

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	125	80	1327	464	116.82	Ram-La	1.98	Axial	Image 59.dcm
2	125	80	1327	464	85.14	Ram-La	1.98	Axial	Image 43.dcm
3	125	80	1327	464	51.48	Ram-La	1.98	Axial	Image 26.dcm
4	125	80	1327	464	11.88	Ram-La	1.98	Axial	.Image 6.dcm

Test Results

Image #	Test	Status
Im	Verification	Phantom ID: 504 Series (Varian Trilogy) ; Orientation: 1 Phantom Center: 255, 255; CT# of Module Material : 84.37 +/- 7.08 HU
2	CT # Linearity	Contrast Scale: 0.000200 Effective Energy: 60 keV R = 0.998859 Material Teflon Air LDPE Delrin Acrylic Polystyrene PMP CT# 962.0 -998.4 -96.8 364.7 125.8 -39.9 -185.5
3	Low Contrast (Model)	Contrast (%) 2.33 1.75 1.40 1.17 1.00 0.87 0.78 0.70 0.64 0.58 0.54 0.50 0.47 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): 9 Mean CT# over target: 61.47HU Mean CT# over Bkg: 49.44HU Measured Contrast: 12.03HU
4	Noise/Uniformity	CT#(HU) 2.5 +/- 6.9 5.9 +/- 6.5 8.9 +/- 7.3 8.9 +/- 6.2 5.4 +/- 6.4 Diff (HU) ----- 3.3 6.3 6.3 2.9 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) 0.91 0.91 0.91 0.91 0.91 Phantom Rotation : 0.0 degrees Phantom Center is 0.91 mm LEFT OF CENTER and 0.91 mm ABOVE CENTER
2	Slice Thickness	Expected(mm) X-Axis(mm) Y-Axis(mm) 1.98 2.52 , ----- 2.74 , ----- Avg Slice Width: 2.63 mm Ramp Angle (deg): 23.0
1	Spatial Resolution	Bead not located for PSF - Signal Level too Low

