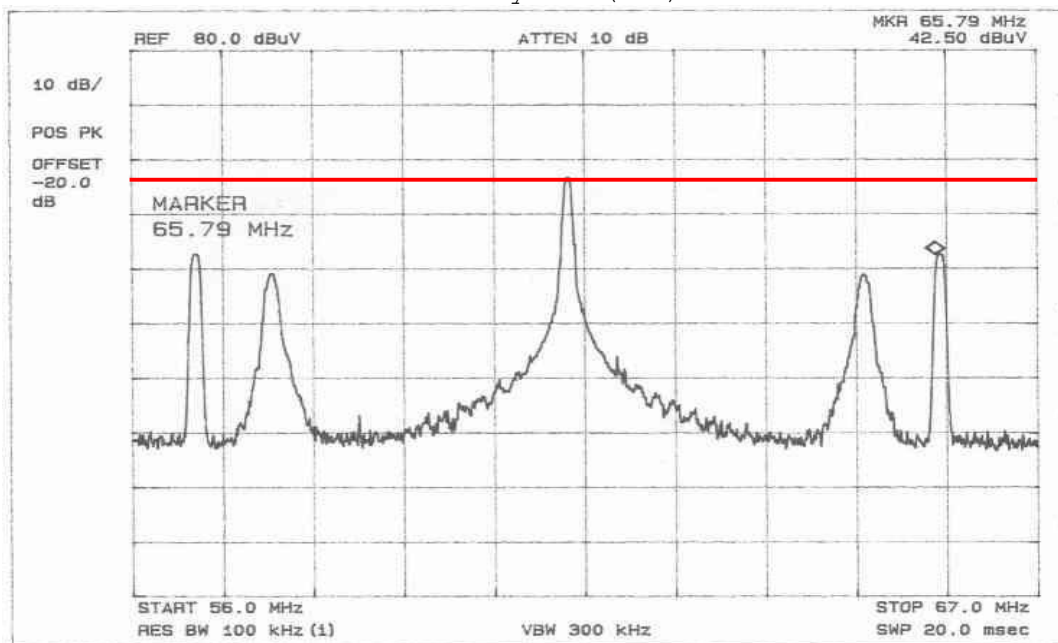
(Samsung Electric Co., Ltd. Model: **TCMN0682PA20B4**)

Output Signal Level Measurements

Tuner: TADM-H101F (LG)



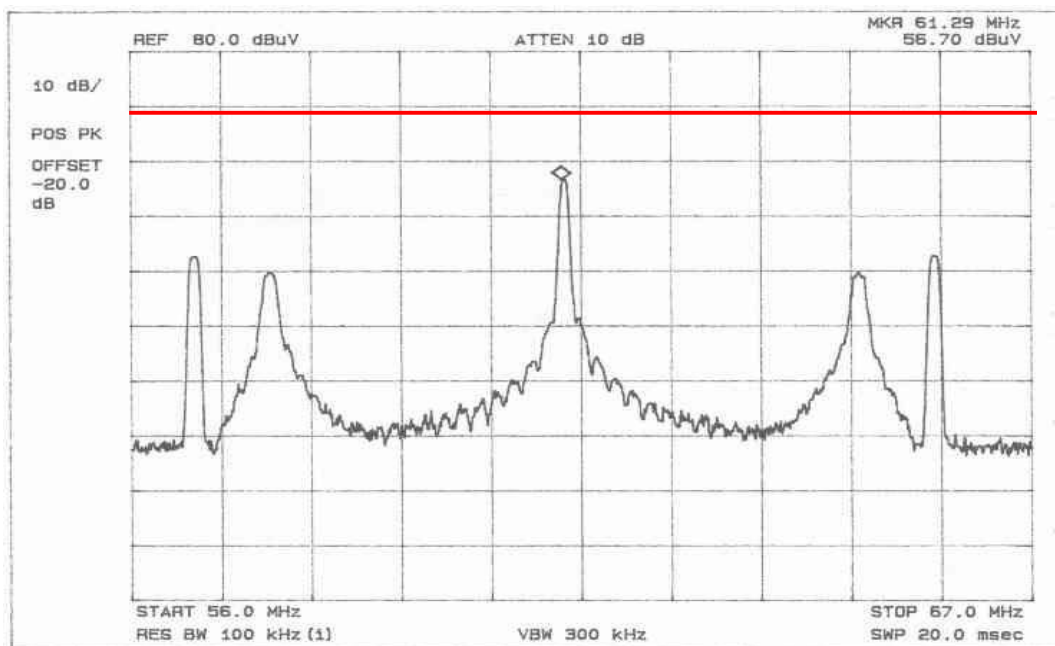
CH3 Playback (Pix)



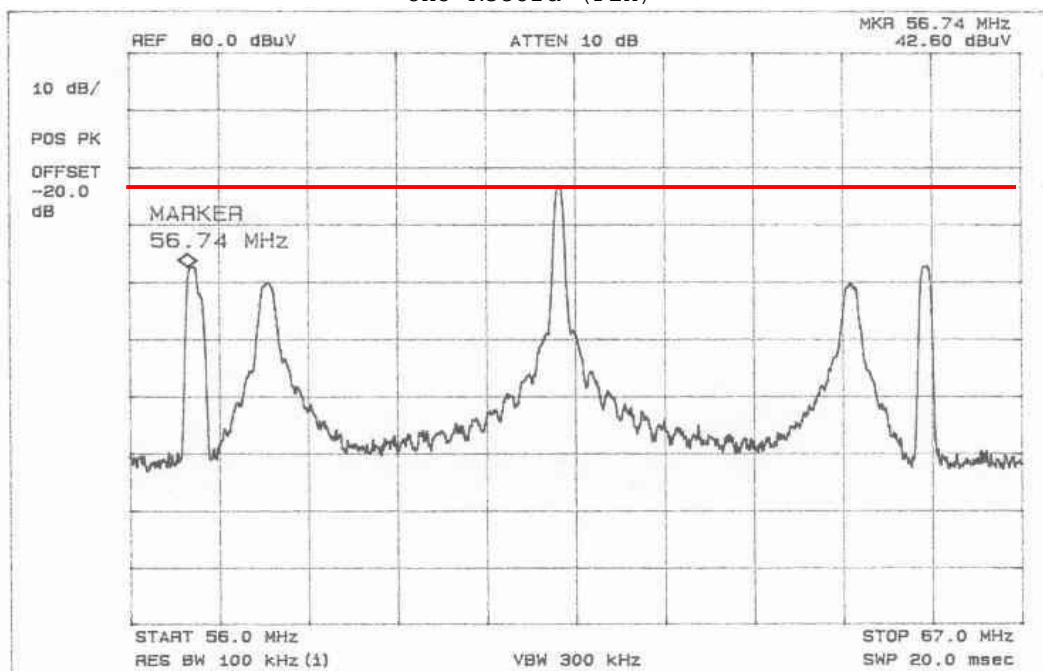
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: TADM-H101F (LG)



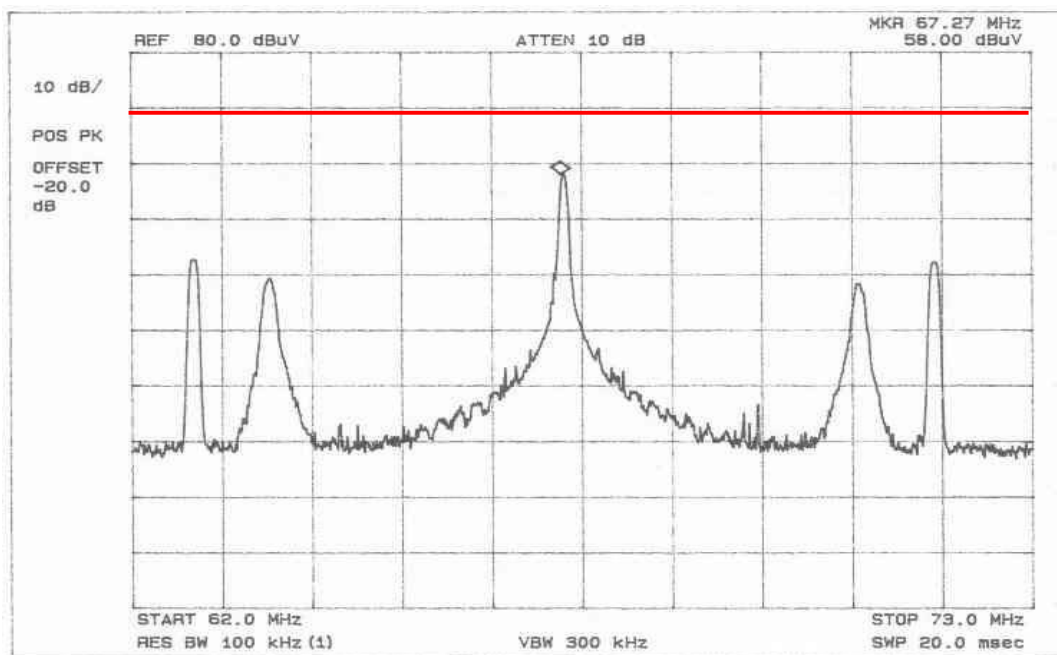
CH3 Record (Pix)



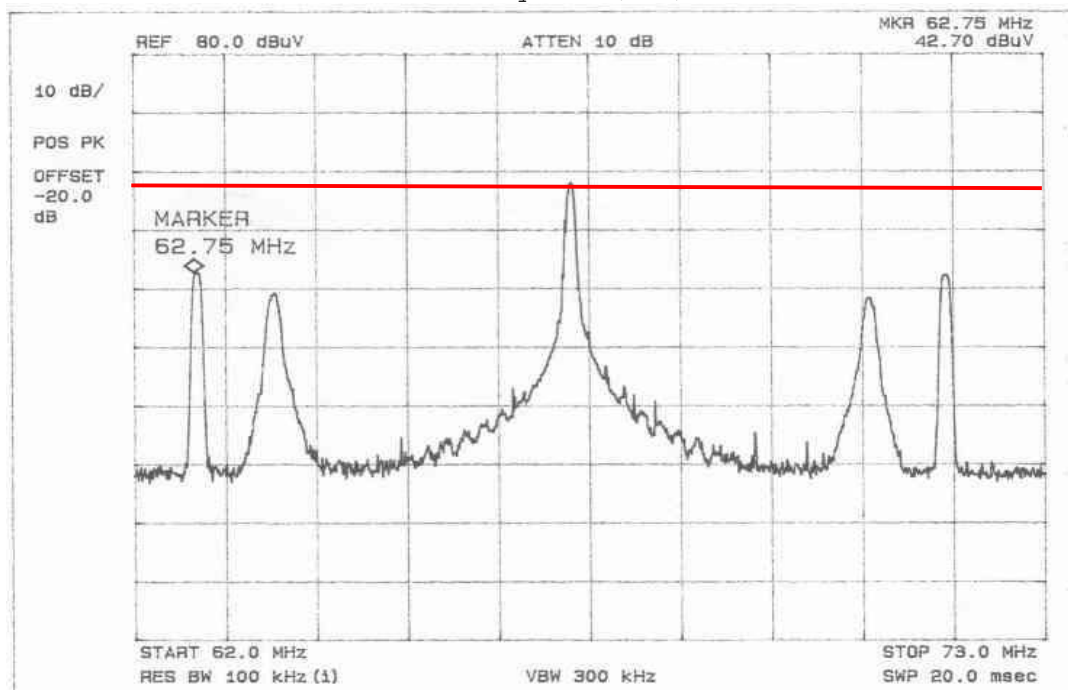
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: TADM-H101F (LG)



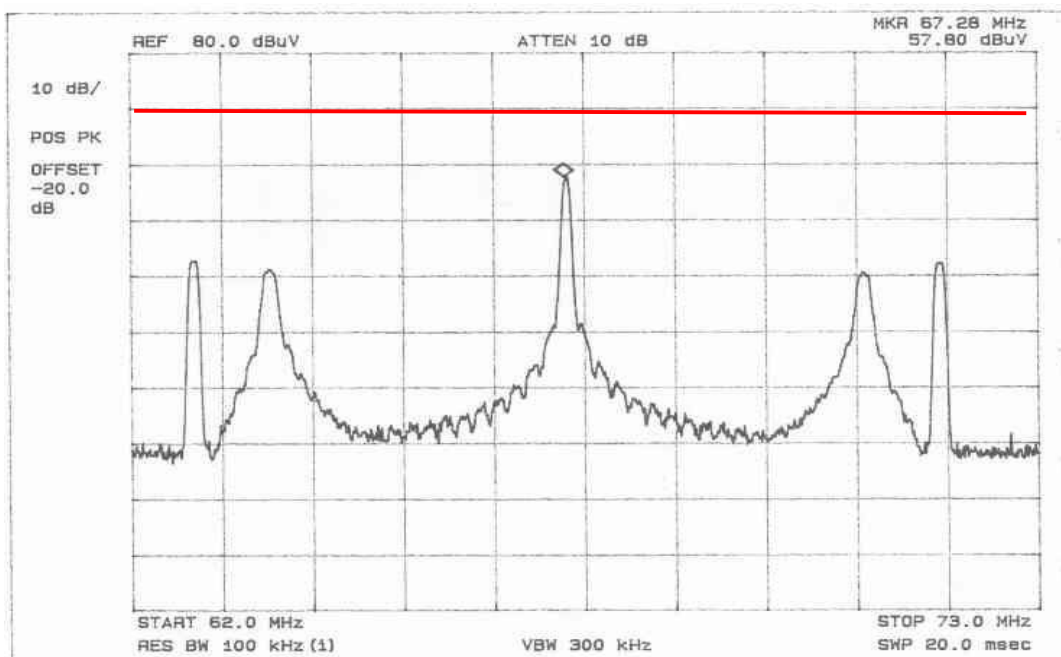
CH4 Playback (Pix)



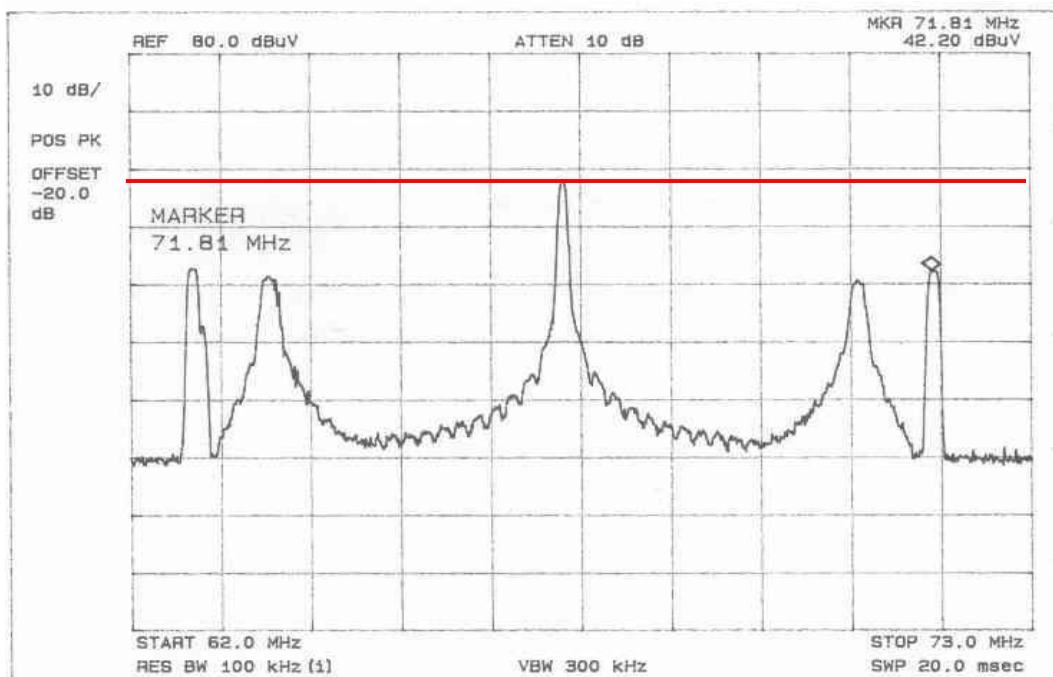
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: TADM-H101F (LG)



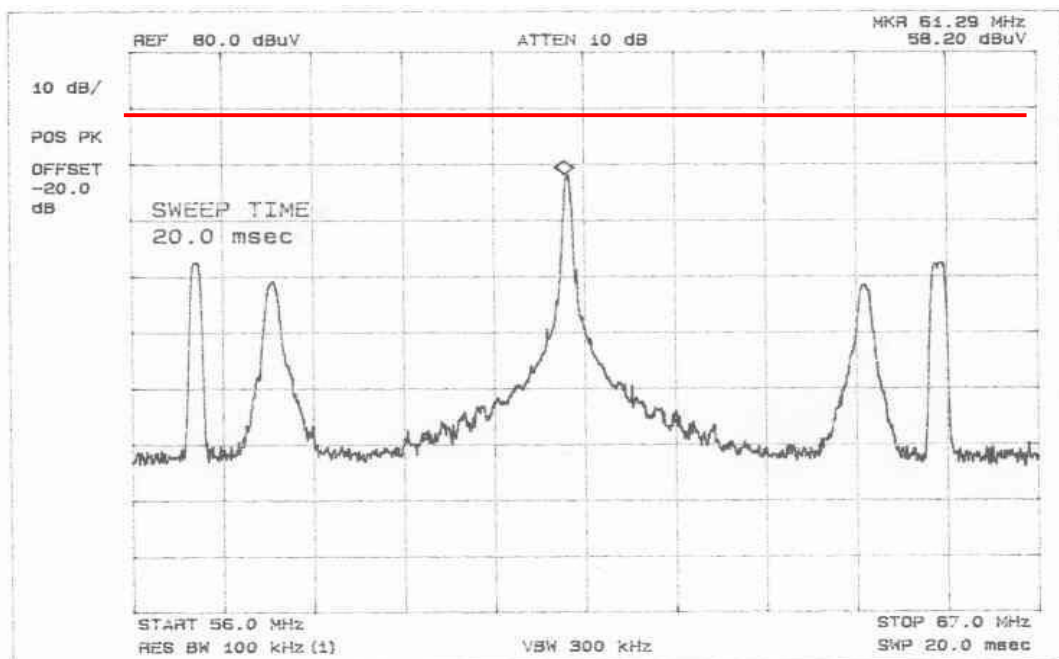
CH4 Record (Pix)



