

FC

Test Report

Product Name	R2-D2 DVD PROJECTOR
Model No.	7700XX (X can be any character or blank)
FCC ID.	CVTR2D2SP

Applicant	Nikko Co., Ltd.
Address	1-7-14, Mizumoto Katsushika-Ku Tokyo Japan

Date of Receipt	Dec. 17, 2007
Issued Date	Dec. 26, 2007
Report No.	07C193R-RFUSP02V01

The Test Results relate only to the samples tested.

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

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Test Date : Dec. 26, 2007

Report No. : 07C193R-RFUSP02V01



Product Name	R2-D2 DVD PROJECTOR
Applicant	Nikko Co., Ltd.
Address	1-7-14, Mizumoto Katsushika-Ku Tokyo Japan
Manufacturer	DELTA ELECTRONICS, INC.
Model No.	7700XX (X can be any character or blank)
FCC ID.	CVTR2D2SP
EUT Voltage	AC 120V/60Hz
Rated Voltage	AC 120V/60Hz
Trade Name	NIKKO
Measurement Standard	FCC CFR Title 47 Part 15 Subpart C: 2006
Measurement Procedure	ANSI C63.4: 2003
Test Result	Complied



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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	R2-D2 DVD PROJECTOR
Trade Name	NIKKO
Model No.	7700XX (X can be any character or blank)
FCC ID.	CVTR2D2SP
Frequency Range	88.1 – 88.9 MHz
Channel Number	5
Channel Control	Manual
Type of Modulation	FM
Antenna Type	Monopole
Power Cord	Non-Shielded, 1.8m

Frequency of Each Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	88.1 MHz	2	88.3 MHz	3	88.5 MHz
4	88.7 MHz	5	88.9 MHz		

Note:

1. This device is an R2-D2 DVD PROJECTOR with built-in FM transmitter.
2. Regarding to the operation frequency, the lowest, middle, and highest channels are selected to perform the test.
3. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.239.
4. QuieTek verified the construction and function in typical operation, and then shown in this test report.

Mode 1: Transmitter

1.2. Operation Description

The EUT is an R2-D2 DVD PROJECTOR with built-in FM transmitter Module. The operation frequency is from 88.1 to 88.9 MHz with FM modulation. The EUT use 5 manually selectable channels were built in the EUT. The channels are separated by 200kHz. The signals are modulated by FM. RF signals are transmitted from the Monopole antenna. AC 120V shall be provided for EUT operation.

The FM transmitter Module use BH1417F is a FM stereo transmitter IC that transmits simple configuration. The IC consists of a stereo modulator for generating stereo composite signals and a FM transmitter for broadcasting a FM signal on the air. The stereo modulator generates a composite signal which consists of the MAIN, SUB, and pilot signal from a 38kHz oscillator.

The FM transmitter radiates FM wave on the air by modulating the carrier signal with a composite signal.

The FM stereo transmitter IC 15th,16th,17th and 18th pin which control the IC BH1417F can change the transmitter channels.

The EUT uses the Monopole antenna which is made of 62-cm **twist cable**.

Turn on EUT, select DVD player mode, then insert the DVD into DVD's AGP, and played in 1KHz tone.

Next, use the remote control to choose the projector mode ; finally,press FM CH+ bottom or FM CH- bottom to start the FM TX.

