

Consumer HDD Committee

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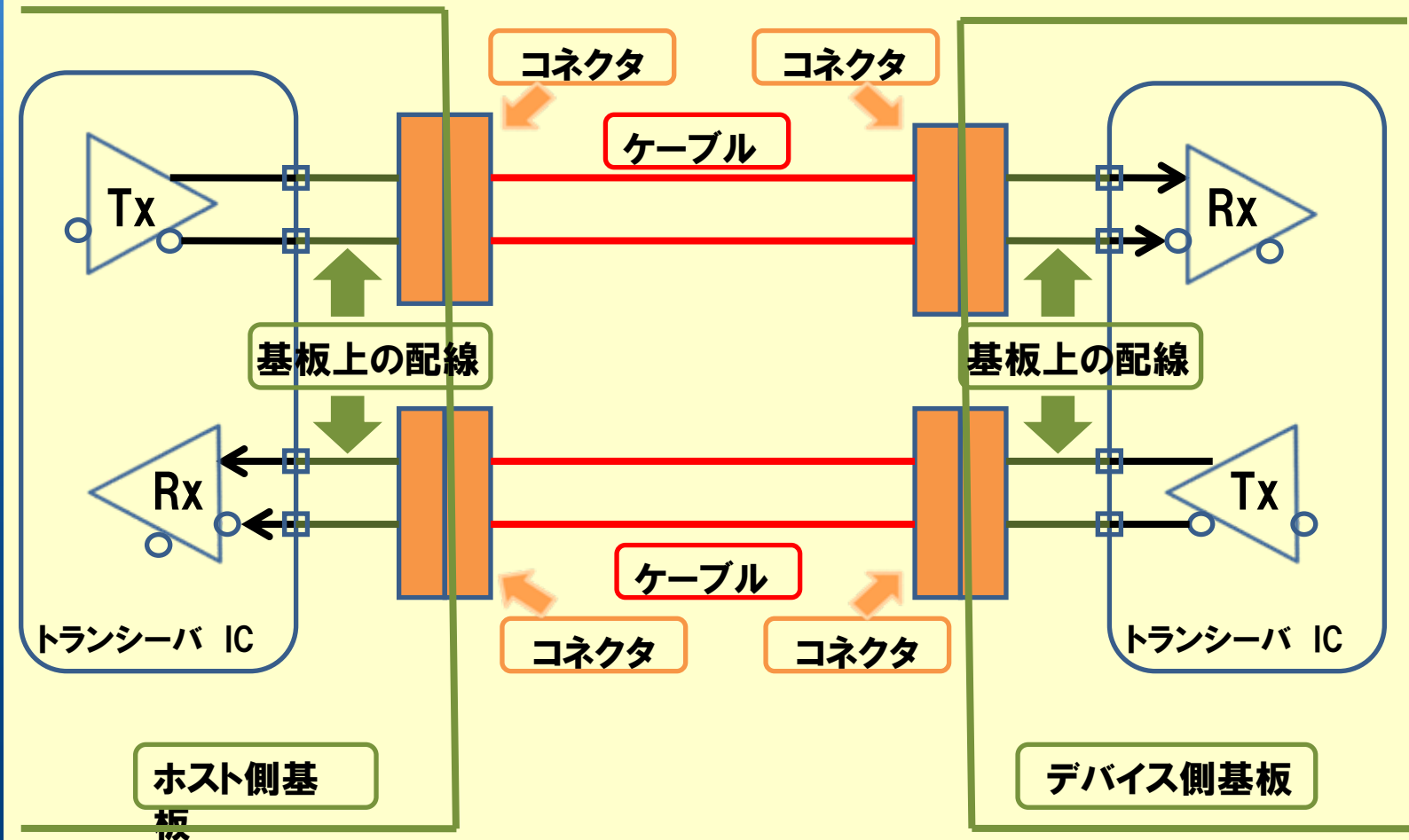
2. SATA Transmission Channel Test

