# SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\Localizer_bs_csc

TA: 0:52 PAT: 2 Voxel size: 1.2×1.2×5.0 mm Rel. SNR: 1.00 SIEMENS: gre

## 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

| | |
|---|---|
| Slice group 1 | |
| Slices | 9 |
| Dist. factor | 100 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slice group 2 | |
| Slices | 33 |
| Dist. factor | 100 % |
| Position | Isocenter |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slice group 3 | |
| Slices | 15 |
| Dist. factor | 100 % |
| Position | Isocenter |
| Orientation | Coronal |
| Phase enc. dir. | R >> L |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 300 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 6.2 ms |
| TE | 2.67 ms |
| Averages | 1 |
| Concatenations | 57 |
| Filter | Elliptical filter |
| Coil elements | C10-22;Ch1-9 |

## Contrast

| | |
|---|---|
| TD | 0 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

## Resolution

| | |
|---|---|
| Base resolution | 256 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 2 |
| Ref. lines PE | 32 |
| Reference scan mode | Integrated |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | On |
| Mode | Inplane |

## Geometry

| | |
|---|---|
| Multi-slice mode | Sequential |
| Series | Interleaved |
| Saturation mode | Standard |
| Special sat. | None |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |
| Tim CT mode | Off |

## System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Adaptive Combine |
| AutoAlign | --- |
| Auto Coil Select | Off |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |

| | |
|---|---|
| Assume Silicone | Off |
| ? Ref. amplitude 1H | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| Position | Isocenter |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| F >> H | 325 mm |
| A >> P | 301 mm |
| R >> L | 301 mm |

Physio

| | |
|---|---|
| 1st Signal/Mode | None |
| Segments | 1 |
| Tagging | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|---|---|
| Subtract | Off |
| Liver registration | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |
| Wash - In | Off |
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| MapIt | None |
| Contrasts | 1 |

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Phase stabilisation | Off |
| Asymmetric echo | Allowed |
| Bandwidth | 320 Hz/Px |
| Flow comp. | No |
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\preSatTFL_satFA80_sag_2p5mm_FOV3

TA: 1:20 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: tfl_WIP543_B1map

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L0.0 A40.0 H0.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slice group 2 | |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L2.5 A40.0 H0.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 320 mm |
| FoV phase | 68.8 % |
| Slice thickness | 2.5 mm |
| TR | 20000 ms |
| TE | 2.84 ms |
| Averages | 1 |
| Concatenations | 2 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| TD | 0 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|---|---|
| Base resolution | 128 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 350.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L0.0 A40.0 H0.0 |
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! F >> H | 320 mm |
| ! A >> P | 228 mm |
| ! R >> L | 140 mm |

Physio

| | |
|---|---|
| 1st Signal/Mode | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|---|---|
| Subtract | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Sequence

| | |
|---|---|
| Introduction | Off |
| Dimension | 2D |
| Reordering | Centric |
| Asymmetric echo | Allowed |
| Bandwidth | 400 Hz/Px |
| Flow comp. | No |
| Echo spacing | 5.7 ms |
| EPI factor | 1 |
| RF pulse type | Low SAR |
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Prep Pulse | SINC |
| Sat Flip Angle | 80 deg |
| Sat Thick | 5.0 mm |
| RF Duration | 2000 us |
| no ref scans | 1 # |
| TX array B1 mapping | Off |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\preSatTFL_satFA60_sag_2p5mm_FOV3

TA: 1:20 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: tfl_WIP543_B1map

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L0.0 A40.0 H0.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slice group 2 | |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L2.5 A40.0 H0.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 320 mm |
| FoV phase | 68.8 % |
| Slice thickness | 2.5 mm |
| TR | 20000 ms |
| TE | 2.84 ms |
| Averages | 1 |
| Concatenations | 2 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| TD | 0 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|---|---|
| Base resolution | 128 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 450.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L0.0 A40.0 H0.0 |
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! F >> H | 320 mm |
| ! A >> P | 228 mm |
| ! R >> L | 140 mm |

