## Manufacturer's Recommendations for Alternate Dental CBCT QA Program VaTech: Model PAX i3D, i3D Green, and i3D Smart Table 3A Computed Tomography QC Requirements

T.	Required Test	T.		Standard
Item 1	Equipment Function "Indicators, Mechanical & other Safety Checks	<b>Frequency</b> Daily	PAX-i3D Smart PHT-30LFO Technical Manual Appendix E Pages 7-10	Must work properly
2	Film Processing QC Testing	Daily	None, not applicable	None, not applicable
3	CT Number for Water	Daily	Vatech Imaging and Performance Calibration & Inspection Phantom Kit Manual  CT Number Check Phantom Appendix C Pages 16-17	CT Number Check Phantom         ■ PaX-i3D Smart – A0001319 (End User phantom kit)         ■ PaX-i3D – A0300203 (End User phantom kit)         ■ PaX-i3D Green – A0300204 (End User phantom kit)
4	Field Uniformity	Daily	QA Phantom Kit User Manual Appendix A Pages 16- 21	Subtract the minimum average value from the maximum average value among the 5 ROI's. The difference should be less than 400HU.
5	Laser Film Printer QC	Weekly	None, not applicable	None, not applicable
6	Low Contrast Resolution	Initial & Annually	Vatech Imaging and Performance Calibration & Inspection Phantom Kit Manual  S&C Check Phantom Appendix C Pages 20-21	PE cylinder: Minimum visible size 8.0mm
7	High Contrast Resolution	Initial & Annually	Vatech Imaging and Performance Calibration & Inspection Phantom Kit Manual S&C Check Phantom Appendix C Pages 20-21	Air Hole: Minimum visible1size 1.0mm
8	Noise	Initial & Annually	Vatech Imaging and Performance Calibration & Inspection Phantom Kit Manual Uniformity Phantom Check Appendix C Pages 19-20	Lower Specification Limit 0 Upper Specification Limit 150

			Vatech Imaging and Performance	Eccentricity
9	Scan	Initial &	Calibration & Inspection Phantom	Lower Specification Limit=0.97
	Localization	Annually	Kit Manual	Upper Specification Limit =1.00
	Light Accuracy			
			Geometry Check Phantom	Circle Area Ratio
			Appendix C	Lower Specification Limit=0.80
			Page 24	Upper Specification Limit=1.20
	Medical		Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
10	Physicist's QC	Initial &		
	Survey	Annually		
	Medical		Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
11	Physicist's	Initial &		
	Quality	Annually		
	Assurance			
	Program			
	Review			