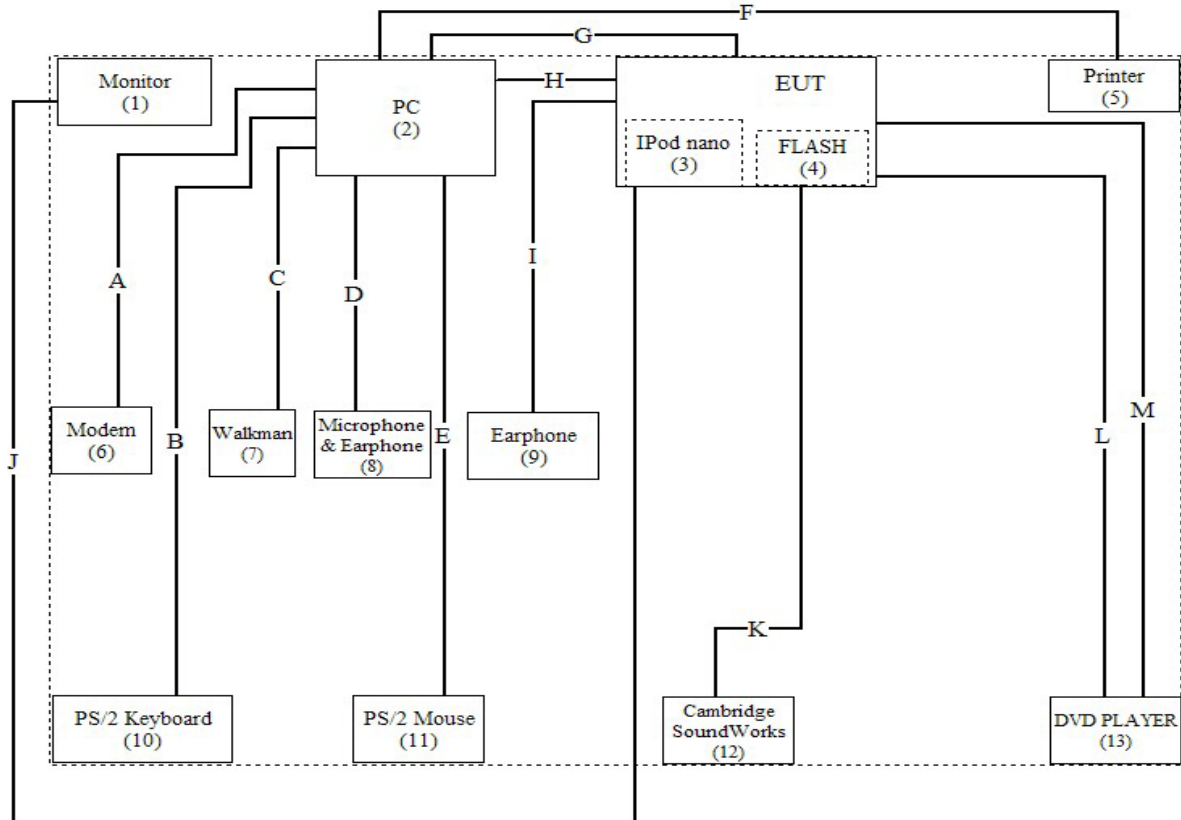
1.3. Test System Details

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

	Product	Manufacturer	Model No.	Serial No.	Power Cord
(1)	Monitor	Apple	A1199	5U705F9HVQ5	N/A
(2)	PC	Item	Manufacturer	Model	Non-Shielded, 1.8m
		CPU	AMD	(SOCKET 939) Athlon 64 Processor 3500+	
		M/B	ASUS	A8N-E	
		VGA Card	ASUS	EN6200TC	
		HDD	Seagate	ST3808110AS	
		DVD-ROM	ASUS	CD-S480/A5	
		S.P.S	AOPEN	AO350-12AHN	
		DDR	Kingston	KVR400X64C3A,512 MB	
(3)	iPod nano	Apple	A1199	7R649LBKVQ5	N/A
(4)	FLASH	Transcend	JetFlash110	155422-2931	N/A
(5)	Printer	EPSON	StyLus C63	FAPY094321	Non-Shielded, 1.9m
(6)	Modem	ACEEX	DM-1414	0102027559	Non-Shielded, 1.8m
(7)	Walkman	AIWA	HS-TA164	N/A	N/A
(8)	Microphone & Earphone	PCHOME	N/A	N/A	N/A
(9)	Earphone	Dr.AV	CD-806B	N/A	N/A
(10)	PS/2 Keyboard	COMPAQ	KB-0133	B55940MGAPN04Y	N/A
(11)	PS/2 Mouse	HP	M-S69	N/A	N/A
(12)	Cambridge SoundWorks	Creative	S80130	AM01303200000942	Non-Shielded, 1.9m
(13)	DVD PLAYER	Pioneer	DV-989Avi-G	FBMP000224TA	Non-Shielded, 1.8m

Signal Cable Type		Signal cable Description
A.	RS-232 Cable	Shielded, 1.5m
B.	PS/2 Keyboard Cable	Shielded, 1.8m
C.	Audio Cable	Non-Shielded, 1.8m
D.	Earphone & Microphone Cable	Non-Shielded, 2m
E.	PS/2 Mouse Cable	Shielded, 1.8m
F.	Printer Cable	Shielded, 1.5m
G.	USB Cable	Shielded, 1.2m
H.	DVI to D-SUB Cable	Shielded, 1.4m
I.	Earphone Cable	Non-Shielded, 1m
J.	RCA Cable	Non-Shielded, 1.8m
K.	Fiber Cable	Non-Shielded, 1.5m
L.	S-Video Cable	Shielded, 1.8m
M.	RCA Cable	Non-Shielded, 1.8m

1.4. Configuration of Tested System



1.5. EUT Exercise Description

1	Setup the EUT as shown in section 1.4.
2	Turn on the EUT power, select DVD player mode.
3	Then insert the DVD into DVD's, and played in 1KHz tone.
4	Use the remote control to choose the projector mode.
5	Press FM CH+ bottom or FM CH- bottom to start the FM Transmitter.
6	With the FM Transmitter set-up to the test channel as follow: CH01, CH03, CH05.
7	After the set-up, starting the test and data shall be recorded in the test report.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2



Accreditation on NVLAP
NVLAP Lab Code: 200533-0



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FCC Accreditation Number: TW1014

