

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: February 04, 2020

Machine: Unit 7, #:1245

Phantom: Catphan 504

Magnification: 99.86%

Energy: 125 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Kailyn Stenhouse

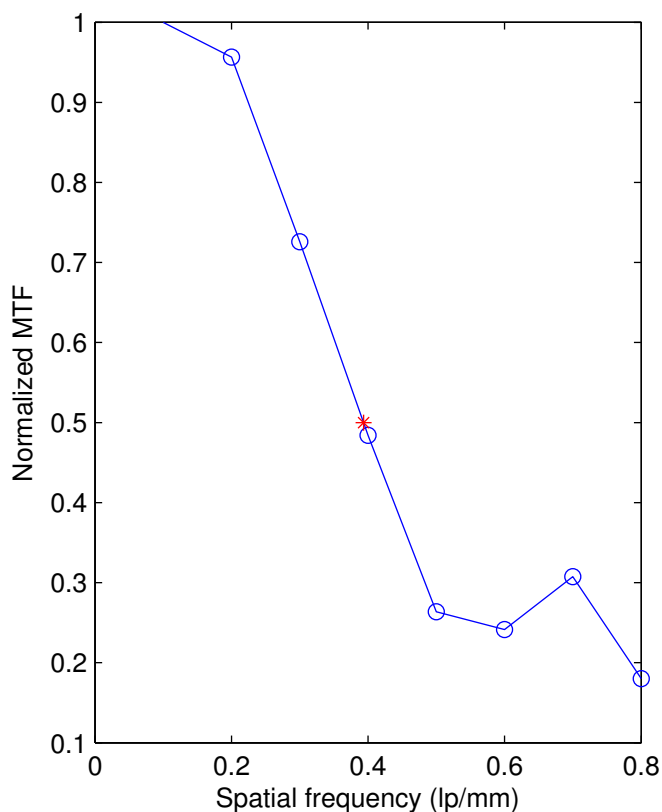
Tolerance set: Unit:1,6,7,8, 9 Large FOV

Scaling discrepancy: 0.7 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

Spatial resolution (50% MTF): 0.39 lp/mm (Pass)

Minimum uniformity (ROI 23): 99.2% (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 370

2: 110

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 139 / 19

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

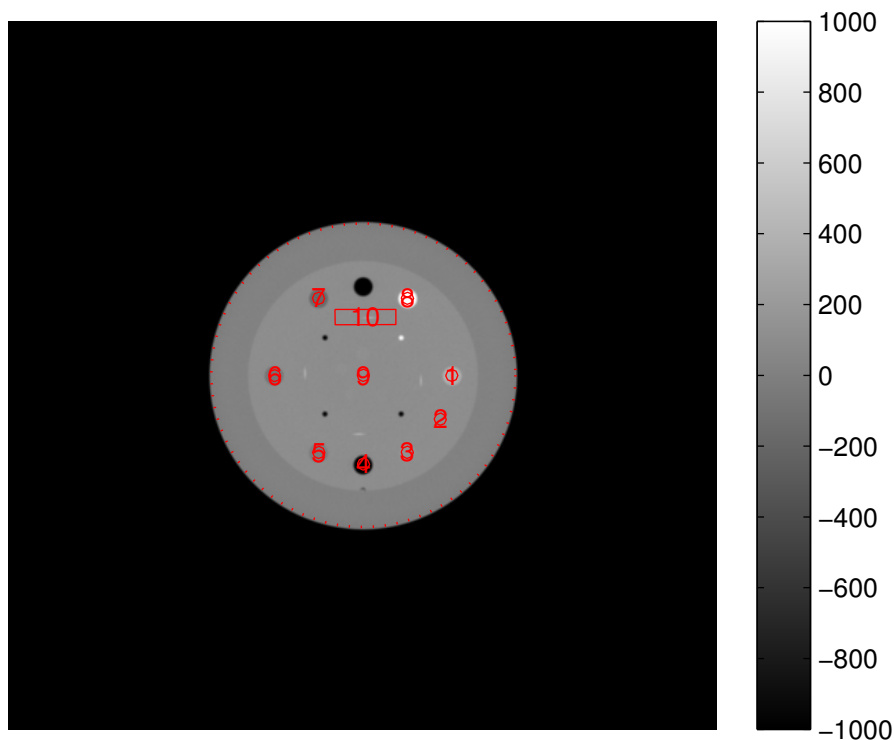
5 (Polystyrene): -35 / -26 / 9

6 (LDPE): -100 / -84 / 16

7 (PMP): -200 / -177 / 23

8 (Teflon): 990 / 993 / 3

9 (CTP404): 100 / 96 / -4



CTP528 module results

Spatial resolution ROI details

Phantom lp/mm / Normalized MTF

11: 0.1 / 1.00

12: 0.2 / 0.96

13: 0.3 / 0.73

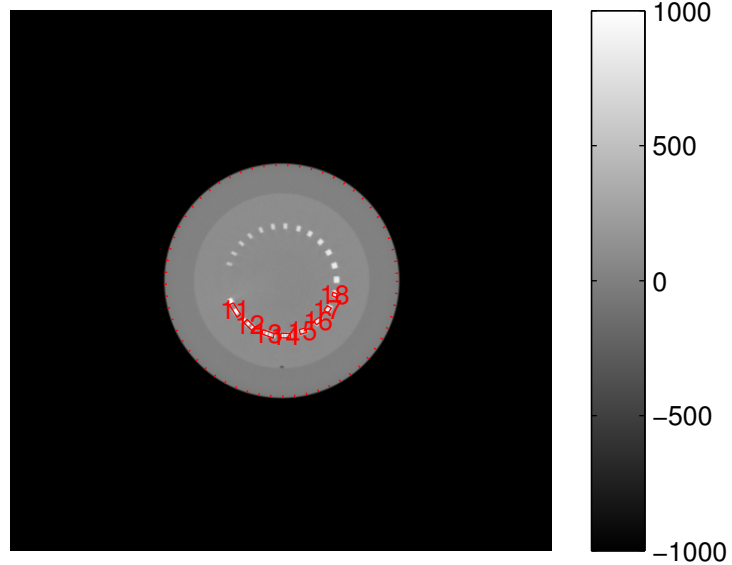
14: 0.4 / 0.48

15: 0.5 / 0.26

16: 0.6 / 0.24

17: 0.7 / 0.31

18: 0.8 / 0.18



CTP486 module results

Uniformity ROI details

Measured HU / Uniformity

19: 18 / 99.3%

20: 34 / 99.2%

21: 27 / 99.3%

22: 30 / 99.2%

23: 26 / 99.2%

