# Status of Board Stack Assembly and Laser Testing

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# Inventory of Board Stacks

#### On site:

1 tested board stack: Stack # 1 of Module 01

1 stack is to be assembled and

tested today: Stack # 2 of Module 01

1 stack of SCROD # 030: SCROD replacement and retesting of the stack is needed

Planned to assemble:

Have heat plates for 4

more stacks: Stacks # 3 and Stack # 4 of Module 01 and

1 or 2 extra stacks

## Inventory of Available Carriers

### On site:

17 unassembled carriers: one Grade A (development), one Grade B Class C, the

other are Grade B Class X or Grade F

32 carriers arrived from

recent ASIC replacement: 31 unassembled

1 in board stack # 1 of Module 01

7 carriers from PNNL: all Grade A, one have a cracked connector

4 carriers in board stack # 1 of Module 01

## Retesting Repaired Carriers

So far, 10 out of 32 carriers with replaced ASICs were retested at the stand alone bench

4 carriers failed the stand alone test, either with the same replaced ASIC or with another original

2 carriers passed the stand alone test but later failed the laser test (large top resolution on several channels, for one carrier with the same replacement ASIC, for the other carrier with another original ASIC)

Observed trend of repair:

less likely to repair the ASICs that pass the standalone test but fail the laser test. Those that explicitly fail the standalone test have better chances to be repaired through ASIC replacement

# Inventory of SCRODs

#### On site:

only 3 boards # 030, # 035, # 052

030: failed DRAM test at KEK (will not be used)

035: does not have J-Tag connector soldered

052: flaky J-Tag connector, will attempt to use with the board stack # 2 of

Module 01

## In Pittsburgh:

Four SCRODs need to be tested for DRAM performance and then to be sent back to UH

Need those SCRODs to finish the all planned board stacks to a total count of 69 or 70, and have a SCROD to be used with the former # 030 stack