

CATPHAN Materials - 404 Module Report

OVERALL RESULTS



ONE OR MORE TOLERANCE(S) FAILING

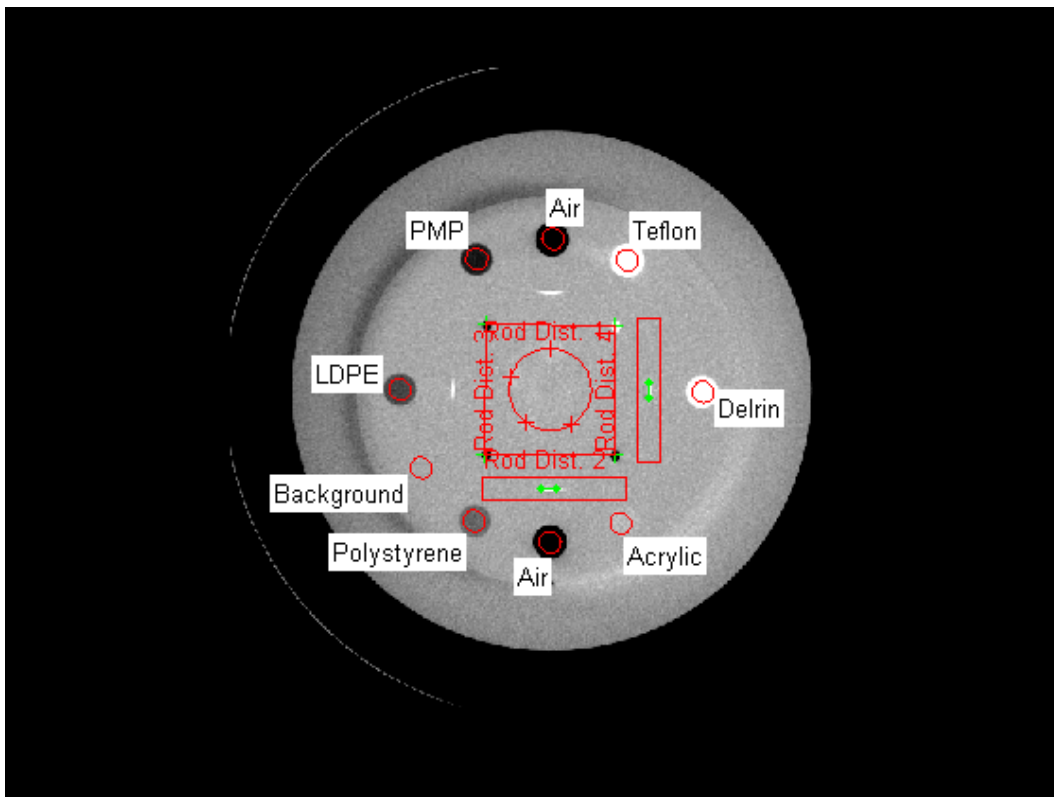


ANALYSIS COMPLETE

Image Information

Filename	C:\RIT\RIT113V4\Demo Images\Radia Demo Images\CATPHAN\CTP404
Institution	
Station	
kVp	
mA	80
Protocol	
Filter	
Convolution Kernel	Ram-Lak
DICOM Slice Thickness(mm)	2.5
SOP Instance UID	1.2.246.352.63.1.4936110926982167530.18181586165378539946
Slice Location	