2. Conducted Emission

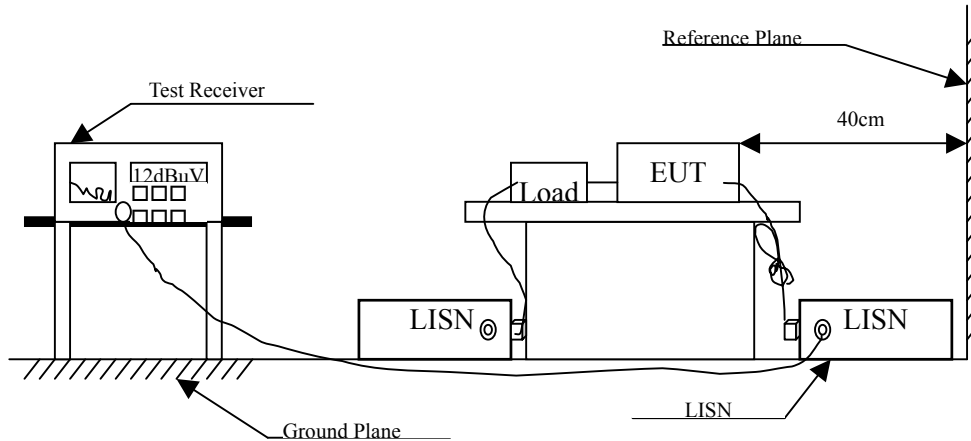
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2007	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2007	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2007	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2007	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56 _(註)	56-46 _(註)
0.50-5.0	56	46
5.0 - 30	60	50

2.4. Test Procedure

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

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

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

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : R2-D2 DVD PROJECTOR
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: Transmitter (88.5 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.248	0.351	41.030	41.381	-21.819	63.200
0.408	0.300	43.190	43.490	-15.139	58.629
0.634	0.302	40.300	40.602	-15.398	56.000
1.529	0.330	36.640	36.970	-19.030	56.000
2.103	0.350	38.370	38.720	-17.280	56.000
20.763	1.116	37.270	38.386	-21.614	60.000
Average					
0.248	0.351	39.950	40.301	-12.899	53.200
0.408	0.300	25.860	26.160	-22.469	48.629
0.634	0.302	21.610	21.912	-24.088	46.000
1.529	0.330	23.930	24.260	-21.740	46.000
2.103	0.350	31.360	31.710	-14.290	46.000
20.763	1.116	32.020	33.136	-16.864	50.000

Note:

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

Product : R2-D2 DVD PROJECTOR
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmitter (88.5 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.334	0.302	45.120	45.422	-15.321	60.743
0.420	0.310	43.000	43.310	-14.976	58.286
0.963	0.320	38.060	38.380	-17.620	56.000
2.127	0.350	39.620	39.970	-16.030	56.000
3.548	0.390	28.630	29.020	-26.980	56.000
20.134	0.905	41.460	42.365	-17.635	60.000
Average					
0.334	0.302	29.390	29.692	-21.051	50.743
0.420	0.310	23.200	23.510	-24.776	48.286
0.963	0.320	19.620	19.940	-26.060	46.000
2.127	0.350	28.870	29.220	-16.780	46.000
3.548	0.390	16.520	16.910	-29.090	46.000
20.134	0.905	35.660	36.565	-13.435	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Radiated Emission

3.1. Test Equipment

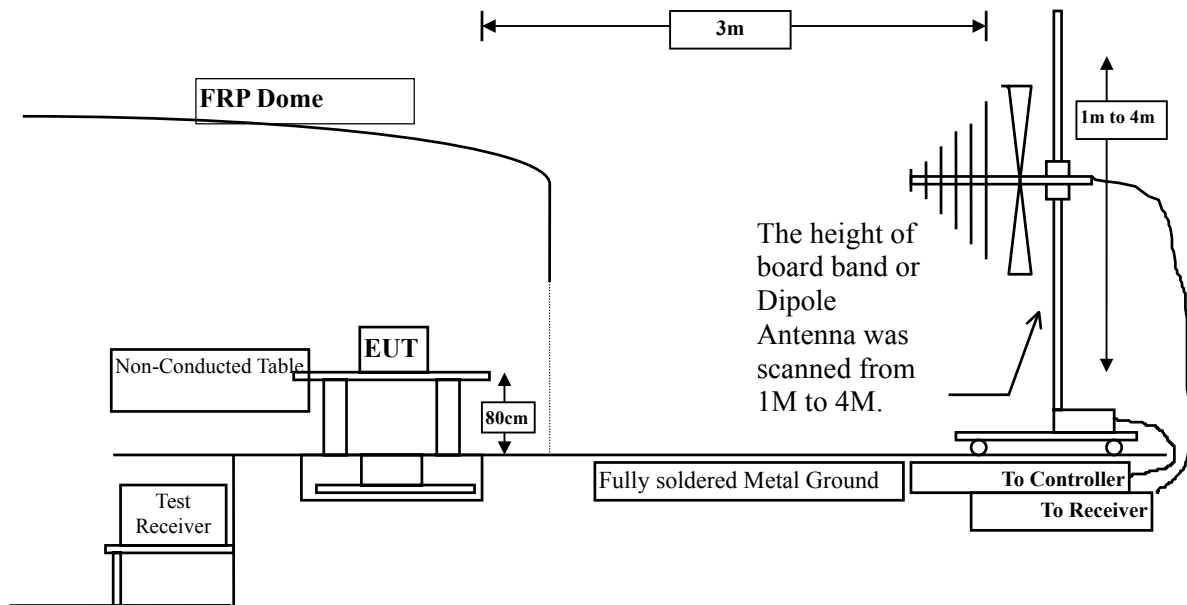
The following test equipment are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2007
	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2007
	Pre-Amplifier	HP	8447D/3307A01812	May, 2007
	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2007
	Horn Antenna	EM	EM6917 / 103325	May, 2007
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2007
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2007
	Pre-Amplifier	HP	8447D/3307A01814	May, 2007
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
	Horn Antenna	EM	EM6917 / 103325	May, 2007
Site # 3	X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
	X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
	X Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
	X Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
	X Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
	X Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
	X Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

