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| *Title:* | **HDR CE2: cross-check report of JCTVC-W0033** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Information/Cross-check | | |
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| *Source:* | Dolby Laboratories, Inc. | | |

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# Abstract

This report describes the cross check made by the Dolby for CE2 Test 2.b-1 from Technicolor. These experiments relate to SDR backward compatible configuration, and focus on reshape setting 1 that involves cross-plane colour reshaping. The data distributed by the proponent match with the ones recreated by the cross-checker.

# Introduction

Core experiment CE2.b-1 focuses on reshaper setting 1, relating to SDR backward compatibility feature, with the usage in the chroma reshaping of cross-plane mode. The software package of this CE test was delivered to CE2 participants on Feb. 2nd and results were delivered on Feb. 5th.

The crosscheck includes both a brief software inspection as well as simulation under CTC.

# Software Inspection

The CE test software package is built on top of the current Exploratory Test Model (ETM\_RC\_r1, delivered on January 21, 2016). Changes of source code are clearly indicated by Macro settings. There is no change to the current ETM syntax and inverse reshaping process.

# Simulation Results

Simulation is done according to the common test condition and comparison is made against Anchor v.3.2. 64-bit linux (CentOS) platform was used to conduct all the jobs of YUV generation, encoding and decoding. The results (bitrate, metrics and md5sum values) are matched with results provided by Technicolor. Excel spreadsheets are attached.