



February 2007

# **Forms for DVD Format Verification of DVD-RAM Disc (4.7/1.46 Gbytes)**

## **Form 1N to 29N Version 2.3**

*Notice:*

- *These Forms will be revised on occasion for improvement or Version-up of the related Test Specification.*
- *The latest Forms shall be used to fill up the necessary information for application to Verification Lab, according to the related Test Specification.*
- *You can fill up the shaded space in every Form.*
- *"Adobe® Acrobat®" will be necessary for making your own files.*

*Copyright: It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of DVD Format Verification. You may not copy the file or printed version of the document, or any part of it, for any other purpose without prior written permission from **DVD Format/Logo Licensing Corporation**.*

*Exemption: None will be liable for any damages from use of this document.*

## Preliminary Information for DVD Format Verification

Application No. (Lab use)	:	
Application date (mm.dd, yyyy)	:	
Lab receipt date (mm.dd, yyyy)	:	
Lab name	:	

**DVD-RAM Disc or Empty case described below is for DVD Format Verification of the First Production Model.**

- ☐ 2x-speed DVD-RAM Disc (Class 0)
- ☐ 2x/3x-speed DVD-RAM Disc (Class 0)
- ☐ 2x/3x/5x-speed DVD-RAM Disc (Class 0)
- ☐ 6x-speed DVD-RAM Disc (Class 1)
- ☐ 6x/8x-speed DVD-RAM Disc (Class 1)
- ☐ 6x/8x/12x-speed DVD-RAM Disc (Class 1)
- ☐ Empty case for DVD-RAM Disc

Product name	Product number	Notes
Remarks:		

**DVD-RAM Disc described above will be applied for DVD Format Verification by the following applicant.**

Name of applicant	
Title of applicant	
Company & Factory name	
Factory address	
Phone number	
Fax number	
E-mail	

Applicant's Signature:

## Test Information of DVD Format Verification

### DVD Format Verification Lab record (Verification Lab use only)

- Name of Verification Lab :
- Name of inspector :
- Application date :
- Date of test completed :
- Verification number :

### Information of applicant

- Applicant's name :
- Company name :
- Company address :
- Phone number :
- Fax number :

### DVD-RAM Disc details

- Brand / Trade name :
- Product name :
- Product number :
- Disc type : ☐ Single side ☐ Double side
- Capacity : ☐ 4.7Gbytes/side ☐ 1.46Gbytes/side ☐ Others ( )
- Certification : ☐ Certified ☐ Uncertified
- Case type : ☐ Type 1 ☐ Type 2 ☐ Type 3 ☐ Type 4 ☐ Type 5  
☐ Type 6 ☐ Type 7 ☐ Type 8 ☐ Type 9 ☐ Without case
- Label : ☐ Yes ☐ None
- BCA : ☐ Yes ☐ None
- Class : ☐ Class 0 ☐ Class 1
- Other DVD-RAM discs or empty case that the applicant already passed verification.
 

<input type="checkbox"/> 2x-speed DVD-RAM Disc Class 0 <input type="checkbox"/> 2x/3x-speed DVD-RAM Disc Class 0 <input type="checkbox"/> 2x/3x/5x-speed DVD-RAM Disc Class 0 <input type="checkbox"/> 6x-speed DVD-RAM Disc Class 1 <input type="checkbox"/> 6x/8x-speed DVD-RAM Disc Class 1 <input type="checkbox"/> 6x/8x/12x-speed DVD-RAM Disc Class 1		<input type="checkbox"/> DVD-RAM Disc with case <input type="checkbox"/> Empty case for DVD-RAM Disc
---	--	---

## Check list of Forms for Submission

Forms	Title of Forms	Applicant check
1N	Preliminary Information	<input type="checkbox"/>
2N	Test Information	<input type="checkbox"/>
28N	Test result summary	<input type="checkbox"/>

2x-speed DVD-RAM Disc				
	Form 3N to 14N	Form 19N (for 2x)	---	<input type="checkbox"/>
	Form 15N (for 2x)	Form 20N (for 2x)	---	
	Form 16N (for 2x)	Form 21N (for 2x)	---	
	Form 17N (for 2x)	Form 22N (for 2x)	---	
	Form 18N (for 2x)	---		
2x/3x-speed DVD-RAM Disc				
	Form 3N to 14N	Form 19N (for 2x and 3x)	Form 24N (for 2x and 3x)	<input type="checkbox"/>
	Form 15N (for 2x and 3x)	Form 20N (for 2x)	---	
	Form 16N (for 2x and 3x)	Form 21N (for 2x)	---	
	Form 17N (for 2x and 3x)	Form 22N (for 2x)	---	
	Form 18N (for 2x and 3x)	Form 23N (for 2x and 3x)		
2x/3x/5x-speed DVD-RAM Disc				
	Form 3N to 14N	Form 19N (for 2x and 5x)	Form 24N (for 2x and 5x)	<input type="checkbox"/>
	Form 15N (for 2x, 3x and 5x)	Form 20N (for 2x)	Form 25N	
	Form 16N (for 2x, 3x and 5x)	Form 21N (for 2x)	Form 26N	
	Form 17N (for 2x and 5x)	Form 22N (for 2x)	---	
	Form 18N (for 2x and 5x)	Form 23N (for 2x and 5x)		
6x-speed DVD-RAM Disc				
	Form 3N to 14N	Form 19N (for 6x)	---	<input type="checkbox"/>
	Form 15N (for 6x)	Form 20N (for 6x)	---	
	Form 16N (for 6x)	Form 21N (for 6x)	---	
	Form 17N (for 6x)	Form 22N (for 6x)	Form 27N	
	Form 18N (for 6x)	---		
6x/8x-speed DVD-RAM Disc				
	Form 3N to 14N	Form 19N (for 6x and 8x)	Form 24N (for 6x and 8x)	<input type="checkbox"/>
	Form 15N (for 6x and 8x)	Form 20N (for 6x)	Form 25N	
	Form 16N (for 6x and 8x)	Form 21N (for 6x)	Form 26N	
	Form 17N (for 6x and 8x)	Form 22N (for 6x)	Form 27N	
	Form 18N (for 6x and 8x)	Form 23N (for 6x and 8x)		
6x/8x/12x-speed DVD-RAM Disc				
	Form 3N to 14N	Form 19N (for 6x and 12x)	Form 24N (for 6x and 12x)	<input type="checkbox"/>
	Form 15N (for 6x, 8x and 12x)	Form 20N (for 6x)	Form 25N	
	Form 16N (for 6x, 8x and 12x)	Form 21N (for 6x)	Form 26N	
	Form 17N (for 6x and 12x)	Form 22N (for 6x)	Form 27N	
	Form 18N (for 6x and 12x)	Form 23N (for 6x and 12x)		
Empty case Form 28N (Dimension of the DVD-RAM Disc Case)				<input type="checkbox"/>

## Test result of the Mechanical parameter

Para-graph**	Items	Measuring points	Specification		Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.4.2	Outer diameter(D5)		12cm disc	120.0 ± 0.3	mm		*	
			8cm disc	80.0 ± 0.3			*	
2.4.4	Center-hole diameter (One sides of the disc)		15.00 to 15.15		mm		*	
2.4.5	Center-hole diameter (Both side put together)		15.00 min.		mm			
2.4.6	Edge shape		refer to DVD-RAM Book Part 1 V2.2				*	
2.4.7	Thickness of a disc	R=25mm	1.14 to 1.50		mm			
		R=41mm (12cm only)						
		Outer edge						
2.4.11	Thickness of a disc in clamping area		1.10 to 1.40		mm			
2.4.12	Mass of a disc		12cm disc	14.0 to 20.0	g		*	
			8cm disc	6.0 to 9.0			*	
2.4.13	Moment of Inertia		12cm disc	0.040 max.	g•m <sup>2</sup>		*	
			8cm disc	0.010 max.			*	
2.4.14	Dynamic imbalance		12cm disc	0.010 max. #1) 0.0044 max. #2) 0.0025 max. #3) 0.0022 max. #4) 0.0020 max. #5) 0.0020 max.	g•m		*	
			8cm disc	0.0045 max. #1) 0.0020 max. #2) 0.0011 max. #3) 0.0010 max. #4) 0.0009 max.			*	

\*: The parameter indicated should be subject to checking for correctness by Class-A lab verification.

In general these values can only be checked indirectly or via a destructive process or are only available during the production process. Licensee is requested to report on these issues.

\*\* : Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

#1): Refer to Optional specifications 3x-speed DVD-RAM Rev. 1.0.

#2): Refer to Optional specifications 5x-speed DVD-RAM Rev. 2.0.

#3): Refer to Optional specifications 6x-speed DVD-RAM Rev. 3.0.

#4): Refer to Optional specifications 8x-speed DVD-RAM Rev. 4.0.

#5): Refer to Optional specifications 12x-speed DVD-RAM Rev. 5.0.

## Test result of the Optical parameter

Para-graph**	Items		Specification	Unit	Measurement value		Judgment (Lab use)
					Applicant	Lab.	
2.5.2	Refractive Index (RI) of substrate		$1.55 \pm 0.10$			*	
2.5.3 a	Angular deviation (Radial deviation)	Max	$\pm 0.70$	deg			
		Min.					
2.5.3 b	Angular deviation (Tangential deviation)	Max	$\pm 0.30$	deg			
		Min.					
2.5.4	Birefringence of transparent substrate	Max	60 max.	nm			
		Min.					
2.5.5 a	Reflectivity including birefringence (Rewritable data zone)	Max	15 to 25	%			
		Min.					
2.5.5 b	Reflectivity including birefringence (Embossed data zone)	Max	15 to 25	%			
		Min.					

