Radia Therapy provides fast, robust, and accurate analysis of all imaging tests recommended in TG-142. Easily automate imaging QC for your linac and get quantitative, repeatable analysis for all tests. Full reports of all imaging tests are easily generated, and results can be tracked and trended.

### CATPHAN®/OBI, kV/MV & CONE BEAM

**Varian 504 & 604 Catphan®**
- Measures and plots material values, MTF, and CT number linearity; Measures slice width, ramp alignment, rod distances, low contrast detectability, uniformity, and integral non-uniformity; Plots integral non-uniformity profile and contrast-to-noise; Scores low contrast objects.

**Elekta 503 Catphan®**
- Measures uniformity, resolution, sagittal geometry, contrast, low contrast visibility, and horizontal and vertical scaling.

**Catphan® 500/600 Series**
- Measures and plots material values, MTF, and CT number linearity; Measures slice width, ramp alignment, rod distances, low contrast detectability, uniformity, and integral non-uniformity; Plots integral non-uniformity profile and contrast-to-noise; Scores low contrast objects.

**Siemens Image Quality Phantom**
- Performs geometrical measurements, central area mean and standard deviation, uniformity measurements, measurements and plots of MTF, and low contrast target scoring.

### EPIQC

**Cheese Phantom**
- Analyzes 20 density areas for mean material value; Computes standard deviation, noise, uniformity and contrast-to-noise ratio of each material; Performs a resolution test on the resolution plug(s). All of these are to comply with TG-148 sections: VI.B.2.a, b, c, and d.

**CIRS 062 + 062A (Cone Beam)**
- Measures and plots 17 density areas.

**Gammex 467**
- Measures and plots 17 density areas; Geometric measurement in X and Y direction.

### EPID QC

**RIT EPID**
- Las Vegas
- Standard Imaging QC-3
- PTW EPID

**DR/CR kV**
- Leeds TOR-18
- PTW NORM®-4
- IBA Primus® L
- DISC Plus
- Standard Imaging QCkV-1

### BASE MODULES

**kV/MV**
- ISOCube™ Phantom
- kV/MV/CBCT image coincidence, measures radiation / light field alignment for kV and MV, CBCT coincidence, 6 degree-of-freedom couch test. ISOCube™ is a trademark of IMT, Inc.

**Penta-Guide Phantom**
- kV/MV/CBCT image coincidence

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**RIT trend™**
- Features: All measurements can be tracked, trended, and plotted over time with this statistical process control database.

**Features:**
- DICOM Image Viewer, DICOM Tag Viewer, DICOM Directory Browser, Open Directory Browser, DICOM file filter for organizing images

**Features:**
- SMPTE pattern and TG18 images

**Output Formats**
- Features: Print, PDF, Excel (with custom templates), XML

**Manual Measurements**
- Features: Distance, angle, profile, histograms, round and square ROI, and ASCII output of profiles

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**Connect with RIT**
- @RIT4QA
- LinkedIn

**THE RIT FAMILY OF PRODUCTS:**
- MEDICAL PHYSICS’ LEADING QA SOFTWARE FOR OVER 27 YEARS
Radia Diagnostic provides automated phantom analysis in seconds. The simple, easy-to-use tools provide complete scoring of all phantom parameters, with precision and accuracy. With its automated trending features, you can toss the pencils, manual logs, spreadsheets and binders, and cut your record keeping time down to zero.

**CT/CBCT**

**Catphan® 500/600 Series**
Tests: Alignment, CNR, CT number linearity, geometric accuracy, HU constancy, low contrast, noise, MTF, spatial resolution, slice thickness, uniformity

**GE CT QA**
Tests: Contrast, laser accuracy, noise, resolution, slice thickness, uniformity

**ACR CT**
Tests: Contrast statistics, CT material accuracy, CT uniformity, geometric accuracy, low contrast detection, MTF, slice thickness, spatial resolution

**Leeds Sedentex Dental CBCT**
Tests: Artifacts, contrast, geometric distortion, resolution, uniformity

**MRI**

**ACR MRI**
Tests: Geometric and slice position accuracy, ghosting, low contrast detectability, resolution, uniformity

**ACR Small MRI Analysis**
(Extremity & Breast)
Tests: Geometric and slice position accuracy, ghosting, low contrast detectability, resolution, uniformity

**Leeds MagIQ**
Tests: Contrast, geometric distortion, resolution, slice thickness, uniformity and noise

**DR/CR kV**

**IBA Primus® L, Leeds TOR-18 FG, PTW NORM®-4 FLU, DISC Plus**
Tests: All phantom parameters, including contrast step wedge, geometric accuracy, low contrast detection, MTF, noise, uniformity

**CT WATER**

**Universal CT Water Phantom**
Tests: Uniformity

**FFDM**

**ACR FFDM**
Tests: CNR, fibers, insert size, masses, SNR, specks

**BASE MODULES**

**RunQueueC**
Features: Batch processing of images

**RIT trend™**
Features: All measurements can be tracked, trended, and plotted over time with this statistical process control database.

**Monitor Image Quality**
Features: SMPTE pattern and TG18 images

**Cerberus**
Features: Automatically monitor folders and pinpoint specific files to process and analyze, matching any set criteria.

**RIT Mirror**
Features: Anonymously compare your results with other centers around the world.