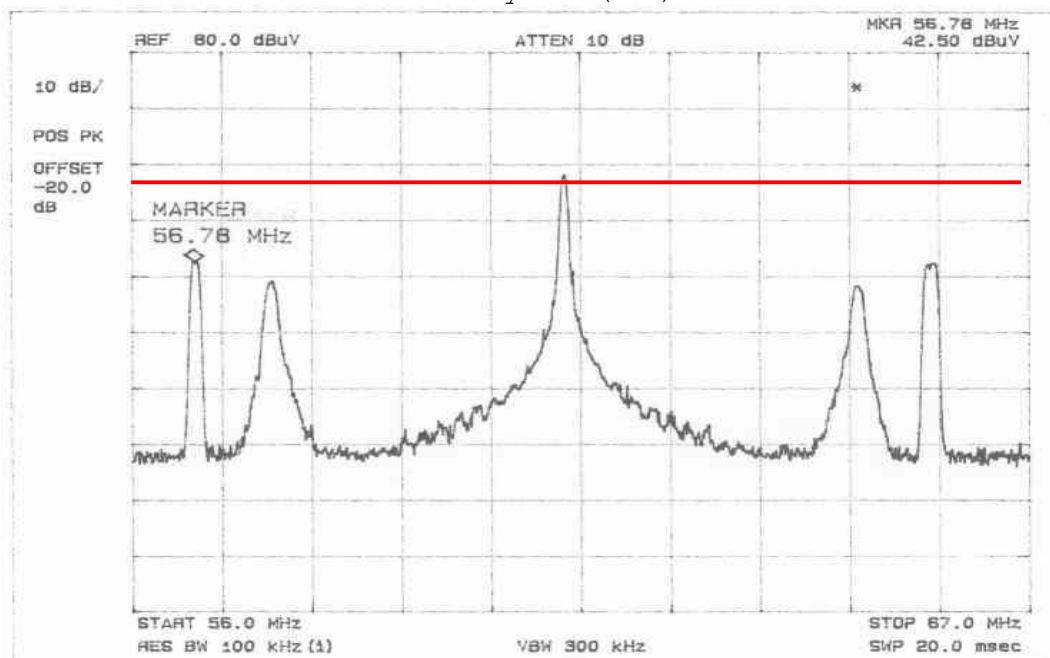
CH4 Record (Aud)

Output Signal Level Measurements

Tuner: TADM-H201F (LG)



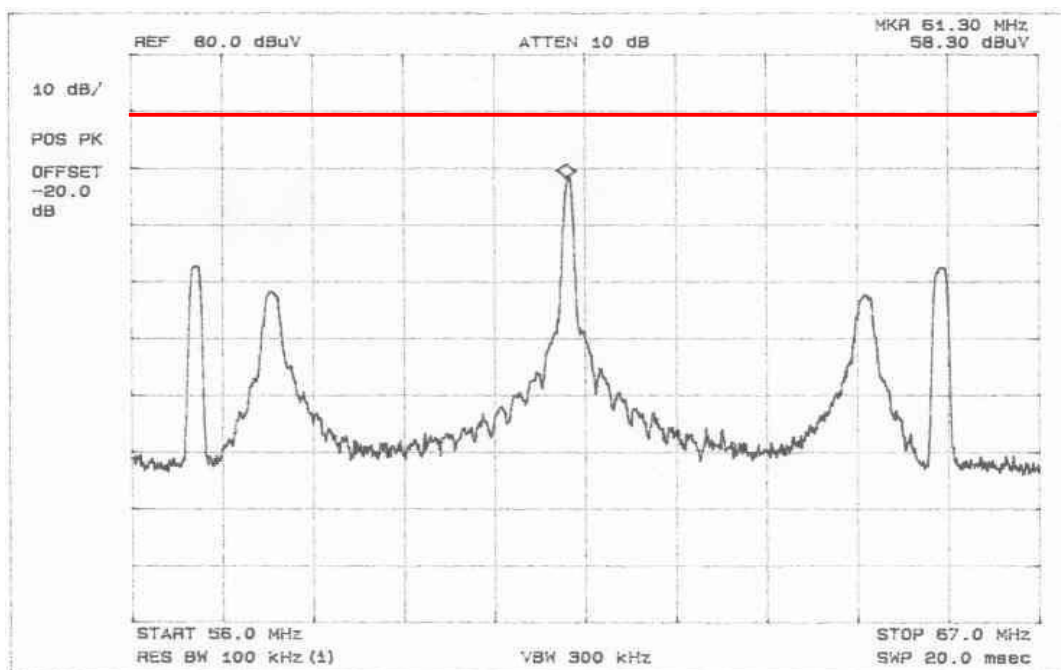
CH3 Playback (Pix)



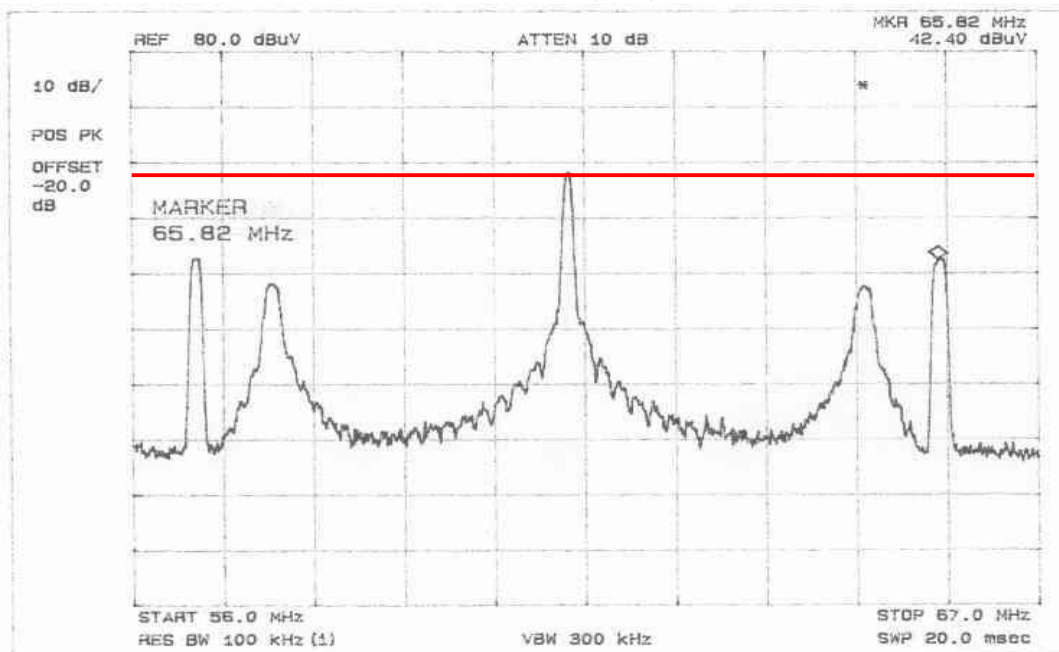
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: TADM-H201F (LG)



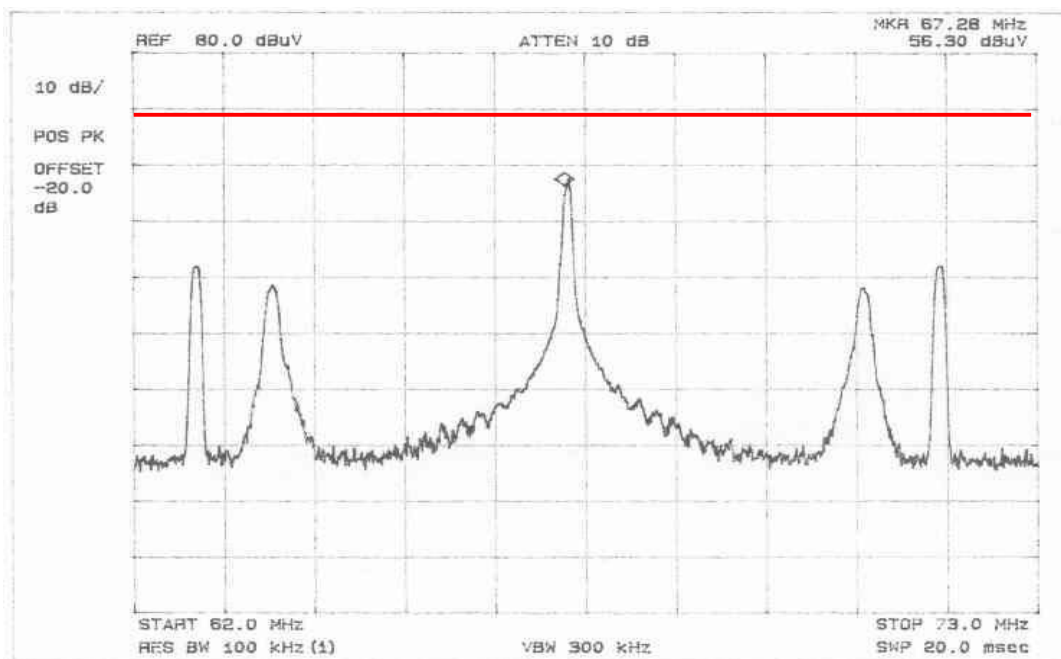
CH3 Record (Pix)



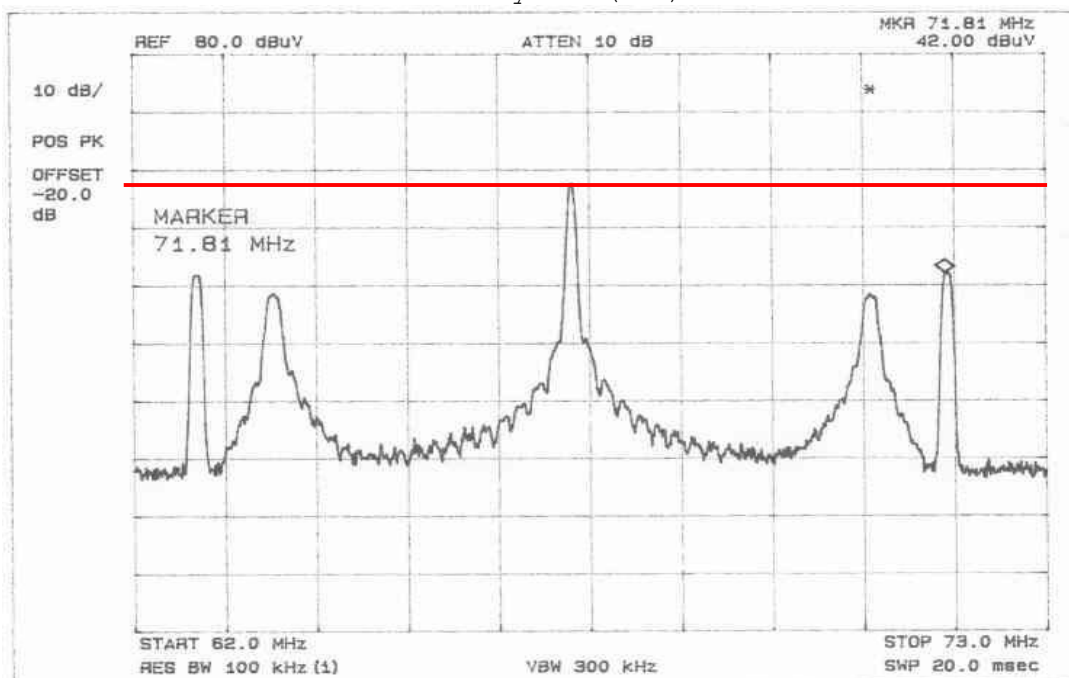
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: TADM-H201F (LG)



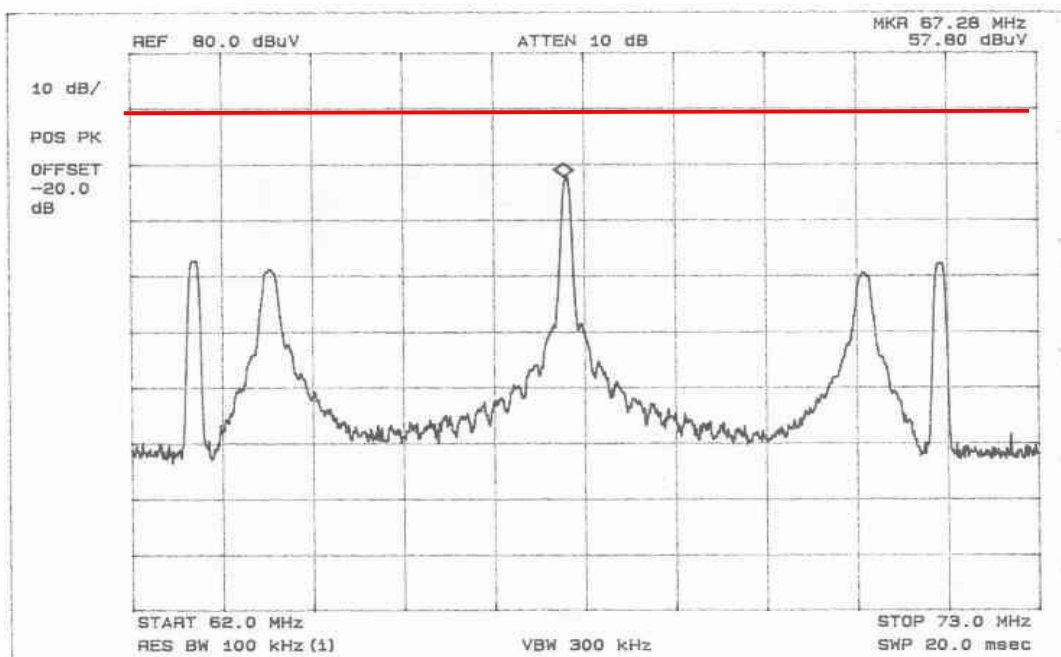
CH4 Playback (Pix)



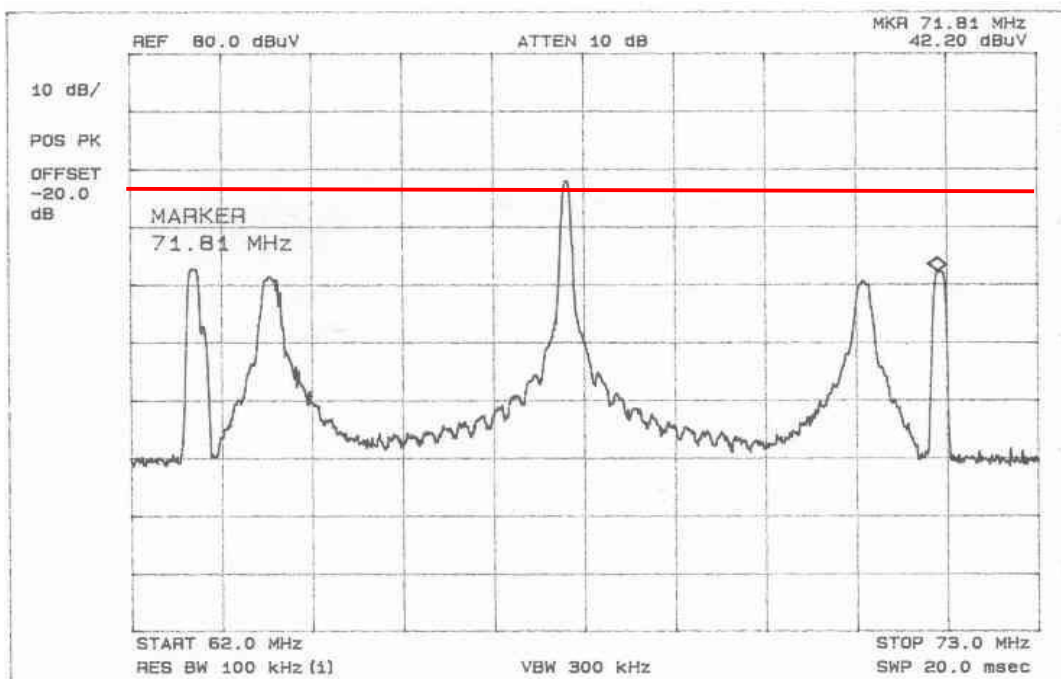
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: TADM-H201F (LG)



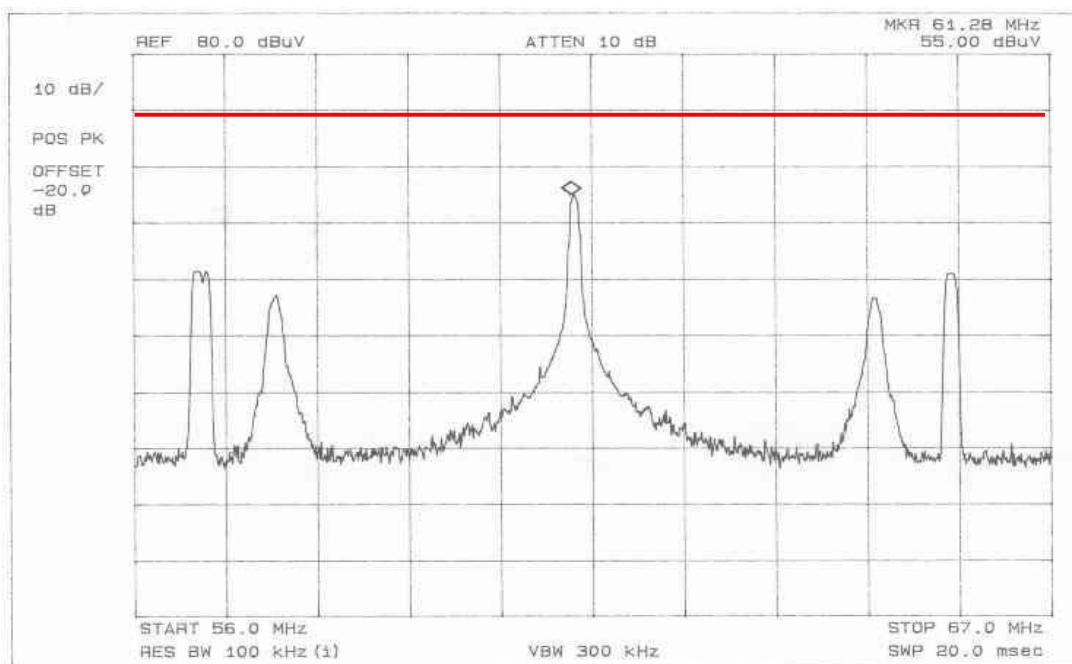
CH4 Record (Pix)



