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\\DEV **VCAL** THS_fMRI_coilQA COILQA_fMRI_RB_20230707 localizer rb tfl_sag_2p5mmISO_largeFOV_ISO tfl_sag_2p5mmISO_largeFOV_REFVOLoptC4_380 Dream2D_sag_2p5mmISO_largeFOV Dream2D_sag_2p5mmISO_mediumFOV Dream2D_sag_2p5mmISO_mediumFOV_REFVOLopt_0P66_2 Dream2D_sag_2p5mmISO_mediumFOV_REFVOL_HWLIM_50 coilQA_sag_FH_1p5x1p5x2mm_largeFOV coilQA_sag_FH_1p5x1p5x2mm_smallFOV coilQA_tra_RL_0p5x0p5x5mm gre_2mmISO_multichannel_uncomb tfl_sag_2p5mmISO_largeFOV_REFVOLoptC4_380 tfl_sag_2p5mmlSO_largeFOV_REFVOLoptC4C5_434 t1_mp2rage_cor_nonSelHS1_0.7iso_OPT434_RUN370 ep2d_lgFOVc45_0p85_R2PF6_TE30_BW1132_FA65 dzne_ep3d_fmri_EPI16 dzne_ep3d_fmri_EPI10 gre_B0_sag gre_B0_tra

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\localizer_rb

TA: 0:18 PM: REF Voxel size: 0.5×0.5×5.0 mmPAT: Off Rel. SNR: 1.00 : qfl

Properties

| Prio recon | On |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | On |
| Load images to graphic segments | On |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| - Itoutine | |
|--------------------|-----------------------|
| Slice group | 1 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R2.9 A15.4 F49.8 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R15.8 A13.6 F49.8 mm |
| Orientation | Coronal |
| Phase enc. dir. | F >> H |
| Slice group | 3 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R11.0 A7.5 F38.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 25 % |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 7.7 ms |
| TE | 3.67 ms |
| Averages | 1 |
| Concatenations | 9 |
| Filter | Distortion Corr.(3D), |
| | Elliptical filter |
| Coil elements | CSP |
| | |

Contrast - Common

| TR | 7.7 ms |
|-------------------|---------|
| TE | 3.67 ms |
| TD | 0 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 20 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |

Contrast - Dynamic

| Averages | 1 |
|----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Contrast - Dynamic

Multiple series

| <u> </u> | | |
|-----------------------|---------|--|
| Resolution - Common | | |
| FoV read | 280 mm | |
| FoV phase | 100.0 % | |
| Slice thickness | 5.0 mm | |
| Base resolution | 256 | |
| Phase resolution | 75 % | |
| Phase partial Fourier | Off | |
| Interpolation | On | |

Each measurement

Resolution - iPAT

| ĺ | PAT mode | None |
|---|---------------|--------|
| | 1 7 (1 111000 | 140110 |

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off | |
|-------------------|-----|--|
| Elliptical filter | On | |

Geometry - Common

| Slice group | 1 |
|------------------|----------------------|
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R2.9 A15.4 F49.8 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R15.8 A13.6 F49.8 mm |
| Orientation | Coronal |
| Phase enc. dir. | F >> H |
| Slice group | 3 |
| Slices | 3 |
| Dist. factor | 50 % |
| Position | R11.0 A7.5 F38.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 7.7 ms |
| Multi-slice mode | Sequential |
| Series | Interleaved |
| Concatenations | 9 |
| | |

Geometry - AutoAlign

| Slice group | 1 |
|-----------------|---------------------|
| Position | R2.9 A15.4 F49.8 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |

Geometry - AutoAlign

| Position | R15.8 A13.6 F49.8 mm |
|---------------------|----------------------|
| Orientation | Coronal |
| Phase enc. dir. | F >> H |
| Slice group | 3 |
| Position | R11.0 A7.5 F38.4 mm |
| Orientation | Transversal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | R2.9 A15.4 F49.8 |
| R | 2.9 mm |
| A | 15.4 mm |
| F | 49.8 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |
| | |