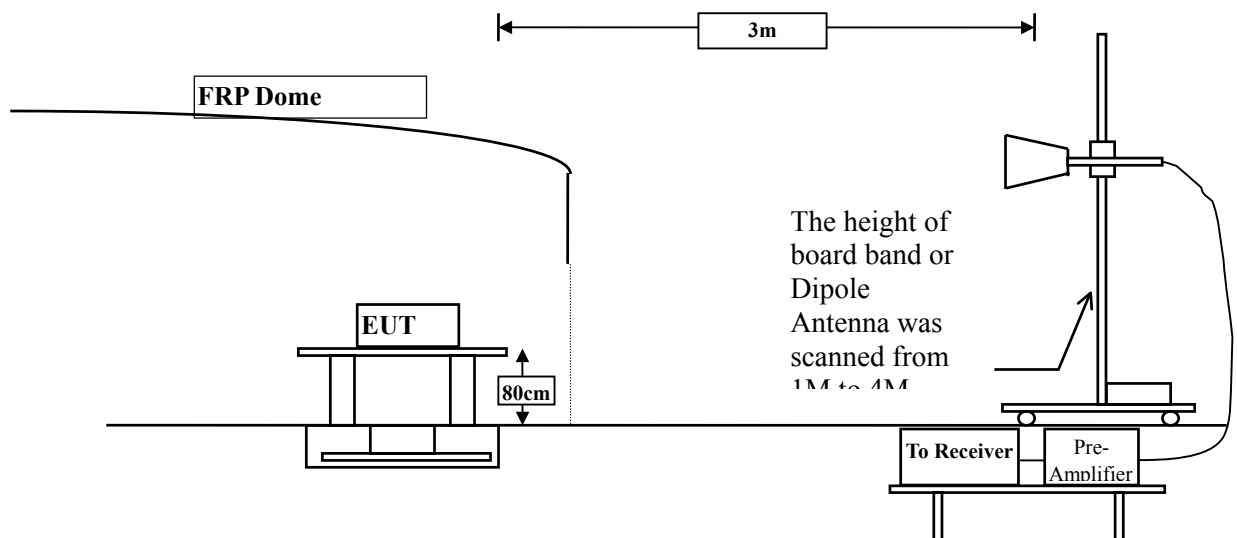
Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

3.2. Test Setup

Below 1GHz



Above 1GHz



3.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The frequency range from 30MHz to 10th harmonics is checked.

3.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

3.6. Test Result of Radiated Emission

Product : R2-D2 DVD PROJECTOR
Test Item : Fundamental Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
88.100	12.238	25.940	38.178	-29.772	67.950
88.560	12.209	31.560	43.770	-24.180	67.950
88.900	12.189	34.040	46.229	-21.721	67.950
Average Detector:					
--					
Vertical					
Peak Detector:					
88.100	13.809	24.210	38.019	-29.931	67.950
88.500	12.214	33.040	45.254	-22.696	67.950
88.920	14.080	33.060	47.140	-20.810	67.950
Average Detector:					
--					

Note:

1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
2. Receiver setting (Peak Detector) : RBW:120KHz °
3. Receiver setting (AVG Detector) : RBW:120KHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : R2-D2 DVD PROJECTOR
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (88.1 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
176.200	8.741	23.220	31.961	-11.559	43.520
264.300	15.139	16.030	31.169	-14.851	46.020
352.400	18.518	15.320	33.838	-12.182	46.020
440.500	21.842	15.300	37.142	-8.878	46.020
528.600	23.579	16.020	39.599	-6.421	46.020
Vertical					
176.200	17.207	20.280	37.488	-6.032	43.520
264.300	18.313	16.030	34.343	-11.677	46.020
352.400	17.502	16.260	33.762	-12.258	46.020
440.500	20.872	15.320	36.192	-9.828	46.020
528.600	21.728	16.020	37.748	-8.272	46.020

Note:

1. The reading levels below 1GHz are quasi-peak values.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : R2-D2 DVD PROJECTOR
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (88.5 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
175.000	8.691	24.670	33.361	-10.159	43.520
265.230	15.142	17.230	32.372	-13.648	46.020
354.000	18.621	9.900	28.521	-17.499	46.020
442.500	21.852	6.690	28.541	-17.479	46.020
531.000	23.697	6.340	30.037	-15.983	46.020
Vertical					
175.000	17.009	20.880	37.889	-5.631	43.520
265.500	18.161	11.080	29.241	-16.779	46.020
354.000	17.611	8.960	26.571	-19.449	46.020
442.500	20.879	7.880	28.759	-17.261	46.020
531.000	21.797	6.260	28.057	-17.963	46.020