- 7/3、SATA Transmission Channel WG

Tektonics Japan,
Ltd. Workbit Corporation
Toyo Corporation
LeCroy Japan Corporation
iVDR Consortium (FCI Japan K.K.)
Agilent Technologies, Inc. (Japan)
Victor Company of Japan (JVC)

SATA Transmission Channel Model

高速シリアルインターフェイス（SATA）の伝送路の評価方法の検討



SATA Transmission Channel Test

- 1) JVC

- T&M equipment :
 - LeCroy SDA11000 (Digital Oscilloscope)
- Generator :
 - SATA signal (Align) from Motherboard

- 2) Tektronix

- T&M equipment :
 - Tektonics DSA8200 with 80E10
 - Tektonics DSA72004B
- Generator :
 - SATA signal from HDD (HGST HDS721680PL) by BIST mode.

- 3) Agilent

- T&M equipment :
 - Agilent E5071C Network Analyzer (20GHz)
 - Agilent DSA91304A (13GHz)
- Generator :
 - SATA signal (Align) from Motherboard.

SATA Transmission Channel Test

- All of test results show that No.4 YC cable and No.6 SHUTTLE-D cable have good performance.
- It is possible to get measurement result for DUT (Cable) by all of above solutions in the same confidence level.

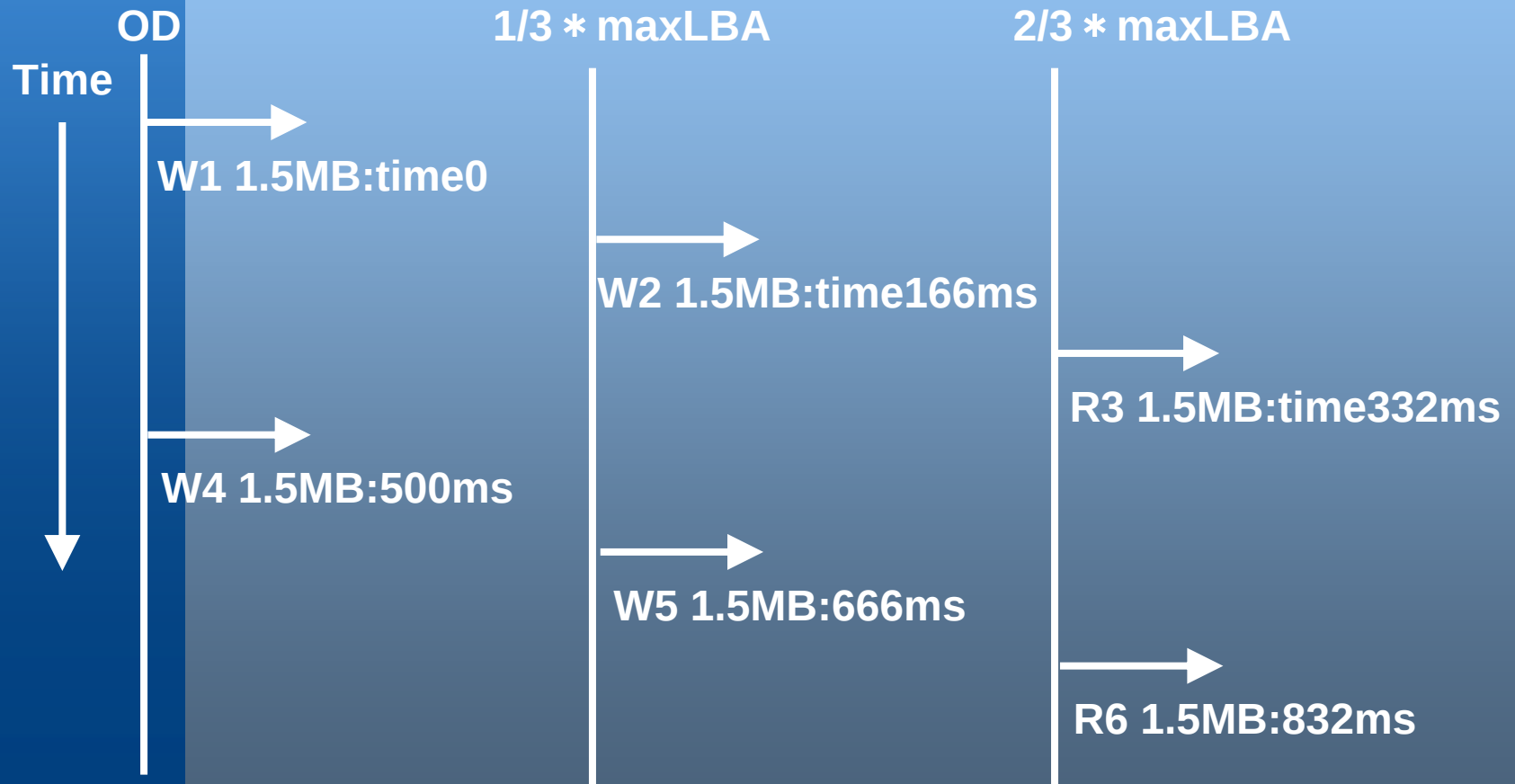
SATA Transmission Channel Test

- Study for IDEMA Standard :
- 1) To determine IDEMA standard TEST Pattern
 - Because this test result shows that those tests solution achieve compatible test result,
 - some test patterns may work to evaluate.
 - But IDEMA will propose standardization for test pattern, and solution should use the pattern.
 - The test pattern will be the same as SATA-IO compliance test pattern or modified it.
- 2) Definition of set-up for measurement and tools
 - Generator of test pattern is not specified.
 - To study that vendor's generator will be used for test set-up at present,
 - or to fix recommended HDD as SATA signal generator in order to use the
 - SATA signal from the HDD by BIST mode.

1. IDEMA Green Guideline Discussion (on going)

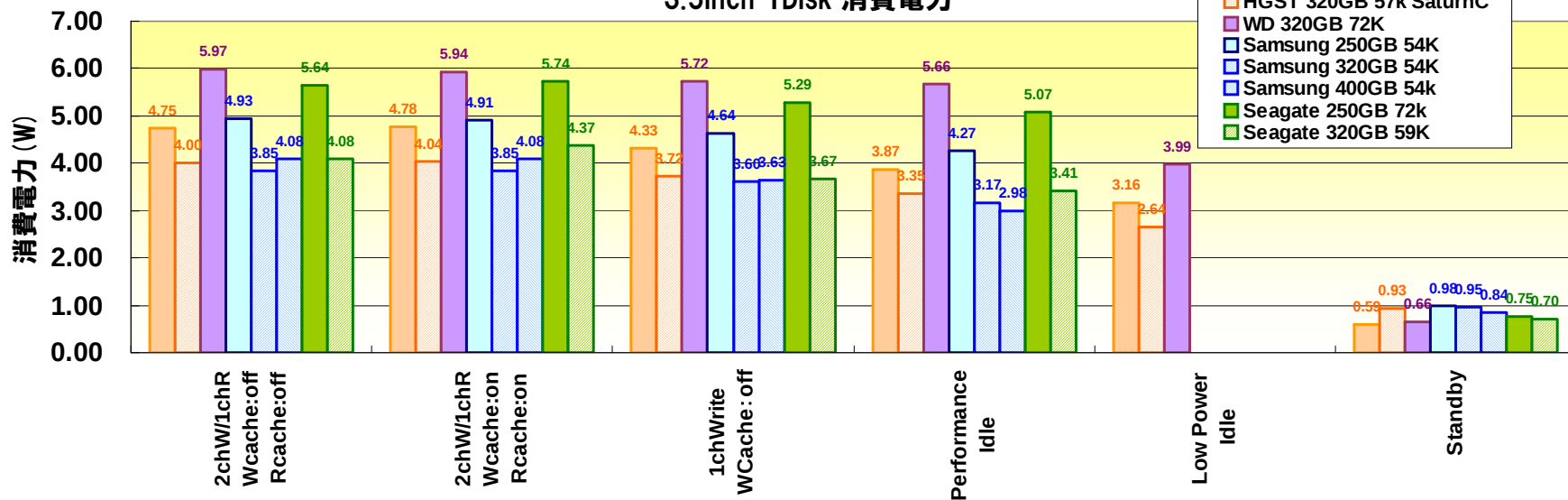
- **2/8**
- **4/11**
- **5/9** : 1st Measurement of HDD power consumption
- **6/13** : 2nd Measurement
- **9/12** : 3rd Measurement
- **11/14** : 4th Measurement