\*: The parameter indicated should be subject to checking for correctness by Class-A lab verification.

In general these values can only be checked indirectly or via a destructive process or are only available during the production process. Licensee is requested to report on these issues.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

## Test result of the Recorded parameter

Para-graph**	Items		Specification		Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.6.4	Starting diameter of Embossed data zone in Lead-in area		45.2 max.		mm		*	
2.6.5	Starting diameter of Rewritable data zone in Lead-in area		47.6 to 48.0		mm		*	
2.6.6	Maximum diameter of Data area		12cm disc	115.78	mm		*	
			8cm disc	76.1			*	
2.6.8	Outer diameter of Lead-out area		12cm disc	116.8 to 117.2	mm		*	
			8cm disc	76.6 to 77.0			*	
2.6.10 a	Deviation from nominal value below the rotational frequency	Max	12cm disc	$\pm 0.3$ #1) $\pm 0.15$	mm			
		Min						
		Max	8cm disc	$\pm 0.2$ #2) $\pm 0.10$				
		Min						
2.6.10 b	Allowed error below 10KHz measured using the reference servo for axial tracking	Max	$\pm 0.23$		$\mu\text{m}$			
		Min						
2.6.11 a	Radial deviation (Radial run-out of track below the rotational frequency)		50 max. #3) 40 max.		$\mu\text{m}$ (P-P)			
2.6.11 b	Radial deviation (Allowed error below 2.3KHz)	Max	$\pm 0.022$		$\mu\text{m}$			
		Min						
2.6.11 c	Radial deviation / Embossed data zone (r.m.s.Noise value)	Max	0.025 max.		$\mu\text{m}$			
		Min						
2.6.11 c	Radial deviation / Rewritable data zone (r.m.s.Noise value)	Max	0.016 max.		$\mu\text{m}$			
		Min						

\*: The parameter indicated should be subject to checking for correctness by Class-A lab verification.

In general these values can only be checked indirectly or via a destructive process or are only available during the production process. Licensee is requested to report on these issues.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

#1): Refer to Optional Specifications 5x-speed Rev. 2.0 / 6x-speed Rev. 3.0 / 8x-speed Rev. 4.0 / 12x-speed Rev. 5.0.

#2): Refer to Optional Specifications 5x-speed Rev. 2.0 / 6x-speed Rev. 3.0 / 8x-speed Rev. 4.0.

#3): Refer to Optional Specifications 5x-speed Rev. 2.0 / 6x-speed Rev. 3.0 / 8x-speed Rev. 4.0 / 12x-speed Rev. 5.0.

## Test result of the Information Area Format

Bit assignment of Physical format information (1)

BP	Item*1	Applicant	Lab	
0	Book type and Compatible Part version		<input type="checkbox"/> OK	<input type="checkbox"/> NG
1	Disc size and Maximum transfer rate of the disc		<input type="checkbox"/> OK	<input type="checkbox"/> NG
2	Disc structure		<input type="checkbox"/> OK	<input type="checkbox"/> NG
3	Recording density		<input type="checkbox"/> OK	<input type="checkbox"/> NG
4 to 15	Data area allocation (12 bytes, Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG
16	NBCA descriptor		<input type="checkbox"/> OK	<input type="checkbox"/> NG
17	Revision number of maximum recording speed		<input type="checkbox"/> OK	<input type="checkbox"/> NG
18	Revision number of minimum recording speed		<input type="checkbox"/> OK	<input type="checkbox"/> NG
19 to 25	Revision number table of recording speed (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG
26	Class		<input type="checkbox"/> OK	<input type="checkbox"/> NG
27	Extended Part Version		<input type="checkbox"/> OK	<input type="checkbox"/> NG
32	Disc type identification for a disc which has Class 0		<input type="checkbox"/> OK	<input type="checkbox"/> NG
33	Disc type identification for a disc which does not have Class 0		<input type="checkbox"/> OK	<input type="checkbox"/> NG
500	Velocity		<input type="checkbox"/> OK	<input type="checkbox"/> NG
501	Read power		<input type="checkbox"/> OK	<input type="checkbox"/> NG
502 to 548	2x-speed recording parameters (47 bytes, Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG
613 to 623	Write power control parameters of 2x-speed recording (11 bytes, Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG
700 to 757	3x-speed recording parameters (58 bytes, Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG
800 to 859	5x-speed recording parameters (60 bytes, Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG
860	Compliant field		<input type="checkbox"/> OK	<input type="checkbox"/> NG

\*1: Refer to 5.7.1.5.1 of DVD Specifications for Rewritable Disc Part 1 Ver. 2.2 , and 3.1.1 of Optional Specifications 3x-speed DVD-RAM and 5x-speed DVD-RAM.



## Test result of the Information Area Format

Bit assignment of Physical format information (2)

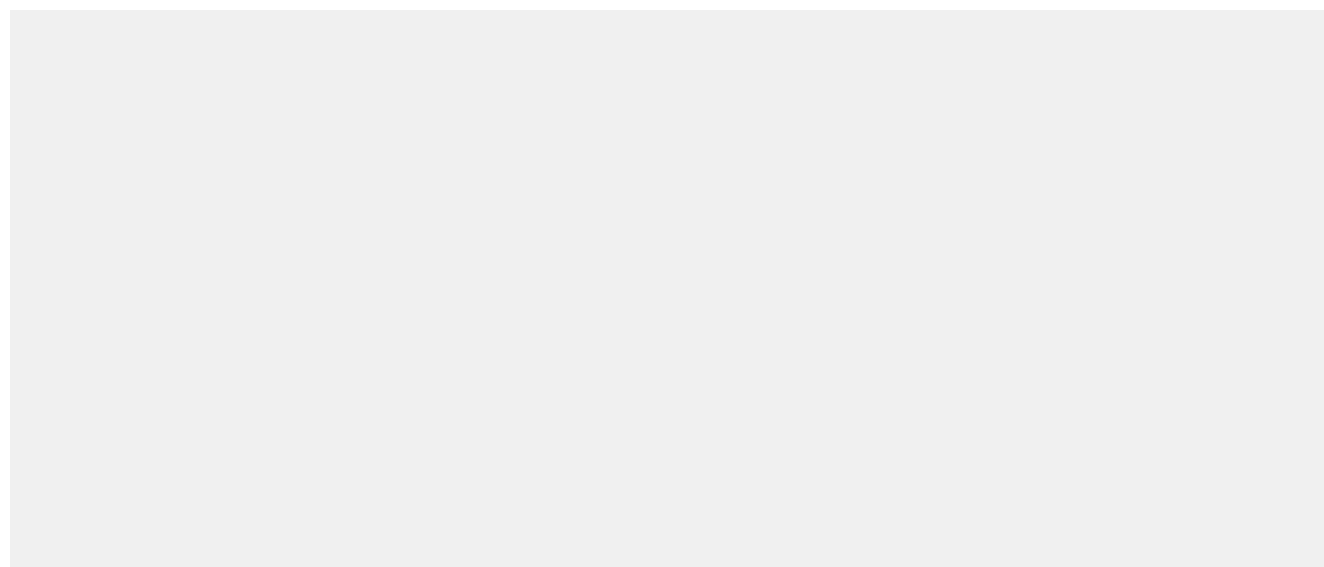
BP	Item*1	Applicant	Lab	
1000 to 1072	6x-speed recording parameters (73 bytes, Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG
1100 to 1172	8x-speed recording parameters (73 bytes, Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG
1200 to 1272	12x-speed recording parameters (73 bytes, Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG

\*1: Refer to 5.7.1.5.1 of DVD Specifications for Rewritable Disc Part 1 Ver. 2.2 , and 3.1.1 of Optional Specifications 6x-speed DVD-RAM, 8x-speed DVD-RAM and 12x-speed DVD-RAM.

Bit assignment of Disc identification information in both Lead-in area and Lead-out area

BP	Item*2	Applicant	Lab	
0	Write-inhibit flag for a disc which has Class 0		<input type="checkbox"/> OK	<input type="checkbox"/> NG
1	Write-inhibit flag for a disc which does not have Class 0		<input type="checkbox"/> OK	<input type="checkbox"/> NG

\*2: Refer to 5.7.1.11.1 of DVD Specifications for Rewritable Disc Part 1 Ver. 2.2.



### Test result of the Burst Cutting Area Code

Para-graph**	Items	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
V.2	Location of starting radius	21.9 to 22.3	mm		*	
	Location of ending radius	23.45 to 23.55	mm		*	
V.9.2.a	IBMmax. / IBSmin.	0.8 max.				
	IBRmax. / IBS	1.5 max.				
V.9.2.c	Jitter	8.5 max.	%			

\*: The parameter indicated should be subject to checking for correctness by Class-A lab verification.