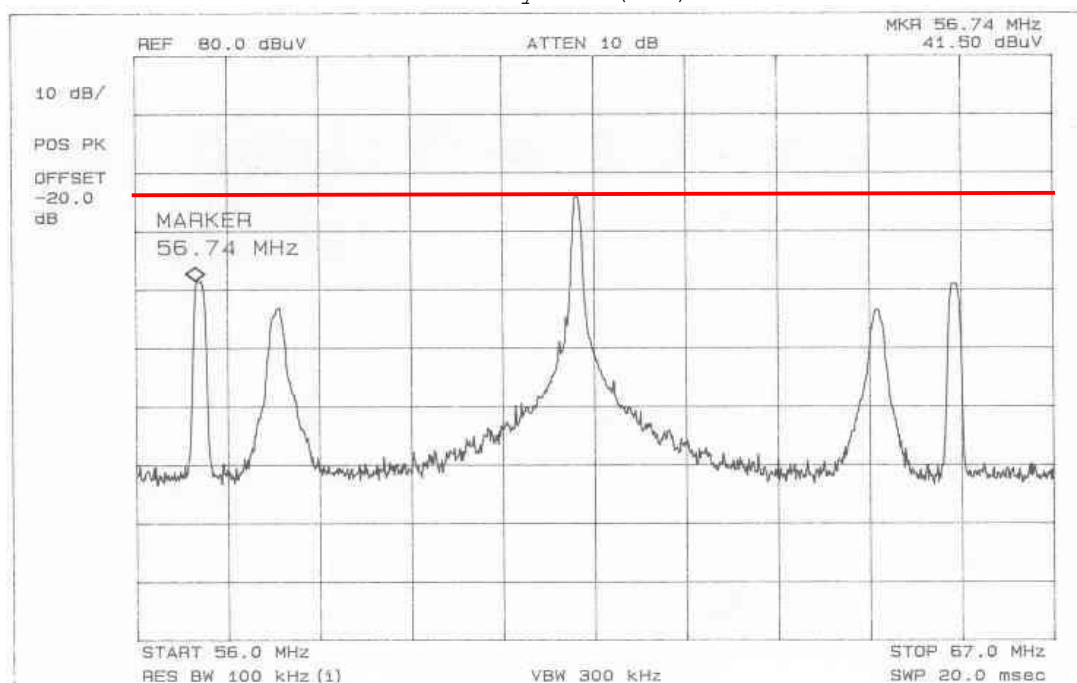
CH4 Record (Aud)

Output Signal Level Measurements

Tuner: TMZH2-030A (ALPS)



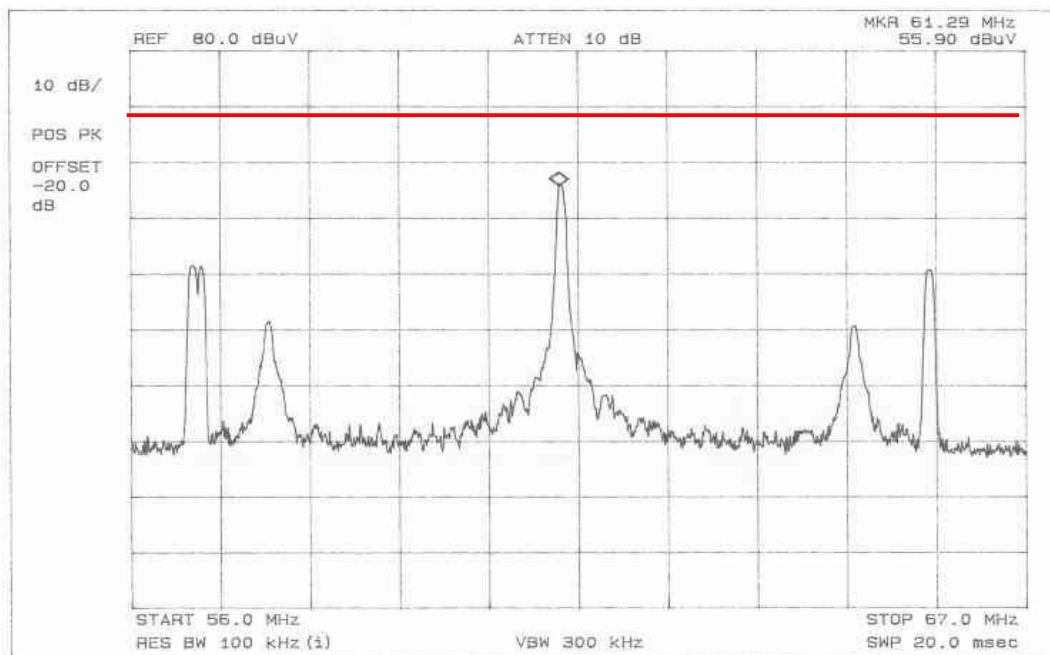
CH3 Playback (Pix)



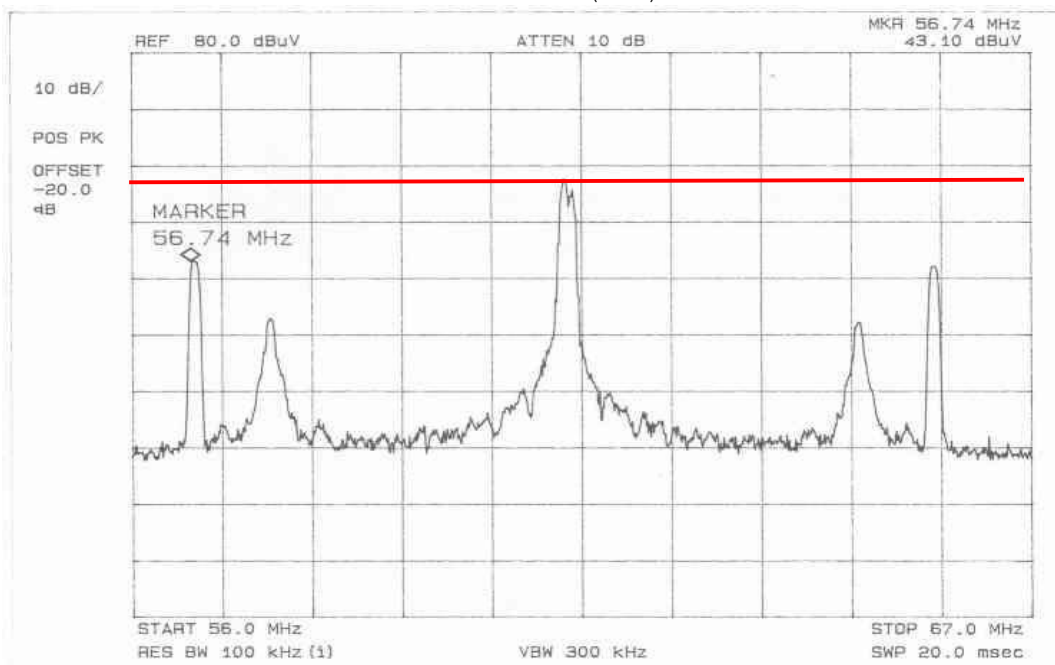
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: TMZH2-030A (ALPS)



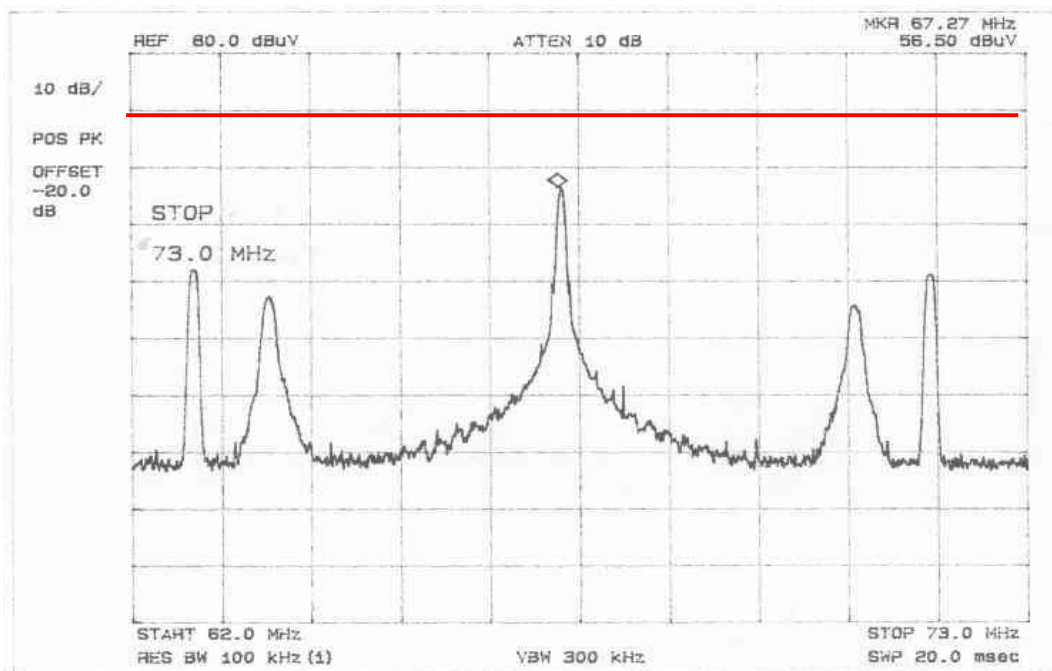
CH3 Record (Pix)



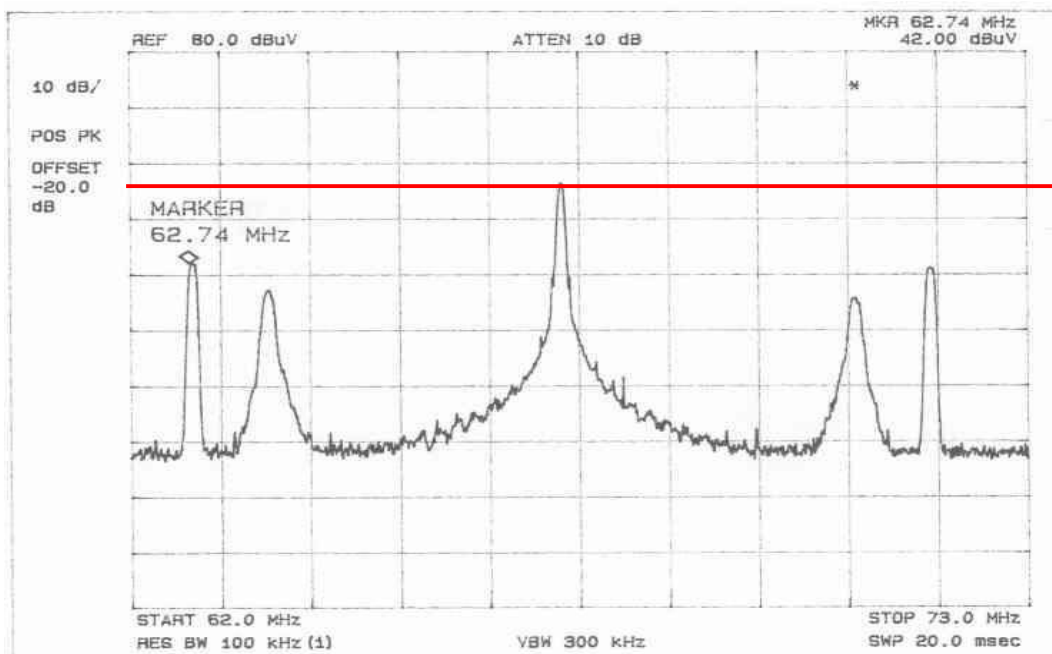
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: TMZH2-030A (ALPS)



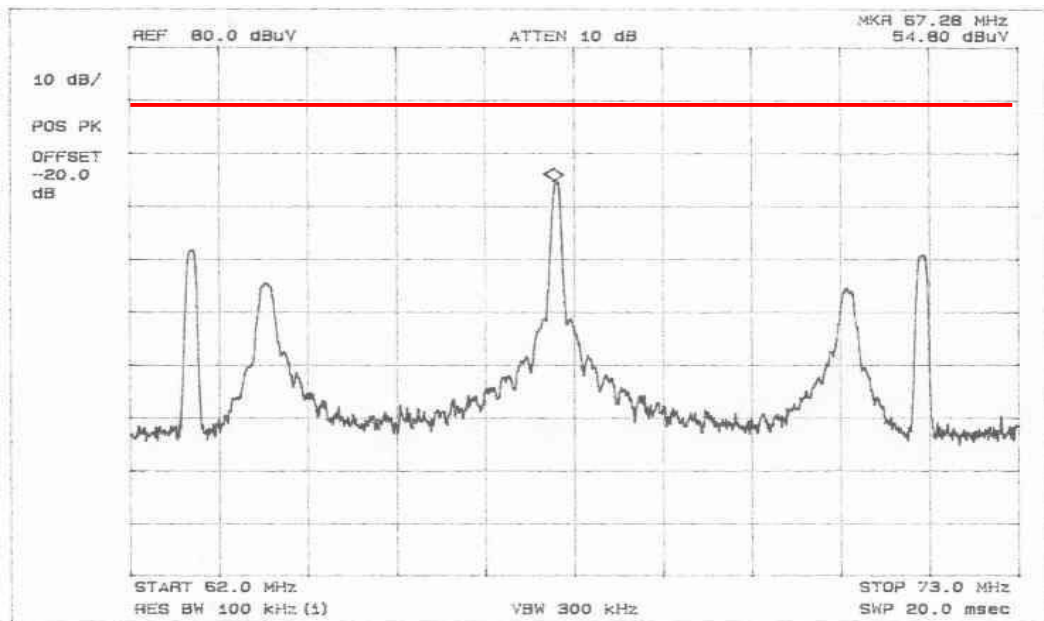
CH4 Playback (Pix)



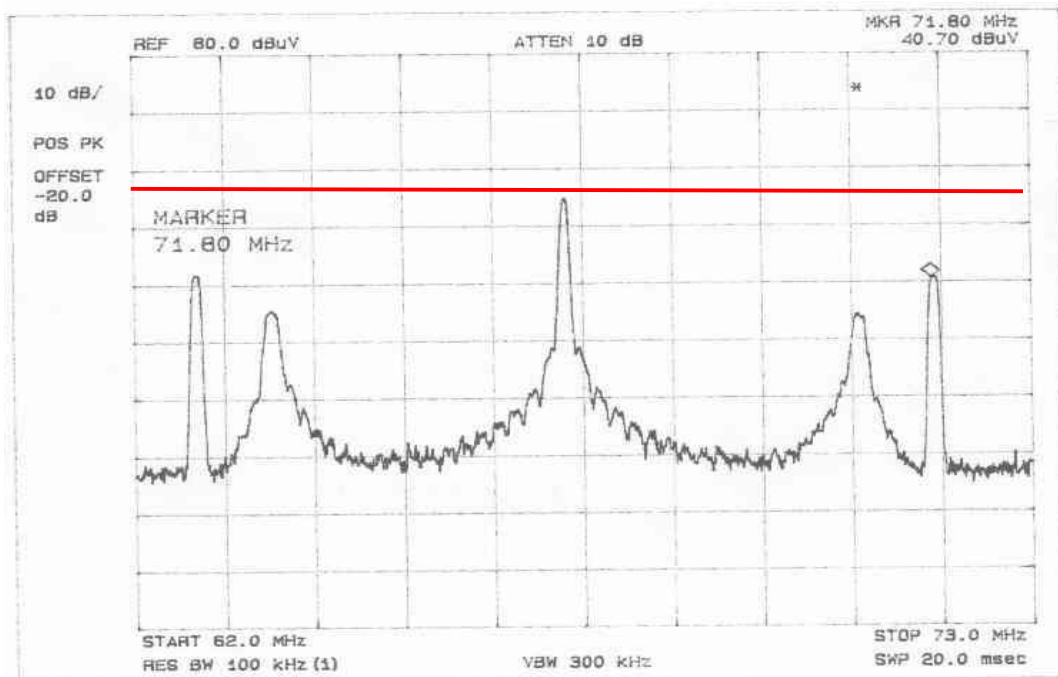
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: TMZH2-030A (ALPS)



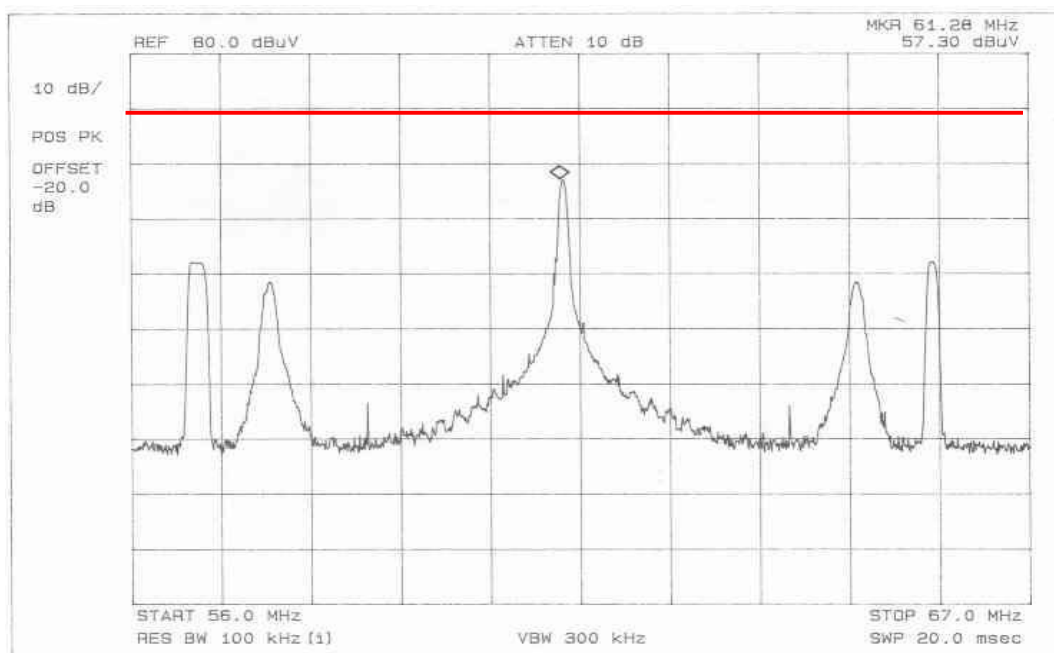
CH4 Record (Pix)



