

# DVD-R quality tests using K-Probe v2.1.0, June 2004

These tests were conducted by CD-ROM Services, North Sydney, Australia for The International Disc Duplicating Association on 9th June 2004.

Note that BLER alone is not a comprehensive way to determine the burn quality of a disc. Reflectivity, jitter, eccentricity and many other factors determine the quality of a disc. However, BLER is useful for comparing the burn quality of different discs on the same drive.

You must also bear in mind that readings will vary between different batches of the same brands of discs, and there will often be variation within the same batch. Readings from different drives will also produce different results. Therefore this is not a comprehensive test, just a comparison between brands read on a particular drive.

These discs were all tested on a Lite-On LDW-811S DVD burner, reading at 4x CLV. Good information about understanding the results from K-Probe can be found at <http://forum.cdfreaks.com/showthread.php?t=80545>

The following is quoted from the above site:

*For the following recommendations to be true K-Probe must be set to 8 ECC PI/PO sum while scanning and preferably scanned by a Lite-On DVD-Writer (in other words NOT a DVD-ROM or Combo!).*

*Use this as a guideline for good discs:*

**PI (Parity Inner):** No larger areas on the disc should exceed 280 PI errors, do not worry too much about high single spikes that exceeds 280.

**PO (Parity Outer):** No larger areas on the disc should exceed 32 PO (actually PI uncorrectable) errors, do not worry too much about high single spikes that exceeds 32. (Note that this is not completely correct according to the standards, but is still a good guideline, read the first technical post if you wonder why this is not a 100% correct way of reading the results compared to the standards).

Pioneer A-05			
	Taiyo Yuden	Princo	
PI Maximum	67	177	
PI Average	9.08	42.62	
PO Maximum	1	15	
PO Average	0	0.15	
Pioneer A-07			
	Taiyo Yuden	Princo	Verbatim
PI Maximum	35	781	110
PI Average	4.53	123.3	17.54
PO Maximum	2	18	2
PO Average	0	0.6	0

# Taiyo Yuden

on Pioneer A-05

R1-T2-D2

Disc Serial Number:

KB418B07101GB

PI Max = 67

PI Av = 9.08

PO Max = 1

PO Av = 0.00

**KProbe v2.1.0 - Designed by Karr**

Date : 9/06/2004 11:07:14 AM

Model : 2-0-0-0 E:

Disc : DVD-R , TYG01 [Taiyo Yuden Company Limited]

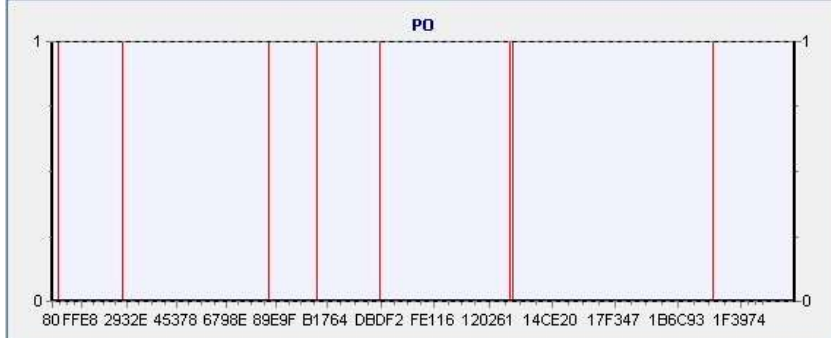
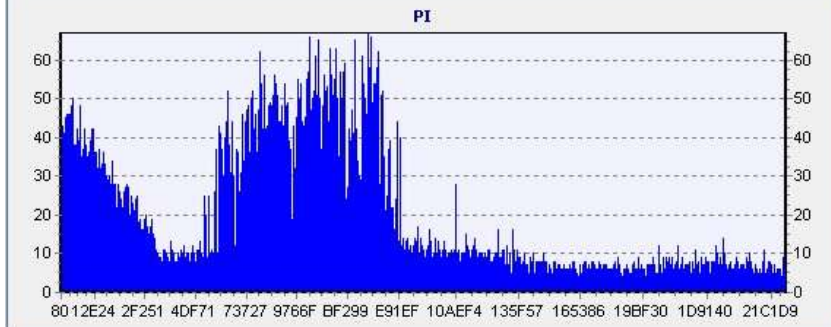
Speed : 4x