Physio

| | |
|---|---|
| 1st Signal/Mode | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|---|---|
| Subtract | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Sequence

| | |
|---|---|
| Introduction | Off |
| Dimension | 2D |
| Reordering | Centric |
| Asymmetric echo | Allowed |
| Bandwidth | 400 Hz/Px |
| Flow comp. | No |
| Echo spacing | 5.7 ms |
| EPI factor | 1 |
| RF pulse type | Low SAR |
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Prep Pulse | SINC |
| Sat Flip Angle | 60 deg |
| Sat Thick | 5.0 mm |
| RF Duration | 2000 us |
| no ref scans | 1 # |
| TX array B1 mapping | Off |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\2DREAM_sag_FOV384_2p5mm_RefV45

TA: 1:08 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: 3Dream_2d

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| FoV read | 384 mm |
| FoV phase | 47.4 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.15 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution

| | |
|---|---|
| Base resolution | 152 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Sequential |
| Series | Ascending |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 450.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| F >> H | 384 mm |
| A >> P | 182 mm |
| R >> L | 28 mm |

Composing

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Bandwidth | 910 Hz/Px |
| Echo spacing | 4.9 ms |
| Turbo factor | 72 |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| Flip angle mode | Constant |
| RF spoiling | On |

| | |
|---|---|
| Sample T1 | 2000 ms |
| Preparation Scans | 2 |
| Preparation Loops | 0 |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| TimeBandwidthProduct | 3.2 |
| Timing Schme | STE* |
| Mixing Time | 1000 us |
| Calculate FlipMap | On |
| Use IcePAT | Off |
| Var FA | Off |
| FFT Scale | 10.0 |
| dSpoilFactor | 2.0 |
| Scale risetime | 1.20 |
| TX/RX Nucleus | 1H |
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\2DREAM_sag_FOV200_2p5mm_RefV4

TA: 1:08 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: 3Dream_2d

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.05 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution

| | |
|---|---|
| Base resolution | 80 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Sequential |
| Series | Ascending |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| F >> H | 200 mm |
| A >> P | 200 mm |
| R >> L | 28 mm |

Composing

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Bandwidth | 1010 Hz/Px |
| Echo spacing | 4.8 ms |
| Turbo factor | 80 |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| Flip angle mode | Constant |
| RF spoiling | On |

| | |
|---|---|
| Sample T1 | 2000 ms |
| Preparation Scans | 2 |
| Preparation Loops | 0 |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| TimeBandwidthProduct | 3.2 |
| Timing Schme | STE* |
| Mixing Time | 1000 us |
| Calculate FlipMap | On |
| Use IcePAT | Off |
| Var FA | Off |
| FFT Scale | 10.0 |
| dSpoilFactor | 2.0 |
| Scale risetime | 1.20 |
| TX/RX Nucleus | 1H |
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\2DREAM_sag_FOV200_2p5mm_RefV3

TA: 1:08 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: 3Dream_2d

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.05 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution

| | |
|---|---|
| Base resolution | 80 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Sequential |
| Series | Ascending |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 327.700 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L0.0 A28.0 H10.0 |
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! F >> H | 200 mm |
| ! A >> P | 200 mm |
| ! R >> L | 28 mm |

Composing

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Bandwidth | 1010 Hz/Px |
| Echo spacing | 4.8 ms |
| Turbo factor | 80 |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| Flip angle mode | Constant |
| RF spoiling | On |

| | |
|---|---|
| Sample T1 | 2000 ms |
| Preparation Scans | 2 |
| Preparation Loops | 0 |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| TimeBandwidthProduct | 3.2 |
| Timing Schme | STE* |
| Mixing Time | 1000 us |
| Calculate FlipMap | On |
| Use IcePAT | Off |
| Var FA | Off |
| FFT Scale | 10.0 |
| dSpoilFactor | 2.0 |
| Scale risetime | 1.20 |
| TX/RX Nucleus | 1H |
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\2DREAM_sag_FOV200_2p5mm_RefV45

TA: 1:08 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: 3Dream_2d

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.05 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution

| | |
|---|---|
| Base resolution | 80 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Sequential |
| Series | Ascending |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 450.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L0.0 A28.0 H10.0 |
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! F >> H | 200 mm |
| ! A >> P | 200 mm |
| ! R >> L | 28 mm |

Composing

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Bandwidth | 1010 Hz/Px |
| Echo spacing | 4.8 ms |
| Turbo factor | 80 |
| RF pulse type | Fast |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| Flip angle mode | Constant |
| RF spoiling | On |

| | |
|---|---|
| Sample T1 | 2000 ms |
| Preparation Scans | 2 |
| Preparation Loops | 0 |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| TimeBandwidthProduct | 3.2 |
| Timing Schme | STE* |
| Mixing Time | 1000 us |
| Calculate FlipMap | On |
| Use IcePAT | Off |
| Var FA | Off |
| FFT Scale | 10.0 |
| dSpoilFactor | 2.0 |
| Scale risetime | 1.20 |
| TX/RX Nucleus | 1H |
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\CoilQA_sag_HF_FOV384_1p5x1p5x2p0