In general these values can only be checked indirectly or via a destructive process or are only available during the production process. Licensee is requested to report on these issues.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

## Test result of the Signals from Embossed data zone

Para-graph**	Items	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
2.7.4.1 a	Jitter	less than 8.0	%			
2.7.4.1 b	I <sub>14</sub> /I <sub>14H</sub>	0.35 min.				
	I <sub>3</sub> /I <sub>14</sub>	0.35 min.				
	(I <sub>14Hmax</sub> - I <sub>14Hmin</sub> ) / I <sub>14Hmax</sub> Within one read-out side of a disc	0.33 max.			*	
	(I <sub>14Hmax</sub> - I <sub>14Hmin</sub> ) / I <sub>14Hmax</sub> Within one revolution	0.15 max.				
2.7.4.1 c	[ (I <sub>14H</sub> + I <sub>14L</sub> ) - (I <sub>3H</sub> + I <sub>3L</sub> ) ] / 2I <sub>14</sub>	-0.05 to 0.15				
2.7.4.1 d	I <sub>t</sub> / I <sub>h</sub>	0.10 min.				
2.7.4.2 a	Δt / T	0.5 to 1.1				
	(T <sub>1</sub> - T <sub>2</sub> ) / (T <sub>1</sub> + T <sub>2</sub> )	0.2 max.				
2.7.4.2 b	[ (I <sub>a</sub> + I <sub>d</sub> ) - (I <sub>b</sub> + I <sub>c</sub> ) ] p p / I <sub>14</sub>	1.2 max.				

\*: The parameter indicated should be subject to checking for correctness by Class-A lab verification.

In general these values can only be checked indirectly or via a destructive process or are only available during the production process. Licensee is requested to report on these issues.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

## Test result of the Signal from groove and land in the unwritten recording field

Para-graph**	Items	Zone*	Specification	Unit	Measurement value		Judgment (Lab use)
					Applicant	Lab.	
2.7.2.1	$(I_1 - I_2)_{pp} / (I_1 + I_2)_a$	Zone 0	0.35 to 1.05				
		Zone 34					
2.7.2.2	$[(I_1 - I_2) / (I_1 + I_2)]_{pp}$	Zone 0	1.10 to 1.65				
		Zone 34					
	$\{ [(I_1 - I_2) / (I_1 + I_2)]_{pp} \}_{\min} / \{ [(I_1 - I_2) / (I_1 + I_2)]_{pp} \}_{\max}$	Zone 0	0.70 min.				
		Zone 34					
2.7.2.3a	On-track signal on groove track	Zone 0	0.56 to 0.80				
		Zone 34					
2.7.2.3b	On-track signal on land track	Zone 0	0.56 to 0.80				
		Zone 34					
2.7.2.3b	On track signal (Iot)groove / (Iot)land	Zone 0	0.9 to 1.1				
		Zone 34					
2.7.2.5a	SNR of the wobble signal on groove track	Zone 0	34 min.	dB			
		Zone 34					
	SNR of the wobble signal on land track	Zone 0	34 min.	dB			
		Zone 34					
		Zone 34					
2.7.2.5a	$W_{pp} / (I_1 - I_2)_{pp}$ on groove track	Zone 0	0.05 to 0.10				
		Zone 34					
2.7.2.5b	$W_{pp} / (I_1 - I_2)_{pp}$ on land track	Zone 0	0.05 to 0.10				
		Zone 34					

\*: In the case of 80mm size disc, measurement points are Zone 0 and Zone 13.

\*\* : Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

## Test result of the Signal from Header field in Rewritable data zone (1)

Para-graph**	Items	Measuring points*			Specification	Unit	Measurement value		Judgment (Lab use)
							Applicant	Lab.	
2.7.3	Jitter  (Both Read channel 1 and 2)	Zone 0	ID 1,2	G	Less than 9.0	%			
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					
2.7.3.1	Ivfo/I <sub>0</sub>	Zone 0	ID 1,2	G	0.14 min.				
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					
	Isvfo/I <sub>0</sub>	Zone 0	ID 1,2	G	0.14 min.				
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					

\*: In the case of 80mm size disc test, measurement points are Zone 0 and Zone 13.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

Para-graph**	Items	Measuring points*			Specification	Unit	Measurement value		Judgment (Lab use)
							Applicant	Lab.	
2.7.3.1	Ivfo/Ihmax	Zone 0	ID 1,2	G	0.37 min.				
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					

\*: In the case of 80mm size disc test, measurement points are Zone 0 and Zone 13.

\*\* : Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2

## Test result of the Signal from Header field in Rewritable data zone (2)

Para-graph**	Items	Measuring points*			Specification	Unit	Measurement value		Judgment (Lab use)
							Applicant	Lab.	
2.7.3.1	Isvfo/Ishmax	Zone 0	ID 1,2	G	0.37 min.				
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					
2.7.3.2	Ishmin/I0	Zone 0	ID 1,2	G	0.043 min.				
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					
	Ishmax/I0	Zone 0	ID 1,2	G	0.23 min.				
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					

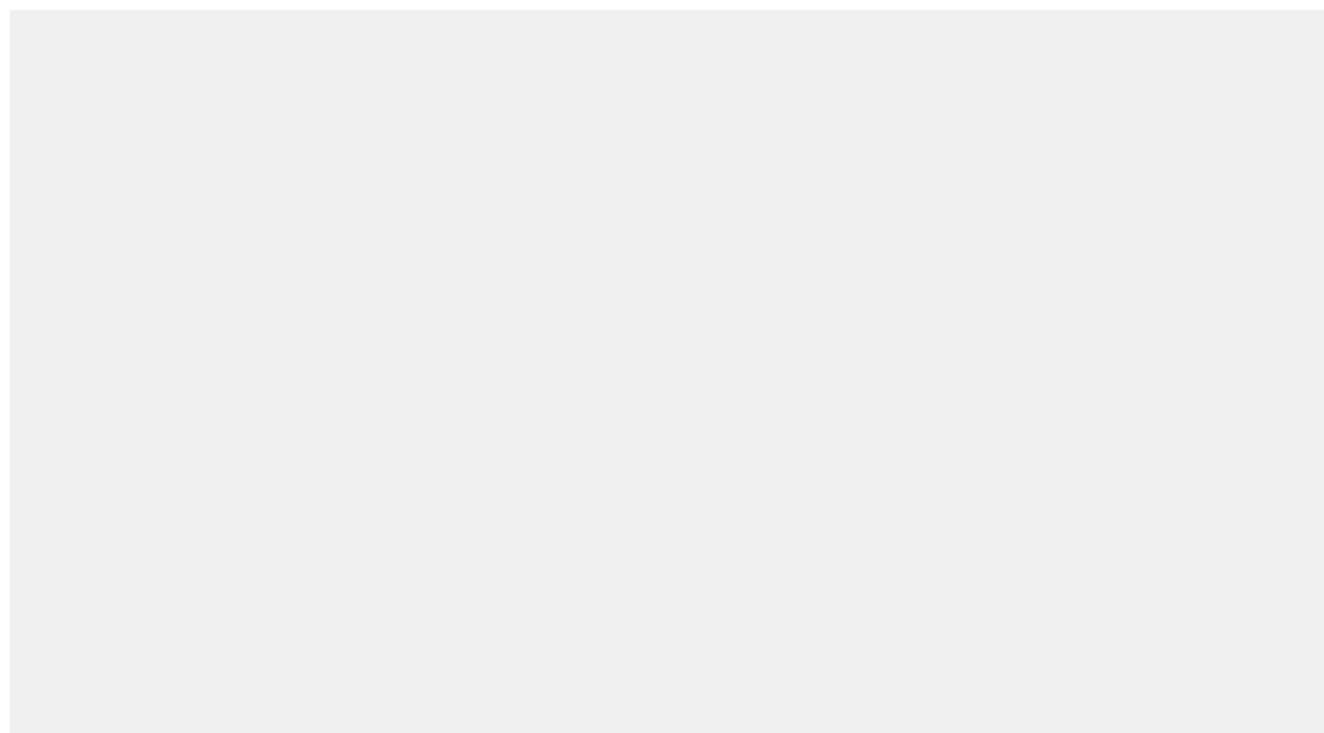
\*: In the case of 80mm size disc test, measurement points are Zone 0 and Zone 13.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

Para-graph**	Items	Measuring points*			Specification	Unit	Measurement value		Judgment (Lab use)
							Applicant	Lab.	
2.4.3.2	I <sub>hmin</sub> /I <sub>hmax</sub>	Zone 0	ID 1,2	G	0.10 min.				
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					
	I <sub>shmin</sub> /I <sub>shmax</sub>	Zone 0	ID 1,2	G	0.17 min.				
				L					
			ID 3,4	G					
				L					
		Zone 34	ID 1,2	G					
				L					
			ID 3,4	G					
				L					

\*: In the case of 80mm size disc test, measurement points are Zone 0 and Zone 13.

\*\* : Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.





