FCC PART 15 SUBPART B

CERTIFICATION REPORT for E-File

CD-RW DRIVE

FCC ID: JBQCDR018

Report No.: Z02C-99206

Report Issue Date: August 5, 1999

ZACTA TECHNOLOGY CORPORATION YONEZAWA TESTING CENTER

4149-7 Hachi manpara 5-chome Yonezawa-shi Yamagata 992-1128 Japan



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CERTIFICATE COMPLIANCE

ZACTA TECHNOLOGY CORPORATION YONEZAWA TESTING CENTER 4149-7 Hachimanpara 5-chome Yonezawa-shi Yamagata 992-1128 Japan

This device, as described herewith, was tested pursuant to test procedure C63.4-1992, by Zacta Technology Corporation and it was verified to comply with the requirements of Part 15 Class B of the FCC rules. The Test results are traceable to international or national standard. The EUT complies with section 15.37 "Transition provision for compliance with the rules".

COMPANY NAME: SANYO ELECTRIC CO., LTD.

EUT : CD-RW Drive MODEL : CRD-RW2 FCC ID : JBQCDR018

EUT CONDITION : Pre-Production

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DATE FOR TEST : August 4, 1999

FCC RULE PART : FCC PART 15 SUBPART B, DOCKET 87-389

EUT CLASS : B

MEASUREMENT : ANSI C63. 4-1992

TEST RESULT : PASS

REPORT NO. : Z02C-99206

REMARKS : Internal Interface Cables were Unshielded cable.

Zacta Technology Corporation certifies that no party to the application is subject to a denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21U.S.C. 853(a).

Authorized by : Shin-ichi Abe

General Manager, Zacta Technology Corporation Yonezawa

Testing Center

The results in this report apply only to the samples tested. This report shall not be re-product except in full without the written approval of Zacta Technology Corporation.

EQUIPMENT DESCRIPTION

PRODUCT DESCRIPTION

The EUT is the Internal CD-RW drive, FCC ID: JBQCDR018. This model CDR-RW2 FCC ID: JBQCDR018 is provided at Max. X8 data transfer speed. This device is provided SCSI interface.

APPLICANT : SANYO ELECTRIC CO., LTD.

FCC ID : JBQCDR018

OSC : 20. OMHz, 33. 8MHz POWER : DC input +5V, +12V

I/F CABLE(S) : Unshi el ded

PORT/Connectors : Headphones jack

Audio connector SCSI connector

DC connector (DC INPUT)

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Equipment
Modifications

Equipment : No modification was made during testing

EUT EXERCISE

The EUT exercise program used during Radiated and Conducted emission testing was designed to exercise the various system components in a manner similar to a typical use. Once loaded, the program sequentially exercised each system component in turn.

LABORATORY DESCRIPTION

DESCRIPTION FOR TEST SITE

1. LOCATION:

ZACTA TECHNOLOGY CORPORATION YONEAZAWA TESTING CENTER
4149-7 Hachimanpara 5-chome, Yonezawa-shi Yamagata 992-1128
Japan

Phone: +81-238-28-2880 Fax: +81-238-28-2888

2. THE NUMBER OF SITE:

Total: 4 sites - #1 site, #2 site, #3 site, #4 site

3. THE TYPE OF SITE:

Whether protected site

4. TEST TYPE:

All sites could perform as follows tests:

- 1) 3/10m Radiated disturbance test
- 2) Conducted disturbance test

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5. FACILITY FILING INFORMATION

FCC FINAL SITE FILING: 2.948 Pursuant to ANSI C63.4-1992

#1 site, #2 site, #3 site (Final date: January 29, 1997)

#4 site (Final date: June 18, 1998)

 $^*3m/10m$ Radiated emission test & Conducted emission test could be performed on each site

<u>VCCI FINAL SITE FILING: V-5/97.04 Pursuant to VCCI Regulations</u> for Registration of measurement facilities

#1 site R - 136 C - 132 (Final date: April 1, 1997)

#3 site R - 138 C - 134 (Final date: April 1, 1997)

#4 site R - 752 C - 775 (Final date: June 23, 1998)

NVLAP ACCREDITION:

NVLAP CODE: 200306-0

NVLAP INFORMATION: NVLAP accreditation does not constitute any product endorsement by NVLAP or any agent of the U.S.

Government

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DESCRIPTION OF CONDUCTED EMISSION TESTING

The line-conducted emissions testing facility is located inside of the site which used for radiated emissions testing.