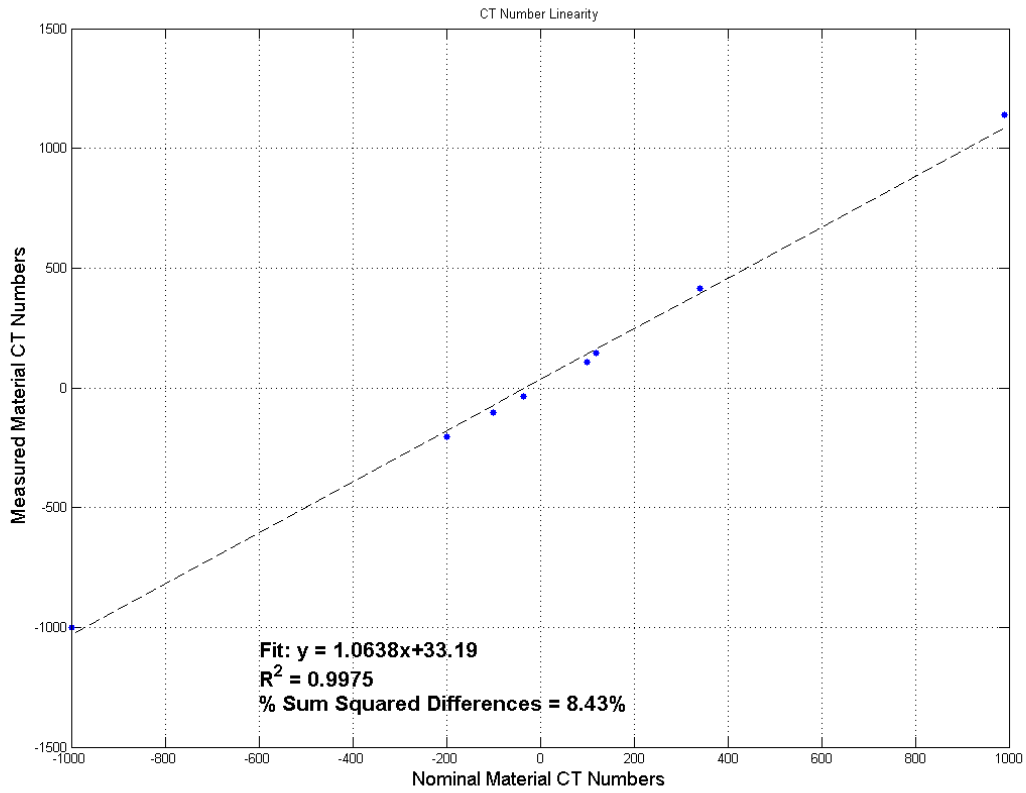
Analysis Image



CT Material Values

Material	Mean(HU)	SD(HU)	Min. (HU)	Target (HU)	Max. (HU)	Pass-Fail
Air	-999.32	0.95	-1030	-1000	-970	Pass
Polystyrene	-35.62	18.90	-45	-35	-25	Pass
Background	107.45	17.69	90	100	110	Pass
LDPE	-102.60	17.55	-110	-100	-90	Pass
PMP	-205.25	16.03	-220	-200	-180	Pass
Air	-999.03	1.19	-1030	-1000	-970	Pass
Teflon	1139.04	20.90	890	990	1090	Fail
Delrin	413.97	19.48	305	340	375	Fail
Acrylic	145.04	21.09	108	120	132	Fail

CT Number Linearity



Slice Width Measurements

Orientation	Measured Slice Width (mm)	Actual Slice Width	Minimum Measured Tolerance (mm)	Maximum Measured Tolerance (mm)	Pass/Fail
Horizontal	2.53	2.5	2	3	Pass
Vertical	2.60	2.5	2	3	Pass

Ramp Alignment

Orientation	Ramp Alignment vs. Center (mm)
Horizontal	0.35
Vertical	0.10

Rod Distances

Rod Distance	Distance (mm)	Pass/Fail (Min. = 48.96 Max. = 51.04)
1	49.88	Pass
2	49.98	Pass
3	50.14	Pass
4	50.09	Pass

Low Contrast Spheres

Number of Detected Low Contrast Spheres	4
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CT Number Linearity

Slope	1.0638
Intercept	+33.19
Correlation Coefficient (R ²)	0.9975
Percent Sum Squared Differences	8.43

Analysis Settings

Slice Threshold	2
Estimated Background CT Number	100
Estimated Air CT Number	-1000
Air Rod Threshold	0.33
Teflon Rod Threshold	0.33