ECC blocks sum (PI/PO) : 8/8

Scanned range : 0 - 22CCDBh

PI Max= 67 , Average= 9.08 , Total= 112335

PO Max= 1 , Average= 0.00 , Total= 9



**Princo**  
on Pioneer A-05

R1-T2-D2

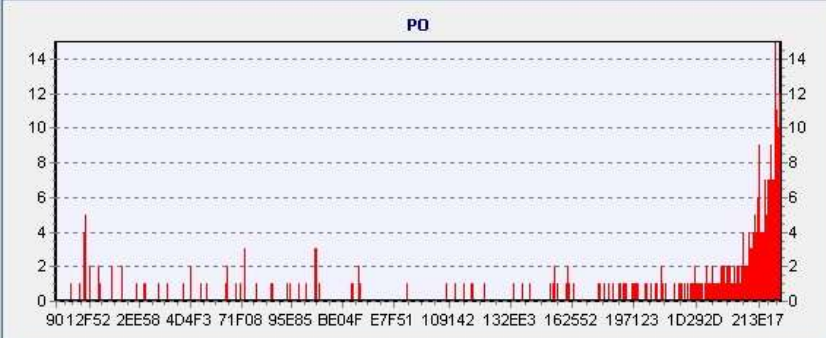
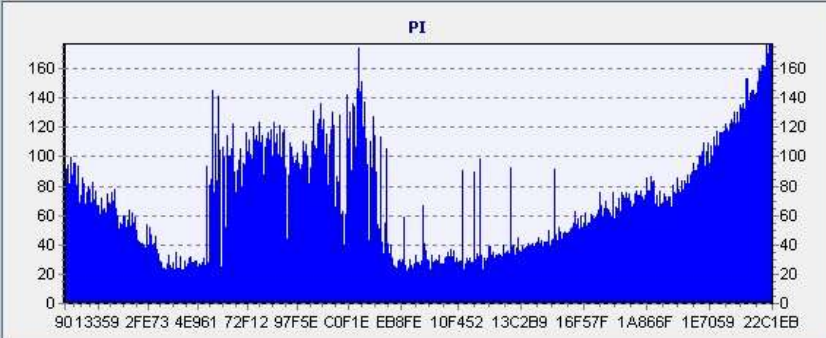
Disc Serial Number:  
B163402799-08516

PI Max = 177  
PI Av = 42.62

PO Max = 15  
PO Av = 0.15

**KProbe v2.1.0 - Designed by Karr** Date : 9/06/2004 10:41:52 AM

Model : 2-0-0-0 E:  
Disc : DVD-R , PRINCO [Princo Corporation]  
Speed : 4x  
ECC blocks sum (PI/PO) : 8/8  
Scanned range : 0 - 22CE98h  
PI Max= 177 , Average= 42.62 , Total= 524159  
PO Max= 15 , Average= 0.15 , Total= 1857



# Taiyo Yuden

on Pioneer A-07

R3-T1-D2

Disc Serial Number:

KB418B07100GB

PI Max = 35

PI Av = 4.53

PO Max = 2

PO Av = 0.00

**KProbe v2.1.0 - Designed by Karr**

Date : 9/06/2004 12:33:44 PM

Model : 2-0-0-0 E:

Disc : DVD-R , TYG01 [Taiyo Yuden Company Limited]

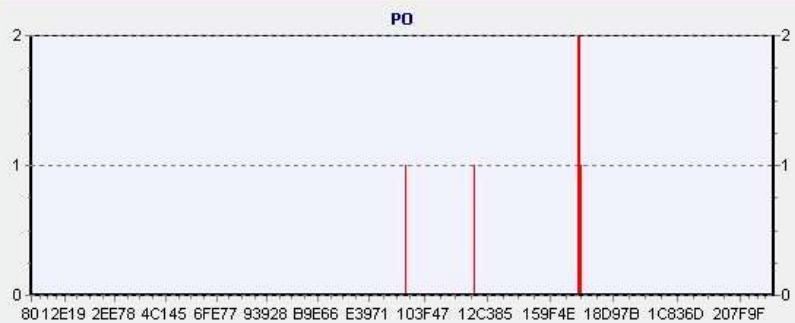
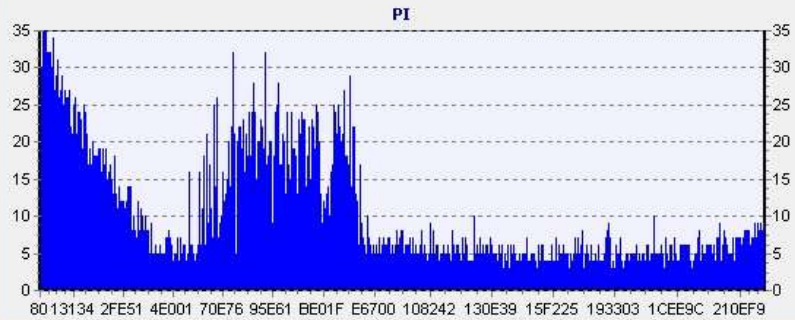
Speed : 4x

