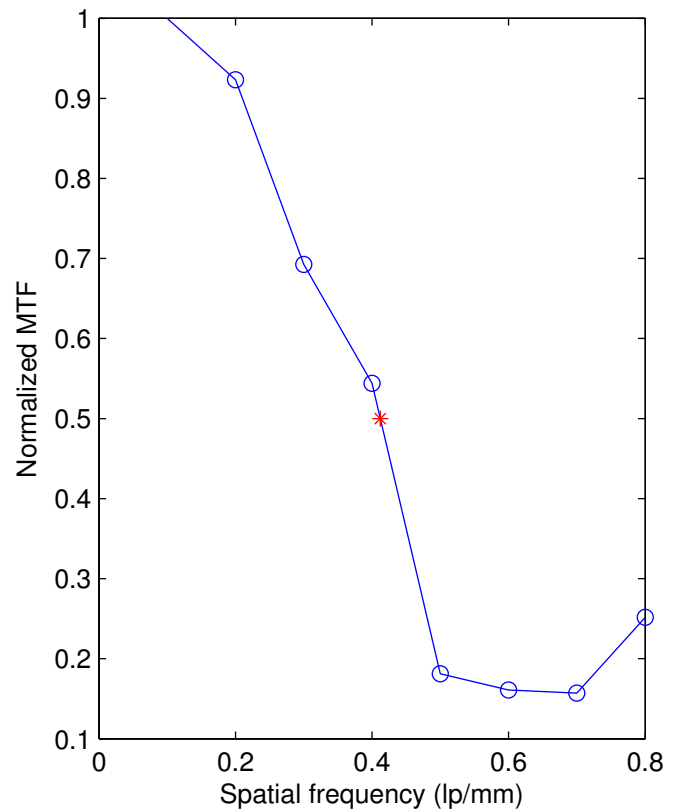# DoseLab CT Imaging QA Results

Summary: Some tests generated a warning

DoseLab version: 6.80
Date: January 07, 2020
Machine: Unit 6, #:0000
Phantom: Catphan 504
Magnification: 99.72%
Energy: 120 kV
Expected slice width: 2.0 mm
Matrix size: 512x512
Performed by: Devin VanElburg
Tolerance set: Unit 6 Large FOV

Scaling discrepancy: 1.3 mm (Warning)
Geometric distortion: 0.1 mm (Pass)
Spatial resolution (50% MTF): 0.41 lp/mm (Pass)
Minimum uniformity (ROI 23): 98.7% (Pass)

CTP404 module results

Contrast ROI details
Measured HU
1: 356
2: 97

HU constancy ROI details
Reference / Measured / Difference
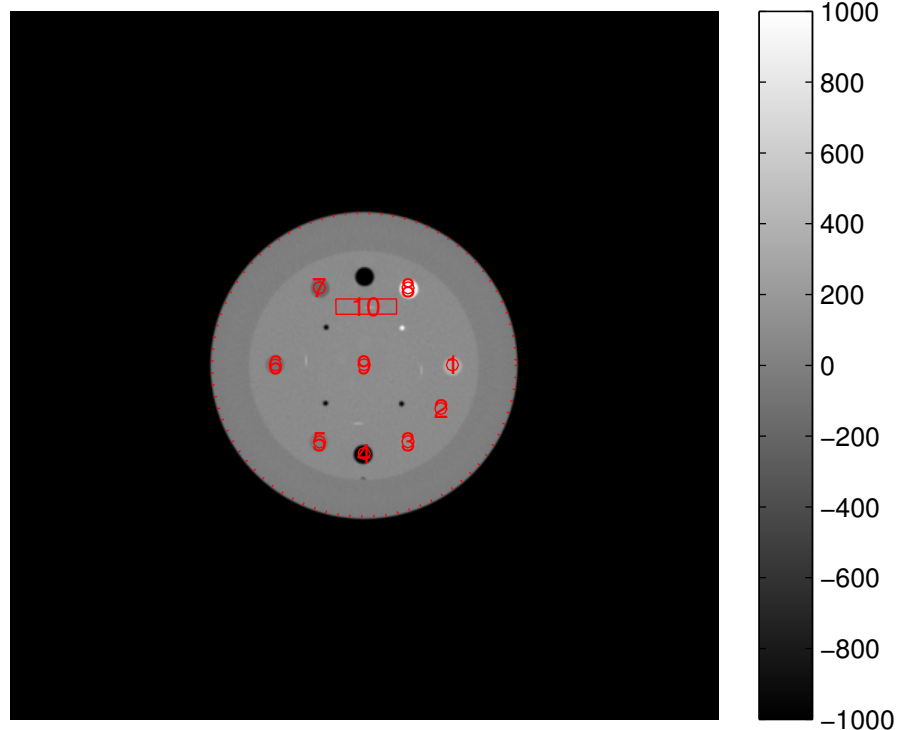3 (Acrylic): 120 / 125 / 5
4 (Air): −1000 / −1000 / 0
5 (Polystyrene): −35 / −38 / −3
6 (LDPE): −100 / −98 / 2
7 (PMP): −200 / −187 / 13
8 (Teflon): 990 / 972 / −18
9 (CTP404): 100 / 99 / −1

CTP528 module results

Spatial resolution ROI details
Phantom lp/mm / Normalized MTF
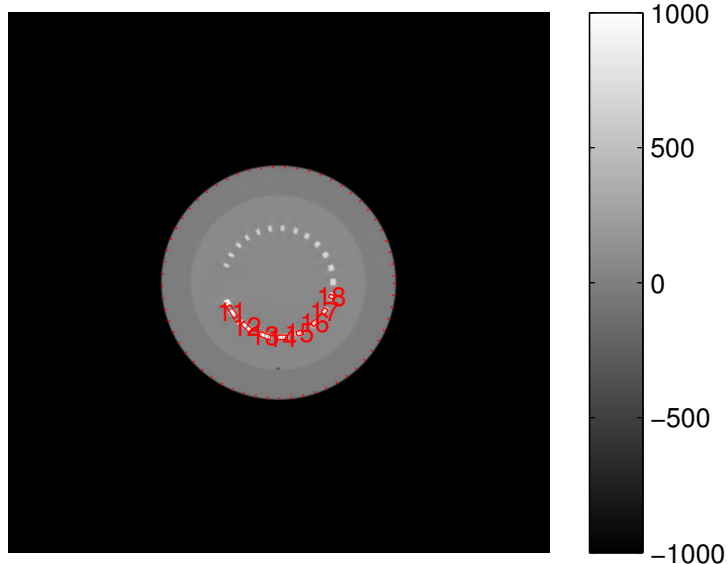11: 0.1 / 1.00
12: 0.2 / 0.92
13: 0.3 / 0.69
14: 0.4 / 0.54
15: 0.5 / 0.18
16: 0.6 / 0.16
17: 0.7 / 0.16
18: 0.8 / 0.25

CTP486 module results

Uniformity ROI details
Measured HU / Uniformity
19: 12 / 99.0%
20: 8 / 98.8%
21: 3 / 98.8%
22: 1 / 98.8%
23: 6 / 98.7%