

**Manufacturer's Recommendations for Alternate Dental CBCT QA Program  
Planmeca: ProMax 3D Max, 3D, 3Ds, and 3D (Mid):  
Table 3A Requirements for Dental CBCT**

<b>Item</b>	<b>Required Test or Procedure</b>	<b>Frequency</b>	<b>Planmeca Substitute Test or Procedure</b>	<b>Standard</b>
1	Equipment Function "Indicators, Mechanical & other Safety Checks	Daily	Device Tool QA DIN6868 (Appendix A)	Must Pass Computerized test and Systems must work properly
2	Film Processing QC Testing	Daily	None, not applicable	None, not applicable
3	CT Number for Water	Daily	CBCT Alternative QA Test (Water Phantom) for Planmeca (Appendix B)	HU Range = -150 to +150
4	Field Uniformity	Daily	Device Tool QA DIN6868 Pages 7, 20; (Appendix A)  DIN Standard 6868-161:2012-3 Section 4.3.7.1, page 14 (Appendix E)	Homogeneity >5
5	Laser Film Printer QC	Weekly	None, not applicable	None, not applicable
6	Low Contrast Resolution	Initial & Annually	QA test to be performed using appropriate Low Contrast phantom. Low contrast test phantom is not supplied by Planmeca.	To be established by Medical Physicist *
7	High Contrast Resolution	Initial & Annually	QA Qualification Testing Procedure Pages 1-3 (Appendix C)	The 10% MTF value (MTF10) should be above 1.00 lp/mm
8	Noise	Initial & Annually	QA Qualification Testing Procedure Pages 1-3 (Appendix C)	Noise values (STD) should be < 500 HU for acryl and aluminum
9	Scan Localization Light Accuracy	Initial & Annually	CBCT Alternative QA Test for Planmeca (Appendix F)	+/- 5 mm
10	Medical Physicist's QC Survey	Initial & Annually	Same as alternate Dental CBCT	NJAC 7:28-22.10
11	Medical Physicist's Quality Assurance Program Review	Initial & Annually	Same as alternate Dental CBCT	NJAC 7:28-22.4(a)7

\*Where no performance standard is identified or expressed by the manufacture, the medical physicist shall establish the standard for the facility's CBCT unit with justification