

Daily and Weekly QA Testing on CT Scanners

Phantom Scan Parameters

Scan Factors:

**Water CT #, Noise (Standard Dev.),
Artifacts**

Daily QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 1 - Helical Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	S60 – S95	S60 – S95	S60 – S95	S60 – S95	S60 – S95	S60 – S95
Scan Type	Helical	Helical	Helical	Helical	Helical	Helical
Detector Coverage (mm)	20	20	40	40	40	20
Beam Collimation (mm)	20	20	40	40	40	20
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	64 x 0.625	64 x 0.625	64 x 0.625	16 x 1.25
Scan FOV	Small	Small	Small Body	Small Body	Small Body	Small
Pitch	0.938	0.938	0.516	0.516	0.516	0.938
Speed (mm/rot)	18.75	18.75	20.62	20.62	20.62	16 x 1.25
Rotation Time (sec)	0.8	0.6	0.5	0.4	0.4	0.6
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	380	405	270	365	335	405
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Interval (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Recon 1:						
DFOV	22.7	22.7	22.7	22.7	22.7	22.7
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None

Scan Factors:

Artifacts

Daily QA

Daily QA				Artifacts		
Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 2 - Axial Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	S70 – S85	S70 – S85	S60 – S95	S60 – S95	S60 – S95	S70 – S85
Scan Type	Axial	Axial	Axial	Axial	Axial	Axial
Detector Coverage (mm)	20	20	40	40	40	20
Beam Collimation (mm)						
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	32 x 0.625	32 x 0.625	32 x 0.625	16 x 1.25
Scan FOV	Small	Small	Small Body	Small Body	Small Body	Small
Rotation Time (sec)	0.5	0.5	0.5	0.5	0.5	0.5
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	440	440	440	440	440	440
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0 / 4i	5.0 / 4i	5.0 / 8i	5.0 / 8i	5.0 / 8i	5.0 / 4i
Interval (mm)	0	0	0	0	0	0
Recon 1:						
DFOV	22.7	22.7	22.7	22.7	22.7	22.7
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Recon 2:						
Scan Range	S68.75 – S86.25	S68.75 – S86.25	S58.70 – S96.25	S58.70 – S96.25	S58.70 – S96.25	S68.75 – S86.25
DFOV	22.7	22.7	22.7	22.7	22.7	22.7
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Slice Thickness (mm)	2.5 x 8i	2.5 x 8i	2.5 x 16i	2.5 x 16i	2.5 x 16i	2.5 x 8i
Interval (mm)	0	0	0	0	0	0

After repositioning the phantom vertically as high in the gantry as the scanner will allow:

Scan Factors:

Artifacts (off center)

Daily QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 4 - Helical Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	S60 – S95	S60 – S95	S60 – S95	S60 – S95	S60 – S95	S60 – S95
Scan Type	Helical	Helical	Helical	Helical	Helical	Helical
Detector Coverage (mm)	20	20	40	40	40	20
Beam Collimation (mm)	20	20	40	40	40	20
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	64 x 0.625	64 x 0.625	64 x 0.625	16 x 1.25
Scan FOV	Large	Large	Large Body	Large Body	Large Body	Large
Pitch	0.938	0.938	0.516	0.516	0.516	0.938
Speed (mm/rot)	18.75	18.75	20.62	20.62	20.62	16 x 1.25
Rotation Time (sec)	0.8	0.6	0.5	0.4	0.4	0.6
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	380	405	270	365	335	405
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Interval (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Recon 1:						
DFOV	50.0	50.0	50.0	50.0	50.0	50.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None

Scan Factors:

Artifacts (off center)

