Agatha

Digital Breast Tomosynthesis Phantom

Agatha phantom is used for constancy testing of image quality of digital breast tomosynthesis systems.

Agatha features & tests:

• 45mm thick slab of PMMA (160mm x 220mm)
• Features for testing missing tissue from chest wall (30% fatty / 70% glandular tissue)
• 4 nylon wires for testing Line Object Spread Function (LOSF).
• Perpendicular nylon wire for testing Signal-Difference-to-Noise-Ratio (SDNR).
• Tilted Tungsten wire for z-direction sensitivity profiles (ZSP)
• 3 spherical inserts for testing:
  - 3D MTF (3 and 5mm dia. 30% fatty / 70% glandular tissue material)
  - System geometry
  - Tomographic motion
  - Reconstruction effects on SDNR and ASF (0.5mm dia. Al sphere)

Agatha includes:

• Phantom with positioning aid
• Hard protective case

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fig.1 Agatha detail layout
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