RSNA QIBA DCE-MRI Protocol Tests

	As Proposed	As Acquired	
Generic DCE Scan			
B0:	1.5T	1.5T	
Grad Subsystem:	CRM	CRM	
Coil:	Torso PA	Torso PA	
Slice orientation:	Oblique Coronal	Oblique Coronal	
Sequence:	3D FSPGR	3D FSPGR	
Imaging Options:	EDR, MPH, ZIP2, ZIP512	EDR, MPH, ZIP2, ZIP512	
User CVs:	Turbo=2 / Slice res=100%	Turbo=2 / Slice res=100%	
Grad Mode:	N/A	N/A	
TE (ms):	0.9	0.9	
TR (ms):	4.1	**3.9**	
Flip Angle (deg):	30	30	
Bandwidth:	+/- 32 kHz	+/- 32 kHz	
NEX:	1	1	
FOV (cm):	40	**42**	
Phase FOV:	0.8	0.8	
Slice Thickness (mm):	5	**8**	
# locs per slab:	16	16	recons 12 images/volume (before slice interpolation)
Acquisition matrix:	256 x 160	256 x 160	
Freq Direction:	S/I	S/I	
Scan time/volume:	8.5 sec	**8.33 sec**	includes intervolume delay
Scan time / 40 volumes:	5:40	**5:33**	includes intervolume delay
Generic Ratio Protocol			
B0:	1.5T	1.5T	
Grad Subsystem:	CRM	CRM	
Coil:	Torso PA / Body Coil	Torso PA / Body Coil	
Slice orientation:	Oblique Coronal	Oblique Coronal	
Sequence:	3D FSPGR	3D FSPGR	
Imaging Options:	EDR, MPH, ZIP2, ZIP512	EDR, MPH, ZIP2, ZIP512	
User CVs:	Turbo=2 / Slice res=100%	Turbo=2 / Slice res=100%	
Grad Mode:	N/A	N/A	
TE (ms):	0.9	**0.8**	
TR (ms):	4.0	**3.8**	
Flip Angle (deg):	15	15	
Bandwidth:	+/- 32 kHz	+/- 32 kHz	
NEX:	8	8	
FOV (cm):	40	**42**	
Phase FOV:	0.8	0.8	
Slice Thickness (mm):	5	**8**	
# locs per slab:	16	16	
Acquisition matrix:	256 x 160	256 x 160	
Freq Direction:	S/I	S/I	
Acq Time (min):	1:06	**1:04**	
Generic T1 Mapping Protocol			
B0:	1.5T	1.5T	
Grad Subsystem:	CRM	CRM	
Coil:	Torso PA / Body Coil	Torso PA / Body Coil	
Slice orientation:	Oblique Coronal	Oblique Coronal	
Sequence:	3D FSPGR	3D FSPGR	
Imaging Options:	EDR, MPH, ZIP2, ZIP512	EDR, MPH, ZIP2, ZIP512	
User CVs:	**Turbo=0** / Slice res=100%	**Turbo=0** / Slice res=100%	If Turbo=1 or 2 is used, the TR varies with flip angle. Even with Turbo=0, TR may vary for >30 deg flip angle.
Grad Mode:	N/A	N/A	
TE (ms):	1.0	1.0	
TR (ms):	5.2	**5.1**	
Flip Angle (deg):	2, 5, 10, 15, 20, 25, 30	2, 5, 10, 15, 20, 25, 30	
Bandwidth:	+/- 32 kHz	+/- 32 kHz	
NEX:	4	4	
FOV (cm):	40	**42**	
Phase FOV:	0.8	0.8	
Slice Thickness (mm):	5	**8**	
# locs per slab:	16	16	
Acquisition matrix:	256 x 160	256 x 160	
Freq Direction:	S/I	S/I	
Acq Time (min):	43 sec / flip angle	43 sec / flip angle	