

**Manufacturer's Recommendations for Alternate Dental CBCT QA Program
Air Techniques Model: ProVecta 3D Prime & ProVecta 3D Prime Ceph**

Table 3A
Computed Tomography QC Requirements

Item	Required Test or Procedure	Frequency	Substitute Test or Procedure	Standard
1	Equipment Function: Indicators, Mechanical & other Safety Checks	Daily	ProVecta 3D Prime and ProVecta 3D Prime Ceph Operating Instructions Chapter 2 (Safety): Pages: 5 – 8 Chapter 10 (Maintenance): Pages: 54 – 55 (Appendix A)	Must work properly
2	Film Processing QC Testing	Daily	None – Not Applicable	None – Not Applicable
3	CT Number for Water	Daily	Quality Control (QC) manual ProVecta 3D Prime Chapter 2.1 Pages: 3 – 6 (Appendix B)	Test with Hounsfield phantom HU Range: - 200 to +200
4	Field Uniformity	Daily	Quality Control (QC) manual ProVecta 3D Prime Chapter 2.2 Page: 6 (Appendix B)	The maximum mean value must not differ more than 400 HU from the minimum mean value.
5	Laser Film Printer QC	Weekly	None – Not Applicable	None – Not Applicable
6	Low Contrast Resolution	Initial & Annually	Quality Control (QC) manual ProVecta 3D Prime Chapter 2.3 Pages: 7 – 8 (Appendix B)	At least 8mm PE cylinder is visible
7	High Contrast Resolution	Initial & Annually	Quality Control (QC) manual ProVecta 3D Prime Chapter 2.4 Pages: 7 – 8 (Appendix B)	At least 1 mm drilled air hole visible
8	Noise	Initial & Annually	Quality Control (QC) manual ProVecta 3D Prime Chapter 2.6 Page: 12 – 14 (Appendix B)	Consistency test DIN 6868-15 Initial Contrast -Noise value +/- 40% The test is passed when all parameters are displayed in green.
9	Scan Localization Light Accuracy	Initial & Annually	Quality Control (QC) manual ProVecta 3D Prime Chapter 2.7 Page: 15 – 17 (Appendix B)	Evaluated by ServiceTool software automatically. This point is passed when all relevant parameters are outlined green.
10	Medical Physicist's QC Survey	Initial & Annually	See N.J.A.C. 7:28-22.10(a)	N.J.A.C. 7:28-22.10(a)
11	Medical Physicist's Quality Assurance Program Review	Initial & Annually	See N.J.A.C. 7:28-22.10(a)	N.J.A.C. 7:28-22.4(a)7