SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

VASO sequence version 121

\\USER\UserProtocols\Renzo\Whole_slice_template\M1_study_template_KERNEL_2x3

TA: 33:27 PAT: 3 Voxel size: 0.8×0.8×1.0 mm Rel. SNR: 1.00 UNKNOWN:

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	R37.6 A15.2 H22.2
Orientation	T > S36.1
Phase enc. dir.	P >> A
Rotation	180.00 deg
Phase oversampling	0 %
Slice oversampling	9.1 %
Slices per slab	22
FoV read	127.0 mm
FoV phase	100.0 %
Slice thickness	0.99 mm
TR	2222.50 ms
TE	32 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	700 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Weak
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	903
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	700.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	162
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	36
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	220.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	R35.2 A13.3 H20.8
! Orientation	T > C-2.0 > S0.9
! Rotation	0.08 deg
! R >> L	94 mm
! A >> P	136 mm
! F >> H	58 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1234 Hz/Px
Free echo spacing	Off
Echo spacing	0.98 ms
EPI factor	162

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	150
BWDTH	150 3.1kHz
ph.skip 4 Robert (the one)	30
use Ernst angle	Off
Maxwell Correction	Off
log physio files	Off
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1900 us
RF BWTP	25.0
Renzo: Delta TI	63 ms
EFFECTIVE TR	53340 ms
PatPartitions	24
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	162
FlashRef BW	100 Hz/px
FlashRef TE	10000 us
FlashRef FA	5 deg
use CAIPI	Off

additional Parameters:
*GrappaKernel 2x3
*Improved GRAPPA on