A 1 meter x 1.5 meter surface, 0.8 meter height from conducting ground plane wooden table is placed 40 cm away from the vertical conducting surface.

Two 50 /50 H Line Impedance Stabilization Network (LISN) are placed on the conducting ground plane.

The EUT was powered from the KYORITSU LISN and the support Equipment were CDI LISN.

Unused 50 BNC connector of the CDI LISN is terminated in 50

An isolation transformer has 50A which is large enough to not affect the peak consumption current by the EUT.

All interconnecting cables more than 1 meter were bundled to 1 meter length.

Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition.

The frequency range was scanned from 450KHz to 30 MHz. The detector function of the test receiver was set to CISPR quasi-peak mode and the bandwidth was set to 10KHz.

The EUT, support equipment and interconnecting cables were arranged and manipulated to maximize worst emissions for each emission in this test report.

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DESCRIPTION OF RADIATED EMISSION TESTING

Measurements: were made at 3 meter using broadband Antenna and log-periodic antenna) & Test receiver. Fr antenna Frequency Range: 30MHz - 1GHz was scanned and investigated using receiver. Six highest emissions (Min.) was reported. The test results represents the worst case emissions for each emission with manipulating the EUT, support equipment and interconnecting cables maximize the worst emissions in this test report.

Condition:

The detector function of the test receiver was set to CISPR Quasi-peak mode and the bandwidth was set to 120kHz. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The EUT and support equipment were placed on a top of a 0.8 meter height

wooden table.

For Floor-Standing devices, the EUT and all cables were installed on electrical insulating material.

The antenna height was varied 1 to 4 meters and stopped at height

producing the maximum emission. The turntable was rotated by 360 degrees and stopped at azimuth of producing the maximum emission.

Interconnecting cables which are connected to a peripheral was bundled in center, and its length was not exceed 1 meter.

Each emission was maximized by: varying the mode of operation; clock or data exchange speed; scrolling H pattern to the EUT and support equipment, and powering the monitor from the floor mounted outlet box and the computer aux. AC outlet; changing the polarity of the antenna, whichever determined the worst case emission.

normalized site attenuation graph for the both hori zontal vertical polarization are shown in Description for site.

UNCERTAINTY

Conducted Emission Test

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Total	Uncertai nty	@95%mi n. Confi dence	+1. 78
probabi I	i ty		±1.76

Radiated Emission Test

Total	Uncertai nty	@95%mi n. Confi dence	3m	10m
probabi I	ity		±2.66	±2. 01

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TEST SITE CONDITION & INSTRUMENTATION

TEST SITE CONDITION

Test date	August 4, 1999
Si te #	1 si te
Power	DC +5V, +12V
suppl y	
Weather	Weather: Sunny Temp.: 34 Humidity: 55%
Standard	ANSI C63. 4-1992
Deviation	Not applicable
from	
The	
standards	

USED FOR CONDUCTED EMISSION MEASUREMENT

Equi pment	Manufacture	Model name /	Calibrati	Peri o
Lqui pilierri	wandracture	Serial No.	on date	d
Spectrum	Hewlett Packard	8568B / 2634A02803	Jun. 1999	1
anal yzer				year
Test Receiver	Kyori tsu	KNM-2402 / 4N-192-	Nov. 1998	1
	El ectri cal	1		year
	Works, Ltd.			
Li ne	Kyori tsu	KNW-242C / 8-1096-	Jan. 1999	1
Impedance	El ectri cal	3		year
Stabilization	Works, Ltd.	(For EUT)		
Network				
Li ne	Kyori tsu	KNW-242C / 8-875-	Feb. 1999	1
Impedance	El ectri cal	19		year
Stabilization	Works, Ltd.	(For peripheral)		
Network				
Coaxial cable	FUJI KURA	8D-2W /	Jun. 1999	1
		H110601#1/15C		year

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USED FOR RADIATED DISTURBANCE MEASUREMENT

Faui pmont	Manufacture	Model name /	Cal i brati	Peri o
Equi pment	Mariuracture	Serial No.	on date	d
Spectrum	Hewlett Packard	8568B / 2634A02803	Jun. 1999	1
anal yzer				year
RF	Anri tsu	 MH648A / M96057	Nov. 1998	1
Preamplifier	AIII I tSu	MH046A / M96057	NOV. 1990	year
Test Receiver	Kyori tsu	KNM-5002 / 4N-200-	Jun. 1999	1
	El ectri cal	5		year
	Works, Ltd.	KCV-6002 / 4-288-2		
Bi coni cal	Schwarzbeck	BBA9106/VHA9103LE	Jun. 1999	1
Antenna		/ 13130919		year
Log Periodic	El ectro-	3146 / 8901-2336	Jun. 1999	1
Antenna	Mechani cs Co.			year
Coaxial cable	FUJI KURA	8D-2W /	Jun. 1999	1
		H110601#1/08R		year
Coaxial cable	FUJI KURA	23D-HA/	Jun. 1999	1
		H110601#1/23D-HA		year
Si te	Zacta	1 site	Dec. 1998	1
attenuati on	Technol ogy			year
	Corp.			

