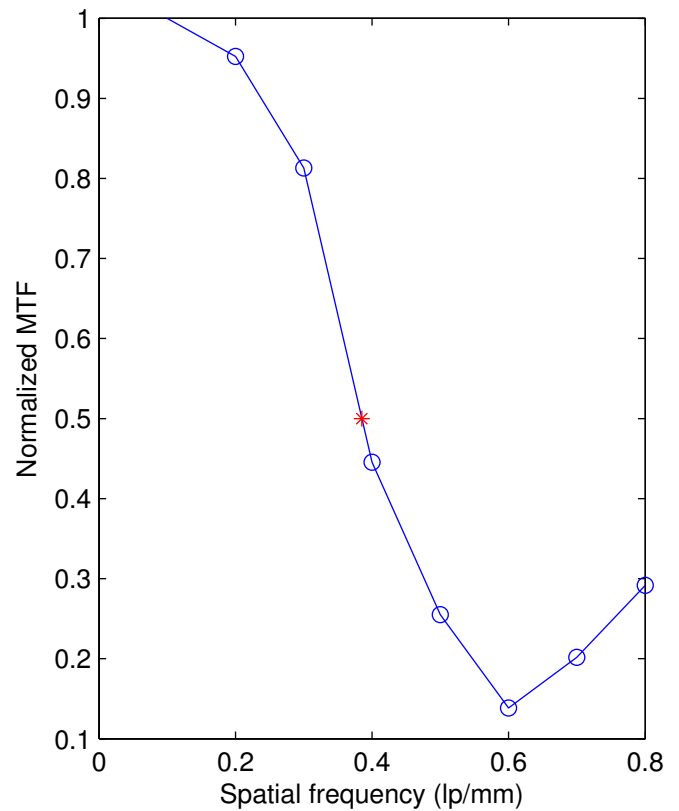# DoseLab CT Imaging QA Results

Summary: All tests passed

DoseLab version: 6.80
Date: January 27, 2020
Machine: Unit 9, #:4169
Phantom: Catphan 504
Magnification: 99.85%
Energy: 125 kV
Expected slice width: 2.0 mm
Matrix size: 512x512
Performed by: Lingyue Sun
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 22): 98.6% (Pass)

CTP404 module results

Contrast ROI details
Measured HU
1: 356
2: 96

HU constancy ROI details
Reference / Measured / Difference
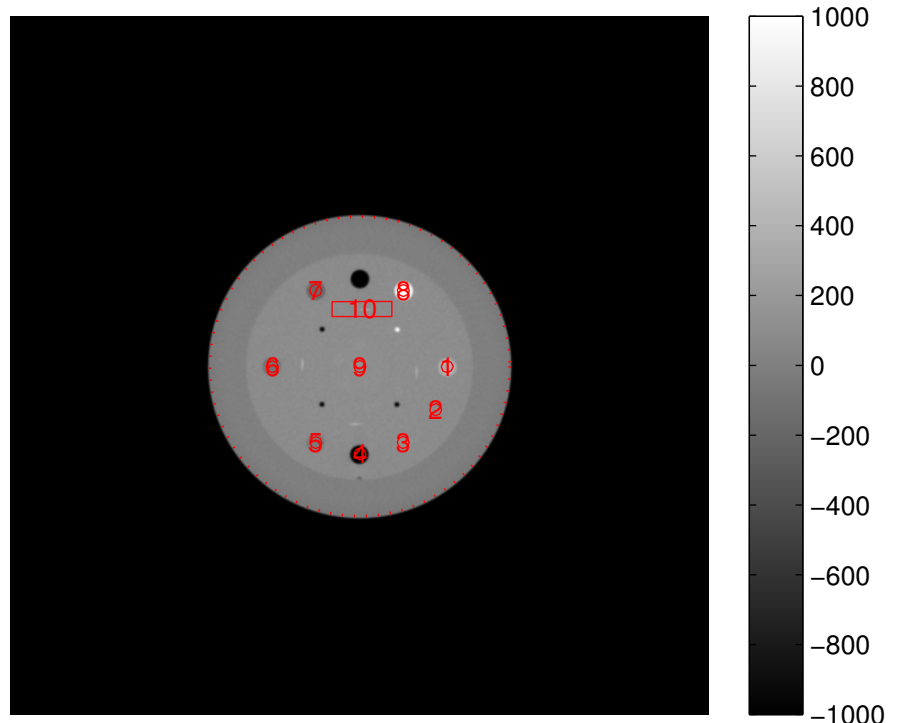3 (Acrylic): 120 / 127 / 7
4 (Air): −1000 / −998 / 2
5 (Polystyrene): −35 / −39 / −4
6 (LDPE): −100 / −94 / 6
7 (PMP): −200 / −183 / 17
8 (Teflon): 990 / 972 / −18
9 (CTP404): 100 / 128 / 28

DoseLab

CTP528 module results

Spatial resolution ROI details
Phantom lp/mm / Normalized MTF
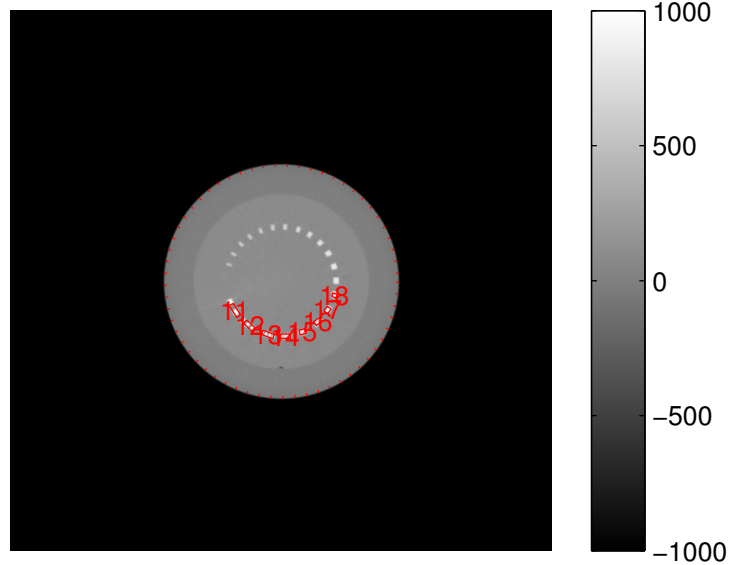11: 0.1 / 1.00
12: 0.2 / 0.95
13: 0.3 / 0.81
14: 0.4 / 0.45
15: 0.5 / 0.26
16: 0.6 / 0.14
17: 0.7 / 0.20
18: 0.8 / 0.29

CTP486 module results

Uniformity ROI details
Measured HU / Uniformity
19: 35 / 98.9%
20: 28 / 98.6%
21: 24 / 98.8%
22: 24 / 98.6%
23: 19 / 98.7%