Manufacturer's Recommendations for Alternate Dental CBCT QA Program
Sordex: Model Scanora 3D (Palodex Group)
Table 6 Requirements for Dental CBCT

Item	Required Test or Procedure	Substitute Test or Procedure	Standard
1	Scan Increment Accuracy	None – Not Applicable	None – Not Applicable
2	Scan Localization Light Accuracy	Installation and Set-up Instructions. Section 5. Quality Assurance. Geometry calibration, Page 62-64 (Appendix F)	The word PASSED should appear on the image. This indicates that the unit has passed the unit geometry calibration test.
3	Patient Dose (Multiple Scan Average Dose) MSAD or Computed Tomography Dose Index-CTDI	User Manual: Section 1.7: About radiation Doses, (Appendix E)	The effective doses are summarized for different imaging protocols in the table in Section 1.7: About radiation Doses, (Appendix E)
4	Pre-Patient Collimation Accuracy	User Manual: Section 6.1: The 3D QA Procedure, Page 48-53 (Appendix A)	The word PASSED should appear on the image. This indicates that the unit has passed the unit geometry calibration test.
5	Contrast Scale	User Manual Section 6.1: The 3D QA Procedure, Quality Check (Appendix A) Page 56 and 57 3D Constancy Check Procedure, Section 1. Automatic 3D QC program (Appendix B)	Pass Scanora QC phantom computerized software test: Minimum PMMA ROI value: -95 Minimum PTFE ROI value: 400 Maximum AIR ROI value: -500 The test result and acceptance limit is displayed by the device.
6	CT Number for Water	User Manual Section 6.1: The 3D QA Procedure, Quality Check (Appendix A) Page 56 and 57 3D Constancy Check Procedure, Section 1. Automatic 3D QC program (Appendix B)	Pass Scanora QC phantom computerized software test: The test result and acceptance limit is displayed by the device. Minimum PMMA ROI: - 95
7	Slice Thickness	None- Not Applicable	None- Not Applicable
8	Field Uniformity	User Manual Section 6.1: The 3D QA Procedure, Page 56 and 57 (Appendix A) 3D Constancy Check Procedure, Section 1. Automatic 3D QC program (Appendix B)	Pass Scanora QC phantom computerized software test: Uniformity Maximum Value: 200 The test result and acceptance limit is displayed by the device.
9	Low Contrast Resolution	3D Constancy Check Procedure, Section 1. Automatic 3D QC program: Grey value / low contrast resolution measurement (Appendix B)	The automatic 3D QC test result is displayed by the device. Grey values are measured from the volume for PMMA, PTFE and Air. Minimum PMMA ROI value: -95 Minimum PTFE ROI value: 400 Maximum AIR ROI value: -500

10	High Contrast Resolution	3D Constancy Check Procedure Section 3: High contrast spatial resolution (Appendix B)	Constancy test phantom Visually identifiable spatial resolution must be at least 1LP/mm
11	Noise	User Manual Section 6.1: The 3D QA Procedure, Quality Check, Page 56 and 57 (Appendix A) 3D Constancy Check Procedure, Section 1. Automatic 3D QC program (Appendix B)	Pass Scanora QC phantom computerized software test: Maximum PMMA Std. Dev.: 65 Maximum PTFE Std. Dev.: 120 Maximum AIR Std. Dev.: 25 The test result and acceptance limit is displayed by the device.
12	Scan Protocol Review	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
13	Review of Facility and Technologists QC Tests	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)
14	Physicist Report and Recommendations	Same as NJAC 22.10(a)	Same as NJAC 22.10(a)