

CT AutoQA Lite v3.01

KFJ-IRO

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Varian Med: Patient Ve Serial Number: 1469
Date Tested: 04/17/2013
Testing Performed by: zz-CBCT^zz-Catp

Scan Parameters

Image #	kV	mA	Time (msec)	FOV(cm)	Table	Filter	Slice(mm)	Mode	File Name
1	100	20	7350	261	122.76	Ram-La	1.98	Axial	Image 62.dcm
2	100	20	7350	261	91.08	Ram-La	1.98	Axial	Image 46.dcm
3	100	20	7350	261	57.42	Ram-La	1.98	Axial	Image 29.dcm
4	100	20	7350	261	17.82	Ram-La	1.98	Axial	.Image 9.dcm

Test Results

Image #	Test	Status
Im	Verification	Phantom ID: 504 Series (Varian Trilogy) ; Orientation: 1 Phantom Center: 254, 255; CT# of Module Material : 77.35 +/- 26.65 HU
2	CT # Linearity	Contrast Scale: 0.000201 Effective Energy: 60 keV R = 0.999088 Material Teflon Air LDPE Delrin Acrylic Polystyrene PMP CT# 955.1 -990.5 -106.6 339.8 107.2 -53.3 -198.4
3	Low Contrast (Model)	Contrast (%) 4.60 3.45 2.76 2.30 1.97 1.73 1.53 1.38 1.26 1.15 1.06 0.99 0.92 Detail (mm) 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.0 11.0 12.0 13.0 14.0 15.0
3	Low Contrast	Diameter of Smallest Object Visualized (mm): 8 Mean CT# over target: 44.56HU Mean CT# over Bkg: 33.50HU Measured Contrast: 11.06HU
4	Noise/Uniformity	CT#(HU) 9.8 +/- 26.1 3.8 +/- 24.3 2.9 +/- 23.1 2.6 +/- 26.2 3.1 +/- 25.4 Diff (HU) ----- -6.1 -7.0 -7.2 -6.7 Location center 3 o'clock 6 o'clock 9 o'clock 12 o'clock
2	Pixel Size	Expected(mm) X-Axis(mm) Y-Axis(mm) 0.51 0.51 0.52 0.51 0.51 Phantom Rotation : 0.3 degrees Phantom Center is 1.02 mm LEFT OF CENTER and 0.51 mm ABOVE CENTER
2	Slice Thickness	Expected(mm) X-Axis(mm) Y-Axis(mm) 1.98 2.29 , 2.54 2.59 , 2.13 Avg Slice Width: 2.39 mm Ramp Angle (deg): 23.0 Table Position Offset: 2.05 mm Vertical Angle : 2.1 degrees Horizontal Angle : 1.1 degrees
1	Spatial Resolution	Bead not located for PSF - Signal Level too Low

