

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: February 20, 2020

Machine: Unit 1, #:3951

Phantom: Catphan 504

Magnification: 100.04%

Energy: 125 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Amy Frederick

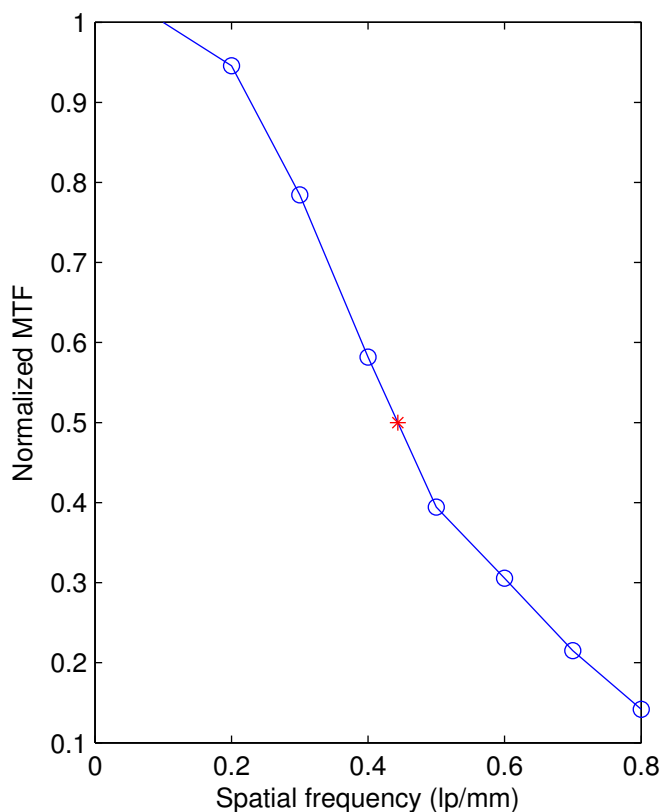
Tolerance set: Unit:1,6,7,8 Large FOV

Scaling discrepancy: 0.1 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

Spatial resolution (50% MTF): 0.44 lp/mm (Pass)

Minimum uniformity (ROI 23): 97.8% (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 368

2: 97

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 129 / 9

4 (Air): -1000 / -998 / 2

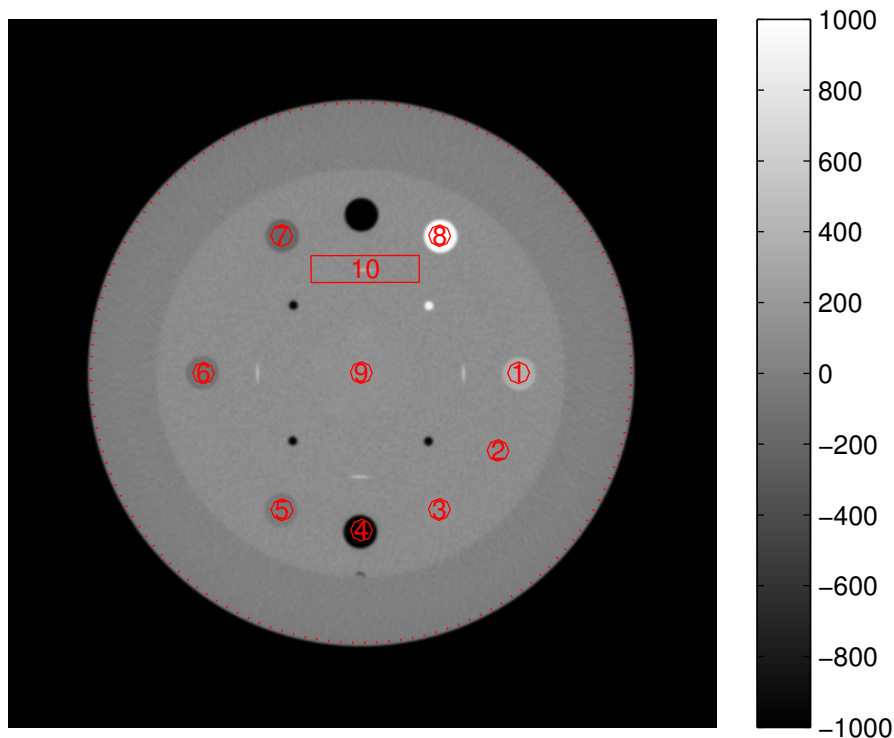
5 (Polystyrene): -35 / -37 / -2

6 (LDPE): -100 / -95 / 5

7 (PMP): -200 / -192 / 8

8 (Teflon): 990 / 1011 / 21

9 (CTP404): 100 / 150 / 50



CTP528 module results

Spatial resolution ROI details

Phantom lp/mm / Normalized MTF

11: 0.1 / 1.00

12: 0.2 / 0.95

13: 0.3 / 0.78

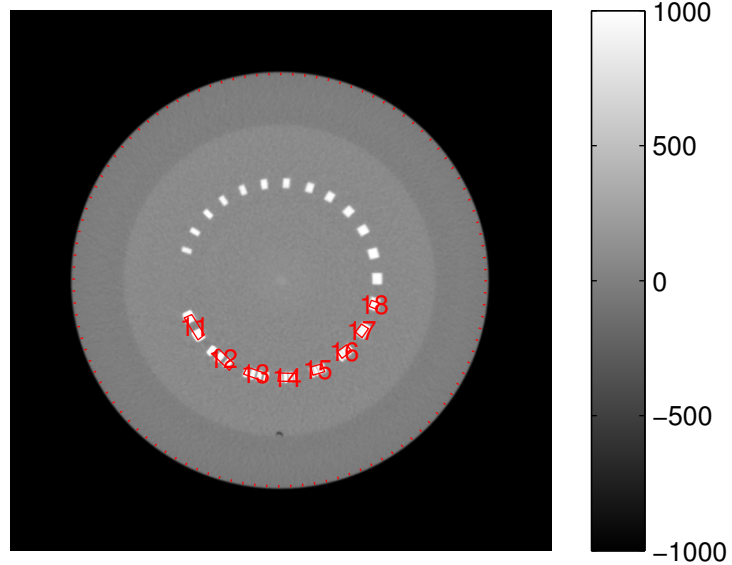
14: 0.4 / 0.58

15: 0.5 / 0.39

16: 0.6 / 0.31

17: 0.7 / 0.22

18: 0.8 / 0.14



CTP486 module results

Uniformity ROI details

Measured HU / Uniformity

19: 51 / 98.1%

20: 23 / 97.8%

21: 22 / 97.8%

22: 21 / 97.8%

23: 18 / 97.8%

