

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: December 20, 2019

Machine: Unit 8, #:3864

Phantom: Catphan 504

Magnification: 99.83%

Energy: 125 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Rebecca Frederick

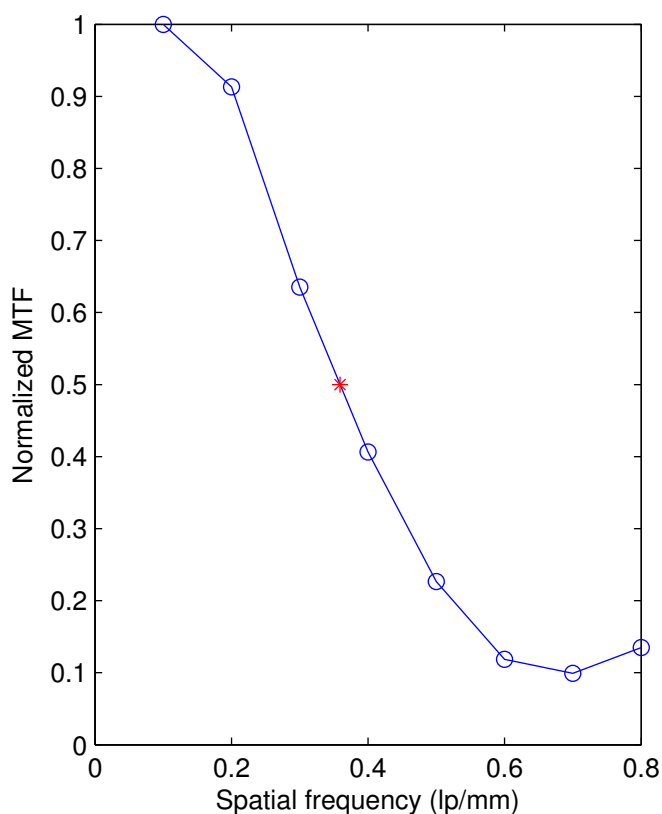
Tolerance set: Unit:1,6,7,8 Large FOV

Scaling discrepancy: 0.8 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

Spatial resolution (50% MTF): 0.36 lp/mm (Pass)

Minimum uniformity (ROI 23): 99.3% (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 342

2: 87

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 113 / -7

4 (Air): -1000 / -999 / 1

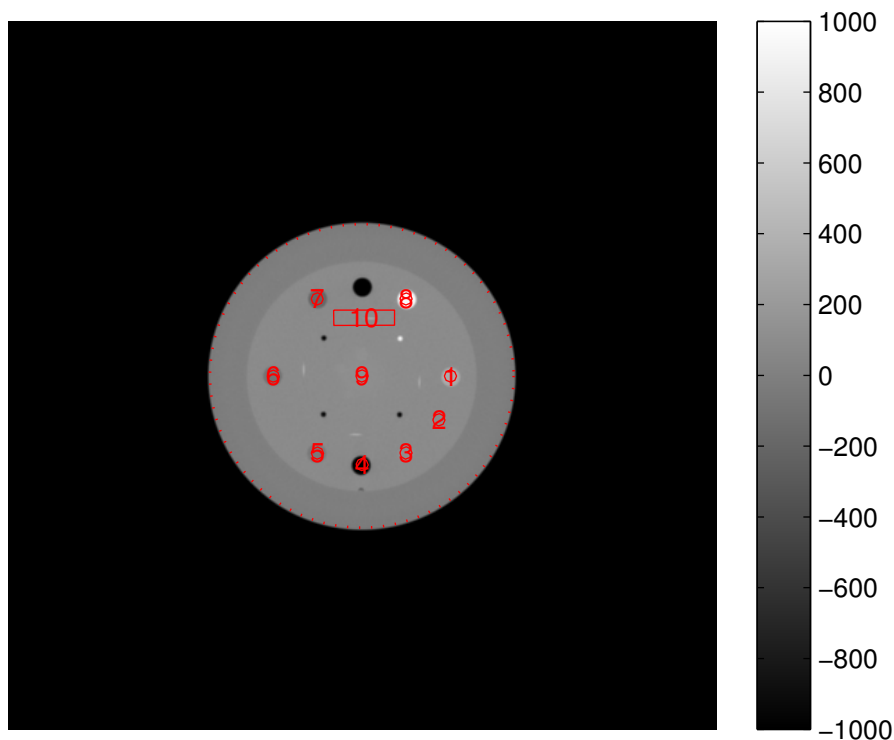
5 (Polystyrene): -35 / -46 / -11

6 (LDPE): -100 / -103 / -3

7 (PMP): -200 / -196 / 4

8 (Teflon): 990 / 956 / -34

9 (CTP404): 100 / 120 / 20



CTP528 module results

Spatial resolution ROI details

Phantom lp/mm / Normalized MTF

11: 0.1 / 1.00

12: 0.2 / 0.91

13: 0.3 / 0.64

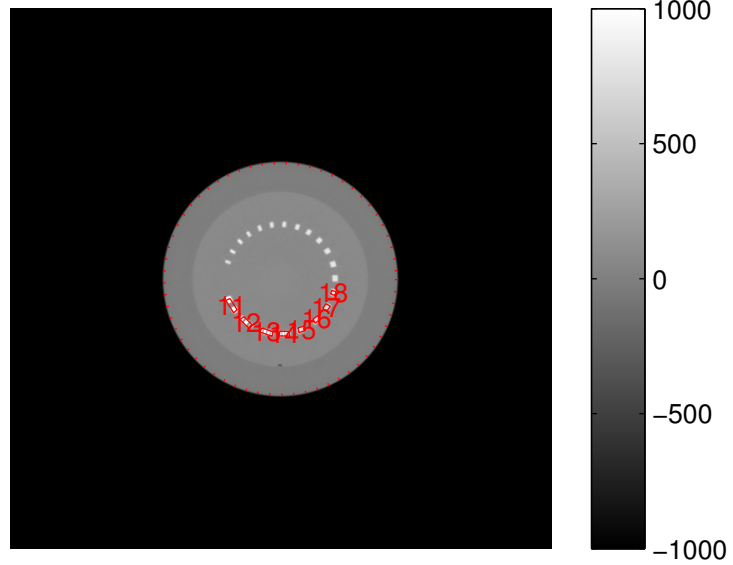
14: 0.4 / 0.41

15: 0.5 / 0.23

16: 0.6 / 0.12

17: 0.7 / 0.10

18: 0.8 / 0.13



CTP486 module results

Uniformity ROI details

Measured HU / Uniformity

19: 30 / 99.3%

20: 12 / 99.3%

21: 11 / 99.4%

22: 19 / 99.3%

23: 5 / 99.3%

