

3. Image Quality Specification

(1) Spatial resolution (high-resolution evaluation mode) 107.7mGy(CTDIvol)

0.35mm

[Measurement condition]

5mm(5mm×1i), 2s/rot, 120kV, 265mA, Small focus, F60H, FOV50mm

Standard Bow-tie, Normal Scan

HHBU performance phantom spatial resolution section

Head exam condition

(2) Spatial resolution (Standard evaluation mode) 107.7mGy(CTDIvol)

0.60mm

[Measurement condition]

5mm(5mm×1i), 2s/rot, 120kV, 265mA, Small focus, F14, FOV50mm

Standard Bow-tie, Normal Scan

HHBU performance phantom spatial resolution section

Head exam condition

(3) MTF (High-resolution evaluation mode) 113.7mGy(CTDIvol)

17.2lp/cm (0%MTF) (Reference Value)

16.2lp/cm (2%MTF)

14.7lp/cm (10%MTF)

12.2lp/cm (50%MTF)

[Measurement condition]

10mm (10mm×1i), 2s/rot, 120kV, 275mA, Small focus, F60H, FOV50mm

Standard Bow-tie, Normal Scan

HHBU QA Phantom Spatial Resolution Section

Head exam condition

(4) MTF (Head Standard evaluation mode) MTF 62.0mGy(CTDIvol)

11.3lp/cm (0%MTF) (Reference Value)

7.6lp/cm (2%MTF)

6.0lp/cm (10%MTF)

3.5lp/cm (50%MTF)

[Measurement condition]

10mm (10mm×1i), 1s/rot, 120kV, 300mA, Large focus, F12, FOV50mm

Standard Bow-tie, Normal Scan

HHBU QA Phantom Spatial Resolution Section

Head exam condition