Geometry - Saturation

| Saturation mode | Standard |
|-----------------|----------|
| Fat suppr. | None |
| Water suppr. | None |
| Special sat. | None |

Geometry - Tim CT

| Tim CT mode | Off |
|-----------------|---------|
| Slices | 3 |
| Slice thickness | 5.0 mm |
| Dist. factor | 50 % |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Segments | 1 |

System - Miscellaneous

| Positioning mode | REF |
|---------------------|----------------------|
| Table position | F |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Off - AutoCoilSelect |

System - Adjustments

| B0 Shim mode | Tune up |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.0 A25.1 F32.6 mm |
|---------------|---------------------|
| ! Orientation | Transversal |
| ! Rotation | 0.00 deg |
| ! A >> P | 175 mm |
| ! R >> L | 201 mm |
| ! F >> H | 259 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|-------------------|----------------|
| Correction factor | 1 |

System - Tx/Rx

| Gain | High |
|---------------------|---------|
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|--------|
| TR | 7.7 ms |
| Concatenations | 9 |
| Segments | 1 |

Physio - Cardiac

| Magn. preparation | None |
|-------------------|---------|
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 280 mm |
| FoV phase | 100.0 % |
| Phase resolution | 75 % |

Physio - PACE

| Resp. control | Off |
|----------------|-----|
| Concatenations | 9 |

Inline - Common

| Subtract | Off |
|----------------------|-----|
| Measurements | 1 |
| StdDev | Off |
| Liver registration | Off |
| Save original images | On |

Inline - MIP

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

Inline - Soft Tissue

| Wash - In | Off |
|--------------|-----|
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| Measurements | 1 |

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | On |
|---------------------|------------|
| Dimension | 2D |
| Phase stabilisation | Off |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Flow comp. | No |
| Multi-slice mode | Sequential |
| Bandwidth | 320 Hz/Px |

Sequence - Part 2

| Segments | 1 |
|--------------------------|--------|
| Acoustic noise reduction | Active |

SIEMENS MAGNETOM Terra

Sequence - Part 2

| RF pulse type | Normal |
|---------------|------------|
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

| Mode | Off |
|------|-----|

$\verb|\DEV|VCAL|THS_fMRI_coilQA|COILQA_fMRI_RB_20230707| tfl_sag_2p5mmlSO_largeFOV_ISO| the same of the$

TA: 1:10 PM: ISO Voxel size: 2.4×2.4×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|----------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| TE | 2.31 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 34420.0 ms |
|-------------------------|------------|
| TE | 2.31 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. Water suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-----------------|------------------|
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| FoV read | 340 mm |
|-----------------------|--------|
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| Base resolution | 144 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| PAT mode | None | |
|--------------------------|------|--|
| Resolution - Filter Imag | е | |
| Image Filter | Off | |
| Distortion Corr. | On | |
| Mode | 3D | |
| Unfiltered images | On | |
| Prescan Normalize | Off | |
| Normalize | Off | |
| B1 filter | Off | |

Resolution - Filter Rawdata

| Raw filter | Off | |
|-------------------|-----|--|
| Elliptical filter | Off | |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |
| | |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H4.3 |
| L | 1.3 mm |
| Α | 7.5 mm |
| Н | 4.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

| Positioning mode | ISO |
|------------------|--------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |

| Transversal | F >> H |
|---------------------|----------------|
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

Sequence - Part 2

| RF spoiling | On |
|--------------|----|
| Turbo factor | 88 |

Sequence - Assistant

System - Adjustments

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| Position | L0.1 A7.4 H4.3 mm |
|-------------|-------------------|
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 208 mm |
| F >> H | 341 mm |
| R >> L | 140 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ? Ref. amplitude 1H | 0.000 V |