## Test result of the Signal from Header field in Rewritable data zone (3)

Para-graph**	Items	Measuring points		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.7.3.3	IAMHD2/IAMHD1	Zone 0	G	0.9 to 1.1				
			L					
		Zone 34	G					
			L					
	IAMHD4/IAMHD3	Zone 0	G	0.9 to 1.1				
			L					
		Zone 34	G					
			L					
	IAM13/IAMHD1	Zone 0	G	0.8 min.				
			L					
		Zone 34	G					
			L					
	IAM31/IAMHD3	Zone 0	G	0.8 min.				
			L					
		Zone 34	G					
			L					
	ISAMHD2/ISAMHD1	Zone 0	G	0.9 to 1.1				
			L					
		Zone 34	G					
			L					
	ISAMHD4/ISAMHD3	Zone 0	G	0.9 to 1.1				
			L					
		Zone 34	G					
			L					

\*: In the case of 80mm size disc test, measurement points are Zone 0 and Zone 13.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

## Test result of the Signal from Header field in Rewritable data zone (4)

Para-graph**	Items	Measuring points*			Specification	Unit	Measurement value		Judgment (Lab use)
							Applicant	Lab.	
2.7.3.3	Signal from Header1,2,3&4 ( $I_{\beta\text{HHD}} - I_{\alpha\text{HHD}}$ ) / $2I_{\text{AMHD}}$	Zone 0	ID 1	G	-0.10 to 0.10				
				L					
			ID 2	G					
				L					
			ID 3	G					
				L					
			ID 4	G					
				L					
		Zone 34	ID 1	G					
				L					
			ID 2	G					
				L					
			ID 3	G					
				L					
	Signal from Header 1,2,3&4 ( $I_{\beta\text{HHD}} - I_{\alpha\text{HHD}}$ ) / $2I_{\text{SAMHD}}$	Zone 0	ID 1	G	-0.10 to 0.10				
				L					
			ID 2	G					
				L					
			ID 3	G					
				L					
		Zone 13	ID 4	G					
				L					
			ID 1	G					
				L					
			ID 2	G					
				L					

\*: In the case of 80mm size disc test, measurement points are Zone 0 and Zone 13.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

Para-graph**	Items	Measuring points*			Specification	Unit	Measurement value		Judgment (Lab use)
							Applicant	Lab.	
2.7.3.3	Signal from Header 1,2,3&4 ( IsβHD – IsαHD) / 2ISαMHD	Zone 34	ID 1	G	–0.10 to 0.10				
				L					
			ID 2	G					
				L					
			ID 3	G					
				L					
			ID 4	G					
				L					
	(ISVFOHD1 – ISVFOHD3)/ (ISVFOHD1+ISVFOHD3)   at radial tilt = 0, I1 – I2 =0	Zone 0	G		less than 0.03				
			L						
		Zone 34	G						
			L						
	Δ [ (ISVFOHD1 – ISVFOHD3)/ (ISVFOHD1+ISVFOHD3) ]   at 0.05 μm radial offset and radial tilt = 0	Zone 0	G		0.04 min.				
			L						
		Zone 34	G						
			L						

\*: In the case of 80mm size disc test, measurement points are Zone 0 and Zone 13.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

## Test result of error ratio of CAPA

Para-graph	Item	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	Address Error Ratio (AER)	Recommended Specification $1 \times 10^{-4}$ max.				
	Number of PID error sectors	----				
	Number of measured sectors	----				

## Test result of the Recording layer

Recording speed \*\*\* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

Best write strategy described in Lead-in area of the disc

	For Groove		For Land
• Peak power (Pp)	<input type="text"/>	mW	<input type="text"/>
• Bias power1 (PB1)	<input type="text"/>	mW	<input type="text"/>
• Bias power2 (PB2)	<input type="text"/>	mW	<input type="text"/>
• Bias power3 (PB3)	<input type="text"/>	mW	<input type="text"/>

- Mode flag of adaptive write pulse control

$T_{MP}$   ns or T/16  
 $T_{LC}$   ns or T/16

☐ case 1 ☐ case 2

$T_{EFP}$   ns or T/16  $T_{FP}$   ns or T/16  
 $T_{SLP}$   ns or T/16  $T_{LP}$   ns or T/16

- Adaptive write control tables

First pulse start time $T_{SFP}$ (ns or T/16)		Mark Length			
		3T	4T	5T	>5T
Leading space length	3T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	4T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	>5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Last pulse end time $T_{ELP}$ (ns or T/16)		Mark Length			
		3T	4T	5T	>5T
Trailing space length	3T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	4T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	>5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

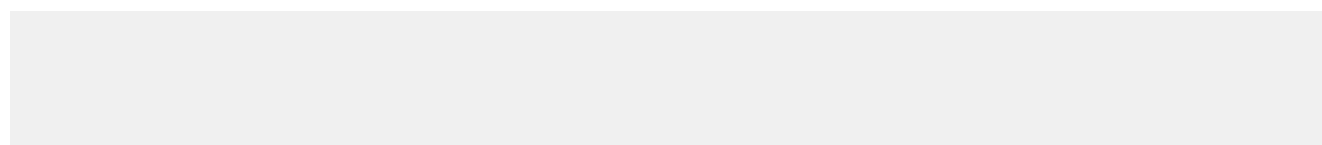
Para-graph**	Items	Measuring points*		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.8.2 a	Jitter	Zone n	G	less than 9.0	%			
			L					
		Zone m	G					
			L					
2.8.2 b	I14 / I14H	Zone n	G	0.40 min.				
			L					
		Zone m	G					
			L					
	I3 / I14	Zone n	G	0.15 min.				
			L					
		Zone m	G					
			L					
	$(I_{14\max} - I_{14\min}) / I_{14\max}$ within one sector	Zone n	G	0.10 max.				
			L					
		Zone m	G					
			L					
	$(I_{14H\max} - I_{14H\min}) / I_{14H\max}$ within one read-out side of a disc	Zone n	G	0.33 max.				
			L					
		Zone m	G					
			L					
	$(I_{14H\max} - I_{14H\min}) / I_{14H\max}$ within one track	Zone n	G	0.15 max.				
			L					
		Zone m	G					
			L					
	$[ (I_{14H} + I_{14L}) - (I_{3H} + I_{3L}) ] / 2(I_{14H} - I_{14L})$	Zone n	G	-0.05 to 0.15				
			L					
		Zone m	G					
			L					

\*: Measuring zone:

Recording speed Disc size	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
12 cm (Zone n/m)	Z0/Z34	Z0/Z34	Z0/Z34	Z0/Z34	Z17/Z34	- / Z34
8 cm (Zone n/m)	Z0/Z13	Z0/Z13	Z0/Z13	Z0/Z13	- /Z13	- /-

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

\*\*\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.



## Test result of the Signal from groove and land in the written recording field

Recording speed \*\*\* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

Para-graph**	Items	Zone*	Specification	Unit	Measurement value		Judgment (Lab use)
					Applicant	Lab.	
2.7.2.1	(I <sub>1</sub> - I <sub>2</sub> )pp / (I <sub>1</sub> + I <sub>2</sub> )a Written Recording field	Zone n	0.35 to 1.05				
		Zone m					
2.7.2.2	[ (I <sub>1</sub> - I <sub>2</sub> ) / (I <sub>1</sub> + I <sub>2</sub> ) ]pp Written Recording field	Zone n	1.10 to 1.65				
		Zone m					
	{ [ (I <sub>1</sub> - I <sub>2</sub> ) / (I <sub>1</sub> + I <sub>2</sub> ) ]pp }min / { [ (I <sub>1</sub> - I <sub>2</sub> ) / (I <sub>1</sub> + I <sub>2</sub> ) ]pp }max in the written Recording fields	Zone n	0.70 min.				
		Zone m					
2.7.2.5b	SNR of the wobble signal on written groove track	Zone n	34 min.	dB			
		Zone m					
	SNR of the wobble signal on written land track	Zone n	34 min.	dB			
		Zone m					

\*: Measuring zone:

Recording speed Disc size	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
12 cm (Zone n/m)	Z0/Z34	Z0/Z34	Z0/Z34	Z0/Z34	Z17/Z34	- / Z34
8 cm (Zone n/m)	Z0/Z13	Z0/Z13	Z0/Z13	Z0/Z13	- /Z13	- /-

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

\*\*\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

## Test result of the Power margin

Recording speed \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

(Groove)

Condition A:

Peak power Pp  mW Bias power PB1  mW PB2  mW PB3  mW

Condition B:

Pp×1.05  mW PB1×1.05  mW PB2×1.05  mW PB3×1.05  mW

Condition C:

Pp×0.90  mW PB1×0.90  mW PB2×0.90  mW PB3×0.90  mW

(Land)

Condition A:

Peak power Pp  mW Bias power PB1  mW PB2  mW PB3  mW

Condition B:

Pp × 1.05  mW PB1×1.05  mW PB2×1.05  mW PB3×1.05  mW

Condition C:

Pp × 0.90  mW PB1×0.90  mW PB2×0.90  mW PB3×0.90  mW

(Measuring Item : Deviation between leading edge jitter and trailing edge jitter)

Para-graph	Test Condition	G/L **	Specification	Unit	Leading edge jitter–Trailing edge jitter		Judgment (Lab use)
					Applicant	Lab.	
	10 times overwrite with Condition A	G	Recommended Specification – 1.0 to 1.0	%			
		L					
	10 times overwrite with Condition B	G					
		L					
	10 times overwrite with Condition C	G					
		L					

(Measuring Item : Asymmetry)

Para-graph	Test Condition	G/L **	Specification	Unit	Leading edge jitter–Trailing edge jitter		Judgment (Lab use)
					Applicant	Lab.	
	10 times overwrite with Condition A	G	Recommended Specification – 0.05 to 0.15				
		L					
	10 times overwrite with Condition B	G					
		L					
	10 times overwrite with Condition C	G					
		L					

\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

\*\* : Measuring zone:

Recording speed Disc size	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
12 cm	Z0	Z0	Z0	Z0	Z17	Z34
8 cm	Z0	Z0	Z0	Z0	Z13	-



## Test result of the Cross Power Over-write

Recording speed \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

(Groove)

Condition A:

Peak power Pp  mW Bias power PB1  mW PB2  mW PB3  mW

Condition B:

Pp×1.05  mW PB1×1.05  mW PB2×1.05  mW PB3×1.05  mW

Condition C:

Pp×0.90  mW PB1×0.90  mW PB2×0.90  mW PB3×0.90  mW

(Land)

Condition A:

Peak power Pp  mW Bias power PB1  mW PB2  mW PB3  mW

Condition B:

Pp×1.05  mW PB1×1.05  mW PB2×1.05  mW PB3×1.05  mW

Condition C:

Pp×0.90  mW PB1×0.90  mW PB2×0.90  mW PB3×0.90  mW

## Zone n\*\*

Para-graph	Overwrite Cycles	Write Power Condition (Peak/ Bias power)	G/L	Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
	1	Condition A	G	Recommended Specification 12.0 max.	%			
			L					
	2	Condition A	G					
			L					
	3	Condition A	G					
			L					
	4	Condition B	G					
			L					
	5	Condition A	G					
			L					
	6	Condition A	G					
			L					
	7	Condition A	G					
			L					

\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

\*\*: Measuring zone:

Recording speed	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
Disc size						
12 cm (Zone n/m)	Z0/Z34	Z0/Z34	Z0/Z34	Z0/Z34	Z17/Z34	- / Z34
8 cm (Zone n/m)	Z0/Z13	Z0/Z13	Z0/Z13	Z0/Z13	- /Z13	- /-

Para-graph	Overwrite Cycles	Write Power Condition (Peak/ Bias power)	G/L	Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
	8	Condition C	G	Recommended Specification 12.0 max.	%			
			L					
	9	Condition A	G					
			L					
	10	Condition A	G					
			L					
	11	Condition A	G					
			L					
	12	Condition B	G					
			L					
	13	Condition C	G					
			L					
	14	Condition A	G					
			L					
	15	Condition A	G					
			L					
	16	Condition A	G					
			L					
	17	Condition C	G					
			L					
	18	Condition B	G					
			L					
	19	Condition A	G					
			L					
	20	Condition A	G					
			L					
	21	Condition A	G					
			L					

## Zone m\*\*

Para-graph	Overwrite Cycles	Write Power Condition (Peak/ Bias power)	G/L	Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
	1	Condition A	G	Recommended Specification 12.0 max.	%			
			L					
	2	Condition A	G					
			L					
	3	Condition A	G					
			L					
	4	Condition B	G					
			L					
	5	Condition A	G					
			L					
	6	Condition A	G					
			L					
	7	Condition A	G					
			L					
	8	Condition C	G					
			L					
	9	Condition A	G					
			L					
	10	Condition A	G					
			L					
	11	Condition A	G					
			L					
	12	Condition B	G					
			L					
	13	Condition C	G					
			L					
	14	Condition A	G					
			L					
	15	Condition A	G					
			L					

Para-graph	Overwrite Cycles	Write Power Condition (Peak/ Bias power)	G/L	Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
	16	Condition A	G	Recommended Specification 12.0 max.	%			
			L					
	17	Condition C	G					
			L					
	18	Condition B	G					
			L					
	19	Condition A	G					
			L					
	20	Condition A	G					
			L					
	21	Condition A	G					
			L					

## Test result of the Cross erasing

Recording speed \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

(Groove)

Condition A: Peak power (Pp)  mW

Bias power1 (PB1)  mW

Bias power2 (PB2)  mW

Bias power3 (PB3)  mW

(Land)

Condition A: Peak power (Pp)  mW

Bias power1 (PB1)  mW

Bias power2 (PB2)  mW

Bias power3 (PB3)  mW

(Track #N = Groove) \*\*

Para-graph	Overwrite cycles of Track #(N+1) and Track #(N-1)	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	10 times	9.0 max.	%			
	10000 times	Recommended Specification 12.0 max.				
	50000 times					
	100000 times					

(Track #N = Land) \*\*

Para-graph	Overwrite cycles of Track #(N+1) and Track #(N-1)	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	10 times	9.0 max.	%			
	10000 times	Recommended Specification 12.0 max.				
	50000 times					
	100000 times					

\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

\*\*: Measuring zone:

Recording speed Disc size	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
12 cm	Z0	Z0	Z0	Z0	Z17	Z34
8 cm	Z0	Z0	Z0	Z0	Z13	-

## Test result of Cyclability

Recording speed \* : ☐ 2x ☐ 6x

(Groove)

Condition A: Peak power (Pp)  mW Bias power1 (PB1)  mW  
 Bias power2 (PB2)  mW  
 Bias power3 (PB3)  mW

(Land)

Condition A: Peak power (Pp)  mW Bias power1 (PB1)  mW  
 Bias power2 (PB2)  mW  
 Bias power3 (PB3)  mW

Para-graph**	Items	Measuring points*		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.8.2.a	10 times Jitter	Zone n	G	less than 9.0	%	<input type="text"/>	<input type="text"/>	<input type="text"/>
			L			<input type="text"/>	<input type="text"/>	<input type="text"/>
		Zone m	G			<input type="text"/>	<input type="text"/>	<input type="text"/>
			L			<input type="text"/>	<input type="text"/>	<input type="text"/>
	10000 times Jitter	Zone n	G	Recommended Specification 12.0 max.	%	<input type="text"/>	<input type="text"/>	<input type="text"/>
			L			<input type="text"/>	<input type="text"/>	<input type="text"/>
		Zone m	G			<input type="text"/>	<input type="text"/>	<input type="text"/>
			L			<input type="text"/>	<input type="text"/>	<input type="text"/>
	50000 times Jitter	Zone n	G	Recommended Specification 12.0 max.	%	<input type="text"/>	<input type="text"/>	<input type="text"/>
			L			<input type="text"/>	<input type="text"/>	<input type="text"/>
		Zone m	G			<input type="text"/>	<input type="text"/>	<input type="text"/>
			L			<input type="text"/>	<input type="text"/>	<input type="text"/>
	100000 times Jitter	Zone n	G	Recommended Specification 12.0 max.	%	<input type="text"/>	<input type="text"/>	<input type="text"/>
			L			<input type="text"/>	<input type="text"/>	<input type="text"/>
		Zone m	G			<input type="text"/>	<input type="text"/>	<input type="text"/>
			L			<input type="text"/>	<input type="text"/>	<input type="text"/>

\*\*: Measuring zone:

Disc size	Recording speed	
	2x-speed	6x-speed
12 cm (Zone n/m)	Z0/Z34	Z0/Z34
8 cm (Zone n/m)	Z0/Z13	Z0/Z13

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

\*\*\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

## Test result of the Servo margin of CAPA and written data (1)

Recording speed \*: ☐ 2x ☐ 6x

(Condition A)

Para-graph	Position of axial tracking	G/L**	Specification	Unit	Measurement value by Applicant		Judgment (Lab use)
					CAPA	Written data	
	-1.0 $\mu\text{m}$	G	Recommended Specification 11 max. at -0.23 $\mu\text{m}$ to +0.23 $\mu\text{m}$	%			
	-0.8 $\mu\text{m}$	G					
	-0.6 $\mu\text{m}$	G					
	-0.4 $\mu\text{m}$	G					
	-0.2 $\mu\text{m}$	G					
	0.0 $\mu\text{m}$	G					
	+0.2 $\mu\text{m}$	G					
	+0.4 $\mu\text{m}$	G					
	+0.6 $\mu\text{m}$	G					
	+0.8 $\mu\text{m}$	G					
	+1.0 $\mu\text{m}$	G					
	-1.0 $\mu\text{m}$	L	Recommended Specification 11 max. at -0.23 $\mu\text{m}$ to +0.23 $\mu\text{m}$	%			
	-0.8 $\mu\text{m}$	L					
	-0.6 $\mu\text{m}$	L					
	-0.4 $\mu\text{m}$	L					
	-0.2 $\mu\text{m}$	L					
	0.0 $\mu\text{m}$	L					
	+0.2 $\mu\text{m}$	L					
	+0.4 $\mu\text{m}$	L					
	+0.6 $\mu\text{m}$	L					
	+0.8 $\mu\text{m}$	L					
	+1.0 $\mu\text{m}$	L					

\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

\*\*: Measuring zone:

Disc size \ Recording speed	2x-speed	6x-speed
12 cm	Z0	Z0
8 cm	Z0	Z0

(Condition B)