Daily QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 5 - Axial Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	S70 – S85	S70 – S85	S60 – S95	S60 – S95	S60 – S95	S70 – S85
Scan Type	Axial	Axial	Axial	Axial	Axial	Axial
Detector Coverage (mm)	20	20	40	40	40	20
Beam Collimation (mm)						
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	32 x 0.625	32 x 0.625	32 x 0.625	16 x 1.25
Scan FOV	Large	Large	Large Body	Large Body	Large Body	Large
Rotation Time (sec)	0.5	0.5	0.5	0.5	0.5	0.5
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	440	440	440	440	440	440
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0 / 4i	5.0 / 4i	5.0 / 8i	5.0 / 8i	5.0 / 8i	5.0 / 4i
Interval (mm)	0	0	0	0	0	0
Recon 1:						
DFOV	50.0	50.0	50.0	50.0	50.0	50.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Recon 2:						
Scan Range	S68.75 – S86.25	S68.75 – S86.25	S58.70 – S96.25	S58.70 – S96.25	S58.70 – S96.25	S68.75 – S86.25
DFOV	50.0	50.0	50.0	50.0	50.0	50.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Slice Thickness (mm)	2.5 x 8i	2.5 x 8i	2.5 x 16i	2.5 x 16i	2.5 x 16i	2.5 x 8i
Interval (mm)	0	0	0	0	0	0

Scan Factors:

**Water CT #, Noise (Standard Dev.),
Artifacts;
Low Contrast Detectability (if Done)**

Weekly QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 1 - Helical Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	S60 – S95	S60 – S95	S60 – S95	S60 – S95	S60 – S95	S60 – S95
Scan Type	Helical	Helical	Helical	Helical	Helical	Helical
Detector Coverage (mm) Beam Collimation (mm)	20	20	40	40	40	20
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	64 x 0.625	64 x 0.625	64 x 0.625	16 x 1.25
Scan FOV	Small	Small	Small Body	Small Body	Small Body	Small
Pitch	0.938	0.938	0.516	0.516	0.516	0.938
Speed (mm/rot)	18.75	18.75	20.62	20.62	20.62	18.75
Rotation Time (sec)	0.8	0.6	0.5	0.4	0.4	0.6
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	380	405	270	365	335	405
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Interval (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Recon 1:						
DFOV	22.7	22.7	22.7	22.7	22.7	22.7
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None

Scan Factors:

Artifacts

Weekly QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 2 - Axial Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	S70 – S85	S70 – S85	S60 – S95	S60 – S95	S60 – S95	S70 – S85
Scan Type	Axial	Axial	Axial	Axial	Axial	Axial
Detector Coverage (mm)	20	20	40	40	40	20
Beam Collimation (mm)						
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	32 x 0.625	32 x 0.625	32 x 0.625	16 x 1.25
Scan FOV	Small	Small	Small Body	Small Body	Small Body	Small
Rotation Time (sec)	0.5	0.5	0.5	0.5	0.5	0.5
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	440	440	440	440	440	440
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0 / 4i	5.0 / 4i	5.0 / 8i	5.0 / 8i	5.0 / 8i	5.0 / 4i
Interval (mm)	0	0	0	0	0	0
Recon 1:						
DFOV	22.7	22.7	22.7	22.7	22.7	22.7
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Recon 2:						
Scan Range	S68.75 – S86.25	S68.75 – S86.25	S58.70 – S96.25	S58.70 – S96.25	S58.70 – S96.25	S68.75 – S86.25
DFOV	22.7	22.7	22.7	22.7	22.7	22.7
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Slice Thickness (mm)	2.5 x 8i	2.5 x 8i	2.5 x 16i	2.5 x 16i	2.5 x 16i	2.5 x 8i
Interval (mm)	0	0	0	0	0	0

Scan Factors:

**Contrast Scale;
High Contrast Resolution**

Weekly QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 4 - Helical Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	I15 – S20	I15 – S20	I15 – S20	I15 – S20	I15 – S20	I15 – S20
Scan Type	Helical	Helical	Helical	Helical	Helical	Helical
Detector Coverage (mm)	20	20	40	40	40	20
Beam Collimation (mm)						
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	64 x 0.625	64 x 0.625	64 x 0.625	16 x 1.25
Scan FOV	Small	Small	Small Body	Small Body	Small Body	Small
Pitch	0.562	0.562	0.516	0.516	0.516	0.562
Speed (mm/rot)	11.25	11.25	20.62	20.62	20.62	11.25
Rotation Time (sec)	1.0	1.0	1.0	1.0	1.0	1.0
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	550	440	440	440	440	440
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Interval (mm)	5.0	5.0	5.0	5.0	5.0	5.0
<i>Recon 1:</i>						
DFOV	20.0	20.0	20.0	20.0	20.0	20.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	250/60	250/60	250/60	250/60	250/60	250/60
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
<i>Recon 2:</i>						
DFOV	12.0	12.0	12.0	12.0	12.0	12.0
Recon Type	Edge	Edge	Edge	Edge	Edge	Edge
WW/ WL	250/60	250/60	250/60	250/60	250/60	250/60
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Slice Thickness (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Interval (mm)	5.0	5.0	5.0	5.0	5.0	5.0