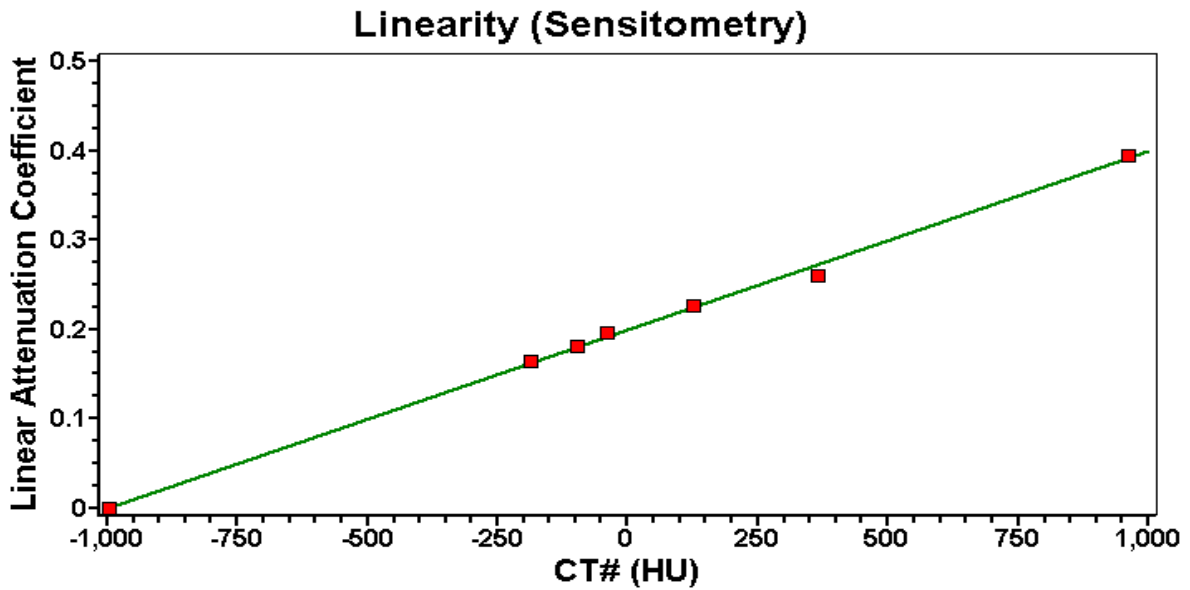
Image #

Test

Status

4	Uniformity	X-Axis Y-Axis Uniformity Index 0.92 0.94 Std Dev (HU): 10.0
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CT Linearity (Sensitometry)

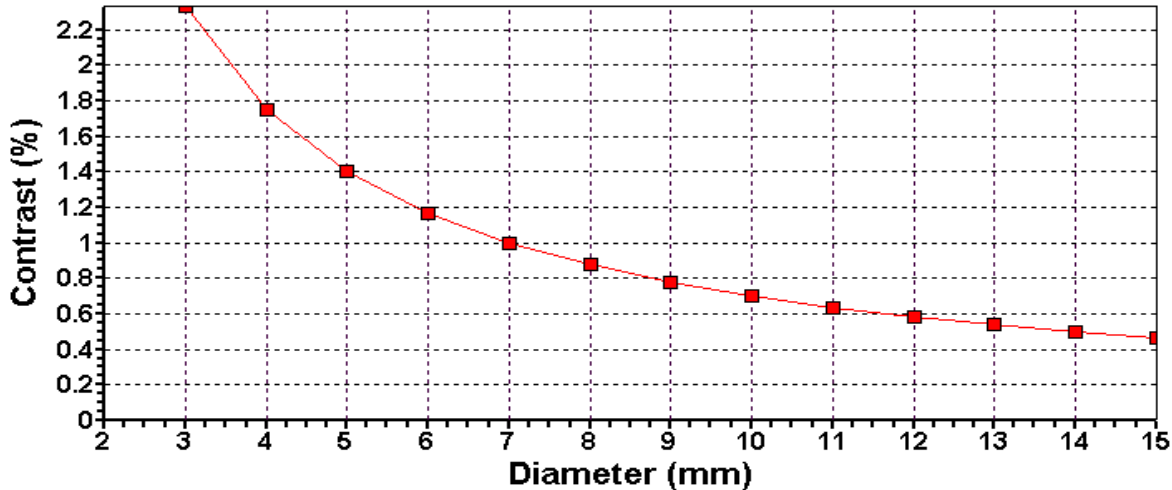


Contrast Scale: 0.000200 Intercept: -1000.1H
Teflon Air LDPE Delrin Acrylic Polystyrene PMP
962.0 -998.4 -96.8 364.7 125.8 -39.9 -185.5

KFJ-IR0 04/17/2013 504 Series (Varian Trilogy)
Patient Ue SN: 1469 Image #2 CT # Linearity
125kV, 80mA, 1327msec, 464.cm, Filter:Ram-Lak, 1.98mm, @ 85.14, Axial