TA: 3:27 Voxel size: 1.5×1.5×2.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| Rotation | 90.00 deg |
| Phase oversampling | 0 % |
| FoV read | 384 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 13 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| TD | 0 ms |
| MTC | Off |
| Flip angle | 12 deg |
| Fat suppr. | None |
| Water suppr. | None |
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution

| | |
|---|---|
| Base resolution | 256 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Sequential |
| Series | Ascending |
| Special sat. | None |

| | |
|---|---|
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Adaptive Combine |
| AutoAlign | --- |
| Auto Coil Select | Default |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ? Ref. amplitude 1H | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L2.6 A16.9 F13.6 |
| ! Orientation | S > T-0.9 |
| ! Rotation | 81.15 deg |
| ! A >> P | 48 mm |
| ! F >> H | 194 mm |
| ! R >> L | 26 mm |

Physio

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

Inline

| | |
|---|---|
| Subtract | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Sequence

| | |
|---|---|
| Introduction | Off |
| Dimension | 2D |
| Contrasts | 1 |
| Bandwidth | 200 Hz/Px |
| Gradient mode | Fast |
| RF spoiling | On |
| ICE program | CoilArrayUtil |
| number of noise lines | 384 lines |
| Optimal SNR | On |
| GFactor | On |
| Condition number | Off |
| Rx coil diode switching | On |
| coil channel reordering | Off |
| TX/RX Nucleus | 1H |
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\CoilQA_sag_HF_FOV192_1p5x1p5x2p0

TA: 1:44 Voxel size: 1.5×1.5×2.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| Rotation | 90.00 deg |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 13 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| TD | 0 ms |
| MTC | Off |
| Flip angle | 12 deg |
| Fat suppr. | None |
| Water suppr. | None |
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution

| | |
|---|---|
| Base resolution | 128 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Sequential |
| Series | Ascending |
| Special sat. | None |

| | |
|---|---|
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Adaptive Combine |
| AutoAlign | --- |
| Auto Coil Select | Default |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ? Ref. amplitude 1H | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L2.6 A16.9 F13.6 |
| ! Orientation | S > T-0.9 |
| ! Rotation | 81.15 deg |
| ! A >> P | 48 mm |
| ! F >> H | 194 mm |
| ! R >> L | 26 mm |

Physio

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

Inline

| | |
|---|---|
| Subtract | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Sequence

| | |
|---|---|
| Introduction | Off |
| Dimension | 2D |
| Contrasts | 1 |
| Bandwidth | 200 Hz/Px |
| Gradient mode | Fast |
| RF spoiling | On |
| ICE program | CoilArrayUtil |
| number of noise lines | 384 lines |
| Optimal SNR | On |
| GFactor | On |
| Condition number | Off |
| Rx coil diode switching | On |
| coil channel reordering | Off |
| TX/RX Nucleus | 1H |
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\CoilQA_axi_RL_FOV192_0p5x0p5x5p0

TA: 2:53 Voxel size: 0.5×0.5×5.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 7 |
| Dist. factor | 300 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Transversal |
| Phase enc. dir. | R >> L |
| Rotation | 90.00 deg |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 30 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 7 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| TD | 0 ms |
| MTC | Off |
| Flip angle | 12 deg |
| Fat suppr. | None |
| Water suppr. | None |
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution

| | |
|---|---|
| Base resolution | 384 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Sequential |
| Series | Ascending |
| Special sat. | None |

| | |
|---|---|
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Adaptive Combine |
| AutoAlign | --- |
| Auto Coil Select | Default |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ? Ref. amplitude 1H | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L2.6 A16.9 F13.6 |
| ! Orientation | S > T-0.9 |
| ! Rotation | 81.15 deg |
| ! A >> P | 48 mm |
| ! F >> H | 194 mm |
| ! R >> L | 26 mm |