Para-graph	Position of radial tracking	G/L**	Specification	Unit	Measurement value by Applicant		Judgment (Lab use)
					CAPA	Written data	
	-0.1 $\mu\text{m}$	G	Recommended Specification 11 max. at -0.022 $\mu\text{m}$ to +0.022 $\mu\text{m}$	%			
	-0.08 $\mu\text{m}$	G					
	-0.06 $\mu\text{m}$	G					
	-0.04 $\mu\text{m}$	G					
	-0.02 $\mu\text{m}$	G					
	0.0 $\mu\text{m}$	G					
	+0.02 $\mu\text{m}$	G					
	+0.04 $\mu\text{m}$	G					
	+0.06 $\mu\text{m}$	G					
	+0.08 $\mu\text{m}$	G					
	+0.1 $\mu\text{m}$	G					
	-0.1 $\mu\text{m}$	L	Recommended Specification 11 max. at -0.022 $\mu\text{m}$ to +0.022 $\mu\text{m}$	%			
	-0.08 $\mu\text{m}$	L					
	-0.06 $\mu\text{m}$	L					
	-0.04 $\mu\text{m}$	L					
	-0.02 $\mu\text{m}$	L					
	0.0 $\mu\text{m}$	L					
	+0.02 $\mu\text{m}$	L					
	+0.04 $\mu\text{m}$	L					
	+0.06 $\mu\text{m}$	L					
	+0.08 $\mu\text{m}$	L					
	+0.1 $\mu\text{m}$	L					

\*\*: Measuring zone:

Disc size	Recording speed	
	2x-speed	6x-speed
12 cm	Z0	Z0
8 cm	Z0	Z0



## Test result of the Servo margin of CAPA and written data (2)

Recording speed \*: ☐ 2x ☐ 6x

(Condition C)

Para-graph	Position of tangential tilt	G/L**	Specification	Unit	Measurement value by Applicant		Judgment (Lab use)
					CAPA	Written data	
	-0.5 deg	G	Recommended Specification 11 max. at -0.15 to +0.15deg	%			
	-0.4 deg	G					
	-0.3 deg	G					
	-0.2 deg	G					
	-0.1 deg	G					
	0.0 deg	G					
	+0.1 deg	G					
	+0.2 deg	G					
	+0.3 deg	G					
	+0.4 deg	G					
	+0.5 deg	G					
	-0.5 deg	L	Recommended Specification 11 max. at -0.15 to +0.15deg	%			
	-0.4 deg	L					
	-0.3 deg	L					
	-0.2 deg	L					
	-0.1 deg	L					
	0.0 deg	L					
	+0.1 deg	L					
	+0.2 deg	L					
	+0.3 deg	L					
	+0.4 deg	L					
	+0.5 deg	L					

\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

\*\*: Measuring zone:

Disc size \ Recording speed	2x-speed	6x-speed
12 cm	Z0	Z0
8 cm	Z0	Z0

(Condition D)

Para-graph	Position of radial tilt	G/L **	Specification	Unit	Measurement value by Applicant		Judgment (Lab use)
					CAPA	Written data	
	-1.0 deg	G	Recommended Specification 11 max. at - 0.35 to +0.35deg	%			
	-0.8 deg	G					
	-0.6 deg	G					
	-0.4 deg	G					
	-0.2 deg	G					
	0.0 deg	G					
	+0.2 deg	G					
	+0.4 deg	G					
	+0.6 deg	G					
	+0.8 deg	G					
	+1.0 deg	G					
	-1.0 deg	L	Recommended Specification 11 max. at - 0.35 to +0.35deg	%			
	-0.8 deg	L					
	-0.6 deg	L					
	-0.4 deg	L					
	-0.2 deg	L					
	0.0 deg	L					
	+0.2 deg	L					
	+0.4 deg	L					
	+0.6 deg	L					
	+0.8 deg	L					
	+1.0 deg	L					

\*\*: Measuring zone:

Disc size	Recording speed	
	2x-speed	6x-speed
12 cm	Z0	Z0
8 cm	Z0	Z0

## Test result of the Cross speed over-write

Recording speed 1 \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12xRecording speed 2 \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

\*: Choose disc type and decide combination of Recording speed 1 and Recording speed 2 from below list.

2x/3x disc : Recording speed 1 is 2x, and Recording speed 2 is 3x.

2x/3x/5x disc : Recording speed 1 is 2x, and Recording speed 2 is 5x.

6x/8x disc : Recording speed 1 is 6x, and Recording speed 2 is 8x.

6x/8x/12x disc : Recording speed 1 is 6x, and Recording speed 2 is 12x.

## Write power for Recording speed 1

(Groove)

Condition A:	Peak power (Pp)	<input type="text"/>	mW	Bias power1 (PB1)	<input type="text"/>	mW
				Bias power2 (PB2)	<input type="text"/>	mW
				Bias power3 (PB3)	<input type="text"/>	mW

(Land)

Condition A:	Peak power (Pp)	<input type="text"/>	mW	Bias power1 (PB1)	<input type="text"/>	mW
				Bias power2 (PB2)	<input type="text"/>	mW
				Bias power3 (PB3)	<input type="text"/>	mW

## Write power for Recording speed 2

(Groove)

Condition A:	Peak power (Pp)	<input type="text"/>	mW	Bias power1 (PB1)	<input type="text"/>	mW
				Bias power2 (PB2)	<input type="text"/>	mW
				Bias power3 (PB3)	<input type="text"/>	mW

(Land)

Condition A:	Peak power (Pp)	<input type="text"/>	mW	Bias power1 (PB1)	<input type="text"/>	mW
				Bias power2 (PB2)	<input type="text"/>	mW
				Bias power3 (PB3)	<input type="text"/>	mW

Para-graph	Items	G/L **	Specification	Unit	Measurement value		Judgment (Lab use)
					Applicant	Lab.	
	<b>Recording speed 2</b> 10times → <b>Recording speed 1</b> 1time	G	9.0 max.	%			
		L					
	<b>Recording speed 1</b> 10times → <b>Recording speed 2</b> 1time	G					
		L					

\*\*: Measuring zone:

Disc size \	Recording speed 1	2x-speed	2x-speed	6x-speed	6x-speed
	Recording speed 2	3x-speed	5x-speed	8x-speed	12x-speed
12 cm		Z0	Z0	Z17	Z34
8 cm		Z0	Z0	Z13	-

## Test result of the Cross speed erasing

Recording speed 1 \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

Recording speed 2 \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

\*: Choose disc type and decide combination of Recording speed 1 and Recording speed 2 from below list.

2x/3x disc : Recording speed 1 is 2x, and Recording speed 2 is 3x.

2x/3x/5x disc : Recording speed 1 is 2x, and Recording speed 2 is 5x.

6x/8x disc : Recording speed 1 is 6x, and Recording speed 2 is 8x.

6x/8x/12x disc : Recording speed 1 is 6x, and Recording speed 2 is 12x.

### Write power for Recording speed 1

(Groove)

Condition A:	Peak power (Pp)	<input type="text"/>	mW	Bias power1 (PB1)	<input type="text"/>	mW
				Bias power2 (PB2)	<input type="text"/>	mW
				Bias power3 (PB3)	<input type="text"/>	mW

(Land)

Condition A:	Peak power (Pp)	<input type="text"/>	mW	Bias power1 (PB1)	<input type="text"/>	mW
				Bias power2 (PB2)	<input type="text"/>	mW
				Bias power3 (PB3)	<input type="text"/>	mW

### Write power for Recording speed 2

(Groove)

Condition A:	Peak power (Pp)	<input type="text"/>	mW	Bias power1 (PB1)	<input type="text"/>	mW
				Bias power2 (PB2)	<input type="text"/>	mW
				Bias power3 (PB3)	<input type="text"/>	mW

(Land)

Condition A:	Peak power (Pp)	<input type="text"/>	mW	Bias power1 (PB1)	<input type="text"/>	mW
				Bias power2 (PB2)	<input type="text"/>	mW
				Bias power3 (PB3)	<input type="text"/>	mW

(Track #N1 = **Recording speed 2** on groove)\*\*

Para-graph	Recording speed 1 overwrite cycles of Track #(N1+1) and Track #(N1-1)	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	Recording speed 2 10 times	9.0 max.	%			
	Recording speed 1 10 times					
	Recording speed 1 10000 times	Recommended Specification 12.0 max.				

(Track #N1 = **Recording speed 2** on land)\*\*

Para-graph	Recording speed 1 overwrite cycles of Track #(N1+1) and Track #(N1-1)	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	Recording speed 2 10 times	9.0 max.	%			
	Recording speed 1 10 times					
	Recording speed 1 10000 times	Recommended Specification 12.0 max.				

(Track #N2 **Recording speed 1** on groove)\*\*

Para-graph	Recording speed 2 overwrite cycles of Track #(N2+1) and Track #(N2-1)	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	Recording speed 1 10 times	9.0 max.	%			
	Recording speed 2 10 times					
	Recording speed 2 10000 times	Recommended Specification 12.0 max.				

(Track #N2 = **Recording speed 1** on land)\*\*

Para-graph	Recording speed 2 overwrite cycles of Track #(N2+1) and Track #(N2-1)	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	Recording speed 1 10 times	9.0 max.	%			
	Recording speed 2 10 times					
	Recording speed 2 10000 times	Recommended Specification 12.0 max.				

\*\*: Measuring zone:

Disc size \	Recording speed 1	2x-speed	2x-speed	6x-speed	6x-speed
	Recording speed 2	3x-speed	5x-speed	8x-speed	12x-speed
12 cm		Z0	Z0	Z17	Z34
8 cm		Z0	Z0	Z13	-

## Test result of the Recording layer (CAV Operation)

CAV recording speed \* : ☐ 3x ☐ 7x ☐ 8x

\*: Choose disc type and decide CAV recording speed from below list.

2x/3x/5x disc : CAV recording speed is 3x.

6x/8x disc : CAV recording speed is 7x.

