

DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80

Date: February 21, 2020

Machine: Unit 3, #:3484

Phantom: Catphan 504

Magnification: 99.83%

Energy: 125 kV

Expected slice width: 2.0 mm

Matrix size: 512x512

Performed by: Pedro Martinez

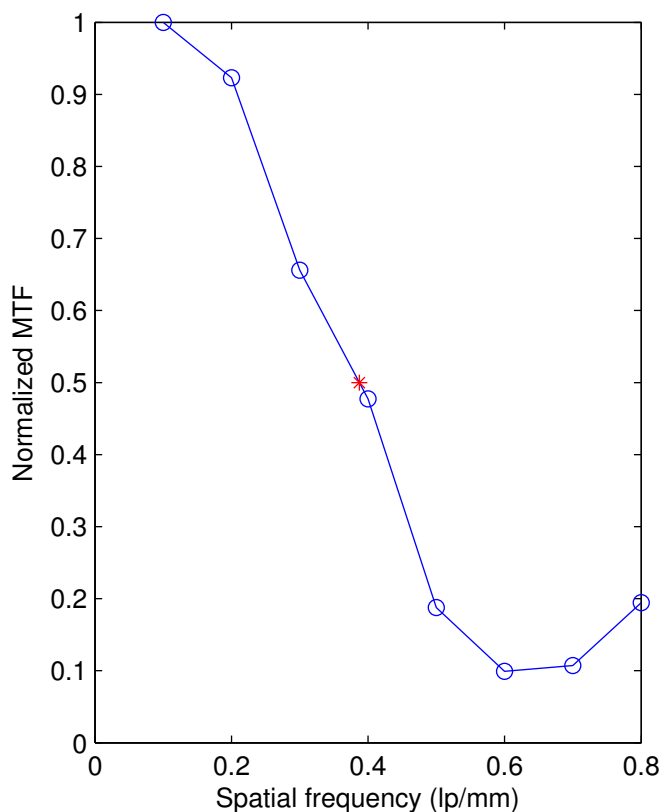
Tolerance set: Unit 3&5 Large FOV

Scaling discrepancy: 0.8 mm (Pass)

Geometric distortion: 0.1 mm (Pass)

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

Minimum uniformity (ROI 21): 99.3% (Pass)



CTP404 module results

Contrast ROI details

Measured HU

1: 357

2: 100

HU constancy ROI details

Reference / Measured / Difference

3 (Acrylic): 120 / 126 / 6

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

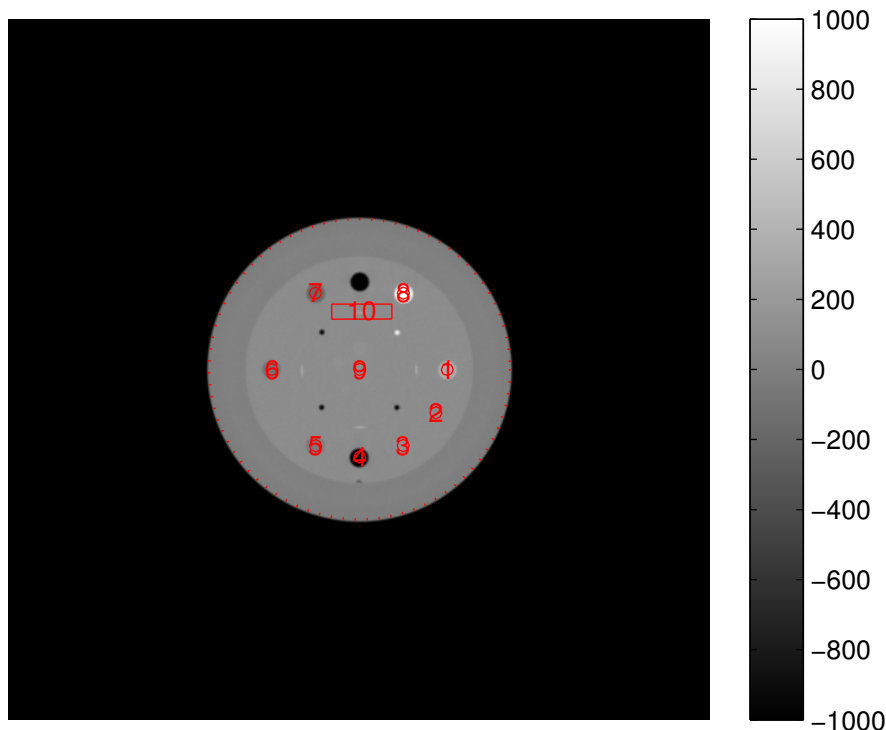
5 (Polystyrene): -35 / -33 / 2

6 (LDPE): -100 / -91 / 9

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

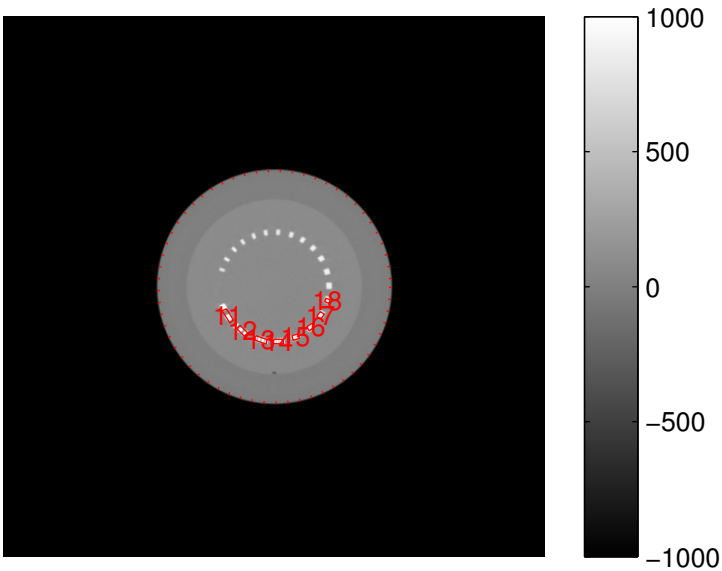
8 (Teflon): 990 / 982 / -8

9 (CTP404): 100 / 106 / 6



CTP528 module results

Spatial resolution ROI details
Phantom lp/mm / Normalized MTF
11: 0.1 / 1.00
12: 0.2 / 0.92
13: 0.3 / 0.66
14: 0.4 / 0.48
15: 0.5 / 0.19
16: 0.6 / 0.10
17: 0.7 / 0.11
18: 0.8 / 0.19



CTP486 module results

Uniformity ROI details
Measured HU / Uniformity
19: 27 / 99.3%
20: 18 / 99.3%
21: 17 / 99.3%
22: 18 / 99.4%
23: 14 / 99.3%

