

Epiqa RapidArc Commissioning Tests

- for 1469 , energy 6 MV, equipped with Millennium 120 HD MLC

Pre-requisite tests:

Test 0.1: dMLC Dosimetry

Acquisition date: 2015/02/03

| Image name | Gantry angle [deg] | Deviation from ref value [%] |
|-------------------------------|--------------------|------------------------------|
| RI.zz-RAC_6FFF.MV_0_0a.dcm | 0 | 0.123 |
| RI.zz-RAC_6FFF.MV_180E_0a.dcm | 179 | -0.008 |
| RI.zz-RAC_6FFF.MV_270_0a.dcm | 269 | -0.280 |
| RI.zz-RAC_6FFF.MV_90_0a.dcm | 90 | 0.166 |

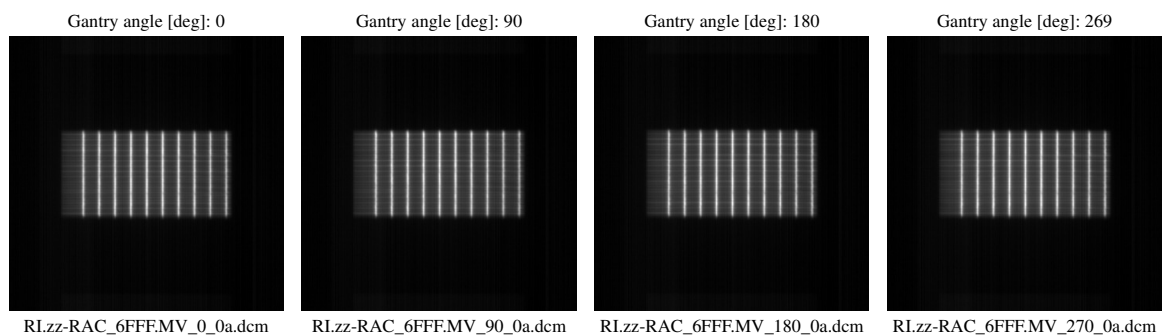
Reference average value: 10.808 ± 0.022

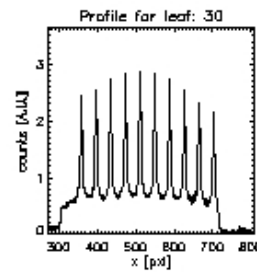
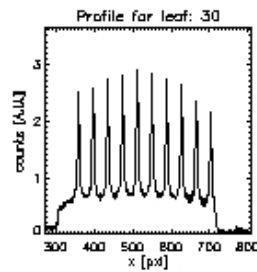
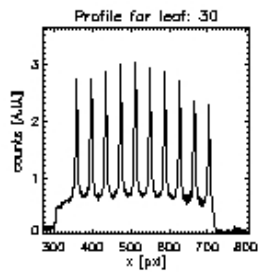
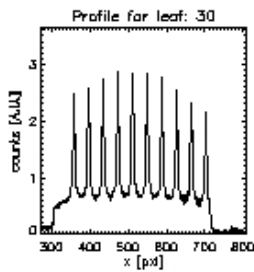
Test results are: Acceptable
 Not acceptable

Comment:

Test 0.2: Picket Fence test vs. gantry angle

Acquisition date: 2015/02/03





Test results are:

Excellent

Good

Acceptable

Below acceptability

Not acceptable

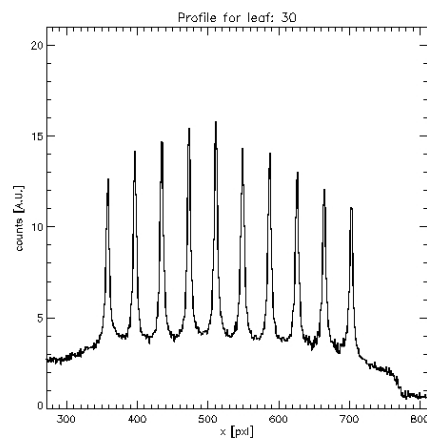
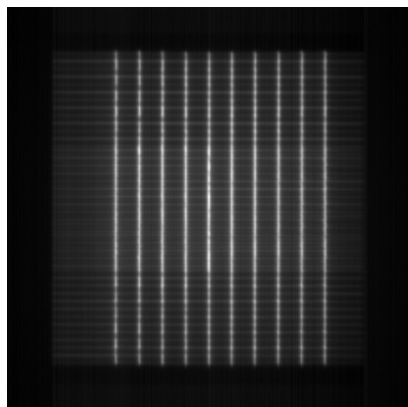
Comment:

RapidArc commissioning tests:

Test 1.1: Picket Fence test during RapidArc

Acquisition date: 2015/02/03

Image name: RI.zz-RAC_6FFF.MV_187_0a.dcm



Test results are:

Excellent

Good

Acceptable

Below acceptability

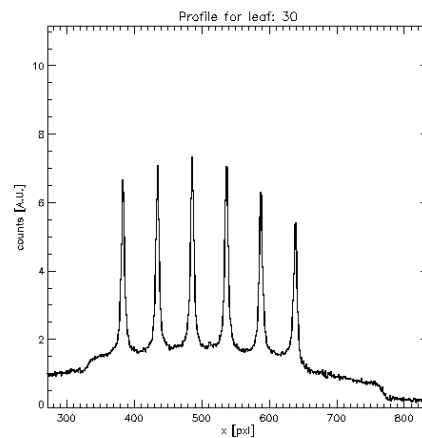
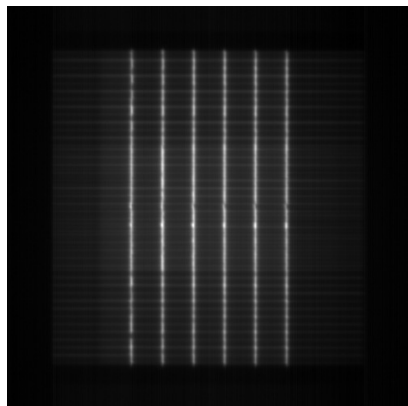
Not acceptable

Comment:

Test 1.2: Picket Fence test during RapidArc with intentional errors

Acquisition date: 2015/02/03

Image name: RI.zz-RAC_6FFF.MV_62_0a.dcm



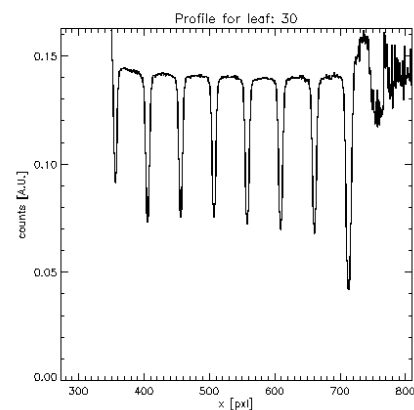
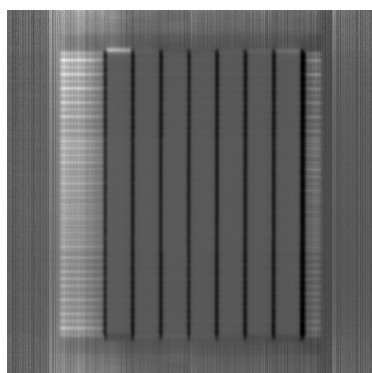
Test results are: Detectable
 Partially detectable
 Not detectable

Comment:

Test 2: Accurate control of Dose Rate and Gantry Speed during RapidArc delivery

Acquisition date: 2015/02/03

Image name: RI.zz-RAC_6FFF.MV_243_0a.dcm



ROI number

1

Deviation from ref value [%]

1.54

| | |
|---|-------|
| 2 | 0.36 |
| 3 | 0.19 |
| 4 | -0.35 |
| 5 | -0.66 |
| 6 | -0.62 |
| 7 | -0.46 |

Reference average value: 0.1416 ± 0.0011

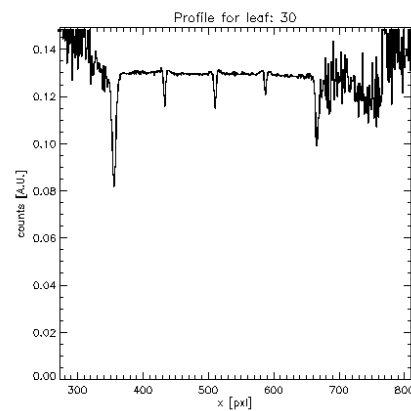
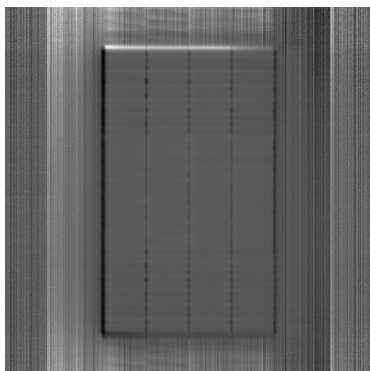
Test results are: Acceptable
 Not acceptable

Comment:

Test 3: Accurate control of Leaf Speed during RapidArc delivery

Acquisition date: 2015/02/03

Image name: RI.zz-RAC_6FFF.MV_32_0a.dcm



ROI number

Deviation from ref value [%]

| | |
|---|-------|
| 1 | 0.39 |
| 2 | 0.23 |
| 3 | 0.07 |
| 4 | -0.69 |

Reference average value: 0.1301 ± 0.0006

Test results are: Acceptable
 Not acceptable

Comment:

Report comment: Test 1.1: mittlerer Gap etwas breiter als gewöhnlich?

Notes: _____

Date: _____

Physicist: _____