Physio

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

Inline

| | |
|---|---|
| Subtract | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Sequence

| | |
|---|---|
| Introduction | Off |
| Dimension | 2D |
| Contrasts | 1 |
| Bandwidth | 200 Hz/Px |
| Gradient mode | Fast |
| RF spoiling | On |
| ICE program | CoilArrayUtil |
| number of noise lines | 384 lines |
| Optimal SNR | On |
| GFactor | On |
| Condition number | Off |
| Rx coil diode switching | On |
| coil channel reordering | Off |
| TX/RX Nucleus | 1H |
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\gre_2D_2mmIso_RefV450_uncombined

TA: 1:21 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 SIEMENS: gre

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 44 |
| Dist. factor | 0 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Slice thickness | 2.0 mm |
| TR | 550 ms |
| TE | 3.87 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 30 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|---|---|
| Base resolution | 192 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Saturation mode | Standard |
| Special sat. | None |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |
| Tim CT mode | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | On |
| 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 | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| F >> H | 384 mm |
| A >> P | 288 mm |
| R >> L | 88 mm |

Physio

| | |
|---|---|
| 1st Signal/Mode | None |
| Segments | 1 |
| Tagging | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|---|---|
| Subtract | Off |
| Liver registration | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |
| Wash - In | Off |
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| MapIt | None |
| Contrasts | 1 |

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Phase stabilisation | On |
| Asymmetric echo | Off |
| Bandwidth | 320 Hz/Px |
| Flow comp. | No |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\gre_2D_2mmIso_RefV450_uncombined_

TA: 1:21 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 SIEMENS: gre

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 44 |
| Dist. factor | 0 % |
| Position | L0.0 A28.0 H10.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Slice thickness | 2.0 mm |
| TR | 550 ms |
| TE | 3.87 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 30 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|---|---|
| Base resolution | 192 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Saturation mode | Standard |
| Special sat. | None |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |
| Tim CT mode | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | On |
| 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 | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L0.0 A28.0 H10.0 |
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! F >> H | 384 mm |
| ! A >> P | 288 mm |
| ! R >> L | 88 mm |

Physio

| | |
|---|---|
| 1st Signal/Mode | None |
| Segments | 1 |
| Tagging | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|---|---|
| Subtract | Off |
| Liver registration | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |
| Wash - In | Off |
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| MapIt | None |
| Contrasts | 1 |

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Phase stabilisation | On |
| Asymmetric echo | Off |
| Bandwidth | 320 Hz/Px |
| Flow comp. | No |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\preSatTFL_sag_2p5mm_FOV320_RefV4

TA: 1:20 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: tfl_WIP543_B1map

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L0.0 A32.0 H0.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slice group 2 | |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L2.5 A32.0 H0.0 |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 320 mm |
| FoV phase | 68.8 % |
| Slice thickness | 2.5 mm |
| TR | 20000 ms |
| TE | 2.84 ms |
| Averages | 1 |
| Concatenations | 2 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| TD | 0 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution

| | |
|---|---|
| Base resolution | 128 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| PAT mode | None |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 450.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| Position | L1.3 A32.0 H0.0 |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| F >> H | 320 mm |
| A >> P | 220 mm |
| R >> L | 140 mm |

Physio

| | |
|---|---|
| 1st Signal/Mode | None |
| Dark blood | Off |
| Resp. control | Off |

Inline

| | |
|---|---|
| Subtract | Off |
| Std-Dev-Sag | Off |
| Std-Dev-Cor | Off |
| Std-Dev-Tra | Off |
| Std-Dev-Time | Off |
| MIP-Sag | Off |
| MIP-Cor | Off |
| MIP-Tra | Off |
| MIP-Time | Off |
| Save original images | On |

Sequence

| | |
|---|---|
| Introduction | Off |
| Dimension | 2D |
| Reordering | Centric |
| Asymmetric echo | Allowed |
| Bandwidth | 400 Hz/Px |
| Flow comp. | No |
| Echo spacing | 5.7 ms |
| EPI factor | 1 |
| RF pulse type | Low SAR |
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Prep Pulse | SINC |
| Sat Flip Angle | 60 deg |
| Sat Thick | 5.0 mm |
| RF Duration | 2000 us |
| no ref scans | 1 # |
| TX array B1 mapping | Off |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\t1_mp2r_wip944_3D_cor_0p7iso_p2_Re

TA: 8:55 PAT: 2 Voxel size: 0.7×0.7×0.7 mm Rel. SNR: 1.00 USER: tfl_wip944_b17stx