Low Contrast Detectability

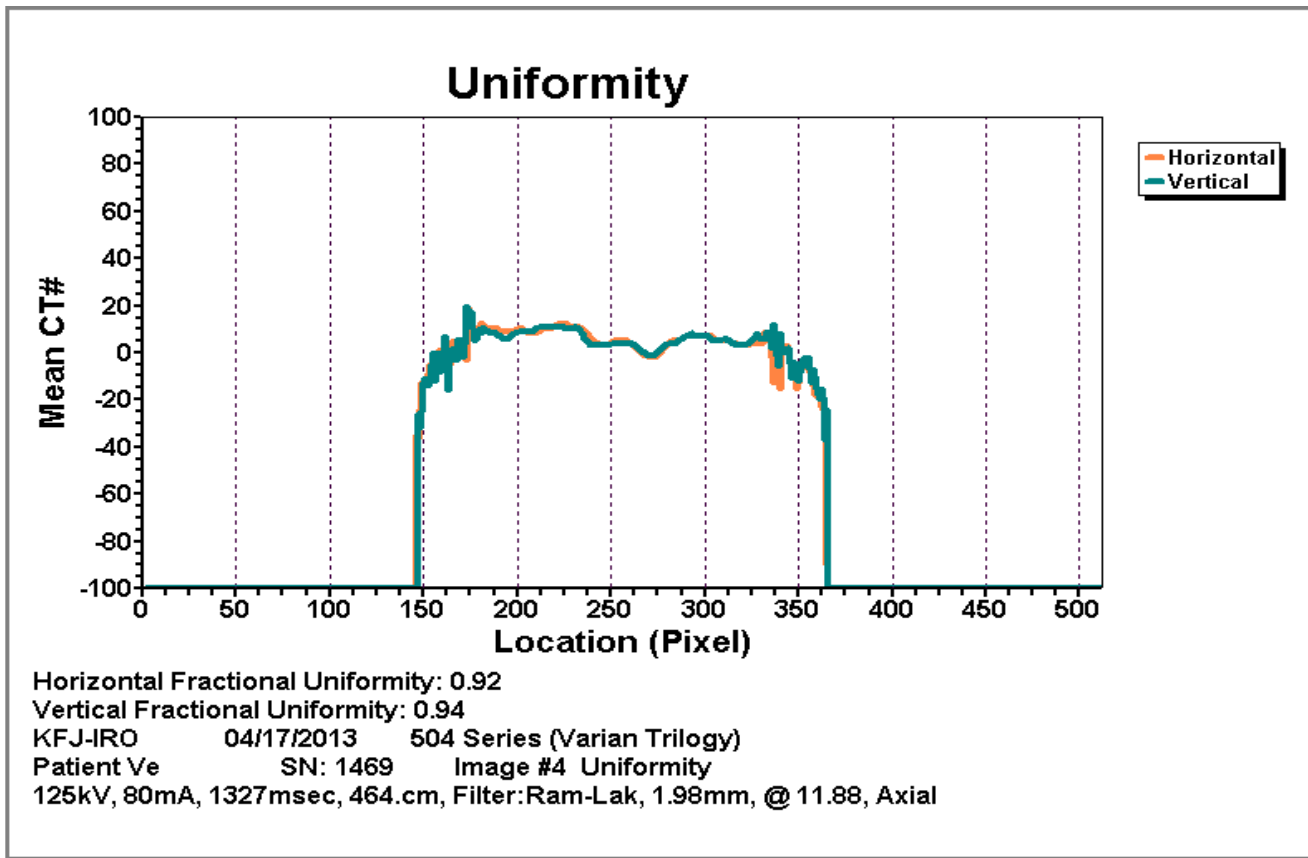
Low Contrast Model



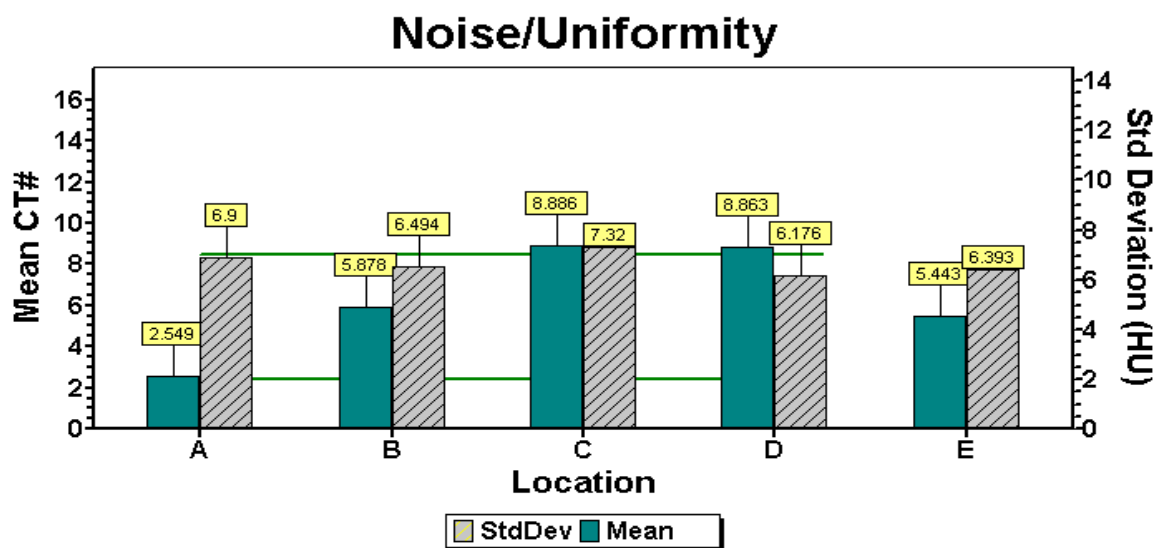
Contrast(%)	2.33	1.75	1.40	1.17	1.00	0.87	0.78	0.70	0.64	0.58	0.54	0.50	0.47
Diameter(mm)	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
Factor:	1.00												

KFJ-IRO 04/17/2013 504 Series (Varian Trilogy)
Patient Ve SN: 1469 Image #3 Low Contrast (Model)