Scan Factors:

**Slice Thickness;
Alignment Light Accuracy**

Weekly QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 6 - Axial Scan - Group 1						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	I5 – S10	I5 – S10	I5 – S10	I5 – S10	I5 – S10	I5 – S10
Scan Type	Axial	Axial	Axial	Axial	Axial	Axial
Detector Coverage (mm) Beam Collimation (mm)	20	20	20	20	20	20
Detector Rows	16	16	32	32	32	16
Detector Configuration	16 x 1.25	16 x 1.25	32 x 0.625	32 x 0.625	32 x 0.625	16 x 1.25
Scan FOV	Small	Small	Small Body	Small Body	Small Body	Small
Rotation Time (sec)	1.0	1.0	1.0	1.0	1.0	1.0
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	325	260	260	260	260	260
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0 / 4i	5.0 / 4i	5.0 / 4i	5.0 / 4i	5.0 / 4i	5.0 / 4i
Interval (mm)	0	0	0	0	0	0
Recon 1:						
DFOV	25.0	25.0	25.0	25.0	25.0	25.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/WL	200/60	200/60	200/60	200/60	200/60	200/60
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None

Scan Factors:

**Slice Thickness;
Alignment Light Accuracy**

Weekly QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 7 - Axial Scan - Group 2						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	I2.5 – S5	I2.5 – S5	I2.5 – S5	I2.5 – S5	I2.5 – S5	I2.5 – S5
Scan Type	Axial	Axial	Axial	Axial	Axial	Axial
Detector Coverage (mm)	10	10	10	10	10	10
Beam Collimation (mm)						
Detector Rows	16	16	16	16	16	16
Detector Configuration	8 x 1.25	8 x 1.25	16 x 0.625	16 x 0.625	16 x 0.625	8 x 1.25
Scan FOV	Small	Small	Small Body	Small Body	Small Body	Small
Rotation Time (sec)	1.0	1.0	1.0	1.0	1.0	1.0
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	325	260	260	260	260	260
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	2.5 / 4i	2.5 / 4i	2.5 / 4i	2.5 / 4i	2.5 / 4i	2.5 / 4i
Interval (mm)	0	0	0	0	0	0
<i>Recon 1:</i>						
DFOV	25.0	25.0	25.0	25.0	25.0	25.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	400/-40	400/-40	400/-40	400/-40	400/-40	400/-40
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
<i>Recon 2:</i>						
Scan Range	I3.125 – S5.625	I3.125 – S5.625	I3.125 – S5.625	I3.125 – S5.625	I3.125 – S5.625	I3.125 – S5.625
DFOV	25.0	25.0	25.0	25.0	25.0	25.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	800/-140	800/-140	800/-140	800/-140	800/-140	800/-140
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Slice Thickness (mm)	1.25 x 8i	1.25 x 8i	1.25 x 8i	1.25 x 8i	1.25 x 8i	1.25 x 8i
Interval (mm)	0	0	0	0	0	0

After repositioning the phantom vertically as high in the gantry as the scanner will allow:

Scan Factors:

Artifacts (off center)

Weekly QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 8 or 9 - Helical Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	S60 – S95	S60 – S95	S60 – S95	S60 – S95	S60 – S95	S60 – S95
Scan Type	Helical	Helical	Helical	Helical	Helical	Helical
Detector Coverage (mm) Beam Collimation (mm)	20	20	40	40	40	20
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	64 x 0.625	64 x 0.625	64 x 0.625	16 x 1.25
Scan FOV	Large	Large	Large Body	Large Body	Large Body	Large
Pitch	0.938	0.938	0.516	0.516	0.516	0.938
Speed (mm/rot)	18.75	18.75	20.62	20.62	20.62	16 x 1.25
Rotation Time (sec)	0.8	0.6	0.5	0.4	0.4	0.6
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	380	405	270	365	335	405
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0	5.0	5.0	5.0	5.0	5.0
Interval (mm)	5.0	5.0	5.0	5.0	5.0	5.0
<i>Recon 1:</i>						
DFOV	50.0	50.0	50.0	50.0	50.0	50.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None