6x/8x/12x disc : CAV recording speed is 8x.

Disc of other type is not needed to test for CAV operation.

Calculated write strategy for CAV operation with linear interpolation
---

For Groove

For Land

• Peak power (Ptrg(Nx)Pp)	<input type="text"/>	mW	<input type="text"/>	mW
• Bias power1 (Ptrg(Nx)PB1)	<input type="text"/>	mW	<input type="text"/>	mW
• Bias power2 (Ptrg(Nx)PB2)	<input type="text"/>	mW	<input type="text"/>	mW
• Bias power3 (Ptrg(Nx)PB3)	<input type="text"/>	mW	<input type="text"/>	mW

• Mode flag of adaptive write pulse control

Ttrgs(Nx)T<sub>MP</sub>  ns or T/16

Ttrgs(Nx)T<sub>LC</sub>  ns or T/16

☐ case 1

☐ case 2

Ttrgs(Nx)T<sub>EF</sub>  ns or T/16

Ttrgs(Nx)T<sub>FP</sub>  ns or T/16

Ttrgs(Nx)T<sub>SLP</sub>  ns or T/16

Ttrgs(Nx)T<sub>LP</sub>  ns or T/16

• Adaptive write control tables

First pulse end time Ptrg(Nx) T <sub>ELP</sub> (ns or T/16)		Mark Length			
		3T	4T	5T	>5T
Leading space length	3T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	4T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	>5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Last pulse end time Ptrg(Nx) T <sub>ELP</sub> (ns or T/16)		Mark Length			
		3T	4T	5T	>5T
Trailing space length	3T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	4T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	>5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Para-graph***	Items	Measuring points**		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.8.2 a	Jitter	Zone n	G	less than 9.0	%			
			L					
2.8.2 b	I <sub>14</sub> / I <sub>14H</sub>	Zone n	G	0.40 min.				
			L					
	I <sub>3</sub> / I <sub>14</sub>	Zone n	G	0.15 min.				
			L					
	$(I_{14\max} - I_{14\min}) / I_{14\max}$ within one sector	Zone n	G	0.10 max.				
			L					
	$(I_{14H\max} - I_{14H\min}) / I_{14H\max}$ within one read-out side of a disc	Zone n	G	0.33 max.				
			L					
	$(I_{14H\max} - I_{14H\min}) / I_{14H\max}$ within one track	Zone n	G	0.15 max.				
			L					
	$[ (I_{14H} + I_{14L}) - (I_{3H} + I_{3L}) ] / 2(I_{14H} - I_{14L})$	Zone n	G	-0.05 to 0.15				
			L					

\*\* : Measurement point is as follows.

2x/3x/5x disc : Zone 11

6x/8x disc : Zone 2

6x/8x/12x disc : Zone 6

It adopts for only 12cm size disc.

\*\*\* : Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.



## Test result of the Signal from groove and land in the written recording field (CAV Operation)

CAV recording speed \* : ☐ 3x ☐ 7x ☐ 8x

\*: Choose disc type and decide CAV recording speed from below list.

2x/3x/5x disc : CAV recording speed is 3x.

6x/8x disc : CAV recording speed is 7x.

6x/8x/12x disc : CAV recording speed is 8x.

Disc of other type is not needed to test for CAV operation.

Para-graph***	Items	Zone**	Specification	Unit	Measurement value		Judgment (Lab use)
					Applicant	Lab.	
2.7.2.1	$(I_1 - I_2)_{pp} / (I_1 + I_2)_a$ Written Recording field	Zone n	0.35 to 1.05				
2.7.2.2	$[(I_1 - I_2) / (I_1 + I_2)]_{pp}$ Written Recording field	Zone n	1.10 to 1.65				
	$\{ [(I_1 - I_2) / (I_1 + I_2)]_{pp} \}_{min}$ / $\{ [(I_1 - I_2) / (I_1 + I_2)]_{pp} \}_{max}$ in the written Recording field	Zone n	0.70 min.				
2.7.2.5b	SNR of the wobble signal on written groove track	Zone n	34 min.	dB			
	SNR of the wobble signal on written land track	Zone n	34 min.	dB			

\*\* : Measurement point is as follows.

2x/3x/5x disc : Zone 11

6x/8x disc : Zone 2

6x/8x/12x disc : Zone 6

It adopts for only 12cm size disc.

\*\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

## Test result of Read cycles for read stability

Applicant must measure the melting point of the active-recording layer of the disc

Item	Unit	Measurement value
		Applicant
Melting point of the active-recording layer	°C	

Table of the measurement conditions of Read cycles for each Disc type

Para-Graph	Conditions of calculating Read cycles for Read stability					Measuring zone	Disc type***		
	Recording speed	Reading speed	Ambient temperature	Read power	Jitter threshold		6x	6x/8x	6x/8x/12x
2.4.2 *	6x	6x	25 °C	2.0 mW	9 %	Zone 0	○	○	○
			25 °C	2.0 mW	9 %	Zone 34	○	○	○
Annex C **	6x	6x	60 °C	2.0 mW	12 %	Zone 34	○	—	—
	8x	8x	60 °C	2.2 mW	12 %	Zone 34	—	○	—
	12x	12x	60 °C	2.6 mW	12 %	Zone 34	—	—	○

○ : Necessary test

\*: Refer to DVD Specifications for Rewritable Disc Part 1/

Optional Specifications 6x-speed DVD-RAM Revision 3.0.

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1/

Optional Specifications 6x-speed DVD-RAM Revision 3.0,

Optional Specifications 8x-speed DVD-RAM Revision 4.0 and

Optional Specifications 12x-speed DVD-RAM Revision 5.0.

\*\*\*: Disc of the other type in above table is not needed to test for Read stability.

(6x-speed recording and 6x-speed reading at Zone 0) [ check sheet on measuring items in progress ]

Para-graph	Items		Measuring points*		Unit	Measurement value	
						Applicant	Lab.
	Ambient temperature under this measurement		Zone 0	G	°C		
				L			
	Laser power corresponding to the melting point of the active recording layer		Zone 0	G	mW		
				L			
	three kinds of setting read power at this measurement		Zone 0	G	mW		
				L	mW		
	Calculate the reciprocal of the temperature of the active-recording layer at setting read power		Zone 0	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L	$\times 10^{-3}$ K <sup>-1</sup>		
	Read cycles on jitter threshold 9% at Read power Pr1, Pr2, Pr3		Zone 0	G			
				L			
	Calculate the reciprocal of the temperature of the active-recording layer at read power 2.0 mW and ambient temperature 25 °C		Zone 0	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L			

(6x-speed recording and 6x-speed reading at Zone 0)

Para-graph	Items	Measuring points		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.4.2*	Jitter after 10 <sup>6</sup> cycles or calculated Read cycles at Pread 2.0 mW and Ambient temperature 25 °C	Zone 0	G	Jitter less than 9.0 % or more than or equal to 10 <sup>6</sup>				
			L					

\*: Refer to DVD Specifications for Rewritable Disc Part 1/ Optional Specifications 6x-speed DVD-RAM Revision 3.0.

(6x-speed recording and 6x-speed reading at Zone 34) [ check sheet on measuring items in progress ]

Para-graph	Items		Measuring points		Unit	Measurement value	
						Applicant	Lab.
	Ambient temperature under this measurement		Zone 34	G	°C		
				L			
	Laser power corresponding to the melting point of the active recording layer		Zone 34	G	mW		
				L			
	three kinds of setting read power at this measurement		Zone 34	G	mW		
				L	mW		
	Calculate the reciprocal of the temperature of the active-recording layer at setting read power		Zone 34	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L	$\times 10^{-3}$ K <sup>-1</sup>		
	Read cycles on jitter threshold 9% at Read power Pr1, Pr2, Pr3		Zone 34	G			
				L			
	Calculate the reciprocal of the temperature of the active-recording layer at read power 2.0 mW and ambient temperature 25 °C		Zone 34	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L			

(6x-speed recording and 6x-speed reading at Zone 34)

Para-graph	Items	Measuring points		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.4.2*	Jitter after 10 <sup>6</sup> cycles or calculated Read cycles at Pread 2.0 mW and Ambient temperature 25 °C	Zone 34	G	Jitter less than 9.0 % or more than or equal to 10 <sup>6</sup>				
			L					

\*: Refer to DVD Specifications for Rewritable Disc Part 1/ Optional Specifications 6x-speed DVD-RAM Revision 3.0.

(6x-speed recording and 6x-speed reading at Zone 34) [ check sheet on measuring items in progress ]

Para-graph	Items		Measuring points		Unit	Measurement value	
						Applicant	Lab.
	Ambient temperature under this measurement		Zone 34	G	°C		
				L			
	Laser power corresponding to the melting point of the active recording layer		Zone 34	G	mW		
				L			
	three kinds of setting read power at this measurement		Zone 34	G	mW		
				L	mW		
	Calculate the reciprocal of the temperature of the active-recording layer at setting read power		Zone 34	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L	$\times 10^{-3}$ K <sup>-1</sup>		
	Read cycles on jitter threshold 12% at Read power Pr1, Pr2, Pr3		Zone 34	G			
				L			
	Calculate the reciprocal of the temperature of the active-recording layer at read power 2.0 mW and ambient temperature 60 °C		Zone 34	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L			

(6x-speed recording and 6x-speed reading at Zone 34)

Para-graph	Items	Measuring points		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
Annex C *	calculated Read cycles at Pread 2.0 mW and Ambient temperature 60 °C	Zone 34	G	Recommended Specification more than or equal to 10 <sup>6</sup>				
			L					

\*: Refer to DVD Specifications for Rewritable Disc Part 1/ Optional Specifications 6x-speed DVD-RAM Revision 3.0.