125kV, 80mA, 1327msec, 464.cm, Filter:Ram-Lak, 1.98mm, @ 51.48, 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
125kV, 80mA, 1327msec, 464.cm, Filter:Ram-Lak, 1.98mm, @ 11.88, Axial

Image #1

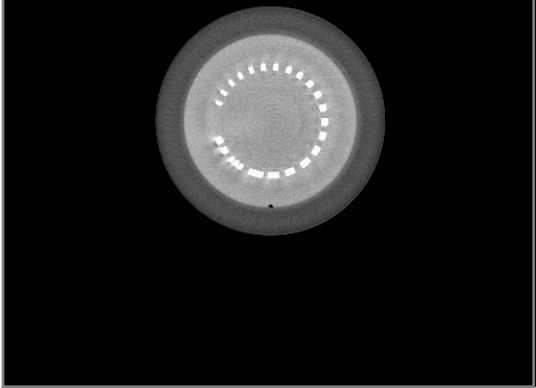


Image #2

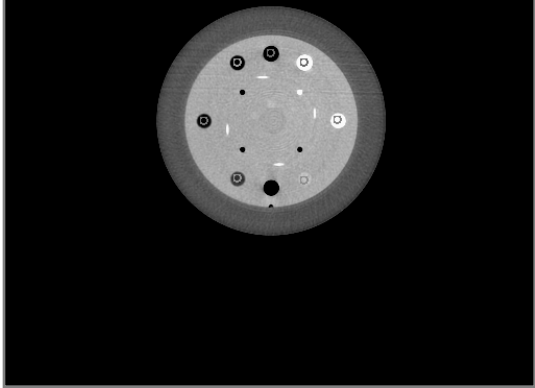


Image #3

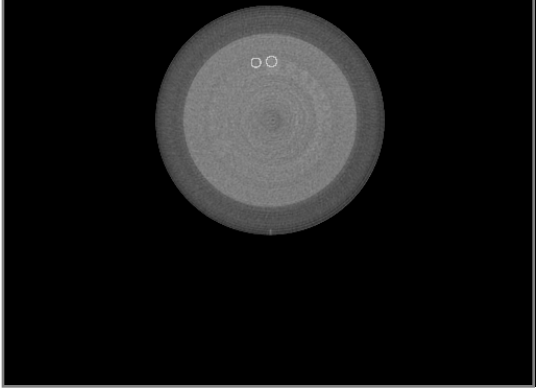


Image #4