Scan Factors:

Artifacts (off center)

Weekly QA

Scanner	Opt CT580W	LS 16	Opt CT660	Disc CT750HD	LS VCT 64	GE LS 16 Pro
Series 9 or 10 - Axial Scan						
Entry	Head First	Head First	Head First	Head First	Head First	Head First
Position	Supine	Supine	Supine	Supine	Supine	Supine
Scan Range	S70 – S85	S70 – S85	S60 – S95	S60 – S95	S60 – S95	S70 – S85
Scan Type	Axial	Axial	Axial	Axial	Axial	Axial
Detector Coverage (mm)	20	20	40	40	40	20
Beam Collimation (mm)						
Detector Rows	16	16	64	64	64	16
Detector Configuration	16 x 1.25	16 x 1.25	32 x 0.625	32 x 0.625	32 x 0.625	16 x 1.25
Scan FOV	Large	Large	Large Body	Large Body	Large Body	Large
Rotation Time (sec)	0.5	0.5	0.5	0.5	0.5	0.5
kV	120	120	120	120	120	120
Smart/Auto mA or Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA	Manual mA
Manual mA	440	440	440	440	440	440
% Dose Reduction(ASiR)	None	None	None	None	None	None
Slice Thickness (mm)	5.0 / 4i	5.0 / 4i	5.0 / 8i	5.0 / 8i	5.0 / 8i	5.0 / 4i
Interval (mm)	0	0	0	0	0	0
Recon 1:						
DFOV	50.0	50.0	50.0	50.0	50.0	50.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Recon 2:						
Scan Range	S68.75 – S86.25	S68.75 – S86.25	S58.70 – S96.25	S58.70 – S96.25	S58.70 – S96.25	S68.75 – S86.25
DFOV	50.0	50.0	50.0	50.0	50.0	50.0
Recon Type	Standard	Standard	Standard	Standard	Standard	Standard
WW/ WL	60/0	60/0	60/0	60/0	60/0	60/0
Recon Option	Full	Full	Full	Full	Full	Full
ASiR Setup	None	None	None	None	None	None
Slice Thickness (mm)	2.5 x 8i	2.5 x 8i	2.5 x 16i	2.5 x 16i	2.5 x 16i	2.5 x 8i
Interval (mm)	0	0	0	0	0	0

Scan Factors: (8 Slice)**Water CT #, Noise (Standard Dev.),
Artifacts****Daily QA**

	East
Scanner	LS 8 Slice

Series 1 - Helical Scan

Entry	Head First
Position	Supine
Scan Range	S60 – S95
Scan Type	Helical
Detector Coverage (mm)	20
Beam Collimation (mm)	
Detector Rows	8
Detector Configuration	8 x 2.5
Scan FOV	Small
Pitch	0.875
Speed (mm/rot)	17.5
Rotation Time (sec)	0.6
kV	120
Smart/Auto mA or Manual mA	Manual mA
Manual mA	380
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0
Interval (mm)	5.0
<i>Recon 1:</i>	
DFOV	22.7
Recon Type	Standard
WW/WL	60/0
Recon Option	Full
ASiR Setup	None

Scan Factors: (8 Slice)**Artifacts****Daily QA**

Scanner

LS 8 Slice

Series 2 - Axial Scan

Entry	Head First
Position	Supine
Scan Range	S70 – S85
Scan Type	Axial
Detector Coverage (mm)	20
Beam Collimation (mm)	
Detector Rows	8
Detector Configuration	8 x 2.5
Scan FOV	Small
Rotation Time (sec)	0.5
kV	120
Smart/Auto mA or Manual mA	Manual
Manual mA	440
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0 / 4i
Interval (mm)	0
Recon 1:	
DFOV	22.7
Recon Type	Standard
WW/ WL	60/0
Recon Option	Full
ASiR Setup	None
Recon 2:	
Scan Range	S68.75 – S86.25
DFOV	22.7
Recon Type	Standard
WW/ WL	60/0
Recon Option	Standard
ASiR Setup	None
Slice Thickness (mm)	2.5 x 8i
Interval (mm)	0