*** Measurement above 1GHz ***

Equi pment	Manufacture	Model name /	Cal i brati	Peri o
Equi pillerri	Mariuracture	Serial No.	on date	d
Spectrum	ADVANTEST	R3271A / 65050042	May. 1999	1 year
Anal yzer				
RF	HEWLETT-PACKARD	8449B / 3008A00589	May. 1999	2 year
Preamplifier	Со			
Doubl e Ri dged	El ectro-	3115 / 4328	Jun. 1998	2 year
Gui de Antenna	Mechanics Co.			
Coaxi al cabl e	SUHNER	SUCOFLEX 104	May. 1999	2 year
		108014/4 & 108015/4		

Calibration is traceable to NIST or an equivalent standards reference organization.

FCC ID: JBQCDR018

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SAMPLE OF FIELD STRENGTH CALCULATION

dB V = $20l og_{10}$ (V) dB V /m = $20l og_{10}$ (V/m)

[Sample Calculation]

*For Conduction

Class B limit = 250 V = 48.0 dB V

@ 3.332MHz

Reading = 41.6dB V Cable Loss = 0.2dB

Total = 41.6 + 0.2 = 41.8 dB V

Margin = 41.8 - 48.0 = -6.2dB

6.2 dB below the limit

*For Radiation

Class B limit = 150 V/m = 43.5dB V/m

@ 181. OMHz

Reading = 35.7dB V

Ant. Factor + Cable Loss - Amp. Gain = 15.8 + 1.4 - 15.0 = 2.2 dB/m Total = 35.7 + 2.2 = 37.9 dB V/m

101a1 - 35.7 + 2.2 - 37.900

Margi n = 37.9 - 43.5 = -5.6dB

5.6 dB below the

<u>limit</u>

LABORATORY MEASUREMENTS

PURSUNT TO PART 15, SUBPART B

COMPANY NAME : SANYO ELECTRIC CO., LTD.

EUT : CD-RW DRIVE

MODEL NO. : CRD-RW2 FCC ID : JBQCDR018

FCC ID: JBQCDR018

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SERIAL NO. : 38900002

DATE OF TESTS : August 4, 1999

MEASUREMENT : [] MP-4 [*] ANSI C63. 4-1992

FCC CLASS : [] A [*] B RADIATED EMISSION AT: [*] 3m [] 10m

POWER SUPPLIED : DC 5V, 12V REPORT NO. : Z02C-99206

JUSTIFICATION / ENGINEERING COMMENT

The detector function in frequency range of 30MHz-1GHz was set to Quasi-peak mode.

Cables were manipulated to produce the worst case emissions.

Conducted data of Host PC was reported. (Indirectly connect to the AC power line.)

Accessory used: Audio cable

SCSI cable

All operating mode were tested. Sufficient warm up time is proved for these testing.

Tested by : Koji Taguchi / EMC Engineer

SUMMARY OF DATA RESULT

Minimum margins to the limits are as follows:

CONDUCTED EMISSION DATA

OPERATING MODE	FREQUEMCY	MARGI N	
READ	0. 524MHz	-14. 3dB	
WRI TE	0. 525MHz	-14. 4dB	

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AUDIO CD READ

0. 524MHz

-14. 3dB

RADIATED EMISSION DATA

OPERATING MODE	FREQUEMCY	MARGI N
READ	66. 43MHz	-4. 4dB
WRITE	66. 43MHz	-4. 4dB
AUDIO CD READ	66. 43MHz	-4. 7dB

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CONFIGURATION INFORMATION

DEVICES INFORMATION

NO.	EQUI PMENT	COMPANY	MODEL NO.	SERIAL NO.	DoC / FCC	COMMENT
1	CD-RW Dri ve	SANYO	CRD-RW2	38900002	JBQCDR018	EUT
2	SCSI II board	Adaptec	AHA-2940	BB0E64705T3	FGTAHA2940	
3	Main board	COMPAQ	N/A	N/A	N/A	
4	Personal Computer	COMPAQ	3590	238334-001	CNT75MEZ6	
5	Headphone	FISHER	N/A	N/A	N/A	
6	Speaker	Panasoni c	RP-SP30	N/A N/A		
7	Pri nter	HP	C4555A	SG69A1425N	B94C4555X	
8	Di spl ay	Gol dstar	Studio Works 56i	15005G004960	BEJCS585	
9	Modem	US Robotics	839	000839032BK6 YV4J	DoC	
10	AC adapter	US Robotics	N/A	N/A	N/A	For Modem
11	Keyboard	COMPAQ	Enhanced III Keyboard	140536-101	AQ6ZG-CCC	
12	Mouse	Mi crosoft	PS/2 Compatible Mouse	858487	C3K76FPS26 C	

CABLES INFORMATION

NO	CABLE	COMPAN	LENGTH	SHIFT DED		Connec ^o Si tuati		COMMENT
•	CABLL	Υ	[m]	Cabl e	Connec tor	From	То	COMMENT
а	SCSI II	N/A	0. 4	Unshi el d	Plasti	EUT	SCSI	
	cabl e			ed	С		board	
b	Audio cable	N/A	0. 4	Unshi el d	Plasti	EUT	Mai n	
				ed	С		board	
С	Headphone	N/A	2.0	Unshi el d	Metal	EUT	Headphon	
	cabl e			ed			е	
d	Speaker	N/A	1.0	Unshi el d	Metal	PC	Speaker	
	cabl e			ed				
е	Centroni cs	EPSON	2. 0	Shi el ded	Metal	PC	Pri nter	*
	cabl e							

FCC ID: JBQCDR018

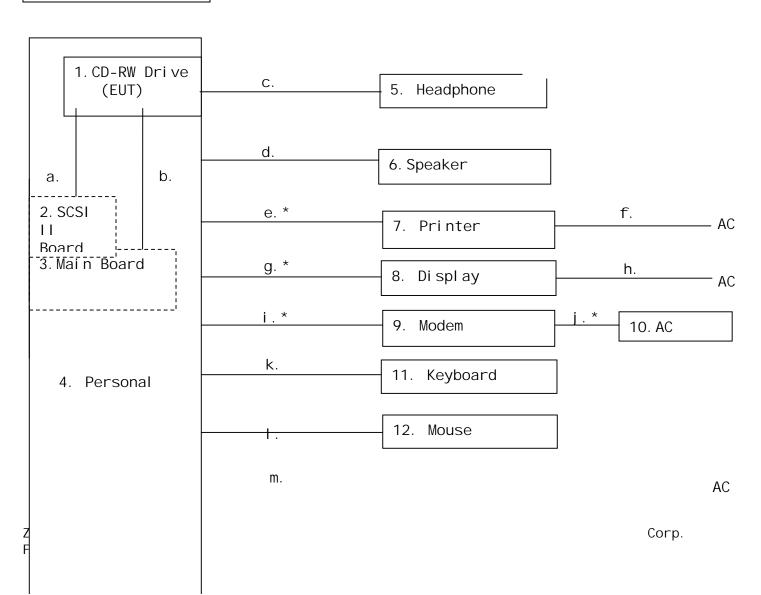
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f	AC power	N/A	2.0	Shi el ded	Plasti	Pri nter	AC	For
	cord				С		outl et	Pri nter
g	Vi deo cabl e	Gol dst	1.5	Shi el ded	Metal	PC	Di spl ay	*
		ar						
h	AC power	Gol dst	2. 2	Unshi el d	Plasti	Di spl ay	AC	For
	cord	ar		ed	С		outl et	Di spl ay
i	RS232C cable	INMAC	2. 0	Shi el ded	Metal	PC	Modem	*
j	DC cable	N/A	2. 0	Unshi el d	Metal	Modem	AC	For Modem
				ed			adapter	
k	Keyboard	N/A	1.5	Unshi el d	Metal	PC	Keyboard	Coi I ed
	cabl e			ed				
1	Mouse cable	N/A	1. 5	Unshi el d	Metal	PC	Mouse	
				ed				
m	AC power	COMPAQ	2. 0	Shi el ded	Plasti	PC	AC	For EUT
	cord				С		outl et	

^{*} Bundled to 1.0m

SYSTEM CONFIGURATION



*: Bundled to 1.0m

: Ferrite core

#: Un-detachable cable

Comment: Please note that No. 8 Display in above diagram is certified with the molded ferrite

core on cable. I/F cable is Un-detachable from display and ferrite core is not added during testing.