### 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 | L3.8 A18.3 F7.5 |
| Orientation | S > T-1.0 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 192 |
| FoV read | 260 mm |
| FoV phase | 67.9 % |
| Slice thickness | 0.70 mm |
| TR | 5000 ms |
| TE | 2.12 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | C10-22;Ch1-9 |

### Contrast

| | |
|---|---|
| Magn. preparation | Non-sel. IR |
| TI 1 | 700 ms |
| TI 2 | 2400 ms |
| Flip angle 1 | 4 deg |
| Flip angle 2 | 5 deg |
| Fat suppr. | None |
| Water suppr. | None |
| 2nd Inversion Contrast | On |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

### Resolution

| | |
|---|---|
| Base resolution | 368 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Slice partial Fourier | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 2 |
| Ref. lines PE | 28 |
| Accel. factor 3D | 1 |
| Reference scan mode | Integrated |
| Image Filter | Off |
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

### Geometry

| | |
|---|---|
| Multi-slice mode | Single shot |
| Series | Ascending |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

### System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Save uncombined | Off |
| Coil Combine Mode | Adaptive Combine |
| AutoAlign | --- |
| Auto Coil Select | Default |
| Shim mode | Standard |
| Adjust with body coil | Off |
| Confirm freq. adjustment | Off |
| Assume Silicone | Off |
| ! Ref. amplitude 1H | 450.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L2.6 A16.9 F13.6 |
| ! Orientation | S > T-0.9 |
| ! Rotation | 81.15 deg |
| ! A >> P | 48 mm |
| ! F >> H | 194 mm |
| ! R >> L | 26 mm |

### Physio

| | |
|---|---|
| 1st Signal/Mode | None |
| Dark blood | Off |
| Resp. control | Off |

Composing

Sequence

| | |
|---|---|
| Introduction | Off |
| Dimension | 3D |
| Elliptical scanning | Off |
| Asymmetric echo | Allowed |
| Contrasts | 1 |
| Bandwidth | 220 Hz/Px |
| Flow comp. | No |
| Echo spacing | 6.3 ms |
| RF pulse type | Normal |
| Gradient mode | Normal |
| Excitation | Non-sel. |
| RF spoiling | On |
| FFT Scale Factor | 100 % |
| LIN/PAR Swap | Off |
| Ext. INV Pulse | On |
| Flip Angle | 180 |
| Uniform Image | On |
| Head Mask on UNI | Off |
| T1 Map | On |
| Complex Div. Image | Off |
| Denoise Weighting | 150 |
| FLAWS | Off |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\ep2D_0p85_R2PF6_TE30_BW1132_Ref

TA: 10:11 PAT: 2 Voxel size: 0.9×0.9×3.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_bold

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 16 |
| Dist. factor | 0 % |
| Position | L3.1 A36.3 F6.3 |
| Orientation | T > C-4.1 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 164 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.00 mm |
| TR | 1290 ms |
| TE | 30 ms |
| Multi-band accel. factor | 1 |
| Filter | Raw filter |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 68 deg |
| Fat suppr. | None |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 466 |
| Delay in TR | 0 ms |
| Multiple series | Off |

Resolution

| | |
|---|---|
| Base resolution | 192 |
| Phase resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Accel. factor PE | 2 |
| Ref. lines PE | 52 |
| Reference scan mode | GRE |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Raw filter | On |
| Intensity | Weak |
| Slope | 25 |
| Elliptical filter | Off |
| Hamming | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Special sat. | None |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | On |
| Positioning mode | FIX |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| 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 | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L3.3 A23.3 F7.6 |
| ! Orientation | Sagittal |
| ! Rotation | 4.10 deg |
| ! F >> H | 60 mm |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |

Physio

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

BOLD

| | |
|---|---|
| GLM Statistics | Off |
| Dynamic t-maps | Off |
| Starting ignore meas | 0 |
| Ignore after transition | 0 |
| Model transition states | Off |
| Temp. highpass filter | Off |
| Threshold | 4.00 |
| Paradigm size | 20 |

| | |
|---|---|
| Meas[1] | Baseline |
| Meas[2] | Baseline |
| Meas[3] | Baseline |
| Meas[4] | Baseline |
| Meas[5] | Baseline |
| Meas[6] | Baseline |
| Meas[7] | Baseline |
| Meas[8] | Baseline |
| Meas[9] | Baseline |
| Meas[10] | Baseline |
| Meas[11] | Active |
| Meas[12] | Active |
| Meas[13] | Active |
| Meas[14] | Active |
| Meas[15] | Active |
| Meas[16] | Active |
| Meas[17] | Active |
| Meas[18] | Active |
| Meas[19] | Active |
| Meas[20] | Active |
| Motion correction | Off |
| Spatial filter | Off |