After repositioning the phantom vertically as high in the gantry as the scanner will allow:

Scan Factors: (8 Slice)

Artifacts (off center)

Daily QA

Scanner LS 8 Slice

Series 4 - Helical Scan

Entry	Head First
Position	Supine
Scan Range	S60 – S95
Scan Type	Helical
Detector Coverage (mm)	20
Beam Collimation (mm)	
Detector Rows	8
Detector Configuration	8 x 2.5
Scan FOV	Large
Pitch	0.875
Speed (mm/rot)	17.5
Rotation Time (sec)	0.6
kV	120
Smart/Auto mA or Manual mA	Manual mA
Manual mA	380
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0
Interval (mm)	5.0
<i>Recon 1:</i>	
DFOV	50.0
Recon Type	Standard
WW/WL	60/0
Recon Option	Full
ASiR Setup	None

Scan Factors: (8 Slice)**Artifacts (off center)****Daily QA**

Scanner

LS 8 Slice

Series 5 - Axial Scan

Entry	Head First
Position	Supine
Scan Range	S70 – S85
Scan Type	Axial
Detector Coverage (mm)	20
Beam Collimation (mm)	
Detector Rows	8
Detector Configuration	8 x 2.5
Scan FOV	Large
Rotation Time (sec)	0.5
kV	120
Smart/Auto mA or Manual mA	Manual
Manual mA	440
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0 / 4i
Interval (mm)	0
Recon 1:	
DFOV	50.0
Recon Type	Standard
WW/ WL	60/0
Recon Option	Full
ASiR Setup	None
Recon 2:	
Scan Range	S68.75 – S86.25
DFOV	22.7
Recon Type	Standard
WW/ WL	60/0
Recon Option	Standard
ASiR Setup	None
Slice Thickness (mm)	2.5 x 8i
Interval (mm)	0

Scan Factors: (8 Slice)**Water CT #, Noise (Standard Dev.),
Artifacts****Weekly QA**

Scanner	LS 8 Slice
Series 1 - Helical Scan	

Entry	Head First
Position	Supine
Scan Range	S60 – S95
Scan Type	Helical
Detector Coverage (mm)	20
Beam Collimation (mm)	
Detector Rows	8
Detector Configuration	8 x 2.5
Scan FOV	Small
Pitch	0.875
Speed (mm/rot)	17.5
Rotation Time (sec)	0.6
kV	120
Smart/Auto mA or Manual mA	Manual mA
Manual mA	380
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0
Interval (mm)	5.0
<i>Recon 1:</i>	
DFOV	22.7
Recon Type	Standard
WW/WL	60/0
Recon Option	Full
ASiR Setup	None

Scan Factors: (8 Slice)**Artifacts****Weekly QA**

Scanner	LS 8 Slice
Series 2 - Axial Scan	

Entry	Head First
Position	Supine
Scan Range	S70 – S85
Scan Type	Axial
Detector Coverage (mm)	20
Beam Collimation (mm)	20
Detector Rows	8
Detector Configuration	8 x 2.5
Scan FOV	Small
Rotation Time (sec)	0.5
kV	120
Smart/Auto mA or Manual mA	Manual
Manual mA	440
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0 / 4i
Interval (mm)	0
Recon 1:	
DFOV	22.7
Recon Type	Standard
WW/ WL	60/0
Recon Option	Full
ASiR Setup	None
Recon 2:	
Scan Range	S68.75 – S86.25
DFOV	22.7
Recon Type	Standard
WW/ WL	60/0
Recon Option	Standard
ASiR Setup	None
Slice Thickness (mm)	2.5 x 8i
Interval (mm)	0

Scan Factors: (8 Slice)**Contrast Scale;
High Contrast Resolution****Weekly QA**

Scanner	LS 8 Slice
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Series 4 - Helical Scan

Entry	Head First
Position	Supine
Scan Range	I15 – S20
Scan Type	Helical
Detector Coverage (mm)	10
Beam Collimation (mm)	
Detector Rows	8
Detector Configuration	8 x 1.25
Scan FOV	Small
Pitch	0.625
Speed (mm/rot)	6.25
Rotation Time (sec)	1.0
kV	120
Smart/Auto mA or Manual mA	Manual mA
Manual mA	440
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0
Interval (mm)	5.0
<i>Recon 1:</i>	
DFOV	20.0
Recon Type	Standard
WW/ WL	250/60
Recon Option	Full
ASiR Setup	None
<i>Recon 2:</i>	
Scan Range	12.0
DFOV	Edge
Recon Type	250/60
WW/ WL	Full
Recon Option	None
ASiR Setup	5.0
Slice Thickness (mm)	5.0
Interval (mm)	Head First