The simulation model of power consumption for recorder

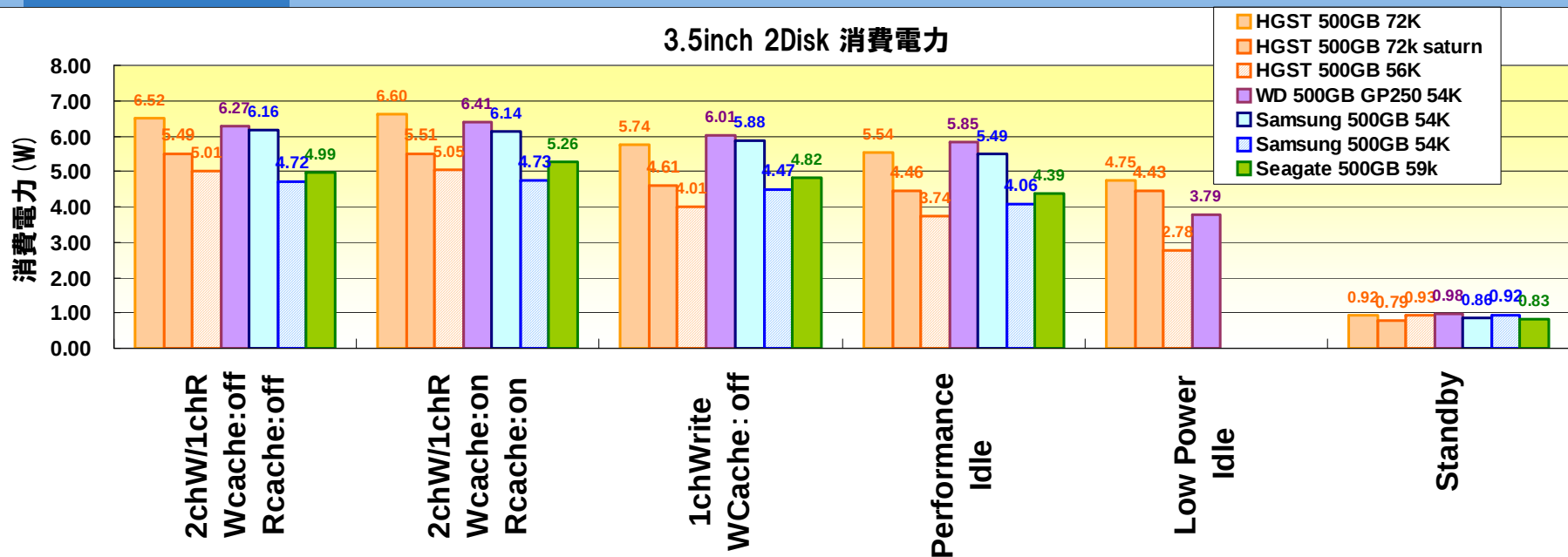


3.5inch HDD Power Consumption:1Disk Class

3.5inch 1Disk 消費電力



3.5inch HDD Power Consumption:2Disk Class



3.5inch HDD Power Consumption:3-5Disk Class