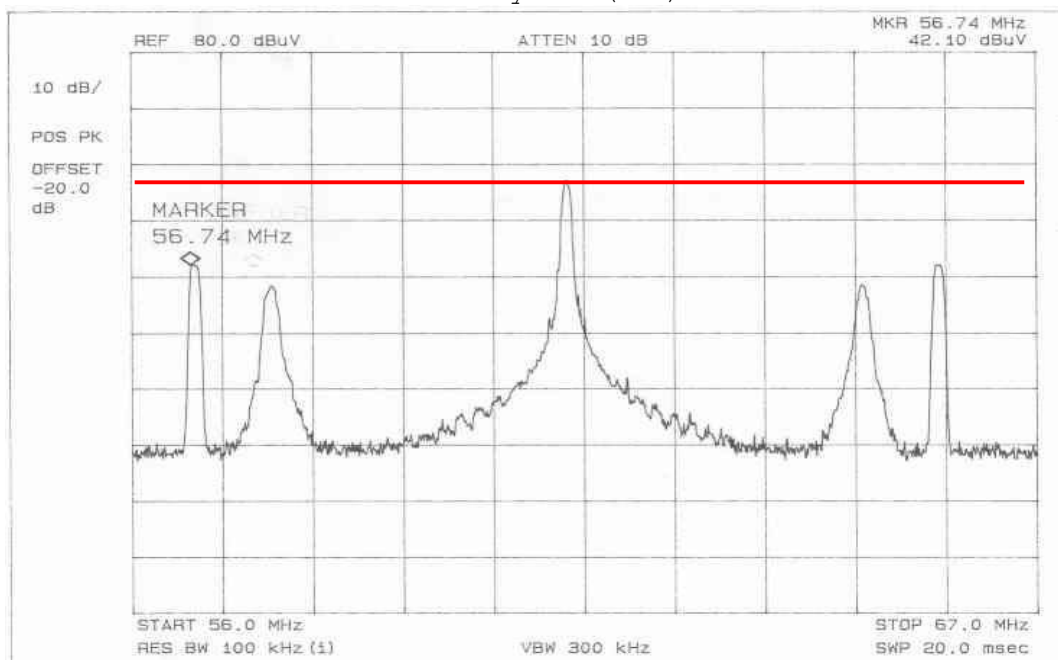
CH4 Record (Aud)

Output Signal Level Measurements

Tuner: TCMN0682PA20B4 (SAMSUNG)



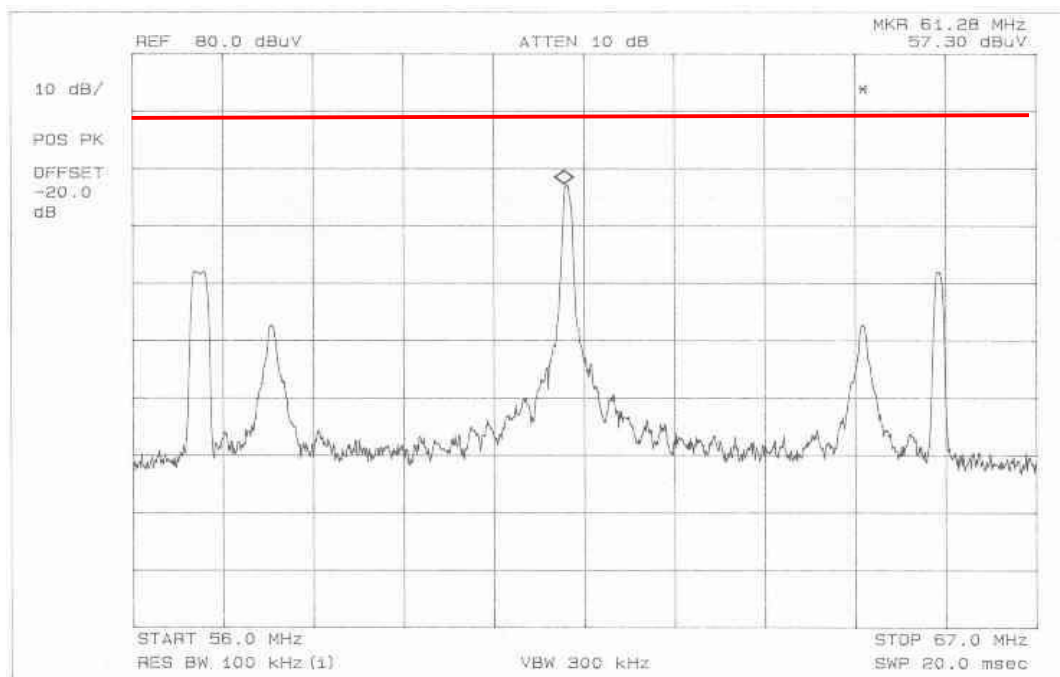
CH3 Playback (Pix)



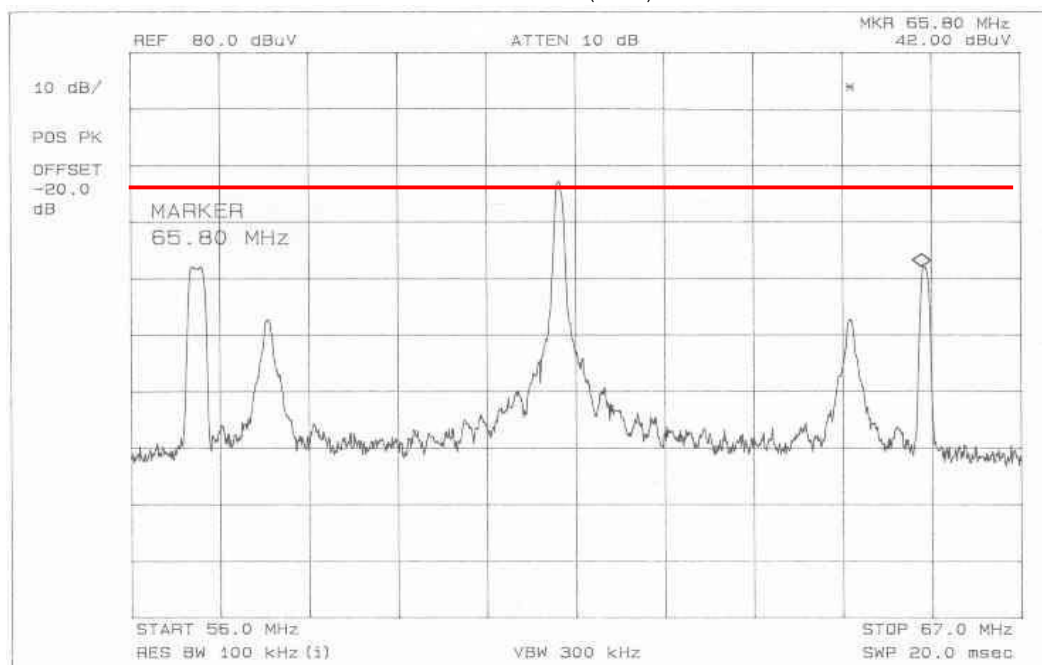
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: TCMN0682PA20B4 (SAMSUNG)



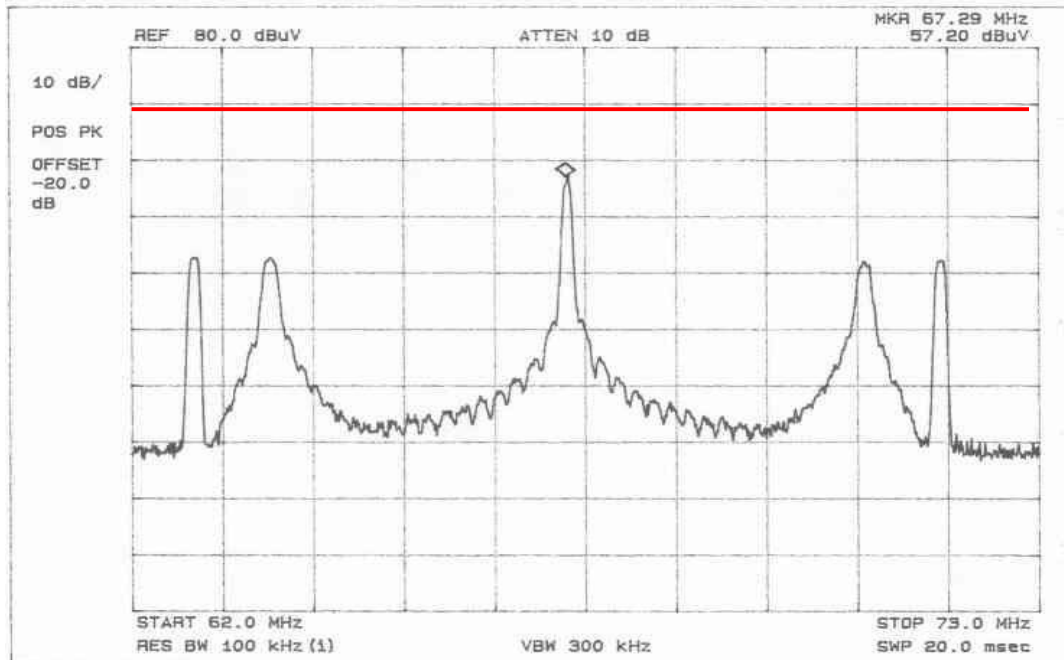
CH3 Record (Pix)



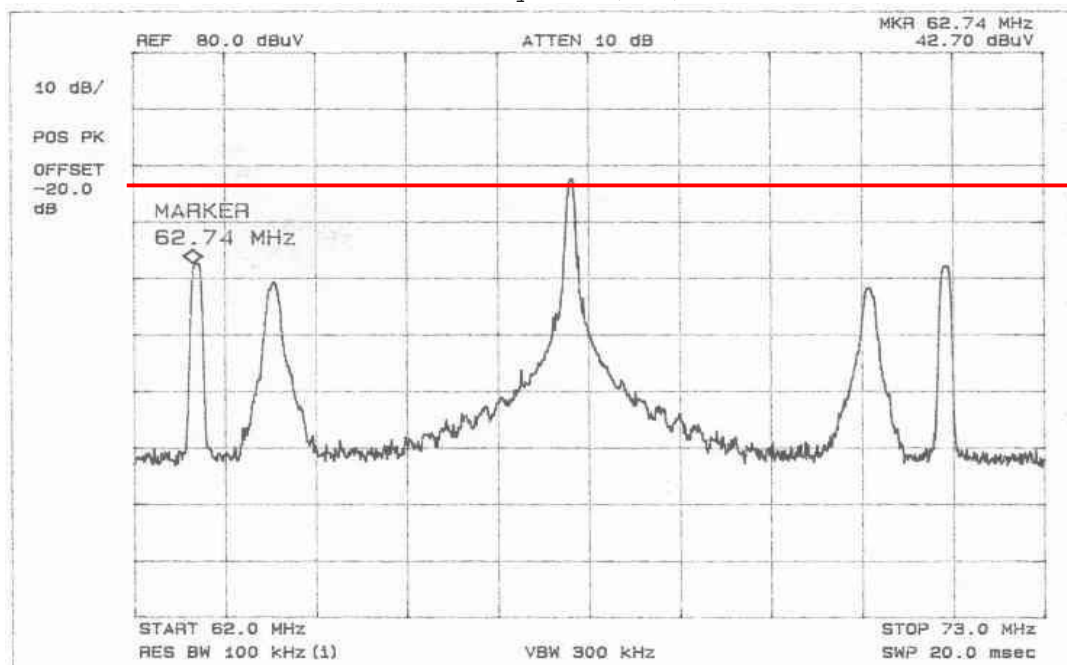
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: TCMN0682PA20B4 (SAMSUNG)



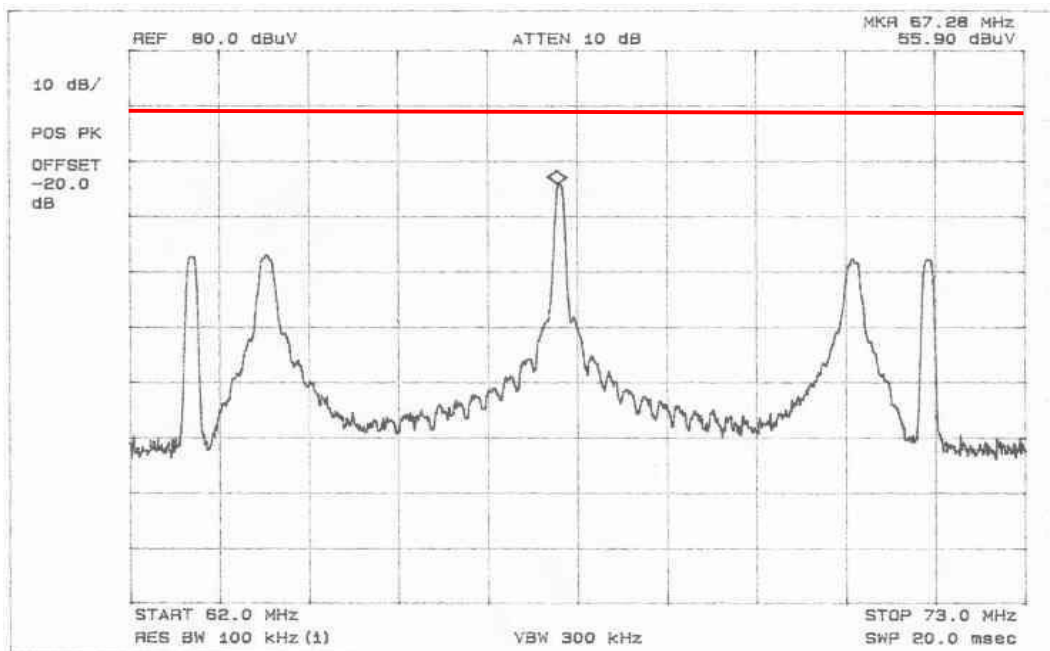
CH4 Playback (Pix)



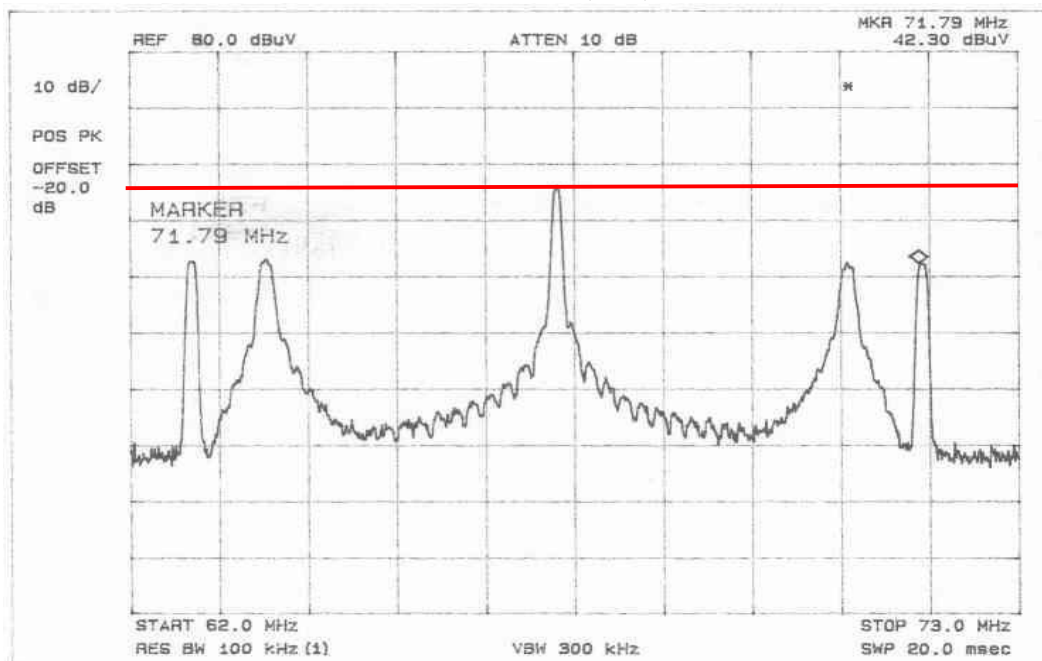
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: TCMN0682PA20B4 (SAMSUNG)



CH4 Record (Pix)



TEST CONDITIONS AND DATA

Output Terminal Conducted Spurious Emission

◆ Test Equipment Used

Model Name	Manufacturer	Description
8566B	Hewlett Packard	Spectrum Analyzer
85685A	Hewlett Packard	RF preselector
RAM	Rohde & Schwarz	Matching Pad
PM5515	Philips	Pattern Generator

◆ Auxiliary Equipment Used

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

◆ Accessories including cables

Name	Length	Port and Descriptions
RCA	1.5m	Video / Audio

◆ Environmental Conditions

Temperature	18°C
Humidity	47 %
Atmosphere pressure	1002mbar

◆ Test Program Playback and record mode

◆ Test Area Compact Chamber

Note : Limit Calculation (Sec 15.115(b) (2) (ii))

$$10.95 \times 75^{1/2} \mu V = 95 \mu V = 39.55 \text{ dBuV}$$

$$\text{plus } 30\text{dB} = 69.55\text{dBuV} = -37.45\text{dBm}$$

Above plus 30dB means the test result(Plots) include the modulated video and audio signal. You can see there was no significant emission more than 39.55dBuV in following test plots except the modulated signals.

The test were performed with color bar as VITS. The VITS signals, 1V and 5V peak-to-peak, were used for channel 3 and channel 4 with alternate. The above test program were employed for each channel.

