

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: December 13, 2019

Machine: Unit 7, #:1245

Phantom: Catphan 504

Magnification: 99.92%

Energy: 125 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Joseph Madamesila

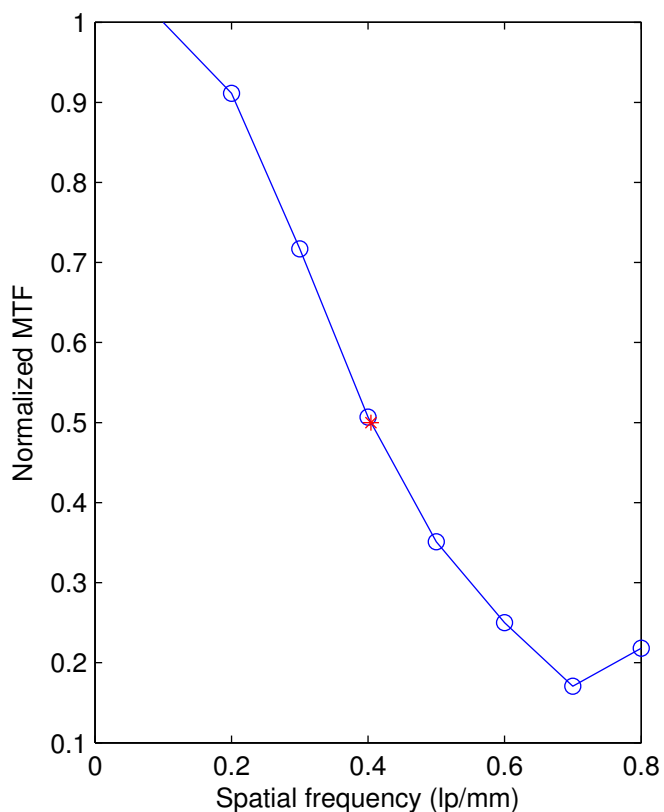
Tolerance set: Unit:1,6,7,8, 9 Large FOV

Scaling discrepancy: 0.2 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

Spatial resolution (50% MTF): 0.40 lp/mm (Pass)

Minimum uniformity (ROI 19): 98.8% (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 372

2: 111

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 140 / 20

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

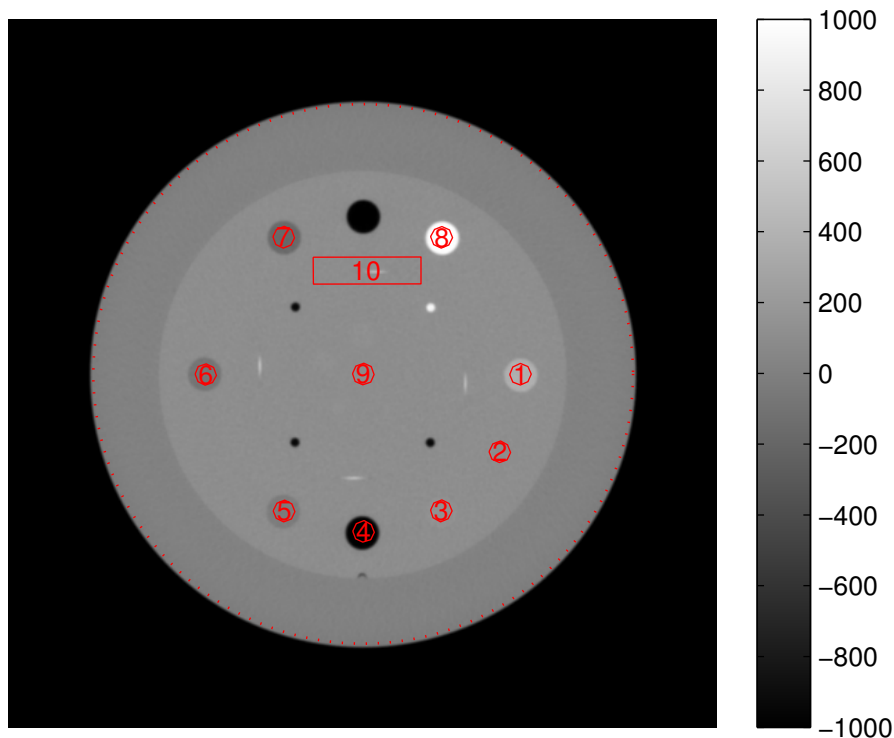
5 (Polystyrene): -35 / -25 / 10

6 (LDPE): -100 / -82 / 18

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

8 (Teflon): 990 / 997 / 7

9 (CTP404): 100 / 99 / -1



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 / 0.72

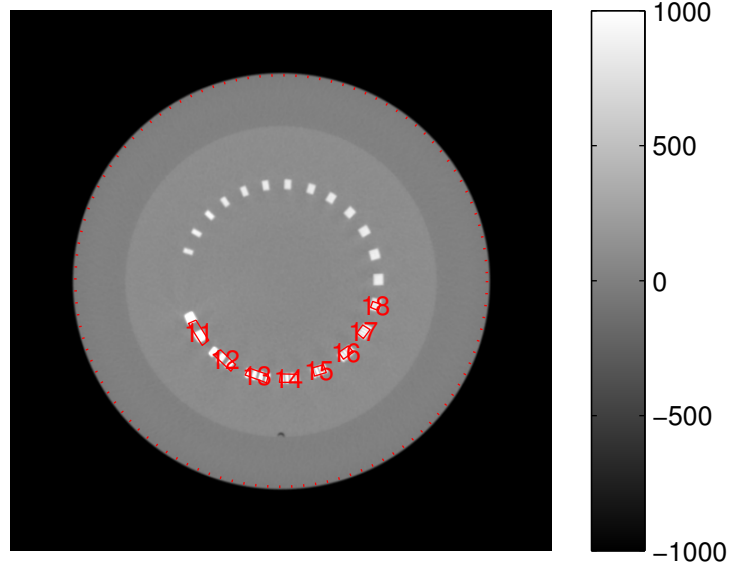
14: 0.4 / 0.51

15: 0.5 / 0.35

16: 0.6 / 0.25

17: 0.7 / 0.17

18: 0.8 / 0.22



CTP486 module results

Uniformity ROI details

Measured HU / Uniformity

19: 21 / 98.8%

20: 33 / 98.8%

21: 32 / 98.8%

22: 35 / 98.9%

23: 19 / 98.9%

