

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: January 06, 2020

Machine: Unit 3, #:3484

Phantom: Catphan 504

Magnification: 99.85%

Energy: 120 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Pedro Martinez

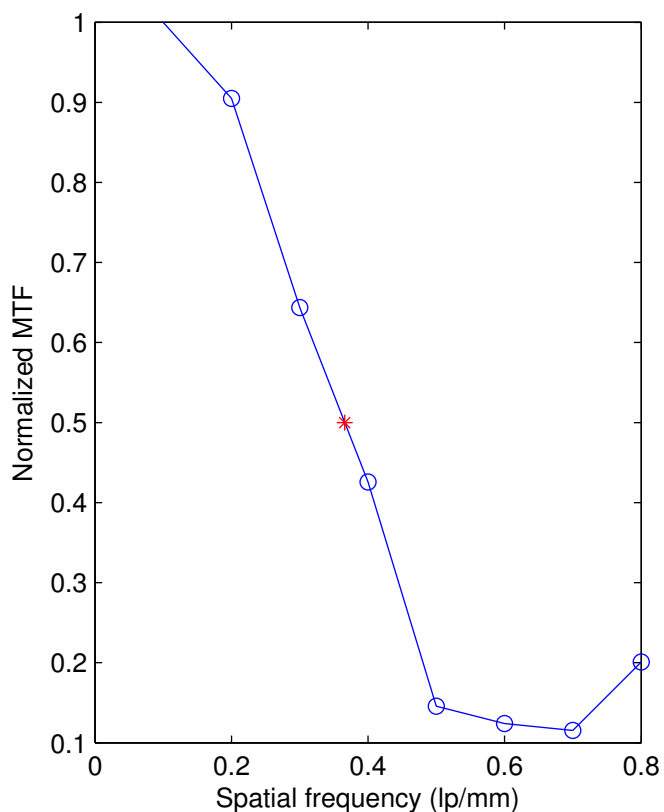
Tolerance set: Unit 3&5 Large FOV

Scaling discrepancy: 0.7 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

Spatial resolution (50% MTF): 0.37 lp/mm (Pass)

Minimum uniformity (ROI 21): 98.7% (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 357

2: 98

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 125 / 5

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

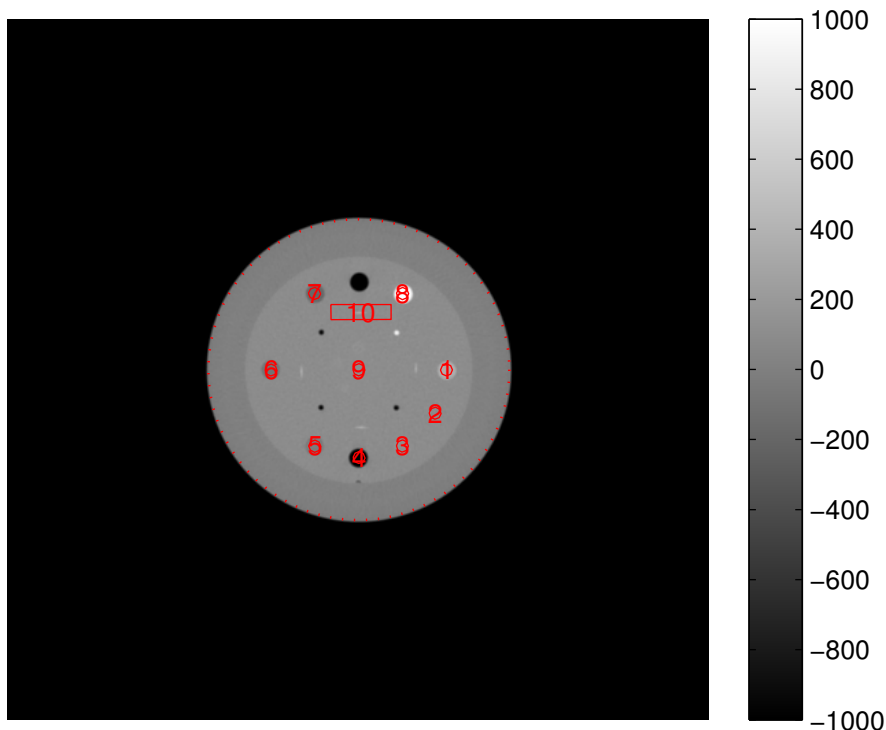
5 (Polystyrene): -35 / -35 / 0

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

7 (PMP): -200 / -183 / 17

8 (Teflon): 990 / 987 / -3

9 (CTP404): 100 / 107 / 7



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

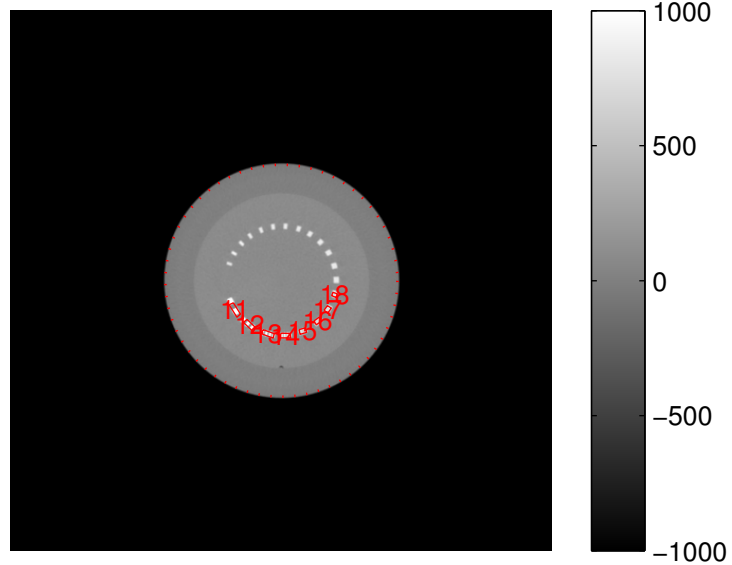
14: 0.4 / 0.43

15: 0.5 / 0.15

16: 0.6 / 0.12

17: 0.7 / 0.12

18: 0.8 / 0.20



CTP486 module results

Uniformity ROI details

Measured HU / Uniformity

19: 27 / 98.9%

20: 18 / 98.7%

21: 18 / 98.7%

22: 18 / 98.8%

23: 15 / 98.7%