Output Terminal Conducted Spurious Emission

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.00	55.8	69.55	Playback	13.75
3	61.00	56.3	69.55	Record	13.25
4	66.90	55.8	69.55	Playback	13.75
4	66.90	55.7	69.55	Record	13.85

Spurious Emission Tabulated Data with Tuner

(LG Innotek Co., Ltd. Model: **TADM-H101F**)

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.00	55.8	69.55	Playback	13.75
3	61.00	56.3	69.55	Record	13.25
4	66.90	56.3	69.55	Playback	13.25
4	66.90	56.3	69.55	Record	13.25

Spurious Emission Tabulated Data with Tuner

(LG Innotek Co., Ltd. Model: **TADM-201F**)

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.00	54.9	69.55	Playback	14.65
3	61.00	55.1	69.55	Record	14.45
4	66.90	54.7	69.55	Playback	14.85
4	66.90	54.7	69.55	Record	14.85

Spurious Emission Tabulated Data with Tuner

(Korea Alps Model: **TMZH2-030A**)

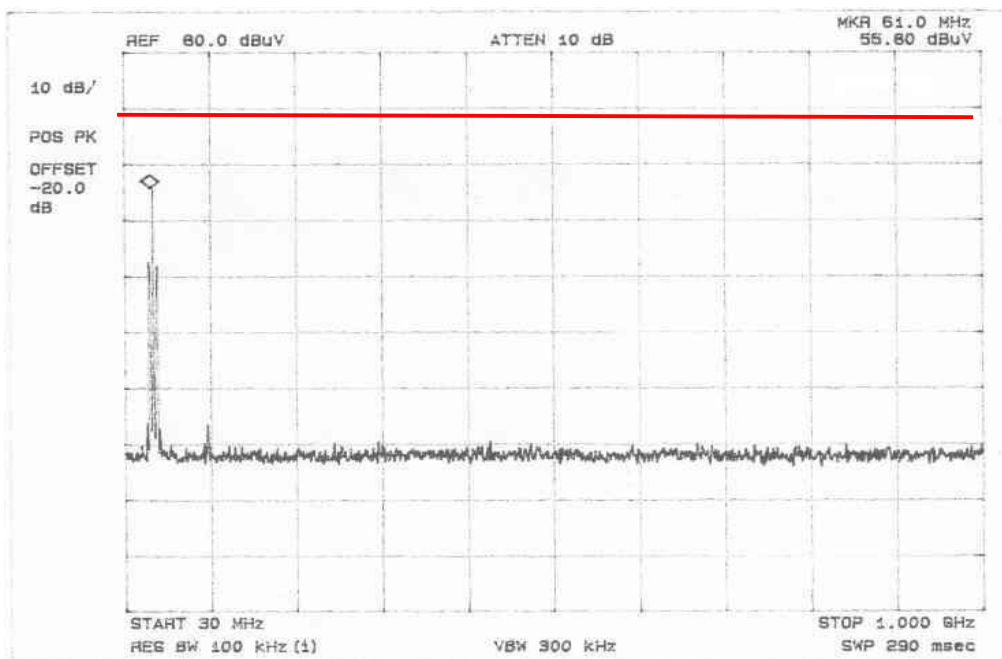
TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.00	56.4	69.55	Playback	13.15
3	61.00	55.5	69.55	Record	14.05
4	66.90	54.7	69.55	Playback	14.85
4	66.90	55.0	69.55	Record	14.55

Spurious Emission Tabulated Data with Tuner

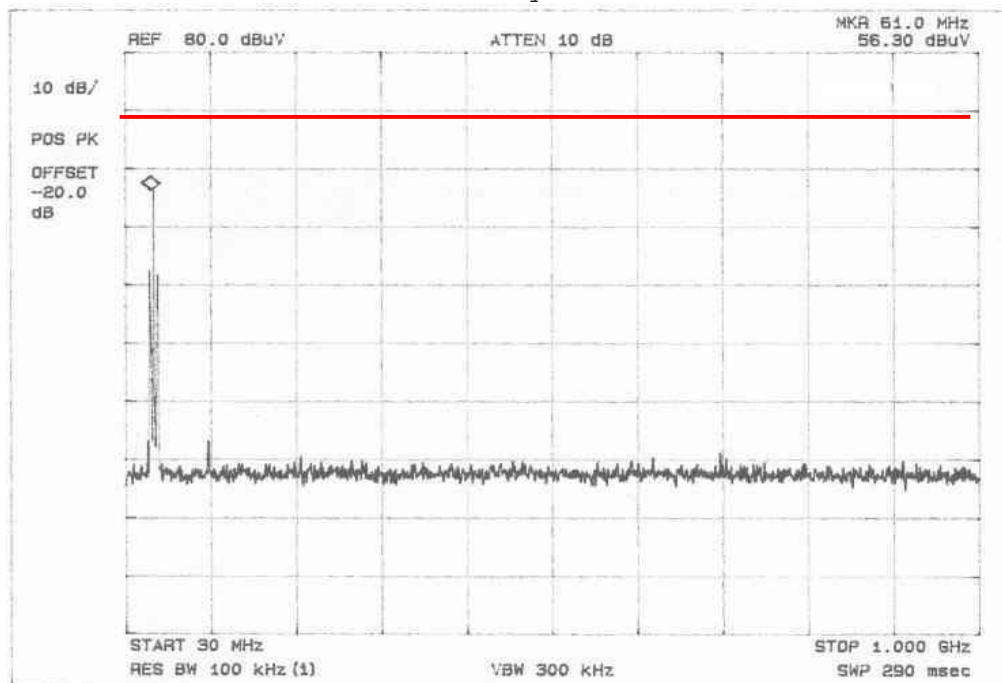
(Samsung Electronic Co., Ltd. Model: **TCMN0682PA20B4**)

Output Terminal Conducted Spurious Emission

Tuner: TADM-H101F (LG)



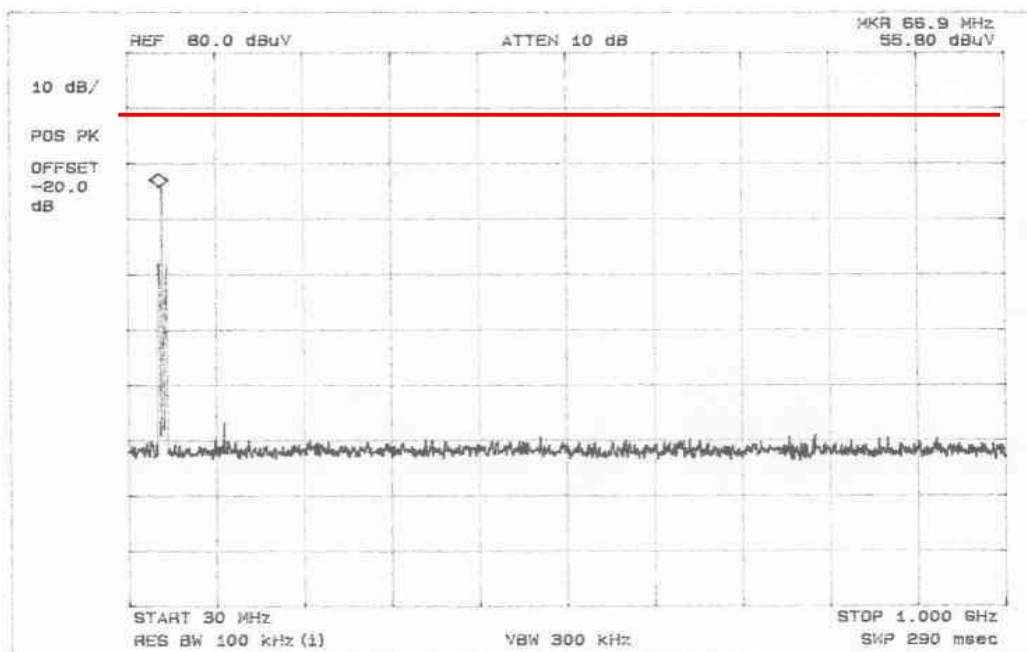
CH3 Playback



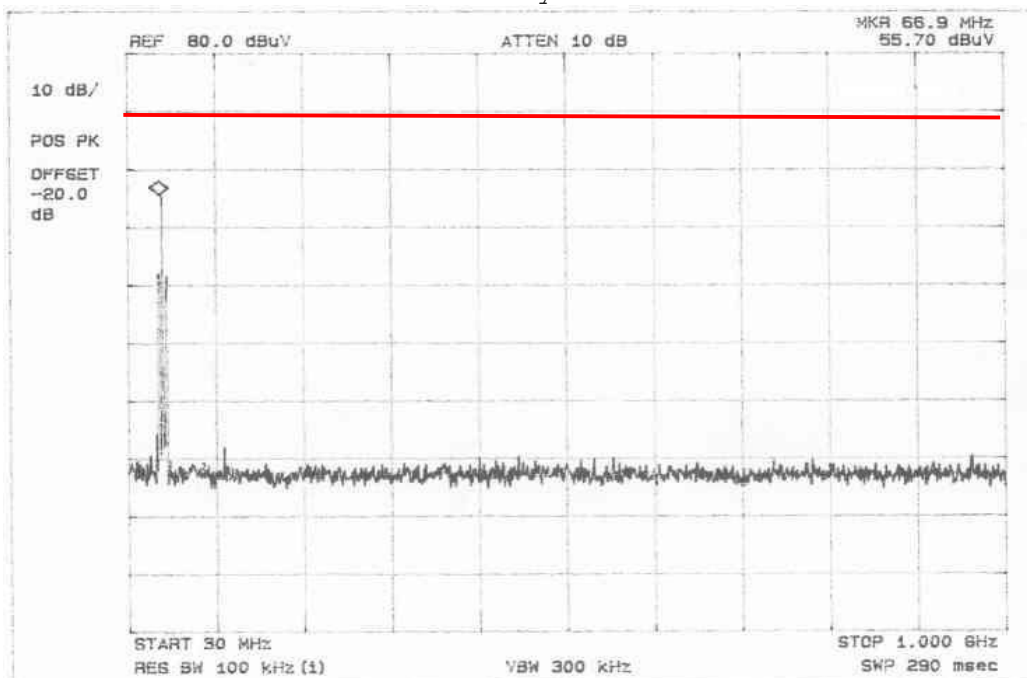
CH3 Record

Output Terminal Conducted Spurious Emission

Tuner: TADM-H101F (LG)



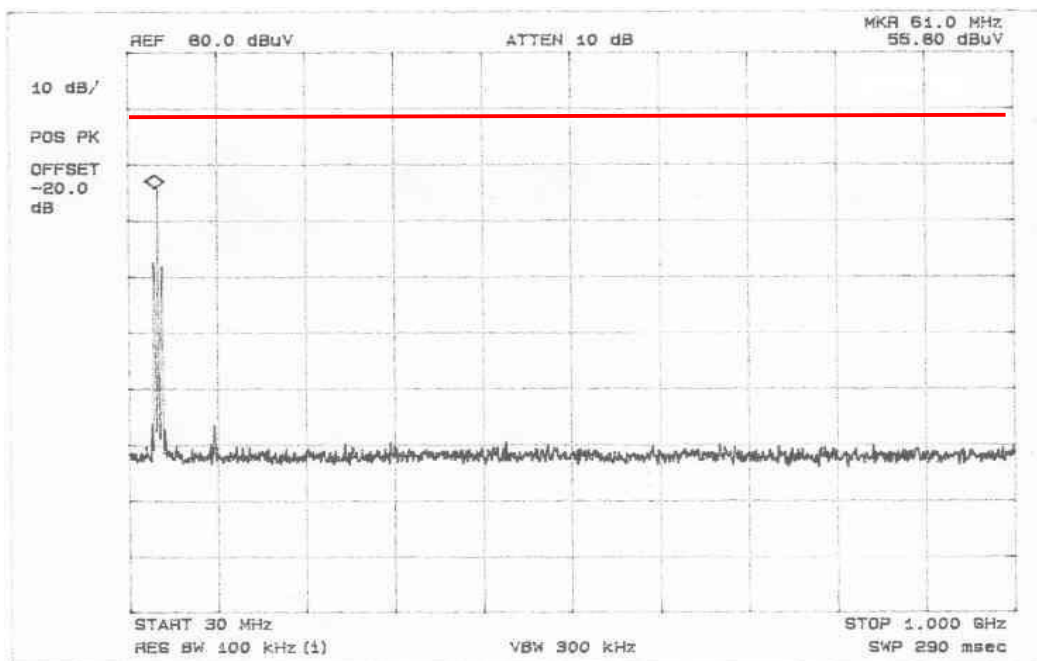
CH4 Playback



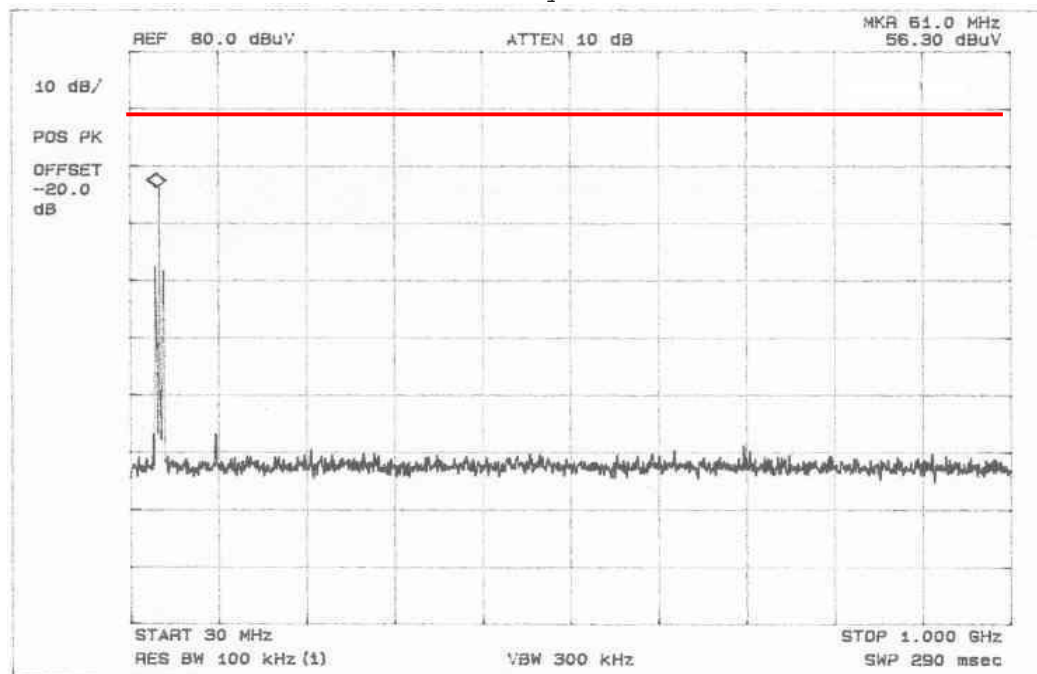
CH4 Record

Output Terminal Conducted Spurious Emission

Tuner: TADM-H201F (LG)



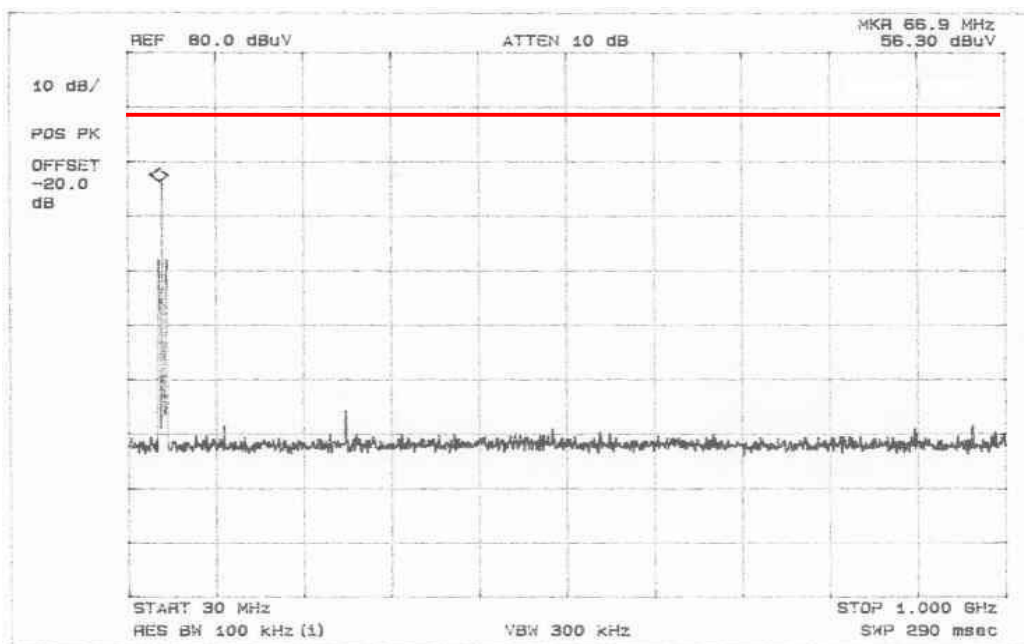
CH3 Playback



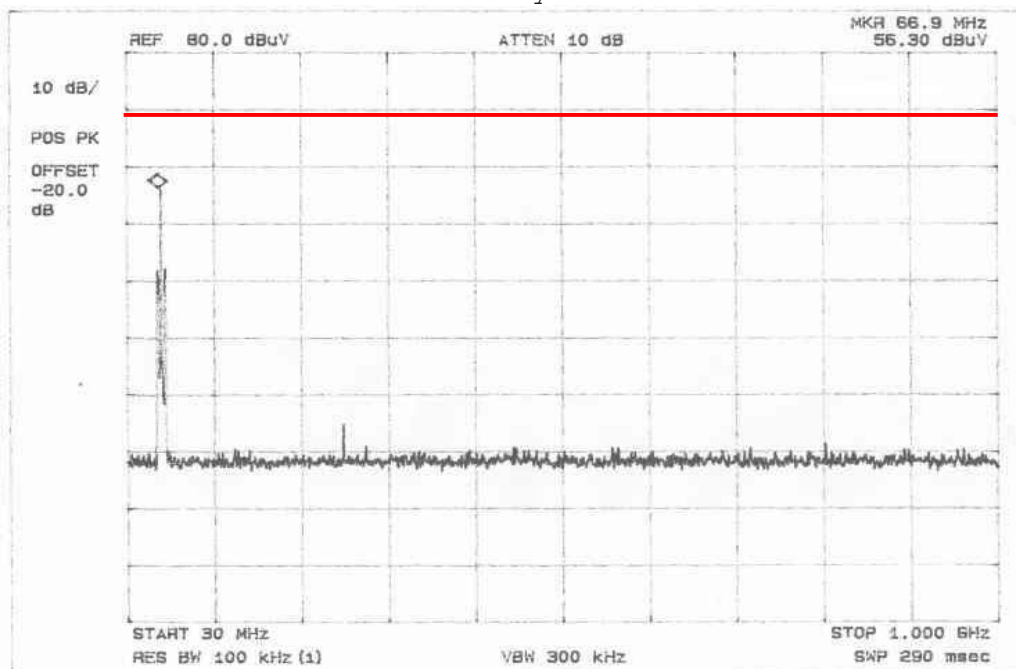
CH3 Record

Output Terminal Conducted Spurious Emission

Tuner: TADM-H201F (LG)