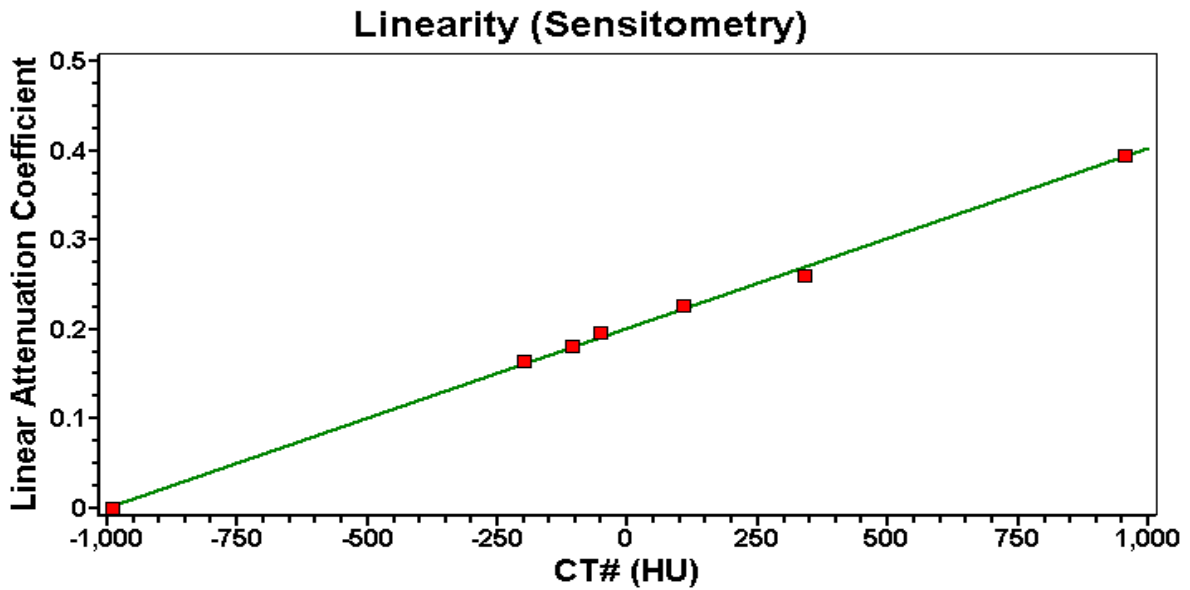
Image #

Test

Status

4	Uniformity	X-Axis Y-Axis Uniformity Index 0.73 0.76 Std Dev (HU): 10.0
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CT Linearity (Sensitometry)

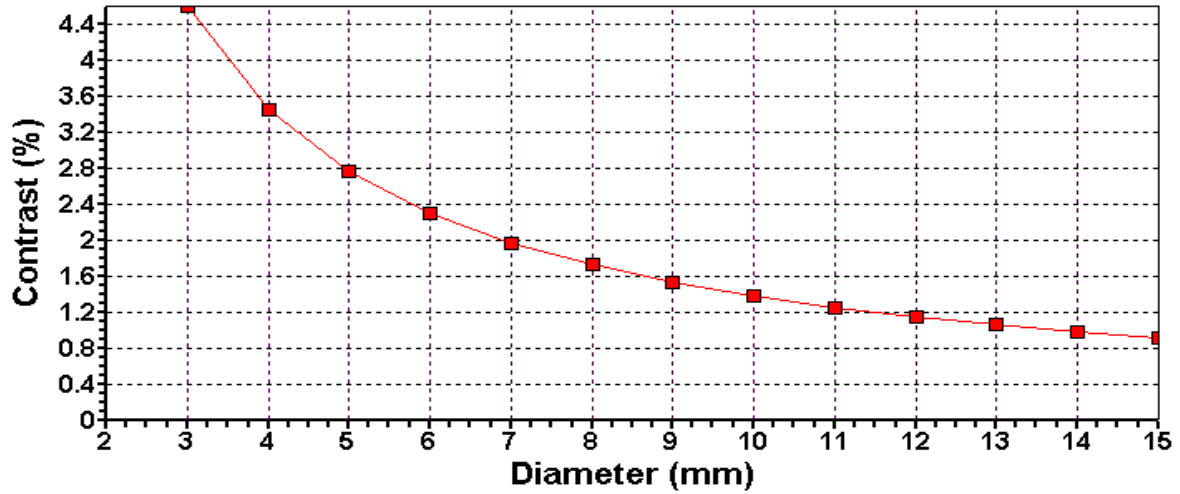


Contrast Scale: 0.000201 Intercept: -1001.8H
Teflon Air LDPE Delrin Acrylic Polystyrene PMP
955.1 -990.5 -106.6 339.8 107.2 -53.3 -198.4

KFJ-IR0 04/17/2013 504 Series (Varian Trilogy)
Patient Ue SN: 1469 Image #2 CT # Linearity
100kV, 20mA, 7350msec, 261.cm, Filter:Ram-Lak, 1.98mm, @ 91.08, Axial