Note:

1. The reading levels below 1GHz are quasi-peak values.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Product : R2-D2 DVD PROJECTOR
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (88.9 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
176.410	8.751	18.840	27.590	-15.930	43.520
266.700	15.137	19.270	34.407	-11.613	46.020
355.600	18.720	7.550	26.270	-19.750	46.020
444.500	21.863	7.060	28.923	-17.097	46.020
533.400	23.813	6.480	30.293	-15.727	46.020
Vertical					
177.800	17.464	22.680	40.143	-3.377	43.520
266.700	18.015	17.290	35.304	-10.716	46.020
355.600	17.727	8.060	25.787	-20.233	46.020
444.500	20.880	9.400	30.280	-15.740	46.020
533.400	21.854	6.690	28.544	-17.476	46.020

Note:

1. The reading levels below 1GHz are quasi-peak values.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

4. Occupied Bandwidth

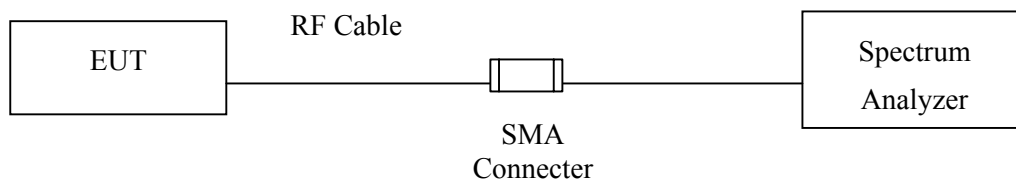
4.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

4.2. Test Setup



4.3. Limits

The minimum bandwidth shall be at least 200kHz.