Inline - Common

| Subtract | Off |
|----------------------|-----|
| Measurements | 1 |
| StdDev | Off |
| Save original images | On |

Inline - MIP

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

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | Off |
|------------------|-------------|
| Dimension | 2D |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Echo spacing | 5.1 ms |
| Bandwidth | 400 Hz/Px |

Sequence - Part 2

| RF pulse type | Low SAR |
|---------------|------------|
| Gradient mode | Normal |
| Excitation | Slice-sel. |

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\tfl_sag_2p5mmlSO_largeFOV_REFVOL optC4_380

TA: 1:10 PM: ISO Voxel size: 2.4×2.4×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

| Prio recon | Off |
|-----------------------------------|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|----------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| TE | 2.31 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 34420.0 ms |
|-------------------|------------|
| TE | 2.31 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-----------------|------------------|
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| FoV read | 340 mm | |
|-----------------------|--------|--|
| FoV phase | 61.1 % | |
| Slice thickness | 2.5 mm | |
| Base resolution | 144 | |
| Phase resolution | 100 % | |
| Phase partial Fourier | Off | |

Resolution - Common

| Interpolation | Off | |
|---------------|-----|--|
| interpolation | Oil | |

Resolution - iPAT

| PAT mode None |
|---------------|
|---------------|

Resolution - Filter Image

| Image Filter | Off | |
|-------------------|-----|--|
| Distortion Corr. | On | |
| Mode | 3D | |
| Unfiltered images | On | |
| Prescan Normalize | Off | |
| Normalize | Off | |
| B1 filter | Off | |

Resolution - Filter Rawdata

| Raw filter | Off | |
|-------------------|-----|--|
| Elliptical filter | Off | |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H4.3 |
| L | 1.3 mm |
| A | 7.5 mm |
| Н | 4.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |
| | |

| ſ | Positioning mode | ISO | |
|---|------------------|-----|--|
| | | | |

| Table position | Н |
|---------------------|----------------|
| Table position | 4 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |
| - | |

System - Adjustments

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| Position | L0.1 A7.4 H4.3 mm |
|----------------------------|-------------------|
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P F >> H R >> L | 208 mm |
| F >> H | 341 mm |
| R >> L | 140 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 380.000 V |

Inline - Common

| Subtract | Off | |
|----------------------|-----|--|
| Measurements | 1 | |
| StdDev | Off | |
| Save original images | On | |

Inline - MIP

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

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | Off |
|------------------|-------------|
| Dimension | 2D |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Echo spacing | 5.1 ms |
| Bandwidth | 400 Hz/Px |

Sequence - Part 2

| RF pulse type | Low SAR |
|---------------|------------|
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 88 |

| Mode | Off |
|------|-----|
| | |

$\verb|\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\\| Dream 2D_sag_2p 5 mm | SO_large FOV_large FOV_larg$

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 30e5ea5

Properties

| Prio recon | Off |
|-----------------------------------|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|-----------------|----------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| FoV read | 384 mm |
| FoV phase | 46.1 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.18 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 6000 ms |
|--------------|---------|
| TE 1 | 2.04 ms |
| TE 2 | 3.18 ms |
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |

Contrast - Dynamic

| Averages | 1 |
|----------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| FoV read | 384 mm |
|-----------------------|--------|
| FoV phase | 46.1 % |
| Slice thickness | 2.5 mm |
| Base resolution | 152 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| PAT mode | None |
|----------|------|
| | |

Resolution - Filter Image

| Image Filter | Off | |
|------------------|-----|--|
| Distortion Corr. | On | |

Resolution - Filter Image

| Mode | 3D |
|-------------------|-----|
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 384 mm |
| FoV phase | 46.1 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 11 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H0.3 |
| L | 1.3 mm |
| A | 7.5 mm |
| Н | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|----------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | R0.9 A6.5 H3.6 mm |
|---------------|-------------------|
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! A >> P | 183 mm |
| ! F >> H | 389 mm |
| ! R >> L | 29 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 380.000 V |