Scan Factors: (8 Slice)

Slice Thickness; Alignment Light Accuracy
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Weekly QA

Scanner

LS 8 Slice

Series 6 - Axial Scan

Entry	Head First
Position	Supine
Scan Range	I5 – S10
Scan Type	Axial
Detector Coverage (mm)	20
Beam Collimation (mm)	8
Detector Rows	8 x 2.5
Detector Configuration	8 x 2.5
Scan FOV	Small
Speed (mm/rot)	12.5
Rotation Time (sec)	1.0
kV	120
Smart/Auto mA or Manual mA	Manual mA
Manual mA	260
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0 / 4i
Interval (mm)	0
<i>Recon 1:</i>	
DFOV	25.0
Recon Type	Standard
WW/ WL	200/60
Recon Option	Full
ASiR Setup	None

Scan Factors: (8 Slice)**Slice Thickness;
Alignment Light Accuracy****Weekly QA**

Scanner	LS 8 Slice
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Series 7 - Axial Scan

Entry	Head First
Position	Supine
Scan Range	I2.5 – S5
Scan Type	Axial
Detector Coverage (mm)	10
Beam Collimation (mm)	
Detector Rows	8
Detector Configuration	8 x 1.25
Scan FOV	Small
Speed (mm/rot)	12.5
Rotation Time (sec)	1.0
kV	120
Smart/Auto mA or Manual mA	Manual mA
Manual mA	260
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	2.5 / 4i
Interval (mm)	0
<i>Recon 1:</i>	
DFOV	20.0
Recon Type	Standard
WW/ WL	400/-40
Recon Option	Full
ASiR Setup	None
<i>Recon 2:</i>	
Scan Range	I3.125 – S5.625
DFOV	25.0
Recon Type	Standard
WW/ WL	800/-140
Recon Option	Full
ASiR Setup	None
Slice Thickness (mm)	1.25 x 8i
Interval (mm)	0

After repositioning the phantom vertically as high in the gantry as the scanner will allow:

Scan Factors: (8 Slice)

Artifacts (off center)

Weekly QA

Scanner LS 8 Slice

Series 9 - Helical Scan

Entry	Head First
Position	Supine
Scan Range	S60 – S95
Scan Type	Helical
Detector Coverage (mm)	20
Beam Collimation (mm)	
Detector Rows	8
Detector Configuration	8 x 2.5
Scan FOV	Large
Pitch	0.875
Speed (mm/rot)	17.5
Rotation Time (sec)	0.6
kV	120
Smart/Auto mA or Manual mA	Manual mA
Manual mA	380
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0
Interval (mm)	5.0
<i>Recon 1:</i>	
DFOV	50.0
Recon Type	Standard
WW/WL	60/0
Recon Option	Full
ASiR Setup	None

Scan Factors: (8 Slice)**Artifacts (off center)****Weekly QA**

Scanner	LS 8 Slice
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Series 10 - Axial Scan

Entry	Head First
Position	Supine
Scan Range	S70 – S85
Scan Type	Axial
Detector Coverage (mm)	20
Beam Collimation (mm)	20
Detector Rows	8
Detector Configuration	8 x 2.5
Scan FOV	Large
Rotation Time (sec)	0.5
kV	120
Smart/Auto mA or Manual mA	Manual
Manual mA	440
% Dose Reduction(ASiR)	None
Slice Thickness (mm)	5.0 / 4i
Interval (mm)	0
Recon 1:	
DFOV	50.0
Recon Type	Standard
WW/ WL	60/0
Recon Option	Full
ASiR Setup	None
Recon 2:	
Scan Range	S68.75 – S86.25
DFOV	22.7
Recon Type	Standard
WW/ WL	60/0
Recon Option	Standard
ASiR Setup	None
Slice Thickness (mm)	2.5 x 8i
Interval (mm)	0