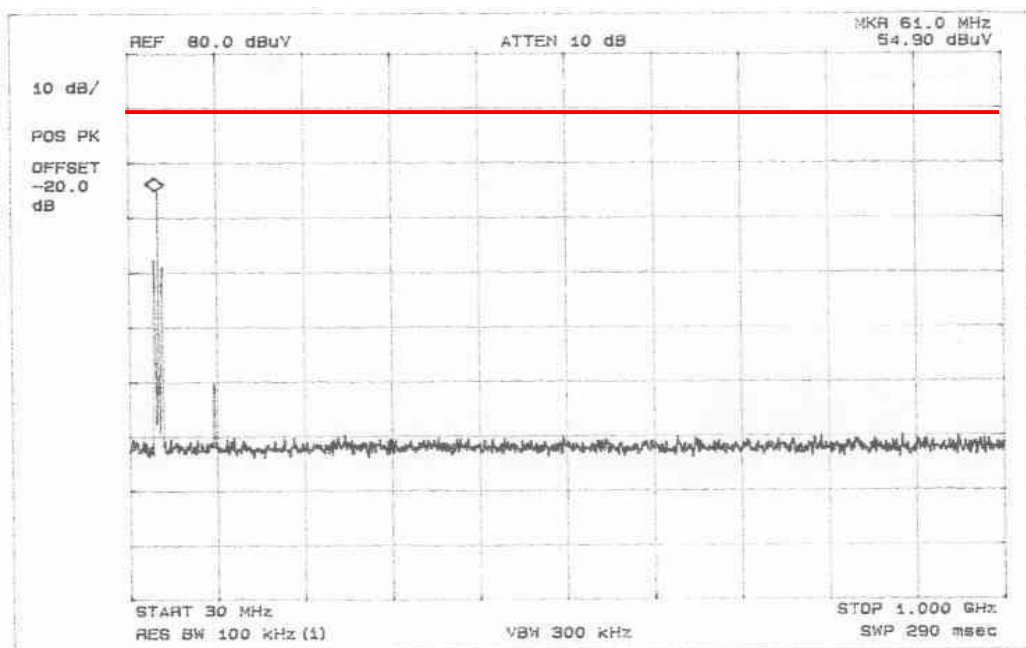
CH4 Playback



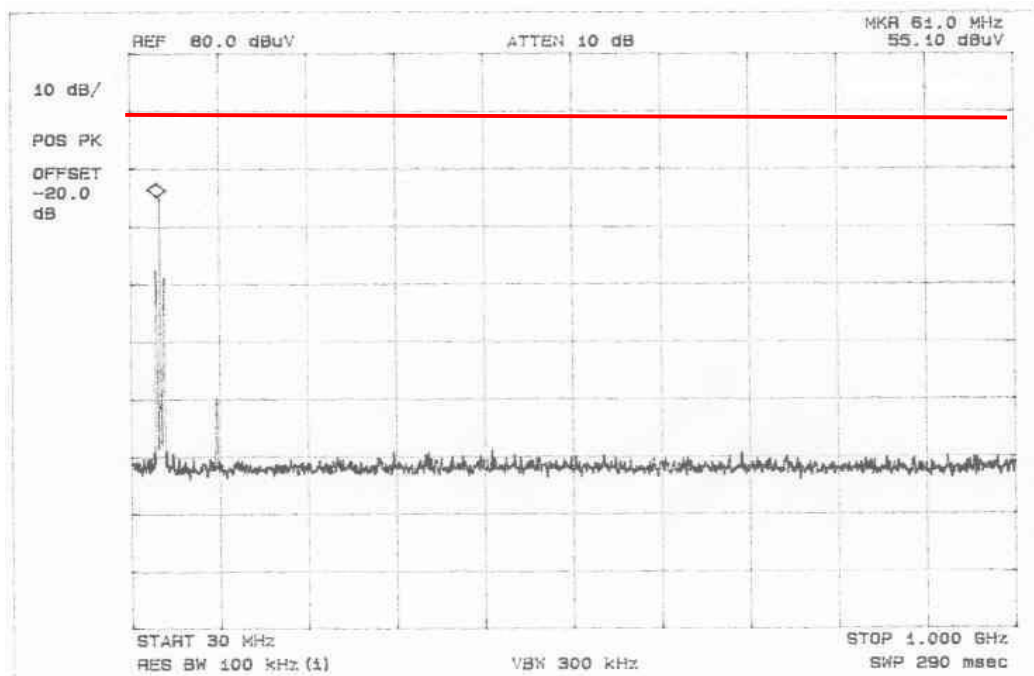
CH4 Record

Output Terminal Conducted Spurious Emission

Tuner: TMZH2-030A (ALPS)



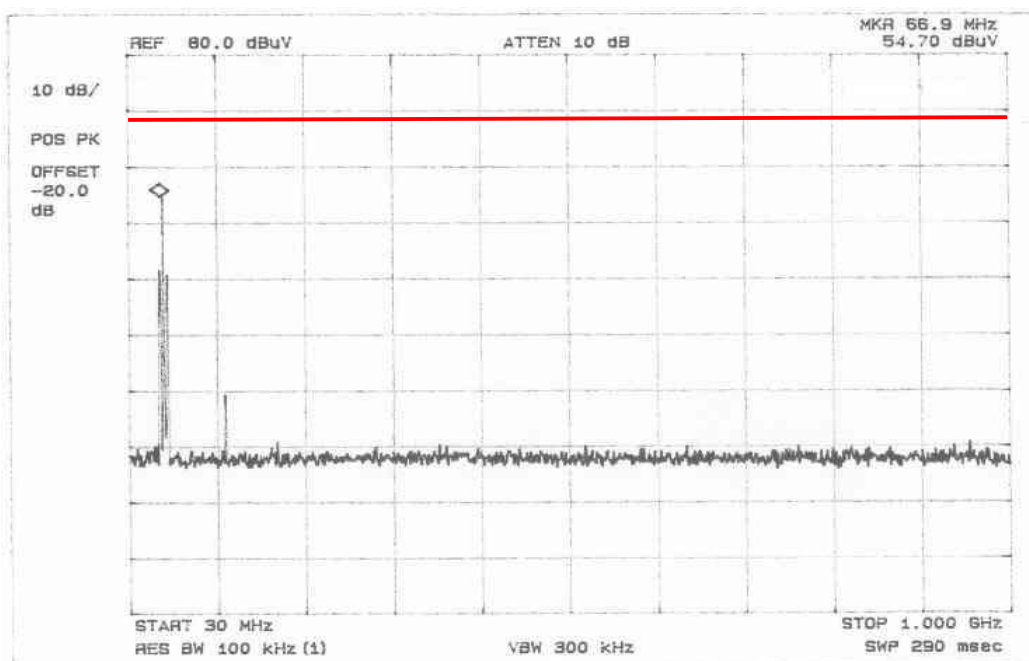
CH3 Playback



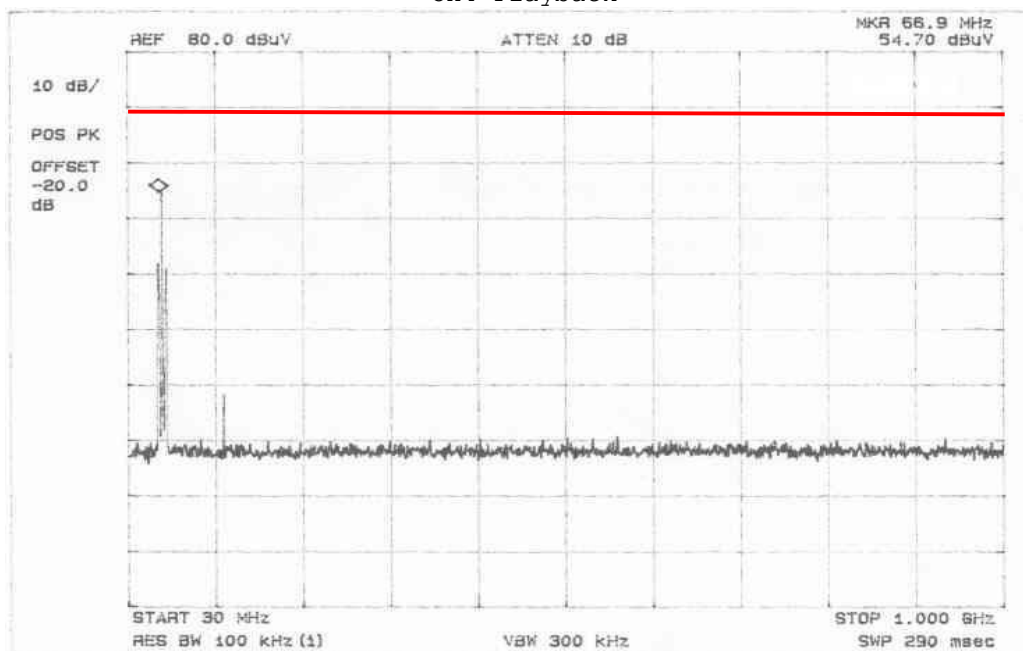
CH3 Record

Output Terminal Conducted Spurious Emission

Tuner: TMZH2-030A (ALPS)



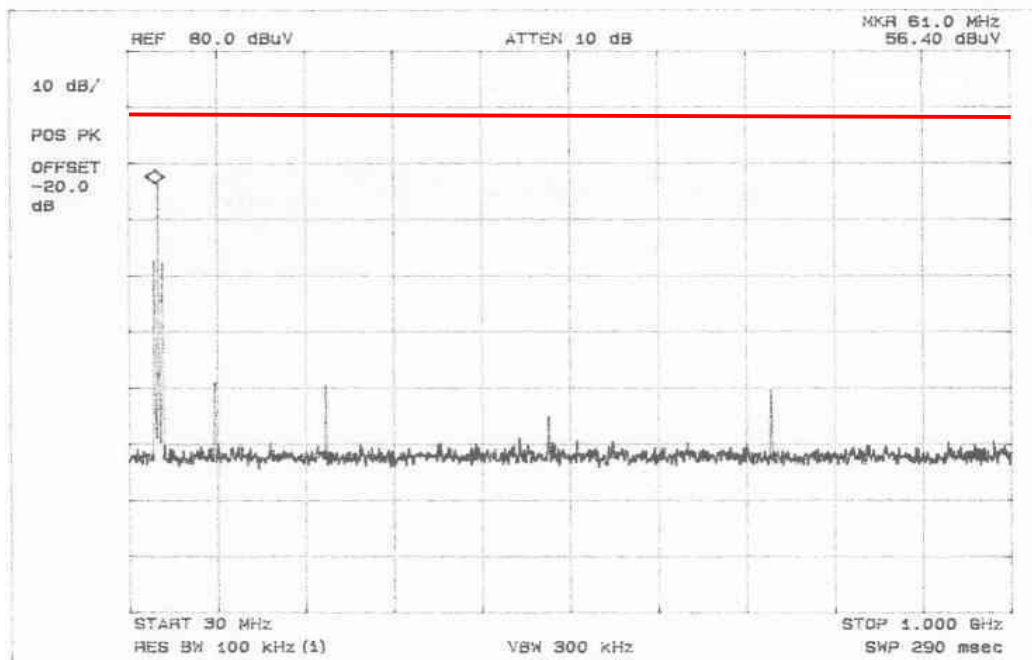
CH4 Playback



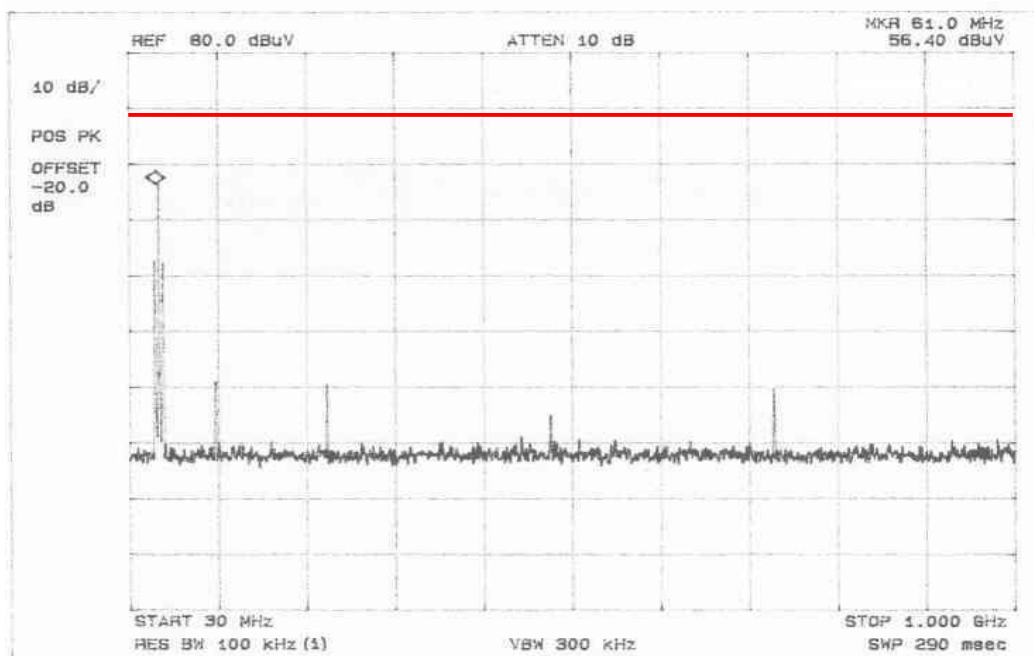
CH4 Record

Output Terminal Conducted Spurious Emission

Tuner: TCMN0682PA20B4 (SAMSUNG)



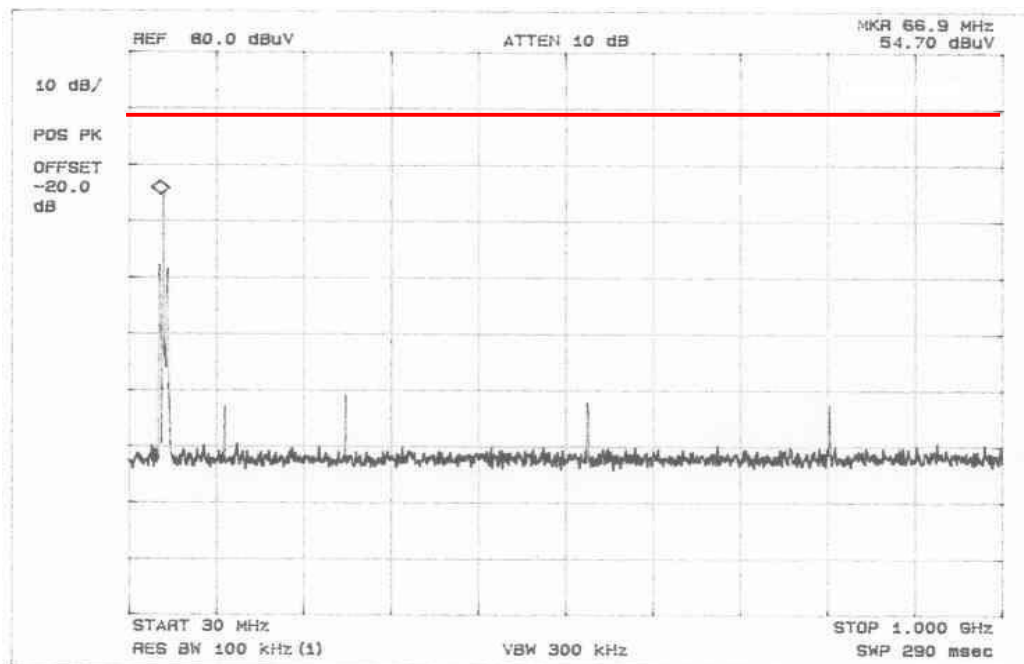
CH3 Playback



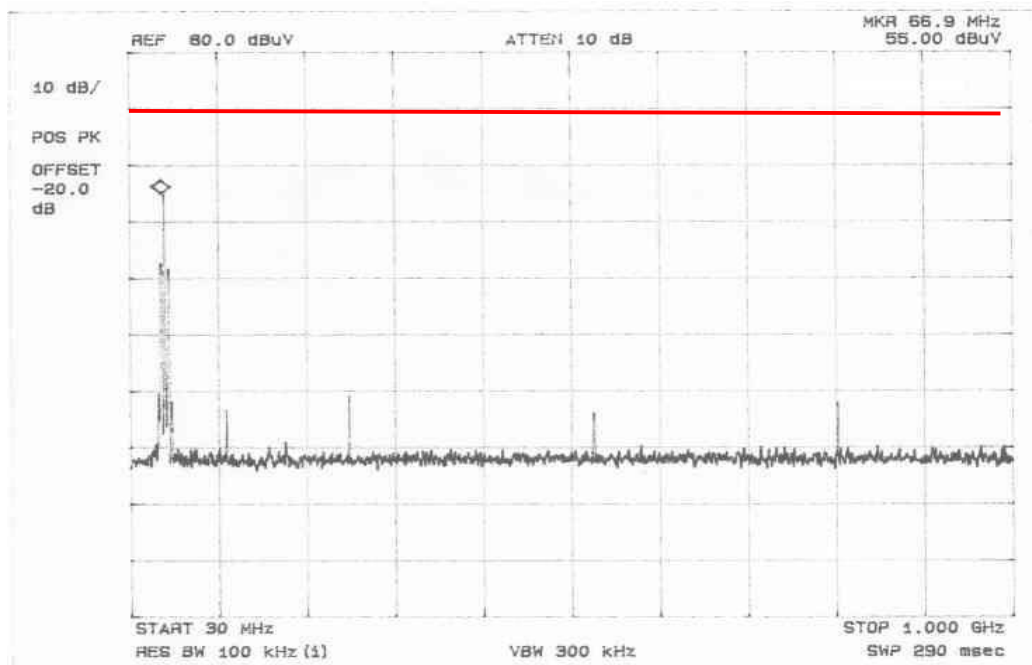
CH3 Record

Output Terminal Conducted Spurious Emission

Tuner: TCMN0682PA20B4 (SAMSUNG)



CH4 Playback



CH4 Record

TEST CONDITIONS AND DATA

Transfer Switch Isolation Measurement

◆ Test Equipment Used

Model Name	Manufacturer	Description
8566B	Hewlett Packard	Spectrum Analyzer
85685A	Hewlett Packard	RF preselector
RAM	Rohde & Schwarz	Matching Pad
PM5515	Philips	Pattern Generator

◆ Auxiliary Equipment Used

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

◆ Accessories including cables

Name	Length	Port and Descriptions
RCA	1.5m	Video / Audio

◆ Environmental Conditions

Temperature	18°C
Humidity	47 %
Atmosphere pressure	1002mbar

◆ Test Program Playback and record mode

◆ Test Area Compact Chamber

Note : Transfer switch isolation measurements were made on the Channel 3 and 4 video output frequencies of 61.25 and 67.25 MHz and both position of the transfer switch.