(8x-speed recording and 8x-speed reading at Zone 34) [ check sheet on measuring items in progress ]

Para-graph	Items		Measuring points		Unit	Measurement value	
						Applicant	Lab.
	Ambient temperature under this measurement		Zone 34	G	°C		
				L			
	Laser power corresponding to the melting point of the active recording layer		Zone 34	G	mW		
				L			
	three kinds of setting read power at this measurement		Zone 34	G	mW		
				L	mW		
	Calculate the reciprocal of the temperature of the active-recording layer at setting read power		Zone 34	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L	$\times 10^{-3}$ K <sup>-1</sup>		
	Read cycles on jitter threshold 12% at Read power Pr1, Pr2, Pr3		Zone 34	G			
				L			
	Calculate the reciprocal of the temperature of the active-recording layer at read power <b>2.2 mW</b> and ambient temperature 60 °C		Zone 34	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L			

(8x-speed recording and 8x-speed reading at Zone 34)

Para-graph	Items	Measuring points		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
Annex C *	calculated Read cycles at Pread <b>2.2 mW</b> and Ambient temperature 60 °C	Zone 34	G	Recommended Specification more than or equal to 10 <sup>6</sup>				
			L					

\*: Refer to DVD Specifications for Rewritable Disc Part 1/ Optional Specifications 8x-speed DVD-RAM Revision 4.0.

(12x-speed recording and 12x-speed reading at Zone 34) [ check sheet on measuring items in progress ]

Para-graph	Items		Measuring points		Unit	Measurement value	
						Applicant	Lab.
	Ambient temperature under this measurement		Zone 34	G	°C		
				L			
	Laser power corresponding to the melting point of the active recording layer		Zone 34	G	mW		
				L			
	three kinds of setting read power at this measurement		Zone 34	G	mW		
				L	mW		
	Calculate the reciprocal of the temperature of the active-recording layer at setting read power		Zone 34	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L	$\times 10^{-3}$ K <sup>-1</sup>		
	Read cycles on jitter threshold 12% at Read power Pr1, Pr2, Pr3		Zone 34	G			
				L			
	Calculate the reciprocal of the temperature of the active-recording layer at read power <b>2.6 mW</b> and ambient temperature 60 °C		Zone 34	G	$\times 10^{-3}$ K <sup>-1</sup>		
				L			

(12x-speed recording and 12x-speed reading at Zone 34)

Para-graph*	Items	Measuring points		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
Annex C *	calculated Read cycles at Pread <b>2.6 mW</b> and Ambient temperature 60 °C	Zone 34	G	Recommended Specification more than or equal to 10 <sup>6</sup>				
			L					

\*: Refer to DVD Specifications for Rewritable Disc Part 1/ Optional Specifications 12x-speed DVD-RAM Revision 5.0.

## Test result summary (1)

Section	Judgment			
	Applicant		Lab	
Test Specifications of all speed disc				
Form 3N: Test result of the Mechanical parameter	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 4N: Test result of the Optical parameter	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 5N: Test result of the Recorded parameter	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 6N: Test result of the Information area format	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 7N: Test result of the Burst Cutting Area Code	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Dimension of the DVD-RAM Disc Case	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
File System verification (Optional specifications)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Test Specifications for 2x-speed reading				
Form 8N: Test result of the Signals from Embossed data zone	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 9N: Test result of the Signals from groove and land in the unwritten recording field	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 10N to 13N: Test result of the Signals from Header field in Rewritable data zone	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 14N: Test result of error ratio of CAPA	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Test Specifications for 2x-speed recording				
Form 15N: Test result of the Recording layer	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 16N: Test result of the Signals from groove and land in the written recording field	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 17N: Test result of Power margin	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 18N: Test result of the Cross Power Over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 19N: Test result of Cross erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 20N: Test result of the Cyclability	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 21N and 22N: Test result of Servo margin of CAPA and written data	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Test Specifications for 3x-speed recording				
Form 15N: Test result of the Recording layer	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 16N: Test result of the Signals from groove and land in the written recording field	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 17N: Test result of Power margin	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 18N: Test result of the Cross Power Over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 19N: Test result of Cross erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 23N: Test result of the Cross speed over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 24N: Test result of the Cross speed erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Test Specifications for 5x-speed recording				
Form 15N: Test result of the Recording layer	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 16N: Test result of the Signals from groove and land in the written recording field	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 17N: Test result of Power margin	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 18N: Test result of the Cross Power Over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 19N: Test result of Cross erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 23N: Test result of the Cross speed over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 24N: Test result of the Cross speed erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 25N: Test result of the Recording layer (CAV Operation)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 26N: Test result of the Signals from groove and land in the written recording field (CAV Operation)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG



## Test result summary (2)

Section	Judgment			
	Applicant		Lab	
Test Specifications for 6x-speed recording				
Form 15N: Test result of the Recording layer	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 16N: Test result of the Signals from groove and land in the written recording field	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 17N: Test result of Power margin	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 18N: Test result of the Cross Power Over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 19N: Test result of Cross erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 20N: Test result of the Cyclability	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 21N and 22N: Test result of Servo margin of CAPA and written data	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 27N: Test result of Read cycles for read stability	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Test Specifications for 8x-speed recording				
Form 15N: Test result of the Recording layer	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 16N: Test result of the Signals from groove and land in the written recording field	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 17N: Test result of Power margin	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 18N: Test result of the Cross Power Over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 19N: Test result of Cross erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 23N: Test result of the Cross speed over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 24N: Test result of the Cross speed erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 25N: Test result of the Recording layer (CAV Operation)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 26N: Test result of the Signals from groove and land in the written recording field (CAV Operation)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 27N: Test result of Read cycles for read stability	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Test Specifications for 12x-speed recording				
Form 15N: Test result of the Recording layer	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 16N: Test result of the Signals from groove and land in the written recording field	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 17N: Test result of Power margin	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 18N: Test result of the Cross Power Over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 19N: Test result of Cross erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 23N: Test result of the Cross speed over-write	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 24N: Test result of the Cross speed erasing	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 25N: Test result of the Recording layer (CAV Operation)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 26N: Test result of the Signals from groove and land in the written recording field (CAV Operation)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG
Form 27N: Test result of Read cycles for read stability	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG



The Mark(s) should be displayed with the Logo  
according to DVD Logo Manual.

### Confirmation of DVD Format Verification

The following product is confirmed that it is on the strength of DVD Specifications for DVD Specifications for Rewritable Disc, Part 1 (Version 2.2) , or ☐ Part 1 Ver. 2.2 & Part 2 Ver. 2.0, and Optional Specifications:

☐ 3x-speed DVD-RAM (Revision 1.0) and ☐ 5x-speed DVD-RAM (Revision 2.0) and ☐ 6x-speed DVD-RAM (Revision 3.0) and ☐ 8x-speed DVD-RAM (Revision 4.0) and ☐ 12x-speed DVD-RAM (Revision 5.0) by DVD Format Verification Laboratory of the Company: \_\_\_\_\_

- |                 |   |   |         |   |
|-----------------|---|---|---------|---|
| 1. Product type | : | <input type="checkbox"/> 2x-speed DVD-RAM Disc        | Class 0 | <input type="checkbox"/> Disc with case |
|                 |   | <input type="checkbox"/> 2x/3x-speed DVD-RAM Disc     | Class 0 | <input type="checkbox"/> Empty case     |
|                 |   | <input type="checkbox"/> 2x/3x/5x-speed DVD-RAM Disc  | Class 0 |   |
|                 |   | <input type="checkbox"/> 6x-speed DVD-RAM Disc        | Class 1 |   |
|                 |   | <input type="checkbox"/> 6x/8x-speed DVD-RAM Disc     | Class 1 |   |
|                 |   | <input type="checkbox"/> 6x/8x/12x-speed DVD-RAM Disc | Class 1 |   |

2. Disc number	:	_____	
3. Applicant number	:	_____	
4. Date of application (mm. dd, yyyy)	:	_____	
5. Applicant: Name	:	_____	
Company name	:	_____	
Address	:	_____	
Tel	:	_____	/Fax: _____
Date of issue (mm. dd, yyyy)	:	_____	
Confirmed by: Signature	:	_____	
Name	:	_____	
Lab name	:	_____	
Address	:	_____	
Tel	:	_____	/Fax: _____

Attachment 1) Test results: **Forms** checked in **Form 2N** (2/2) except **Form 1N**  
2) Others: \_\_\_\_\_

Note: (1) The purpose of DVD Format Verification is to promote and enhance compatibility of DVD Product for DVD Industry based upon the minimum common specification requirements.

(2) The "Confirmation of DVD Format Verification", however, shall not be considered to guarantee the quality of product and the compatibility with a specific DVD disc or player/recorder.

(3) Information in this report shall be treated as confidential under the Non Disclosure Agreement executed between the applicant and DVD Format Verification Laboratory dated (mm. dd, yyyy) \_\_\_\_\_.  
\_\_\_\_\_