4.4. Uncertainty

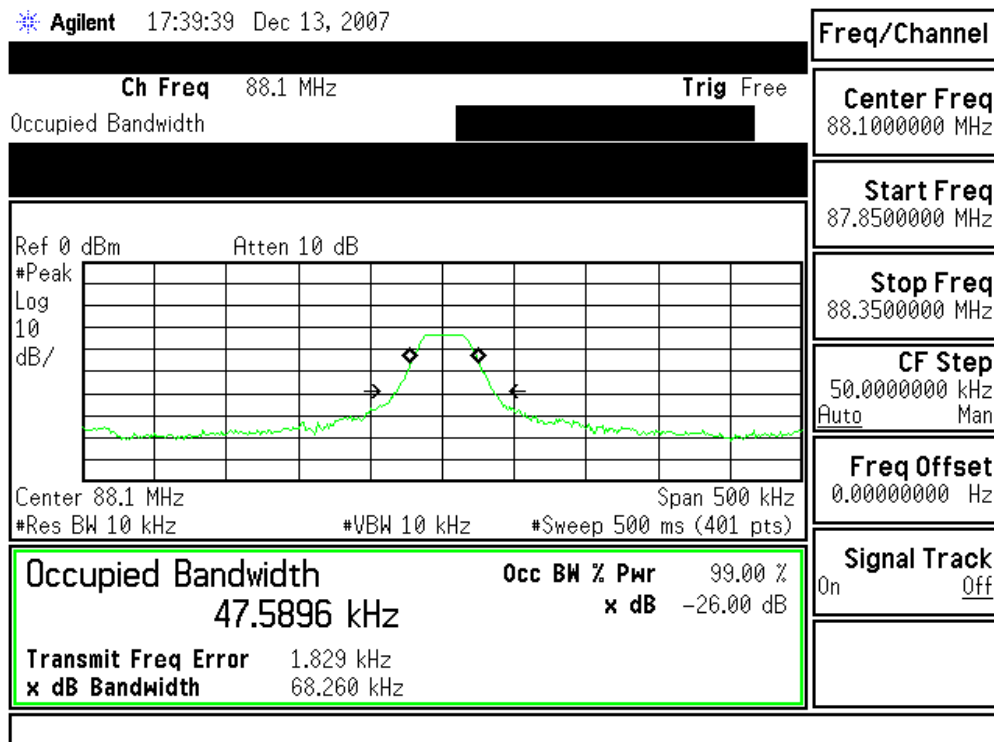
$\pm 150\text{Hz}$

4.5. Test Result of Occupied Bandwidth

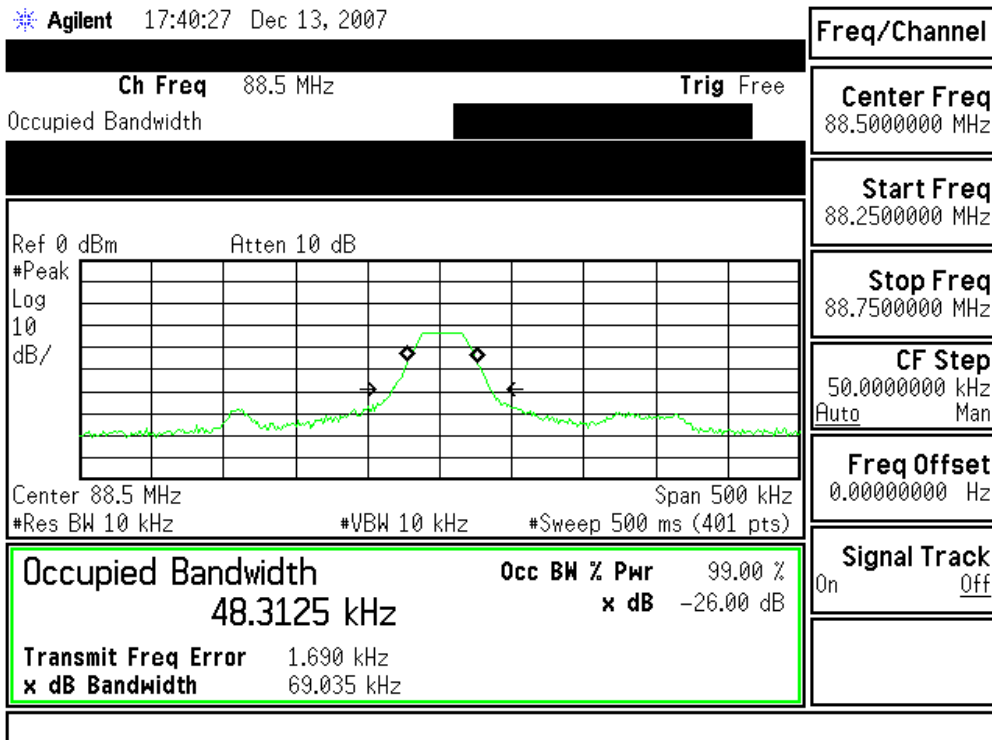
Product : R2-D2 DVD PROJECTOR
 Test Item : Occupied Bandwidth (modulation)
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	88.1	68.260	200	Pass
03	88.5	69.035	200	Pass
05	88.9	70.225	200	Pass

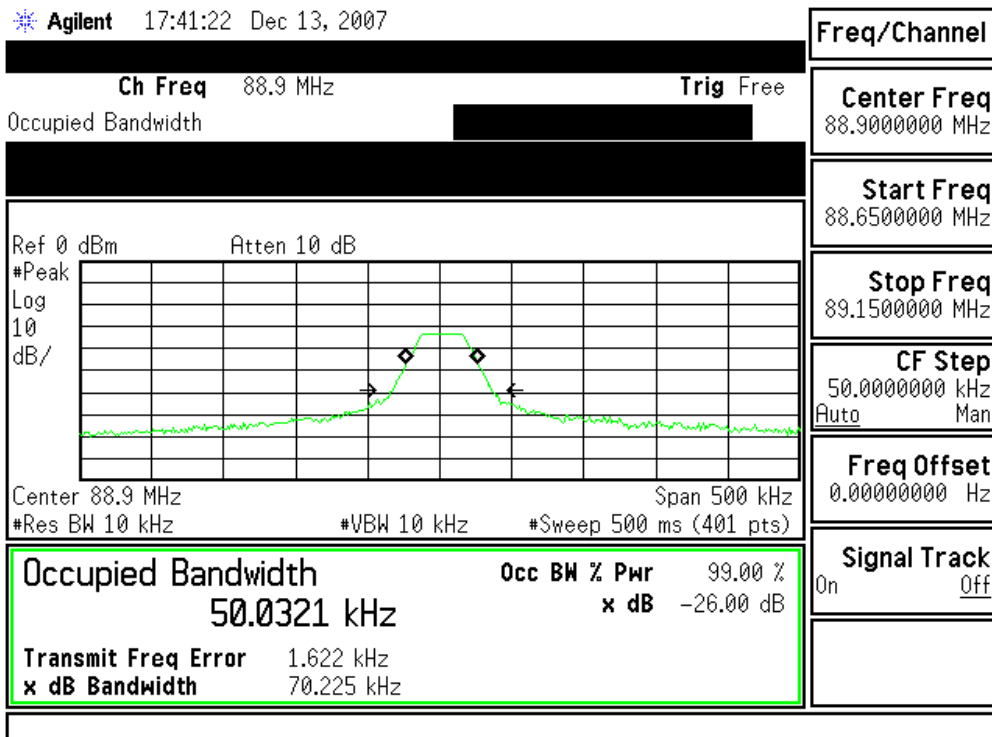
Channel 01:



Channel 03



Channel 05:



5. Band Edge

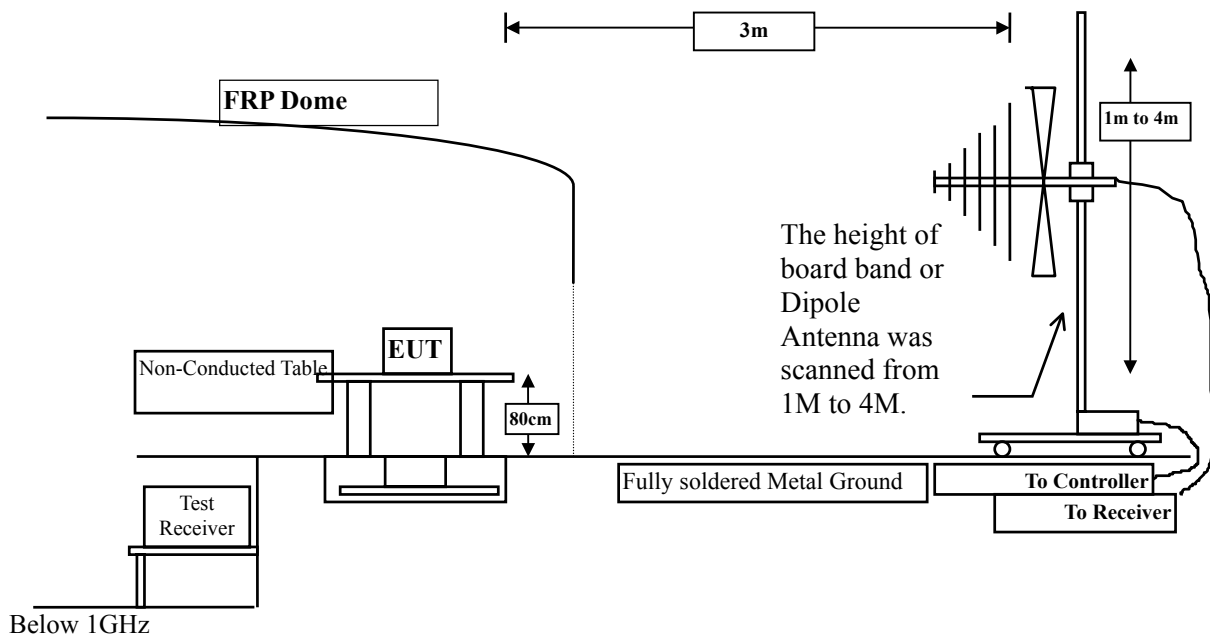
5.1. Test Equipment

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
X	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
X	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
X	Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

5.2. Test Setup



5.3. Limits

The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in Section 15.239.