ECC blocks sum (PI/PO) : 8/8

Scanned range : 0 - 22CCC8h

PI Max= 35 , Average= 4.53 , Total= 56880

PO Max= 2 , Average= 0.00 , Total= 20



**Princo**  
on Pioneer A-07

R3-T1-D2

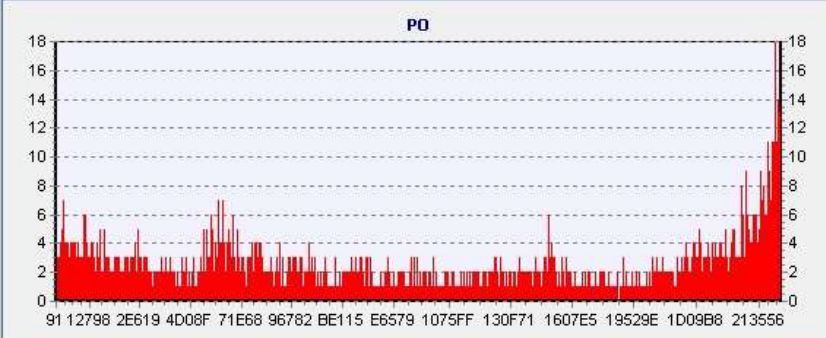
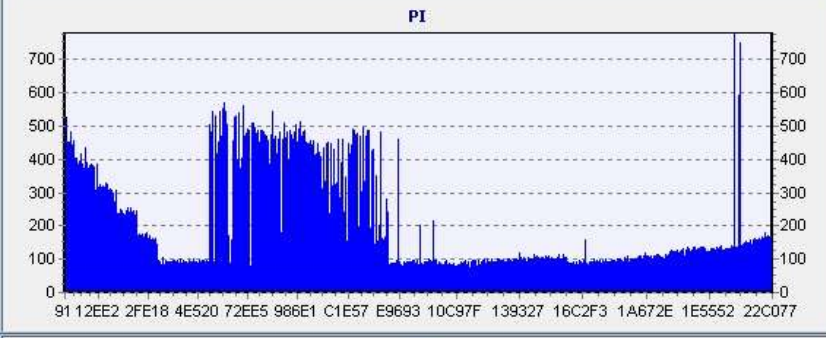
Disc Serial Number:  
B163402799-08518

PI Max = 781  
PI Av = 123.3

PO Max = 18  
PO Av = 0.60

**KProbe v2.1.0 - Designed by Karr** Date : 9/06/2004 11:52:23 AM

Model : 2-0-0-0 E:  
Disc : DVD-R , PRINCO [Princo Corporation]  
Speed : 4x  
ECC blocks sum (PI/PO) : 8/8  
Scanned range : 0 - 22CC74h  
PI Max= 781 , Average= 123.30 , Total= 1502394  
PO Max= 18 , Average= 0.60 , Total= 7287



# Verbatim

on Pioneer A-07

R3-T1-D2

Disc Serial Number:  
3301X521-00313B18

PI Max = 110

PI Av = 17.54

PO Max = 2

PO Av = 0.00

**KProbe v2.1.0 - Designed by Karr**

Date : 9/06/2004 12:13:36 PM

Model : 2-0-0-0 E:

Disc : DVD-R , MCC 01RG20 [Mitsubishi Chemical Corporation]

Speed : 4x

ECC blocks sum (PI/PO) : 8/8

Scanned range : 0 - 22CDFCh

PI Max= 110 , Average= 17.54 , Total= 220589

PO Max= 2 , Average= 0.00 , Total= 50

