# SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

**VASO compilation version: VASO_124**

\\USER\UserProtocols\Renzo\V1_template\26_slices_assym_TR5s

TA: 0:14 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: VASO_124

## 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 | R1.4 A21.2 F2.4 |
| Orientation | T > C-15.9 |
| Phase enc. dir. | P >> A |
| Rotation | 180.00 deg |
| Phase oversampling | 0 % |
| Slice oversampling | 7.7 % |
| Slices per slab | 26 |
| FoV read | 133.0 mm |
| FoV phase | 133.3 % |
| Slice thickness | 0.82 mm |
| TR | 2837.90 ms |
| TE | 25 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | A32 |

## Contrast

| | |
|---|---|
| Perfusion mode | SS-SI VASO |
| TI2 | 650 ms |
| TI1 | 50 ms |
| TI1s | 50 ms |
| Flip angle | 26 deg |
| Fat suppr. | Fat sat. |
| Fat sat. mode | Strong |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 5 |
| 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 | 650.0 ms |
| Flow limit | 100 cm/s |

## Resolution

| | |
|---|---|
| Base resolution | 162 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Slice partial Fourier | Off |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 3 |
| Ref. lines PE | 45 |
| Accel. factor 3D | 1 |
| Ref. lines 3D | 22 |
| 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 | REF |
| 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 | Isocenter |
| ! Orientation | Transversal |
| ! Rotation | 90.00 deg |
| ! A >> P | 178 mm |
| ! R >> L | 133 mm |
| ! F >> H | 22 mm |

## Physio

| | |
|---|---|
| 1st Signal/Mode | None |

## BOLD

| | |
|---|---|
| Motion correction | Off |
| Spatial filter | Off |

## Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 3D |
| Reordering | Linear |
| Contrasts | 1 |
| Bandwidth | 1064 Hz/Px |
| Free echo spacing | Off |
| Echo spacing | 1.04 ms |
| EPI factor | 216 |

| | |
|---|---|
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Slab-sel. |
| RF spoiling | On |
| Ampl | 150 |
| BWDTH | 150 3.1kHz |
| ph.skip 4 Robert (the one) | 1 |
| use Ernst angle | Off |
| Maxwell Correction | Off |
| log physio files | Off |
| FFT scale | 3.00 |
| dummy prepscan time | 3 s |
| z shim | 0.00 mT/m*ms |
| RF duration | 2000 us |
| RF BWTP | 25.0 |
| Renzo: Delta TI | 75 ms |
| EFFECTIVE TR | 79461 ms |
| PatPartitions | 28 |
| EPI phase correction | local |
| PAT refscan mode | Flash |
| FlashRef BaseRes | 162 |
| FlashRef BW | 100 Hz/px |
| FlashRef TE | 6500 us |
| FlashRef FA | 5 deg |
| use CAIPI | Off |

additional Parameters
*Partial Fourier algorithm: POCS with 8 iterations
*GRAPPA Kernel 5x6
*Improved GRAPPA on
*Grappa Regularization (NoiseRedutionI:5000)