Low Contrast Detectability

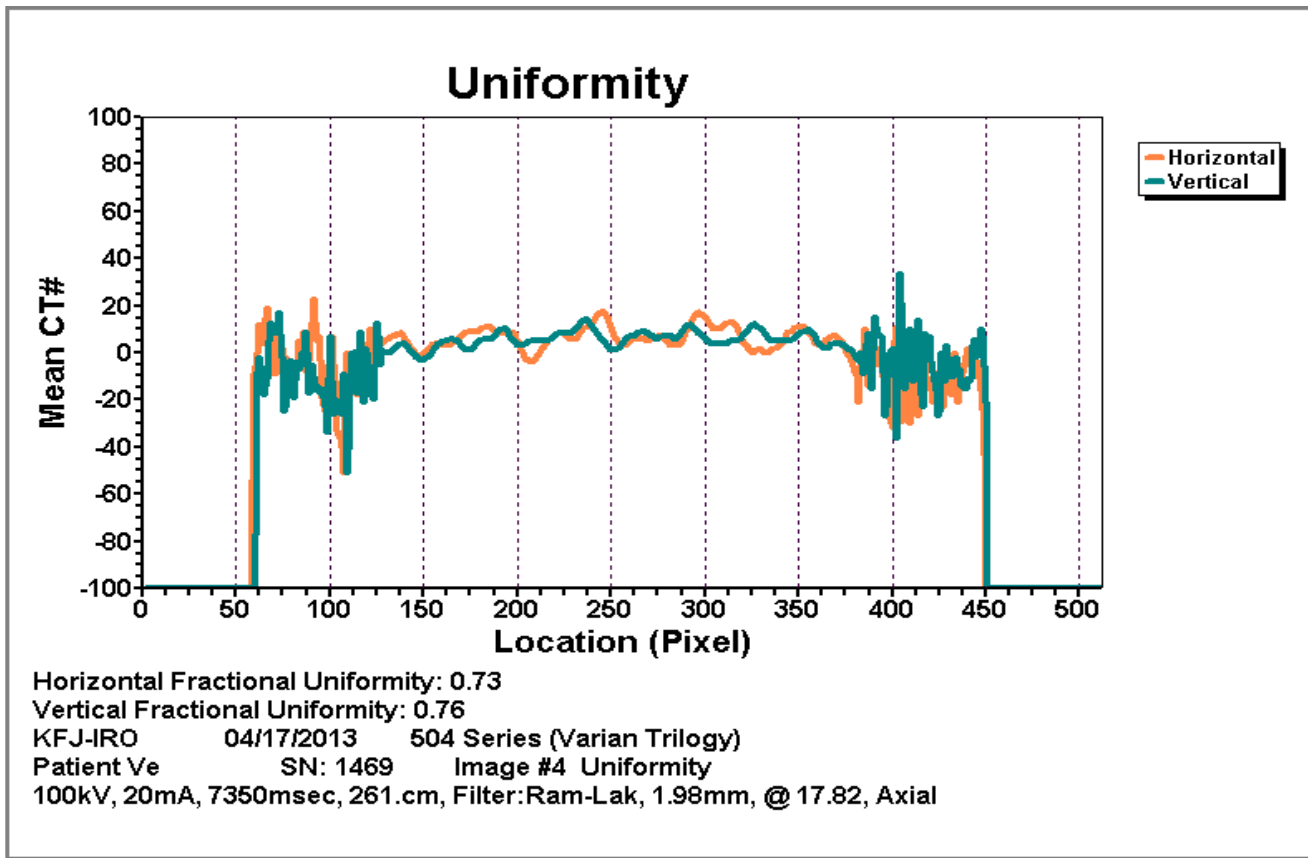
Low Contrast Model



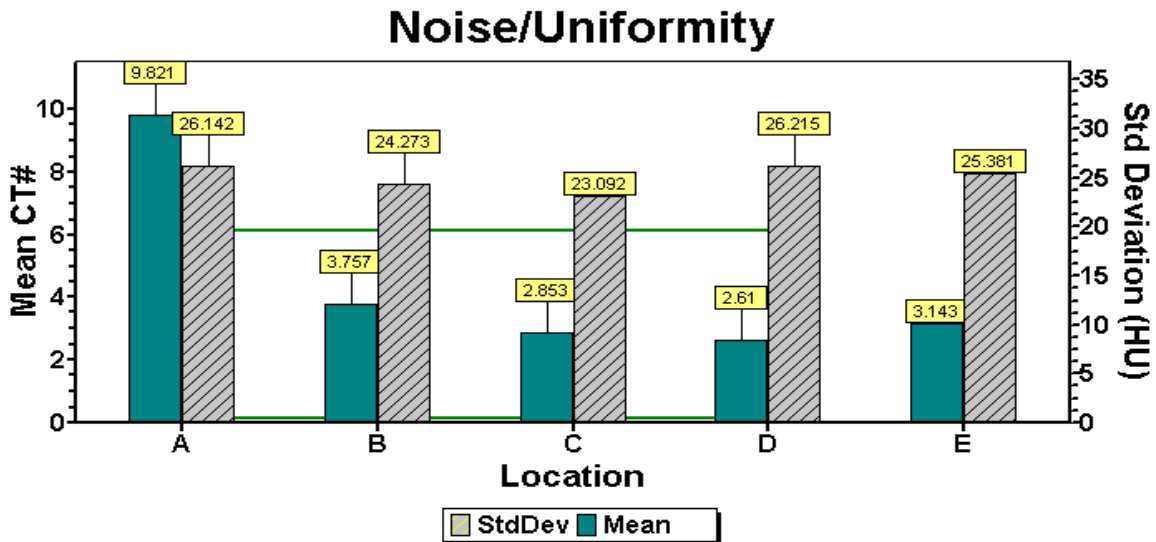
Contrast(%) 4.60 3.45 2.76 2.30 1.97 1.73 1.53 1.38 1.26 1.15 1.06 0.99 0.92
Diameter(mm) 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0
Factor: 1.00