Sequence - Part 1

| Introduction | On |
|------------------|------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Multi-slice mode | Sequential |
| Bandwidth | 910 Hz/Px |

Sequence - Part 2

| Echo train duration | 347 ms |
|---------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 70 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Preparation scans | 2 |
|-------------------|---------|
| Preparation loops | 0 |
| Sample T1 | 2000 ms |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| Time-BW-Product | 3.2 |
| Timing Scheme | STE* |
| Mixing Time | 1140 us |
| FFT Scale | 10 |
| Calculate FlipMap | On |
| HDR DICOMs | Off |
| STE<->FID Spoiler | Off |
| Scale risetime | 1.20 |

| Mode | Off |
|------|-----|

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\Dream2D_sag_2p5mmlSO_mediumFO \\V

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 30e5ea5

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|-----------------|----------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 6000 ms |
|--------------|---------|
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |

Contrast - Dynamic

| Averages | 1 |
|----------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| FoV read | 200 mm | |
|-----------------------|---------|--|
| FoV phase | 100.0 % | |
| Slice thickness | 2.5 mm | |
| Base resolution | 80 | |
| Phase resolution | 100 % | |
| Phase partial Fourier | Off | |
| Interpolation | Off | |

Resolution - iPAT

| PAT mode | None |
|----------|------|
| | |

Resolution - Filter Image

| Image Filter | Off |
|--------------|-----|
|--------------|-----|

Resolution - Filter Image

| Distortion Corr. | On |
|-------------------|-----|
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 11 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H0.3 |
| L | 1.3 mm |
| Α | 7.5 mm |
| Н | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| • | |
|---------------------|----------------|
| Positioning mode | FIX |
| Table position | Н |
| Table position | 4 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |

| Adjustment Tolerance | Auto | |
|----------------------|------|--|

System - Adjust Volume

| ! Position | L1.8 A7.0 H3.5 mm |
|---------------|-------------------|
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! A >> P | 203 mm |
| ! F >> H | 198 mm |
| ! R >> L | 29 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 380.000 V |

Sequence - Part 1

| Introduction | On |
|------------------|------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Multi-slice mode | Sequential |
| Bandwidth | 1010 Hz/Px |

Sequence - Part 2

| Echo train duration | 386 ms |
|---------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 80 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Preparation scans | 2 |
|-------------------|---------|
| Preparation loops | 0 |
| Sample T1 | 2000 ms |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| Time-BW-Product | 3.2 |
| Timing Scheme | STE* |
| Mixing Time | 1060 us |
| FFT Scale | 10 |
| Calculate FlipMap | On |
| HDR DICOMs | Off |
| STE<->FID Spoiler | Off |
| Scale risetime | 1.20 |

| Mada | 04 |
|------|-----|
| Mode | Off |

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 30e5ea5

Properties

| Prio recon | Off |
|-----------------------------------|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|-----------------|----------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 6000 ms |
|--------------|---------|
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |

Contrast - Dynamic

| Averages | 1 |
|----------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| FoV read | 200 mm | |
|-----------------------|---------|--|
| FoV phase | 100.0 % | |
| Slice thickness | 2.5 mm | |
| Base resolution | 80 | |
| Phase resolution | 100 % | |
| Phase partial Fourier | Off | |
| Interpolation | Off | |

Resolution - iPAT

| | | _ |
|----------|------|---|
| PAT mode | None | |

Resolution - Filter Image

| Image Filter | Off | |
|--------------|-----|--|
|--------------|-----|--|

Resolution - Filter Image

| Distortion Corr. | On |
|-------------------|-----|
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 11 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H0.3 |
| L | 1.3 mm |
| A | 7.5 mm |
| Н | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|----------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |

| Adjustment Tolerance | Auto | |
|----------------------|------|--|

System - Adjust Volume

| ! Position | L1.8 A7.0 H3.5 mm |
|---------------|-------------------|
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! A >> P | 203 mm |
| ! F >> H | 198 mm |
| ! R >> L | 29 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 253.300 V |