Limit calculation(Sec 15.115 (c) (1) (ii))

$$0.346 \times 75^{1/2} = 2.996\mu V = 9.53\text{dBuV} = -97.46\text{dBm}$$

The test were performed with color bar as VITS. The VITS signals, 1V and 5V peak-to-peak, were used for channel 3 and channel 4 with alternate. The above test program were employed for each channel.

Transfer Switch Isolation Measurement

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.25	5.63	9.53	Playback	3.90
3	61.25	5.40	9.53	Record	4.13
4	67.25	6.00	9.53	Playback	3.53
4	67.25	5.75	9.53	Record	3.78

Transfer Switch Tabulated Data with Tuner
(LG Innotek Co., Ltd. Model: **TADM-H101F**)

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.25	5.43	9.53	Playback	4.10
3	61.25	5.30	9.53	Record	4.23
4	67.25	5.70	9.53	Playback	3.83
4	67.25	5.65	9.53	Record	3.88

Transfer Switch Tabulated Data with Tuner
(LG Innotek Co., Ltd. Model: **TADM-H201F**)

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.25	5.57	9.53	Playback	3.96
3	61.25	5.45	9.53	Record	4.08
4	67.25	5.40	9.53	Playback	4.13
4	67.25	5.78	9.53	Record	3.75

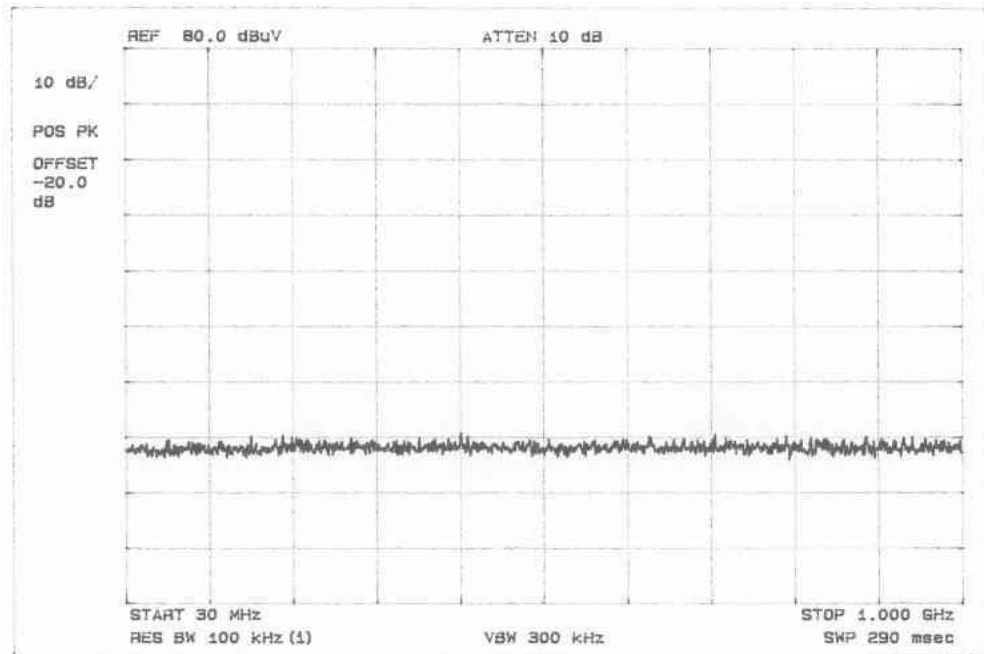
Transfer Switch Tabulated Data with Tuner
(ALPS Electric Model: **TMZH2-030A**)

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.25	5.55	9.53	Playback	3.98
3	61.25	5.64	9.53	Record	3.89
4	67.25	5.73	9.53	Playback	3.80
4	67.25	5.53	9.53	Record	4.00

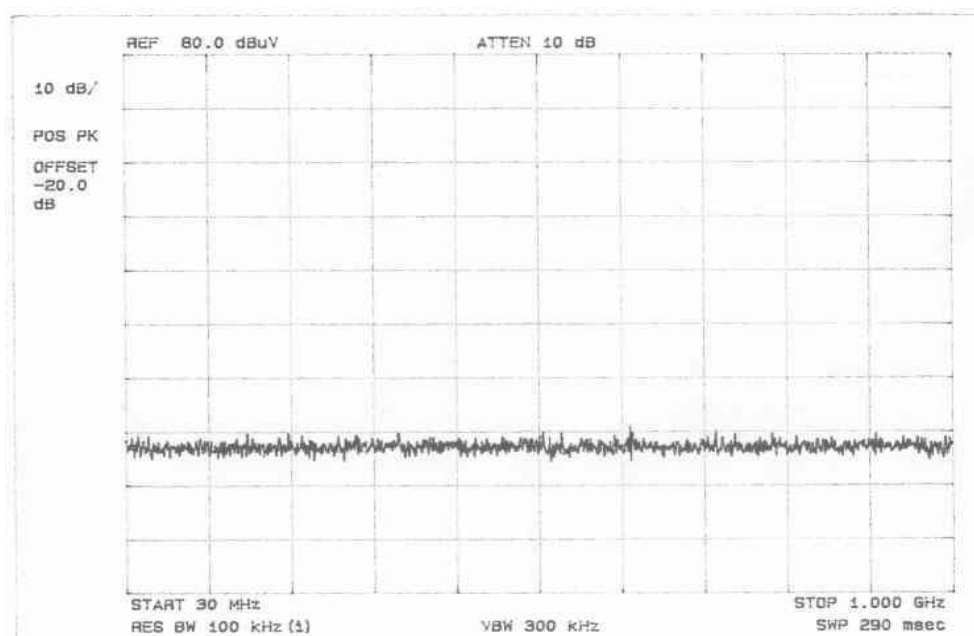
Transfer Switch Tabulated Data with Tuner
(Samsung Electronic Co., Ltd. Model: **TCMN0682PA20B4**)

Transfer Switch Isolation Measurement

Tuner: TADM-H101F (LG)



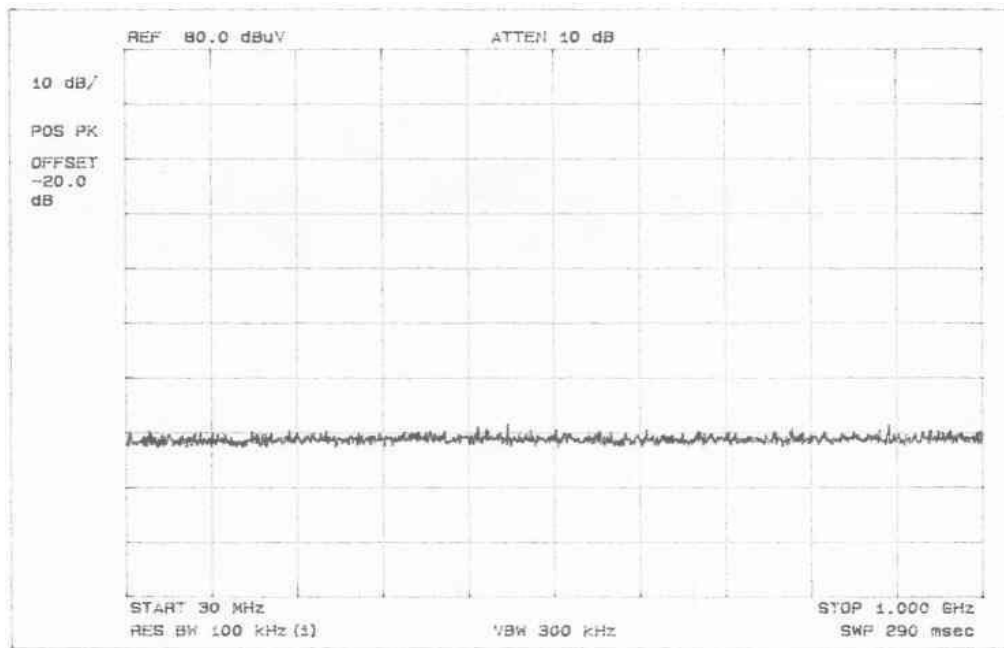
CH3 Playback



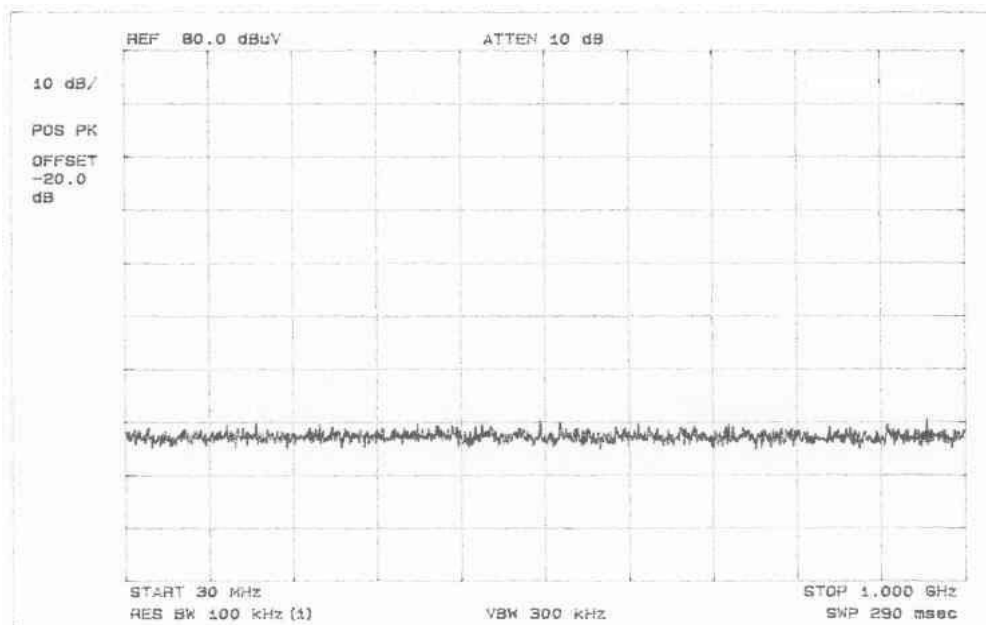
CH3 Record

Transfer Switch Isolation Measurement

Tuner: TADM-H101F (LG)



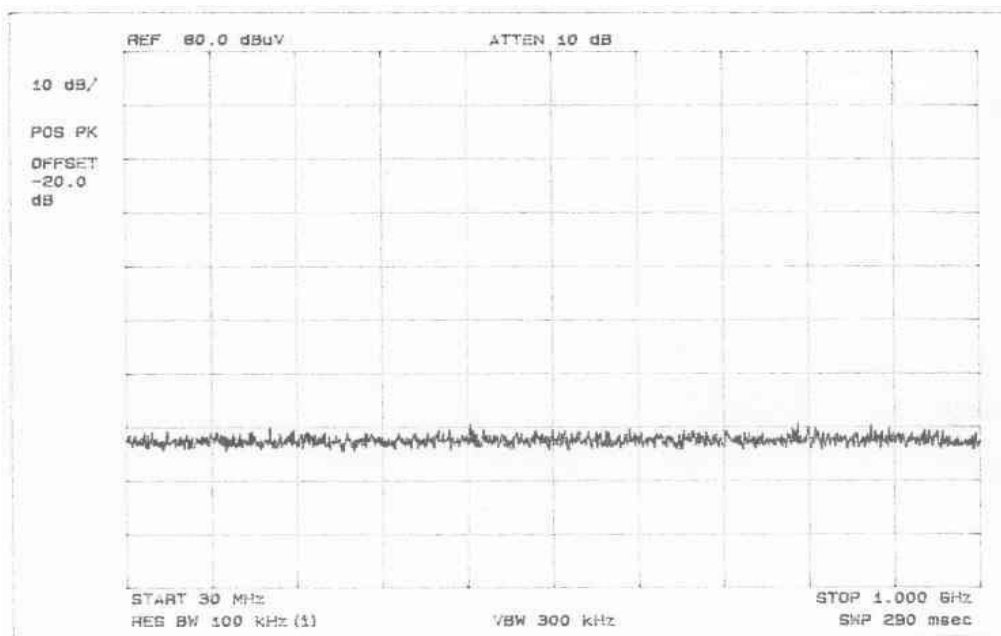
CH4 Playback



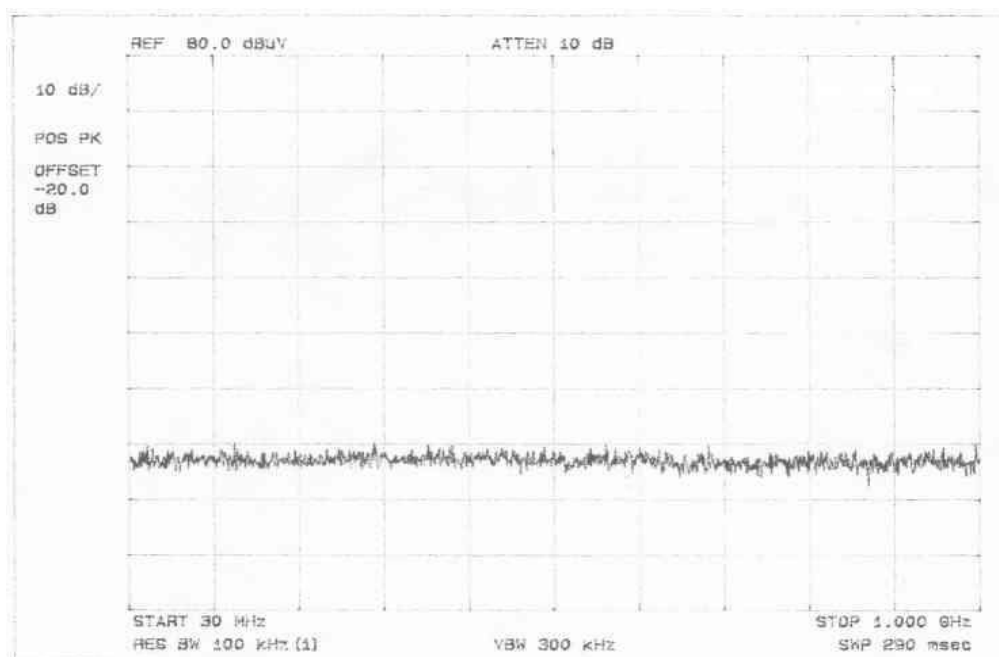
CH4 Record

Transfer Switch Isolation Measurement

Tuner: TADM-H201F (LG)



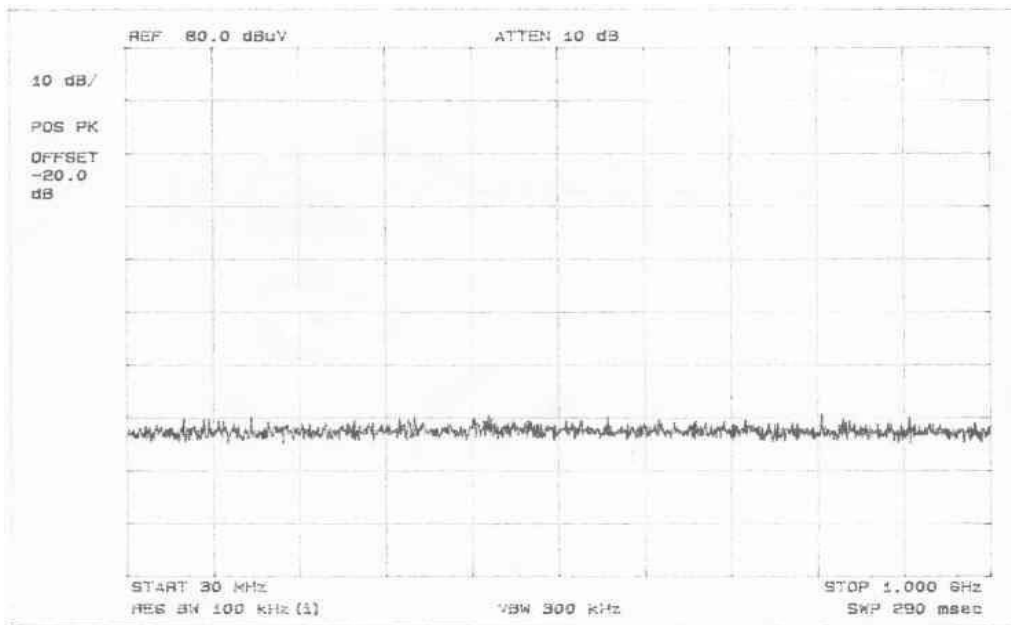
CH3 Playback



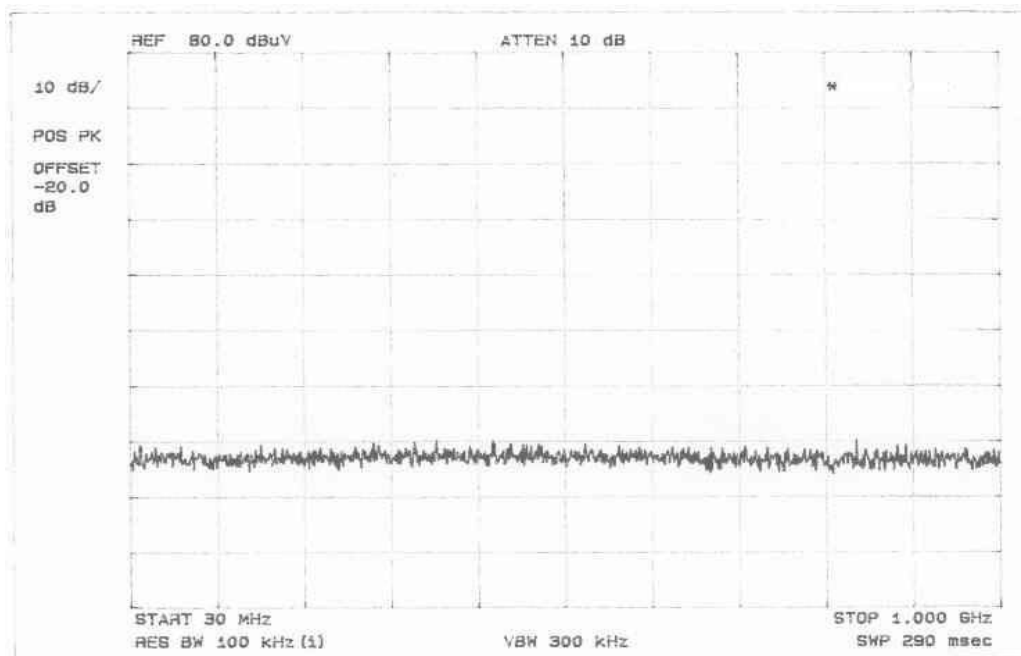
CH3 Record

Transfer Switch Isolation Measurement

Tuner: TADM-H201F (LG)