FCC ID: JBQCDR018

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TEST DATA

= FCC PART15B class B LINE CONDUCTED DATA SHEET =

DATE TESTS : SITE : 1 0F SHEET NO.: 1

99/08/04

COMPANY NAME : SANYO OPERATING MODE: READ MODEL: CRD-RW2

FREQ.	READ. A	READ. B	FACTOR	NET A	NET B	LIMITS	MARGI N	COMMEN
								T
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dB]	
0. 524	33.0	33. 6	0. 1	33. 1	33.7	48.0	-14. 3	*
0. 751	30.0	29. 7	0. 1	30. 1	29.8	48.0	-17. 9	
0.897	30. 1	28. 6	0. 1	30. 2	28. 7	48.0	-17.8	
1. 351	31. 6	29. 5	0.3	31. 9	29.8	48.0	-16. 1	
1. 724	30.8	28. 0	0.3	31. 1	28. 3	48.0	-16. 9	
15. 948	31. 7	31. 6	0.6	32. 3	32. 2	48. 0	-15.7	

FACTOR=LI SN. F+CABLE. F *: The Worst emission

VER. 6. 1

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= FCC PART15B class B LINE CONDUCTED DATA SHEET =

TESTS : SITE : 1 SHEET NO.: 2 DATE

99/08/04

COMPANY NAME : SANYO MODEL: CRD-RW2 OPERATING MODE: WRITE

FREQ.	READ. A	READ. B	FACTOR	NET A	NET B	LIMITS	MARGI N	COMMEN
								T
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dB]	
0. 525	33. 1	33. 5	0. 1	33. 2	33. 6	48.0	-14.4	*
0.750	29. 9	29. 6	0. 1	30.0	29. 7	48.0	-18.0	
0.897	30. 1	28. 7	0. 1	30. 2	28.8	48.0	-17.8	
1. 350	31. 7	29. 5	0.3	32.0	29.8	48.0	-16.0	
1.724	30.8	27. 9	0.3	31. 1	28. 2	48.0	-16. 9	
15 947	31 6	31 6	0.6	32 2	32 2	48 0	-15 8	

FACTOR=LI SN. F+CABLE. F *: The Worst emission

VER. 6. 1

= FCC PART15B class B LINE CONDUCTED DATA SHEET =

DATE OF TESTS: SITE: 1 SHEET NO.: 3

99/08/04

COMPANY NAME : SANYO MODEL: CRD-RW2 OPERATING MODE: AUDIO

CD READ

READ. A READ. B FACTOR FREQ. NET A NET B LIMITS MARGI N COMMEN Т [MHz] [dBuV] [dBuV] [dB] [dBuV] [dBuV] [dBuV] [dB] 0.524 33.0 33.6 0.1 33. 1 33.7 48.0 -14.3 0.750 29.8 29.6 0.1 29.9 29. 7 48.0 -18.1 -17.9 0.899 30.0 28.5 0.1 30. 1 28.6 48.0 1.350 31.7 29.3 0.3 32.0 29.86 48.0 -16.01. 723 30.8 27. 9 0.3 31. 1 28. 2 48.0 -16.9 -15.9 15. 947 31.4 31.5 0.6 32.0 32. 1 48.0

FACTOR=LISN.F+CABLE.F *: The Worst emission

VER. 6. 1

= FCC PART15B class B 3m RADIATED DATA SHEET =

DATE OF TESTS: SITE: 1 SHEET NO.: 4

99/08/04

COMPANY NAME : SANYO MODEL: CRD-RW2 OPERATING MODE: READ

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POL.	FREQ.	READ	FACTOR	NET	LIMITS	MARGI N	COMMENT
[H/V]	[MHz]	[dBuV]	[dB/m]	[dBuV/	[dBuV/	[dB]	
				m]	m]		
V	44. 49	44. 9	-14. 1	30.8	40.0	-9. 2	
Н	66. 43	55. 1	-20. 9	34. 2	40.0	-5.8	
V	66. 43	56. 5	-20. 9	35.6	40.0	-4.4	*
Н	74.73	52. 7	-22. 2	30. 2	40.0	-9.8	
V	75. 77	54. 9	-22. 2	30. 7	40.0	-7.3	
V	99. 57	50. 3	-18. 5	31.8	43.5	-11. 7	
Н	132. 83	46. 7	-14.0	32. 7	43.5	-10.8	
Н	166. 03	48. 1	-11. 8	36. 3	43.5	-7. 2	
Н	232. 40	48. 3	-10. 5	37.8	46.0	-8. 2	
Н	332. 03	44. 5	-12. 9	31. 6	46.0	-14.4	
Н	533. 36	44. 7	-7.9	36.8	46.0	-9. 2	
Н	546. 57	48. 1	-7.7	40. 4	46.0	-5.6	
V	546. 63	49. 2	-7.7	41. 5	46. 0	-4.5	
V	796. 84	41.8	-3.2	38. 6	46.0	-7.4	
Н	796. 85	43. 3	-3.2	40. 1	46.0	-5. 9	