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

5.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

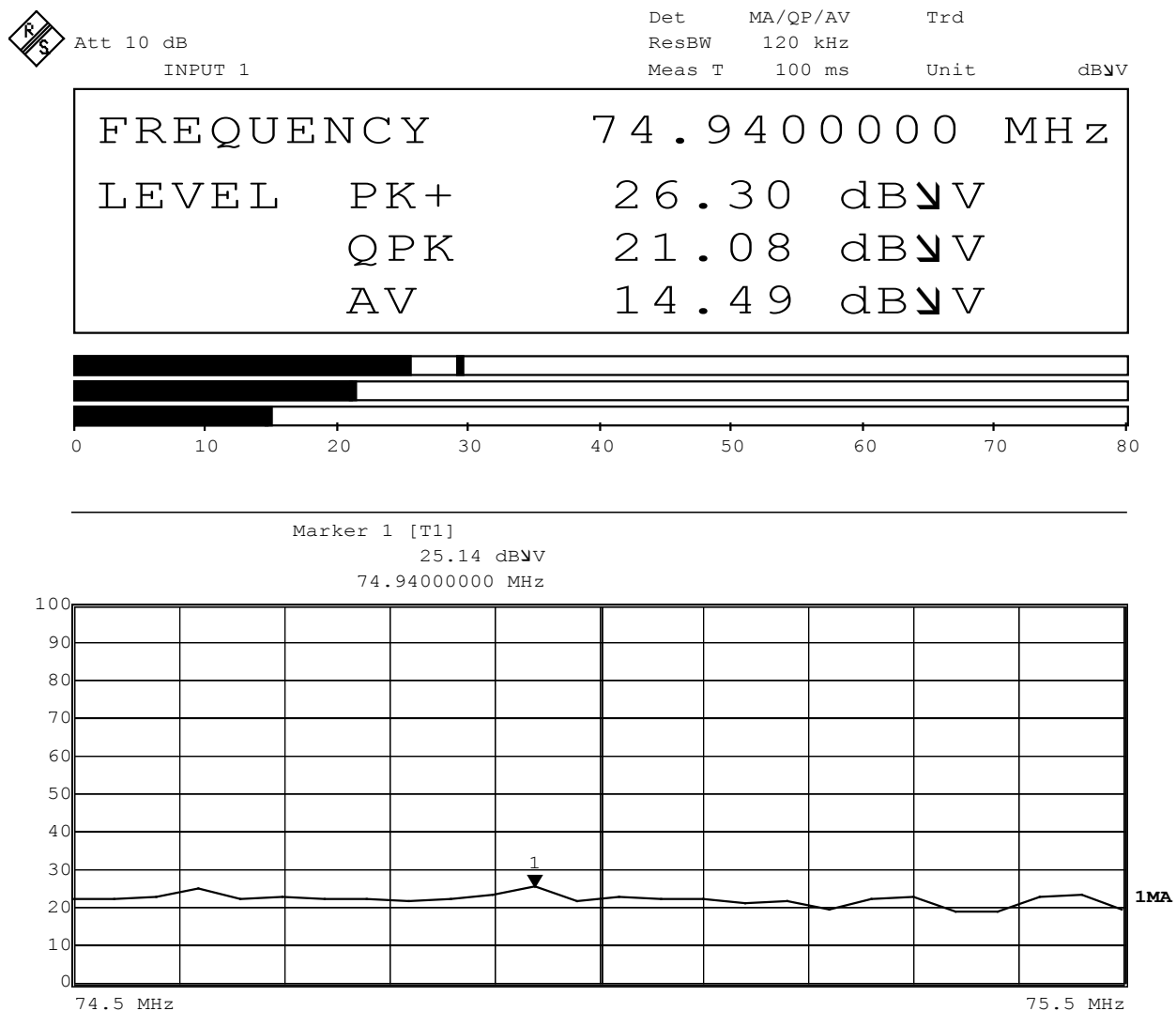
5.6. Test Result of Band Edge

Product : R2-D2 DVD PROJECTOR
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (88.1 MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
1	74.940	12.692	21.080	33.772	40.000	Pass

Figure Channel 1: Horizontal (Quasi-Peak)



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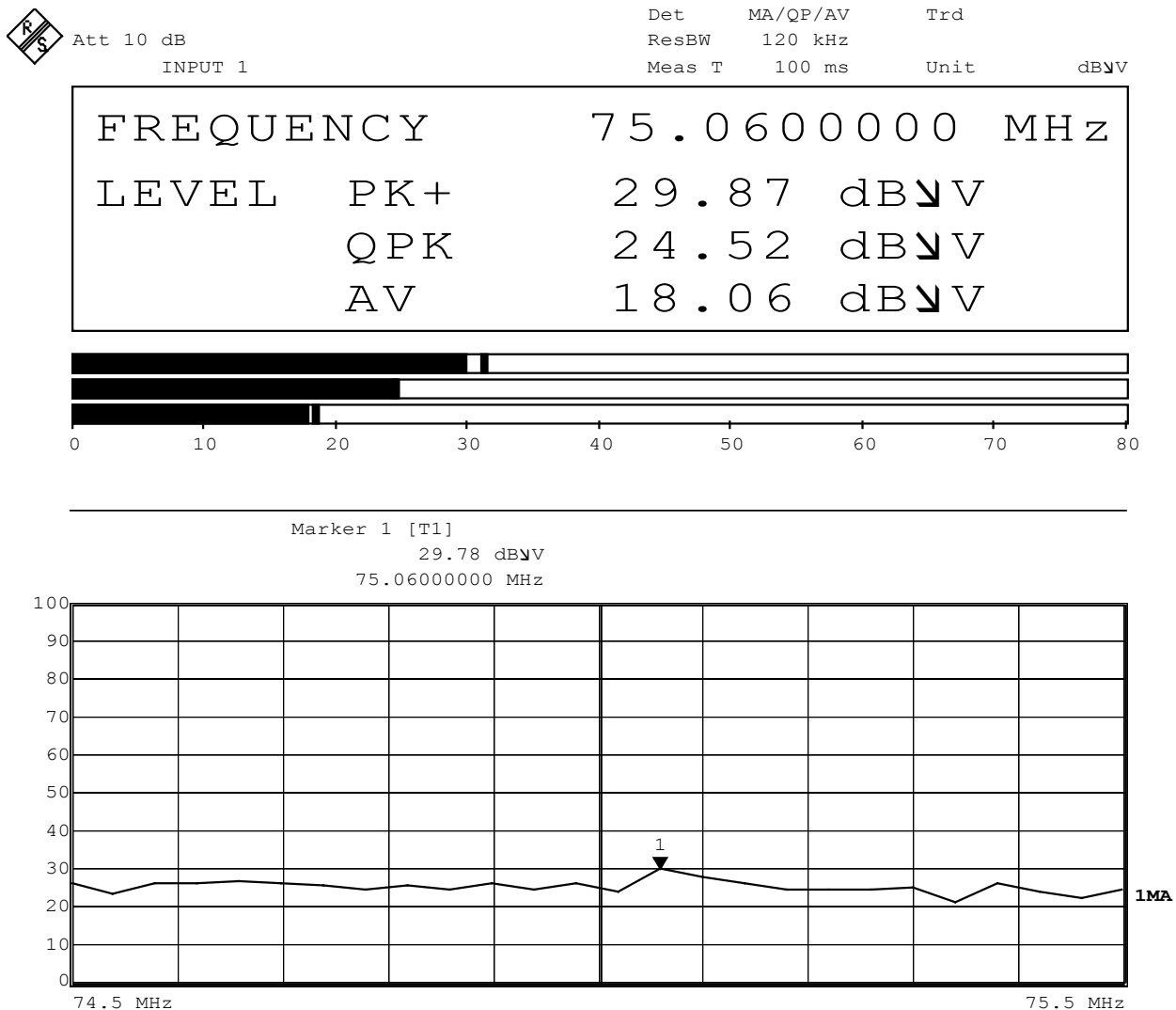
Note: RBW=120KHz

Product : R2-D2 DVD PROJECTOR
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (88.1 MHz)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
1	75.060	10.672	24.520	35.193	40.000	Pass

Figure Channel 1: Vertical (Quasi-Peak)



Date: 13.DEC.2007 15:39:22

Note: RBW=120KHz

6. EMI Reduction Method During Compliance Testing

No modification was made during testing.