

## DoseLab CT Imaging QA Results

Summary: **Some tests generated a warning**

DoseLab version: 6.80

Date: November 08, 2019

Machine: Unit 10, #:1166

Phantom: Catphan 504

Magnification: 99.59%

Energy: 80 kV

Expected slice width: 2.5 mm

Matrix size: 384x384

Performed by: Pedro Martinez

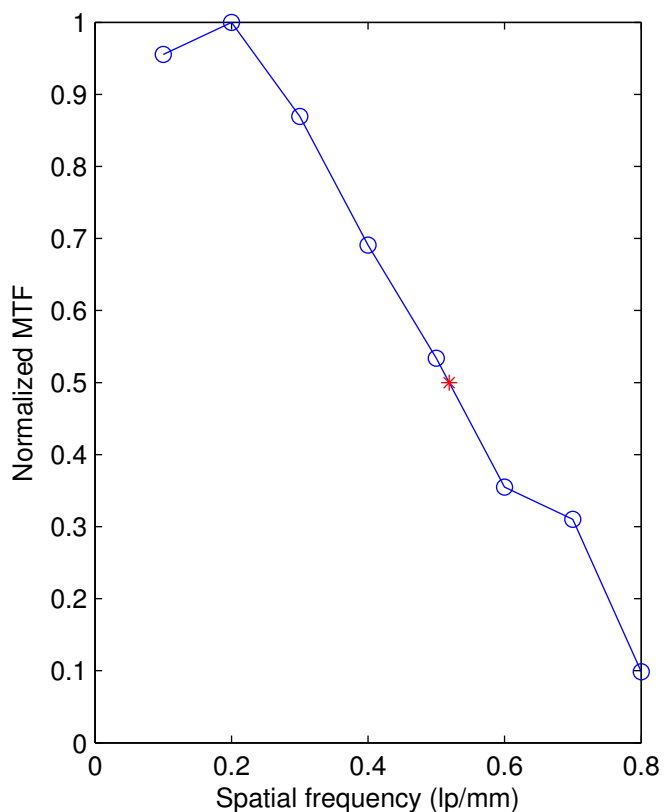
Tolerance set: Unit 10 Small FOV

Scaling discrepancy: 1.0 mm (Warning)

Geometric distortion: 0.3 mm (Pass)

Spatial resolution (50% MTF): 0.52 lp/mm (Pass)

Minimum uniformity (ROI 19): 98.4% (Pass)



## CTP404 module results

### Contrast ROI details

Measured HU

1: 321

2: 81

### HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 115 / -5

4 (Air): -1000 / -996 / 4

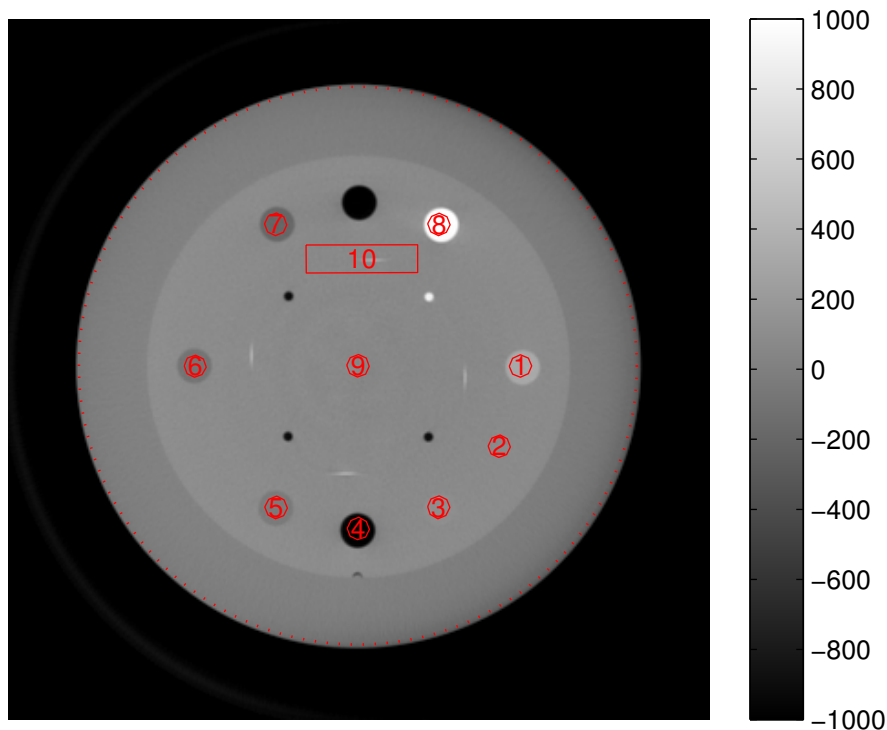
5 (Polystyrene): -35 / -35 / 0

6 (LDPE): -100 / -90 / 10

7 (PMP): -200 / -195 / 5

8 (Teflon): 990 / 993 / 3

9 (CTP404): 100 / 62 / -38



## CTP528 module results

### Spatial resolution ROI details

Phantom lp/mm / Normalized MTF

11: 0.1 / 0.96

12: 0.2 / 1.00

13: 0.3 / 0.87

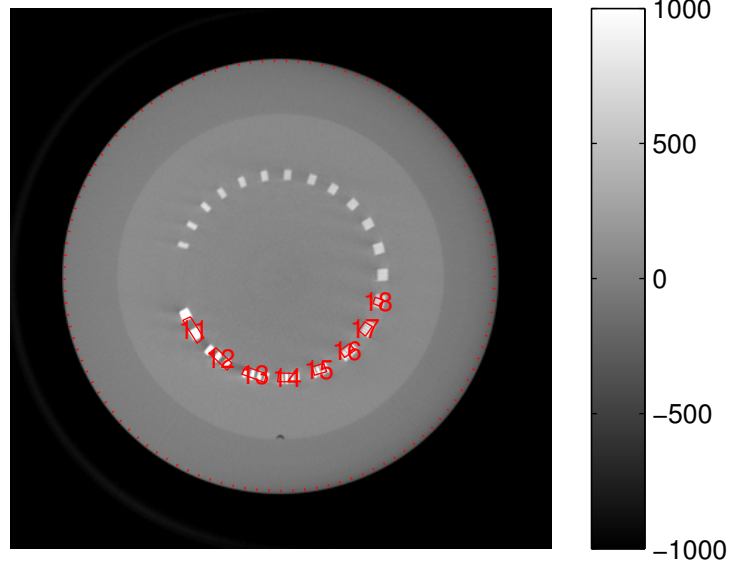
14: 0.4 / 0.69

15: 0.5 / 0.53

16: 0.6 / 0.35

17: 0.7 / 0.31

18: 0.8 / 0.10



## CTP486 module results

### Uniformity ROI details

Measured HU / Uniformity

19: -2 / 98.4%

20: 21 / 98.8%

21: 34 / 98.6%

22: 41 / 98.7%

23: 35 / 98.8%