FACTOR=ANT. F+CABLE. F-AMP. G *: The Worst emission

VER. 6. 3

= FCC PART15B class B 3m RADIATED DATA SHEET =

OF ___ TESTS : SITE : 1 DATE SHEET NO.: 5 99/08/04 COMPANY NAME : SANYO MODEL: CRD-RW2 OPERATING MODE: WRITE

POL.	FREQ.	READ	FACTOR	NET	LIMITS	MARGI N	COMMENT
[H/V]	[MHz]	[dBuV]	[dB/m]	[dBuV/	[dBuV/	[dB]	

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				m]	m]			
V	45. 70	43.6	-14.4	29. 2	40.0	-10.8		
Н	66. 42	53. 5	-20. 9	32.6	40.0	-7.4		
V	66. 43	56. 5	-20. 9	35.6	40.0	-4.4	*	
Н	74. 73	52.4	-22. 2	30. 2	40.0	-9.8		
V	75. 76	53. 9	-22. 2	31. 7	40.0	-8. 3		
V	99. 57	48. 9	-18. 5	30. 4	43.5	-13. 1		
Н	132. 83	42. 9	-14.0	28. 9	43.5	-14.6		
Н	166. 03	42.8	-11. 8	31.0	43.5	-12.5		
Н	232. 43	42.6	-10. 5	32. 1	46.0	-13. 9		
Н	332. 03	47. 3	-12. 9	34.4	46.0	-11. 6		
Н	533. 39	45.0	-7. 9	37. 1	46.0	-8. 9		
V	546. 63	45.0	-7.7	37. 3	46. 0	-8. 7		
Н	546. 67	42.7	-7.7	35.0	46.0	-11.0		
V	796. 80	41. 9	-3.2	38. 7	46.0	-7.3		
Н	796. 85	42. 4	-3.2	39. 2	46. 0	-6.8		

FACTOR=ANT. F+CABLE. F-AMP. G *: The Worst emission

VER. 6. 3

= FCC PART15B class B 3m RADIATED DATA SHEET =

DATE	OF	TESTS :	SITE:	1	SHEET NO.:	6	
99/08/	04						
COMPAN	Y NAME	: SANYO	MODEL:	CRD-RW2	OPERATI NG	MODE:	AUDI O
					CD READ		

POL. [H/V]	FREQ. [MHz]	READ [dBuV]	FACTOR [dB/m]		LIMITS [dBuV/	MARGIN [dB]	COMMENT
				_ m]	_ m]		
V	45. 32	44. 1	-14. 4	29. 7	40.0	-10. 3	_
Н	66. 42	54.8	-20. 9	33. 9	40.0	-6. 1	
V	66. 43	56. 2	-20. 9	35. 3	40.0	-4.7	*

FCC ID: JBQCDR018

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Н	74.73	52. 6	-22. 2	30. 4	40.0	-9. 6
V	75. 76	54.4	-22. 2	32. 2	40.0	-7.8
V	99. 57	50. 1	-18. 5	31. 6	43.5	-11. 9
Н	132. 83	45.8	-14.0	31.8	43.5	-11. 7
Н	166. 03	47.7	-11. 8	35. 9	43.5	-7.6
Н	232. 43	47. 6	-10. 5	37. 1	46.0	-8. 9
Н	332. 03	46. 9	-12. 9	34.0	46.0	-12.0
Н	533. 39	45. 2	-7. 9	37.3	46.0	-8. 7
V	545.83	45.8	-7.7	38. 1	46.0	-7. 9
Н	545. 98	46. 7	-7.7	39.0	46.0	-7.0
V	796. 80	41. 9	-3.2	38. 7	46.0	-7.3
Н	796. 85	43.3	-3.2	40. 1	46.0	-5. 9

FACTOR=ANT. F+CABLE. F-AMP. G *: The Worst emission

VER. 6. 3