Sequence - Part 1

| Introduction | On |
|------------------|------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Multi-slice mode | Sequential |
| Bandwidth | 1010 Hz/Px |

Sequence - Part 2

| Echo train duration | 386 ms |
|---------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 80 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Preparation scans | 2 |
|-------------------|---------|
| Preparation loops | 0 |
| Sample T1 | 2000 ms |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| Time-BW-Product | 3.2 |
| Timing Scheme | STE* |
| Mixing Time | 1060 us |
| FFT Scale | 10 |
| Calculate FlipMap | On |
| HDR DICOMs | Off |
| STE<->FID Spoiler | Off |
| Scale risetime | 1.20 |

| Mode | Off |
|------|-----|

TA: 1:08 PM: FIX Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : 30e5ea5

Properties

| Prio recon | Off |
|-----------------------------------|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|-----------------|----------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Averages | 1 |
| Concatenations | 11 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 6000 ms |
|--------------|---------|
| TE 1 | 2.04 ms |
| TE 2 | 3.10 ms |
| Flip angle 1 | 50 deg |
| Flip angle 2 | 6 deg |

Contrast - Dynamic

| Averages | 1 |
|----------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |

Resolution - Common

| FoV read | 200 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| Base resolution | 80 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| - 1 | | |
|-----|-----------|------|
| | PAT mode | Mana |
| | IPAT Mode | None |
| | | |

Resolution - Filter Image

| Image Filter | Off | |
|--------------|-----|--|
|--------------|-----|--|

Resolution - Filter Image

| Distortion Corr. | On |
|-------------------|-----|
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 11 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.5 mm |
| TR | 6000 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 11 |

Geometry - AutoAlign

| | - |
|---------------------|-------------------|
| Slice group | 1 |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H0.3 |
| L | 1.3 mm |
| Α | 7.5 mm |
| Н | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|----------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |

| Adjustment Tolerance | Auto | |
|----------------------|------|--|
|----------------------|------|--|

System - Adjust Volume

| ! Position | L1.8 A7.0 H3.5 mm |
|---------------|-------------------|
| ! Orientation | Sagittal |
| ! Rotation | 0.00 deg |
| ! A >> P | 203 mm |
| ! F >> H | 198 mm |
| ! R >> L | 29 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 500.000 V |

Sequence - Part 1

| Introduction | On |
|------------------|------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Multi-slice mode | Sequential |
| Bandwidth | 1010 Hz/Px |

Sequence - Part 2

| Echo train duration | 386 ms |
|---------------------|------------|
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 80 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Preparation scans | 2 |
|-------------------|---------|
| Preparation loops | 0 |
| Sample T1 | 2000 ms |
| RF-Duration | 800 us |
| Prep RF-Duration | 400 us |
| Time-BW-Product | 3.2 |
| Timing Scheme | STE* |
| Mixing Time | 1060 us |
| FFT Scale | 10 |
| Calculate FlipMap | On |
| HDR DICOMs | Off |
| STE<->FID Spoiler | Off |
| Scale risetime | 1.20 |

| Mada | 044 |
|------|-----|
| Mode | Off |

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\coilQA_sag_FH_1p5x1p5x2mm_largeF OV

TA: 3:20 PM: FIX Voxel size: 1.5×1.5×2.0 mmRel. SNR: 1.00 : fl

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|-------------------|
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 384 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30.0 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 13 |
| Filter | None |
| Coil elements | CSP |

Contrast - Common

| TR | 30.0 ms |
|--------------|---------|
| TE | 6.0 ms |
| TD | 0 ms |
| MTC | Off |
| Flip angle | 12 deg |
| Fat suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 2 |
|-----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 384 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 256 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - Filter Image

| Image Filter | Off | |
|--------------|-----|--|

Resolution - Filter Image

| Distortion Corr. | Off | |
|-------------------|-----|--|
| Prescan Normalize | Off | |
| Normalize | Off | |
| B1 filter | Off | |