Sequence

| | |
|---|---|
| Introduction | Off |
| Contrasts | 1 |
| Bandwidth | 1132 Hz/Px |
| Flow comp. | No |
| Free echo spacing | Off |
| Echo spacing | 1 ms |
| EPI factor | 192 |
| Gradient mode | Fast |
| RF spoiling | Off |
| Excite pulse duration | 3840 us |
| Slice multiplier | 1 |
| SENSE1 coil combine | Off |
| Invert RO/PE polarity | Off |
| PF omits higher k-space | Off |
| Force equal slice timing | Off |
| FFT scale factor | 1.00 |
| GRE iPAT ref. FA | 12.0 deg |
| Physio recording | Legacy |
| Triggering scheme | Standard |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\ep3D_0p85_R2x1_TE11p2_EPIfac16_B\

TA: 10:14 PAT: 2 Voxel size: 0.9×0.9×3.0 mm Rel. SNR: 1.00 USER: dzne_ep3d_fmri

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 |
| Position | L3.1 A36.3 F6.3 |
| Orientation | T > C-4.1 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slab Scale | -10 % |
| Slices per slab | 16 |
| FoV read | 164 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.00 mm |
| TR | 2300 ms |
| TE 1 | 11.2 ms |
| Averages | 1 |
| Multi-echo Shots | 1 |
| Filter | Raw filter |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| Multi-echo spacing | 17.18 ms |
| MTC | Off |
| Magn. preparation | None |
| TI | 900 ms |
| Flip angle | 11 deg |
| Fat suppr. | None |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 264 |
| Pause after meas. | 0.0 s |

Resolution

| | |
|---|---|
| Base resolution | 192 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Acc. factor PE | 2 |
| Ref. lines PE | 52 |
| Acc. factor 3D | 1 |
| Ref. lines 3D | 16 |
| Reference Scan Mode | GRE/separate |
| EmptyIceProgram | Off |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | On |
| Intensity | Weak |
| Slope | 25 |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Saturation mode | Standard |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 |
| Freq. adjust | Off |
| Assume Silicone | Off |
| ? Ref. amplitude 1H | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L3.3 A23.3 F7.6 |
| ! Orientation | Sagittal |
| ! Rotation | 4.10 deg |
| ! F >> H | 60 mm |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |

Composing

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 3D |
| Elliptical scanning | Off |
| Reordering | Linear |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Bandwidth | 1240 Hz/Px |
| Echo spacing | 1.01 ms |
| EPI factor | 16 |
| Segmentation | 6 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slab-sel. |
| RF spoiling | On |
| PATRef FA | 5 deg |
| RF duration | 2560 us |
| RF BWT product | 30 |
| Ernst T1 | 1300 ms |
| PATRef prep. shots | 200 |
| Volume dummy shots | 0 |
| Dummy Measurements | 0 |
| Integrated PC | Off |
| Invert PE | Off |
| Water Exc. | -none- |
| Phase Correction | per Blade |
| EPI rise time factor | 1.10 |
| FFT scale factor | 1.0 |
| Mosaic DICOMs | On |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\ep3D_0p85_R2x1_TE8p04_EPIfac10_B\

TA: 10:17 PAT: 2 Voxel size: 0.9×0.9×3.0 mm Rel. SNR: 1.00 USER: dzne_ep3d_fmri

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 |
| Position | L3.1 A36.3 F6.3 |
| Orientation | T > C-4.1 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Slab Scale | -10 % |
| Slices per slab | 16 |
| FoV read | 164 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.00 mm |
| TR | 2800 ms |
| TE 1 | 8.04 ms |
| Averages | 1 |
| Multi-echo Shots | 1 |
| Filter | Raw filter |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| Multi-echo spacing | 11.32 ms |
| MTC | Off |
| Magn. preparation | None |
| TI | 900 ms |
| Flip angle | 9 deg |
| Fat suppr. | None |
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 218 |
| Pause after meas. | 0.0 s |

