



HPNW
HEALTH PHYSICS NORTHWEST

April 8, 2021

Jarrold Parasmo
President
Protech Medical
1360 North Killian Drive, Suite 2
Lake Park, Florida 33403

Dear Jarrod:

Enclosed are the attenuation and lead equivalency results for the Acrylic Shield (labeled as 0.5 mm lead equivalent) that was submitted to Health Physics Northwest. At your request these tests were performed in accordance with ASTM test Method F2547-18. The documentation on the following page contains all of the information regarding this testing.

If you have any questions, please contact our office.

Sincerely,

Matt Brien, BS
Medical Physicist

Encl.

ASTM test Method F2547-18 14.2.1 Test Information

Date of Testing	April 2, 2021
Place of Testing	Health Physics Northwest
Name of Individual Performing the Testing	Matt Brien, BS Health Physics Northwest
Manufacturer and Model of X-ray Generator	Trex TM50 (G-9750A)
Manufacturer / Model of X-ray Tube	Varex Imaging Corporation / A-192

Testing Parameters

Set kVp	80	100	143
Measured kVp	79.9	100.4	139.8
mAs	80	50	15
Half-Value Layer (mmAl)	4.00	5.25	7.30

All exposure and kVp measurements performed with an Unfors RaySafe X2 R/F sensor, Serial No.: 208238 calibrated March 5, 2021.

ASTM test Method F2547-18 14.2.3 Test Results

	Attenuation		
Sample Designation	80 kVp	100 kVp	140 kVp
Acrylic Shield (labeled as 0.5 mm lead equivalent)	98.4%	96.1%	93.8%

	Lead Equivalency (mm Pb)		
Sample Designation	80 kVp	100 kVp	140 kVp
Acrylic Shield (labeled as 0.5 mm lead equivalent)	0.58	0.58	0.57