KFJ-IRO 04/17/2013 504 Series (Varian Trilogy)
Patient Ve SN: 1469 Image #3 Low Contrast (Model)
100kV, 20mA, 7350msec, 261.cm, Filter:Ram-Lak, 1.98mm, @57.42, Axial

Uniformity



Noise/Uniformity



A (0,0) B (50,0) C (0,50) D (-50,0) E (0,-50)

KFJ-IRO 04/17/2013 504 Series (Varian Trilogy)
Patient Ve SN: 1469 Image #4 Noise/Uniformity
100kV, 20mA, 7350msec, 261.cm, Filter:Ram-Lak, 1.98mm, @ 17.82, Axial

Image #1

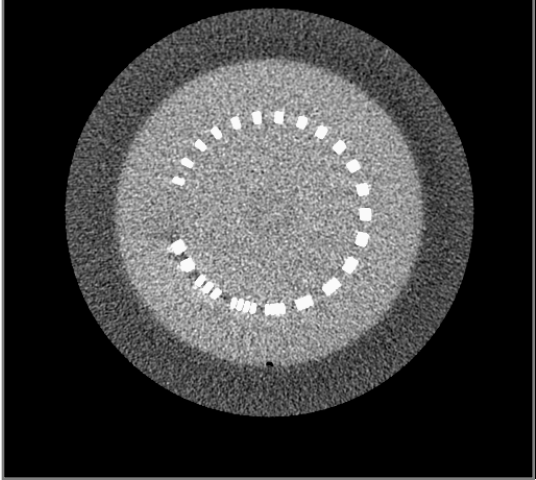


Image #2

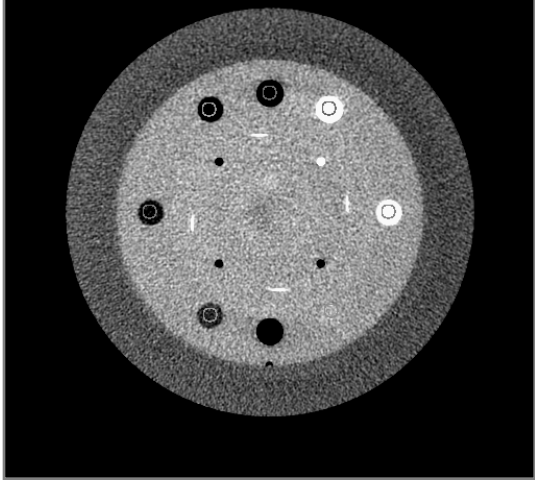


Image #3

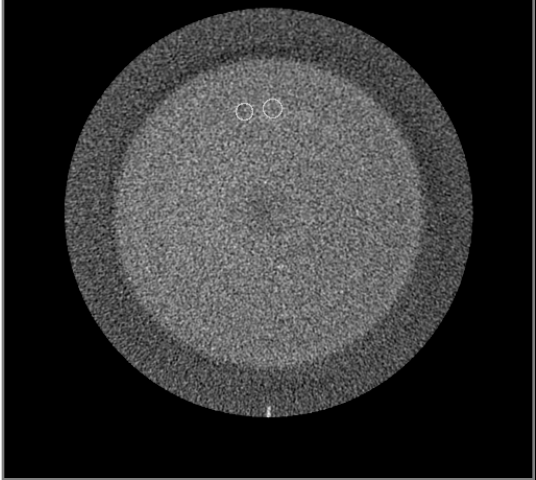


Image #4