Resolution

| | |
|---|---|
| Base resolution | 192 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Interpolation | Off |
| PAT mode | GRAPPA |
| Acc. factor PE | 2 |
| Ref. lines PE | 52 |
| Acc. factor 3D | 1 |
| Ref. lines 3D | 16 |
| Reference Scan Mode | GRE/separate |
| EmptyIceProgram | Off |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | On |
| Intensity | Weak |
| Slope | 25 |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Saturation mode | Standard |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 |
| Freq. adjust | Off |
| Assume Silicone | Off |
| ? Ref. amplitude 1H | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L3.3 A23.3 F7.6 |
| ! Orientation | Sagittal |
| ! Rotation | 4.10 deg |
| ! F >> H | 60 mm |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |

Composing

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 3D |
| Elliptical scanning | Off |
| Reordering | Linear |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Bandwidth | 1302 Hz/Px |
| Echo spacing | 1.03 ms |
| EPI factor | 10 |
| Segmentation | 10 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slab-sel. |
| RF spoiling | On |
| PATRef FA | 5 deg |
| RF duration | 2560 us |
| RF BWT product | 30 |
| Ernst T1 | 1300 ms |
| PATRef prep. shots | 200 |
| Volume dummy shots | 0 |
| Dummy Measurements | 0 |
| Integrated PC | Off |
| Invert PE | Off |
| Water Exc. | -none- |
| Phase Correction | per Blade |
| EPI rise time factor | 1.10 |
| FFT scale factor | 1.0 |
| Mosaic DICOMs | On |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\gre_B0_sag

TA: 0:59 Voxel size: 1.1×1.1×2.0 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 20 |
| Dist. factor | 20 % |
| Position | L3.8 A18.3 F7.5 |
| Orientation | S > T-1.0 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 150.0 ms |
| TE 1 | 3.06 ms |
| TE 2 | 4.08 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| MTC | Off |
| Flip angle | 19 deg |
| Fat suppr. | None |
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Off |

Resolution

| | |
|---|---|
| Base resolution | 190 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Special sat. | None |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L3.3 A23.3 F7.6 |
| ! Orientation | Sagittal |
| ! Rotation | 4.10 deg |
| ! F >> H | 60 mm |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |

Composing

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Bandwidth | 797 Hz/Px |
| Flow comp. | No |
| RF pulse type | Normal |
| Gradient mode | Fast |
| RF spoiling | On |

\\USER\Alan\History\20230811_1400_Traveling_Spine_CoilQA_fMRI\gre_B0_tra

TA: 0:59 Voxel size: 1.1×1.1×3.0 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

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

| | |
|---|---|
| Slice group 1 | |
| Slices | 16 |
| Dist. factor | 0 % |
| Position | L3.1 A36.3 F6.3 |
| Orientation | T > C-4.1 |
| Phase enc. dir. | A >> P |
| Rotation | 0.00 deg |
| Phase oversampling | 0 % |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.0 mm |
| TR | 150.0 ms |
| TE 1 | 3.06 ms |
| TE 2 | 4.08 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | None |
| Coil elements | C10-22;Ch1-9 |

Contrast

| | |
|---|---|
| MTC | Off |
| Flip angle | 19 deg |
| Fat suppr. | None |
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Off |

Resolution

| | |
|---|---|
| Base resolution | 190 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |
| Raw filter | Off |
| Elliptical filter | Off |

Geometry

| | |
|---|---|
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Special sat. | None |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

System

| | |
|---|---|
| C15 | On |
| C16 | On |
| C17 | On |
| C18 | On |
| C19 | On |
| C20 | On |
| C21 | On |
| C22 | On |
| Ch1 | On |
| Ch2 | On |
| Ch3 | On |
| Ch4 | On |
| Ch5 | On |
| Ch6 | On |
| Ch7 | On |
| Ch8 | On |
| Ch9 | On |
| C10 | On |
| C11 | On |
| C12 | On |
| C13 | On |
| C14 | 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 | 0.000 V |
| Adjustment Tolerance | Auto |
| Adjust volume | |
| ! Position | L3.3 A23.3 F7.6 |
| ! Orientation | Sagittal |
| ! Rotation | 4.10 deg |
| ! F >> H | 60 mm |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |

Composing

Sequence

| | |
|---|---|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Bandwidth | 797 Hz/Px |
| Flow comp. | No |
| RF pulse type | Normal |
| Gradient mode | Fast |
| RF spoiling | On |

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