Resolution - Filter Rawdata

| Raw filter | Off | |
|-------------------|-----|--|
| Elliptical filter | Off | |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| FoV read | 384 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30.0 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 13 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H0.3 |
| L | 1.3 mm |
| Α | 7.5 mm |
| Н | 0.3 mm |
| Initial Rotation | 90.00 deg |
| Initial Orientation | Sagittal |

Geometry - Saturation

| Fot ourne | None |
|--------------|------|
| Fat suppr. | None |
| Water suppr. | None |
| Special sat. | None |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|------------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------|----------|
| B1 Shim mode | TrueForm |

| Confirm freq. adjustment | Off |
|--------------------------|------|
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.3 P2.4 F28.5 mm |
|----------------------|--------------------|
| ! Orientation | Sagittal |
| ! Rotation | 82.33 deg |
| ! F >> H ! A >> P | 240 mm |
| ! A >> P | 60 mm |
| ! R >> L | 32 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 380.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|---------|
| TR | 30.0 ms |
| Concatenations | 13 |

Sequence - Part 1

| Introduction | Off |
|------------------|------------|
| Dimension | 2D |
| Contrasts | 1 |
| Multi-slice mode | Sequential |
| Bandwidth | 200 Hz/Px |

Sequence - Part 2

| Gradient mode | Fast |
|---------------|------|
| RF spoiling | On |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| ICE program | IceProgramCoilUtils |
|-------------------------|---------------------|
| Prep. scans duration | 0 ms |
| Optimal SNR | On |
| GFactor | On |
| Rx coil diode switching | On |

| Mode | Off | |
|------|-----|--|

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\coilQA_sag_FH_1p5x1p5x2mm_smallF OV

TA: 1:40 PM: FIX Voxel size: 1.5×1.5×2.0 mmRel. SNR: 1.00 : fl

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|-------------------|
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30.0 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 13 |
| Filter | None |
| Coil elements | CSP |

Contrast - Common

| TR | 30.0 ms |
|-------------------------|---------|
| TE | 6.0 ms |
| TD | 0 ms |
| MTC | Off |
| Flip angle | 12 deg |
| Fat suppr. Water suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 2 |
|-----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| Interpolation | Off |
|-----------------------|---------|
| Phase partial Fourier | Off |
| Phase resolution | 100 % |
| Base resolution | 128 |
| Slice thickness | 2.0 mm |
| FoV phase | 100.0 % |
| FoV read | 192 mm |

Resolution - Filter Image

| | 0" | |
|---------------|-----|--|
| limada Filtar | Off | |
| Image Filter | OII | |

Resolution - Filter Image

| Distortion Corr. | Off |
|-------------------|-----|
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off | |
|-------------------|-----|--|
| Elliptical filter | Off | |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 13 |
| Dist. factor | 20 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 30.0 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 13 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | H >> F |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H0.3 |
| L | 1.3 mm |
| Α | 7.5 mm |
| Н | 0.3 mm |
| Initial Rotation | 90.00 deg |
| Initial Orientation | Sagittal |

Geometry - Saturation

| Fat suppr. | None |
|--------------|------|
| Water suppr. | None |
| Special sat. | None |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|------------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------|----------|
| B1 Shim mode | TrueForm |

| Confirm freq. adjustment | Off |
|--------------------------|------|
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.3 P2.4 F28.5 mm |
|---------------|--------------------|
| ! Orientation | Sagittal |
| ! Rotation | 82.33 deg |
| ! F >> H | 240 mm |
| ! A >> P | 60 mm |
| ! R >> L | 32 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 380.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|---------|
| TR | 30.0 ms |
| Concatenations | 13 |