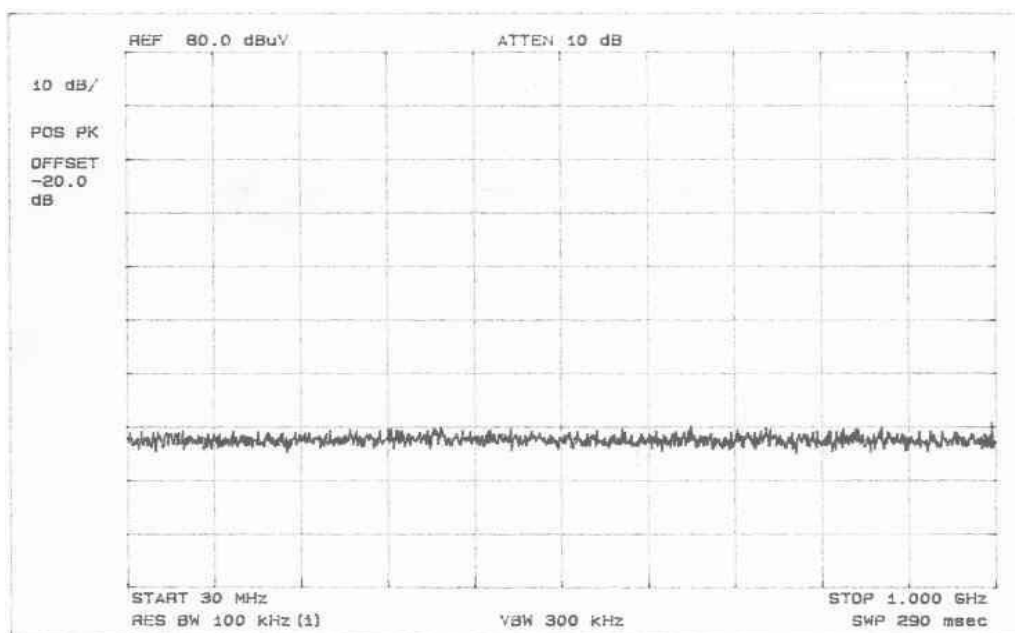
CH4 Playback



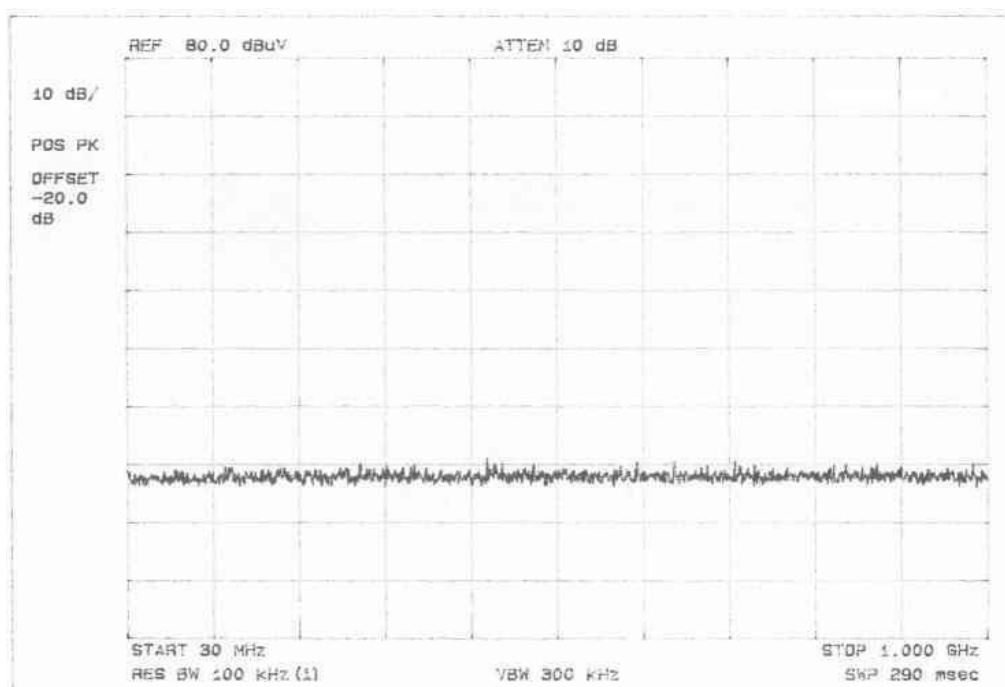
CH4 Record

Transfer Switch Isolation Measurement

Tuner: TMZH2-030A (ALPS)



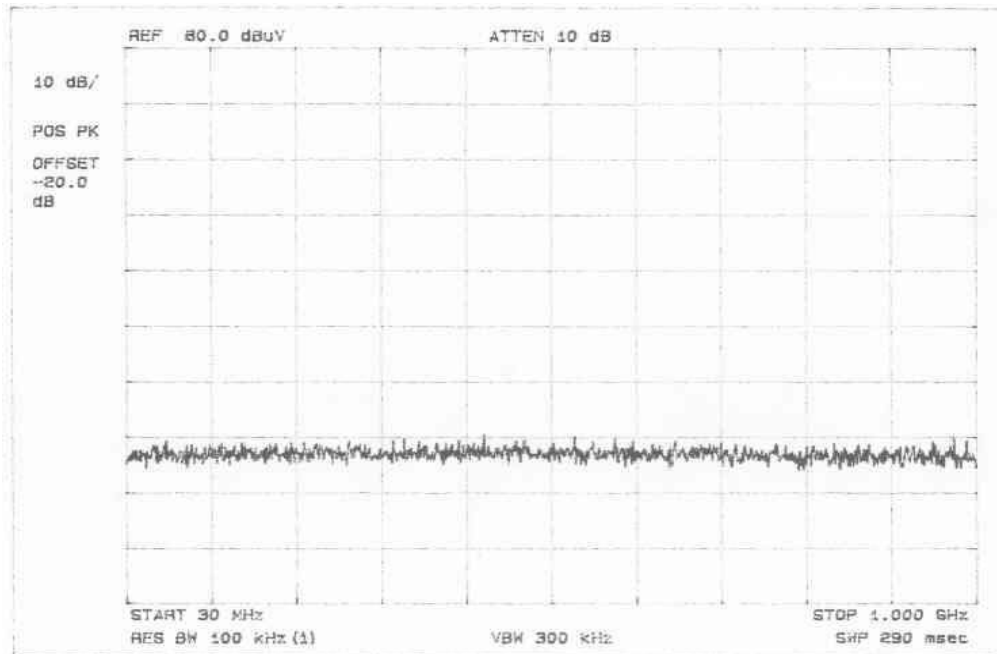
CH3 Playback



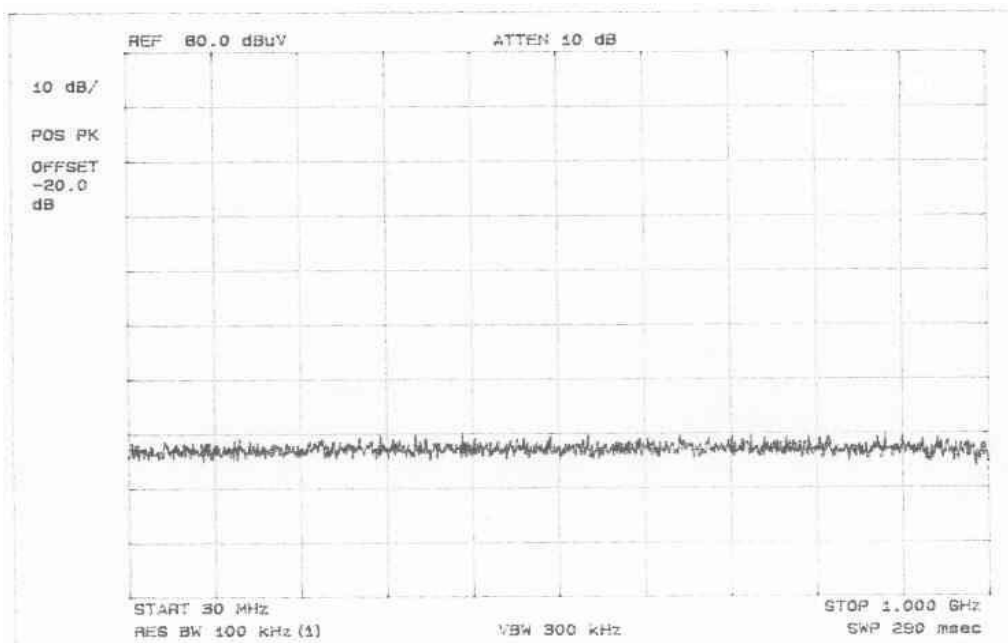
CH3 Record

Transfer Switch Isolation Measurement

Tuner: TMZH2-030A (ALPS)



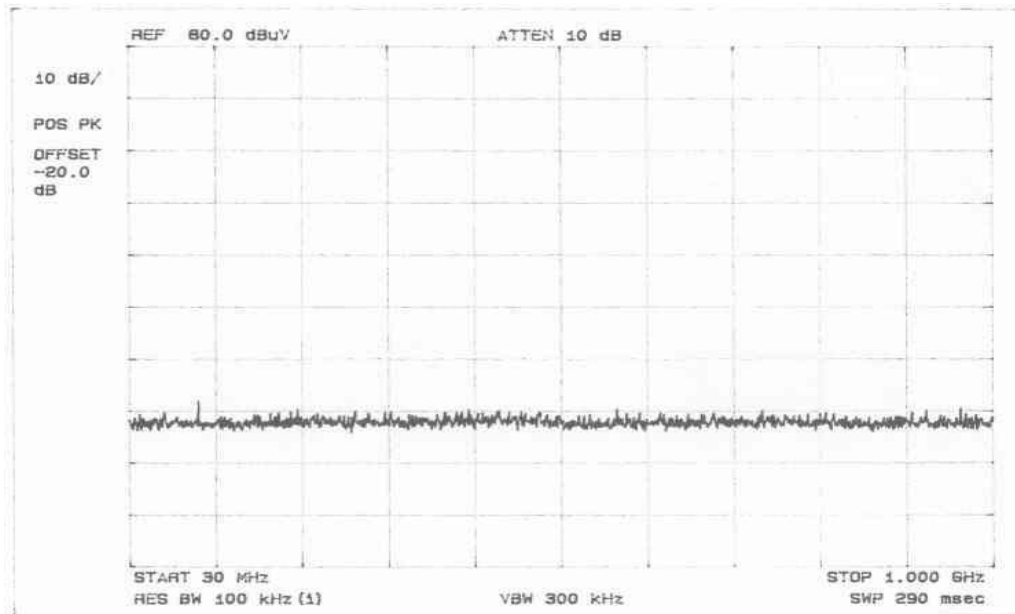
CH4 Playback



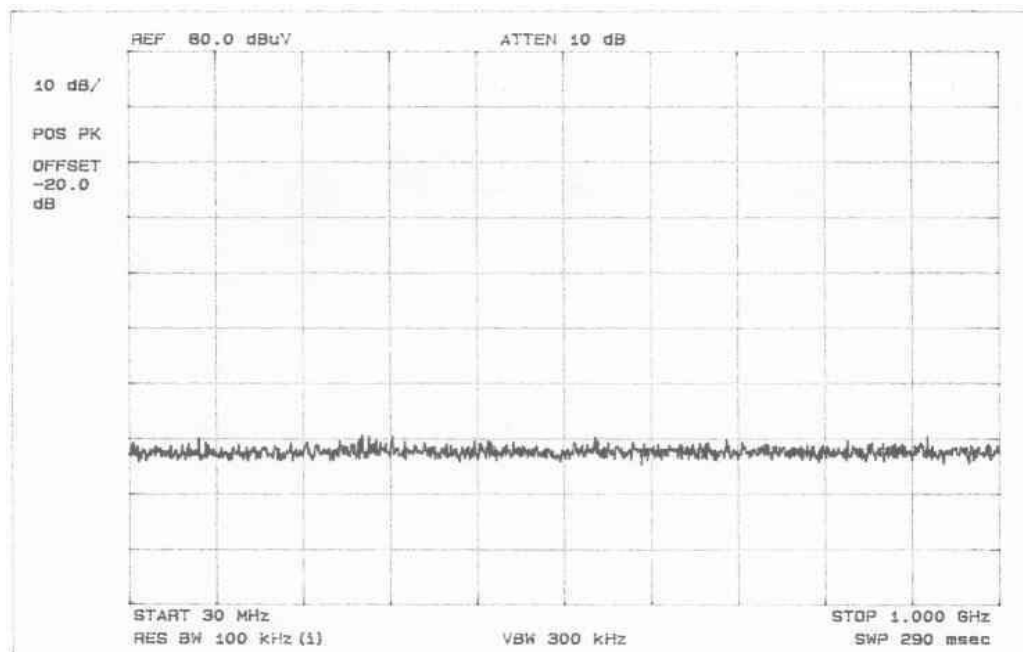
CH4 Record

Transfer Switch Isolation Measurement

Tuner: TCMN0682PA20B4 (SAMSUNG)



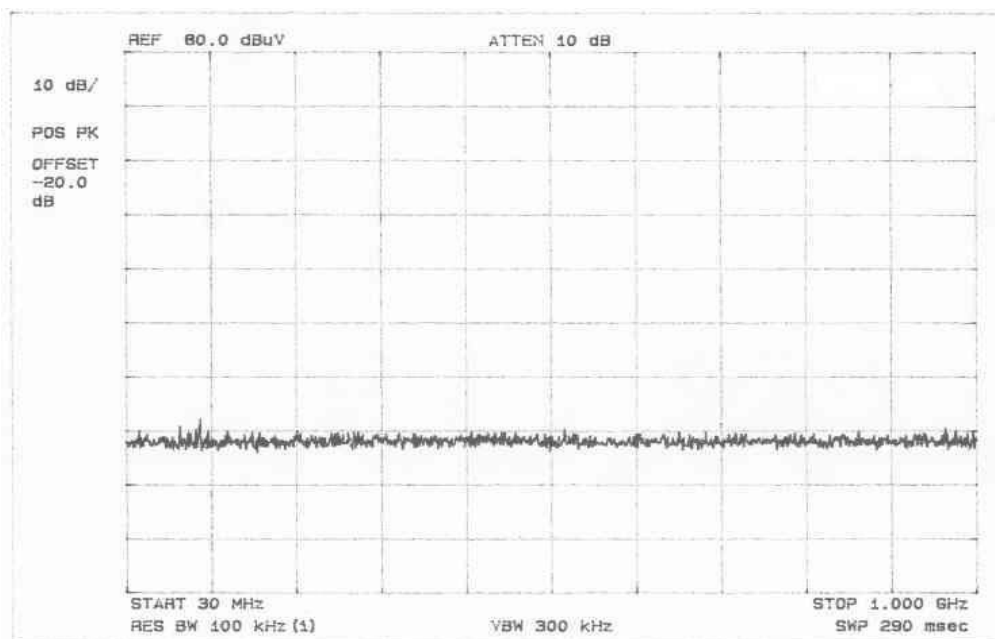
CH3 Playback



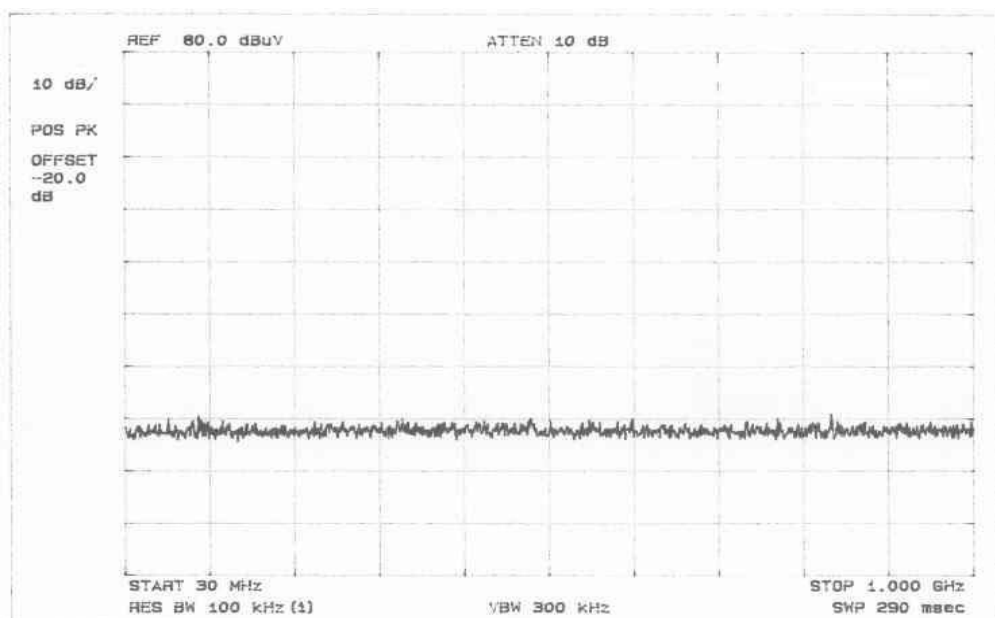
CH3 Record

Transfer Switch Isolation Measurement

Tuner: TCMN0682PA20B4 (SAMSUNG)



CH4 Playback



CH4 Record