Sequence - Part 1

| Introduction | Off |
|------------------|------------|
| Dimension | 2D |
| Contrasts | 1 |
| Multi-slice mode | Sequential |
| Bandwidth | 200 Hz/Px |

Sequence - Part 2

| Gradient mode | Fast |
|---------------|------|
| RF spoiling | On |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| ICE program | IceProgramCoilUtils |
|-------------------------|---------------------|
| Prep. scans duration | 0 ms |
| Optimal SNR | On |
| GFactor | On |
| Rx coil diode switching | On |

| Mode | Off | |
|------|-----|--|

$\verb|\DEV|\VCAL\THS_fMRI_coilQA|\COILQA_fMRI_RB_20230707\\ \verb|\coilQA_tra_RL_0p5x0p5x5mm||$

TA: 2:41 PM: FIX Voxel size: 0.5×0.5×5.0 mmRel. SNR: 1.00 : fl

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|-------------------|
| Slices | 7 |
| Dist. factor | 300 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Transversal |
| Phase enc. dir. | R >> L |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 30.0 ms |
| TE | 6.0 ms |
| Averages | 2 |
| Concatenations | 7 |
| Filter | None |
| Coil elements | CSP |

Contrast - Common

| | - |
|----------------------------|--------------|
| TR | 30.0 ms |
| TE | 6.0 ms |
| TD | 0 ms |
| MTC | Off |
| Flip angle | 12 deg |
| Fat suppr. Water suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 2 |
|-----------------|------------|
| Averaging mode | Short term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 192 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| Base resolution | 384 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - Filter Image

| Image Filter | Off | |
|------------------|-----|--|
| Distortion Corr. | Off | |

Resolution - Filter Image

| Prescan Normalize | Off |
|-------------------|-----|
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 7 |
| Dist. factor | 300 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Transversal |
| Phase enc. dir. | R >> L |
| FoV read | 192 mm |
| FoV phase | 100.0 % |
| Slice thickness | 5.0 mm |
| TR | 30.0 ms |
| Multi-slice mode | Sequential |
| Series | Ascending |
| Concatenations | 7 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Transversal |
| Phase enc. dir. | R >> L |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H0.3 |
| L | 1.3 mm |
| A | 7.5 mm |
| Н | 0.3 mm |
| Initial Rotation | 90.00 deg |
| Initial Orientation | Transversal |

Geometry - Saturation

| Fat suppr. | None |
|--------------|------|
| Water suppr. | None |
| Special sat. | None |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|------------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Adaptive Combine |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |

| Assume Silicone | Off |
|----------------------|------|
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.3 P2.4 F28.5 mm |
|---------------|--------------------|
| ! Orientation | Sagittal |
| ! Rotation | 82.33 deg |
| ! F >> H | 240 mm |
| ! A >> P | 60 mm |
| ! R >> L | 32 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 380.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|---------|
| TR | 30.0 ms |
| Concatenations | 7 |

Sequence - Part 1

| Introduction | Off |
|------------------|------------|
| Dimension | 2D |
| Contrasts | 1 |
| Multi-slice mode | Sequential |
| Bandwidth | 200 Hz/Px |

Sequence - Part 2

| Gradient mode | Fast |
|---------------|------|
| RF spoiling | On |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| ICE program | IceProgramCoilUtils |
|-------------------------|---------------------|
| Prep. scans duration | 0 ms |
| Optimal SNR | On |
| GFactor | On |
| Rx coil diode switching | On |

| Mode | Off |
|------|-----|

$\verb|\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\gre_2mmlSO_multichannel_uncomb| \\$

TA: 1:21 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: Off Rel. SNR: 1.00 : fl

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|----------------------|
| Slices | 44 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Slice thickness | 2.0 mm |
| TR | 550.0 ms |
| TE | 3.80 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 550.0 ms |
|-------------------|----------|
| TE | 3.80 ms |
| MTC | Off |
| Magn. preparation | None |
| Flip angle | 30 deg |
| Fat suppr. | None |
| Water suppr. | None |
| SWI | Off |

Contrast - Dynamic

| Averages | 1 |
|-----------------|-------------|
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 384 mm |
|-----------------------|--------|
| FoV phase | 75.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 192 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |
| | |

Resolution - iPAT

| PAT mode | None |
|----------|------|

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off | ٦ |
|-------------------|-----|---|
| Elliptical filter | Off | |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 44 |
| Dist. factor | 0 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Slice thickness | 2.0 mm |
| TR | 550.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|-------------------|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H0.3 |
| L | 1.3 mm |
| A | 7.5 mm |
| Н | 0.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

Geometry - Saturation

| Saturation mode | Standard |
|-----------------|----------|
| Fat suppr. | None |
| Water suppr. | None |
| Special sat. | None |

Geometry - Tim CT

| Tim CT mode | Off |
|-----------------|--------|
| Slices | 44 |
| Slice thickness | 2.0 mm |
| Dist. factor | 0 % |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Segments | 1 |

| Positioning mode | FIX |
|------------------|-------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S-C-T |

| Sagittal | R >> L |
|---------------------|----------------|
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | On |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

System - Adjustments

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| Position | L1.3 A7.5 H4.3 mm |
|----------------------------|-------------------|
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P F >> H R >> L | 288 mm |
| F >> H | 384 mm |
| | 88 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 380.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|----------|
| TR | 550.0 ms |
| Concatenations | 1 |
| Segments | 1 |

Physio - Cardiac

| Magn. preparation | None |
|-------------------|--------|
| Fat suppr. | None |
| Dark blood | Off |
| FoV read | 384 mm |
| FoV phase | 75.0 % |
| Phase resolution | 100 % |

Physio - PACE

| Resp. control | Off |
|----------------|-----|
| Concatenations | 1 |

Inline - Common

| Subtract | Off |
|----------------------|-----|
| Measurements | 1 |
| StdDev | Off |
| Liver registration | Off |
| Save original images | On |

Inline - MIP

| MIP-Sag | Off |
|---------|-----|
| MIP-Cor | Off |
| MIP-Tra | Off |

Inline - MIP

| MIP-Time | Off |
|----------------------|-----|
| Save original images | On |

Inline - Soft Tissue

| Wash - In | Off |
|--------------|-----|
| Wash - Out | Off |
| TTP | Off |
| PEI | Off |
| MIP - time | Off |
| Measurements | 1 |

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | On |
|---------------------|-------------|
| Dimension | 2D |
| Phase stabilisation | On |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Bandwidth | 320 Hz/Px |

Sequence - Part 2

| Segments | 1 |
|--------------------------|------------|
| Acoustic noise reduction | None |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slice-sel. |
| RF spoiling | On |

Sequence - Nuclei

| _ | | |
|-----------------------|------|--|
| TX/RX Nucleus | 1H | |
| TX/RX delta frequency | 0 Hz | |
| TX Nucleus | None | |
| TX delta frequency | 0 Hz | |
| Coil elements | CSP | |

| Mode | Off | |
|------|-----|--|
| | | |

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\tfl_sag_2p5mmlSO_largeFOV_REFVOL optC4_380

TA: 1:10 PM: ISO Voxel size: 2.4×2.4×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

| Prio recon | Off |
|-----------------------------------|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further | Off |
| preparation | |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|----------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| TE | 2.31 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR TE | 34420.0 ms |
|-------------------|------------|
| TE | 2.31 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-----------------|------------------|
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| FoV read | 340 mm |
|-----------------------|--------|
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| Base resolution | 144 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |

Resolution - Common

| Interpolation Off |
|-------------------|
|-------------------|

Resolution - iPAT

| PAT mode None |
|---------------|
|---------------|

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------------------|--|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H4.3 |
| L | 1.3 mm |
| A | 7.5 mm |
| Н | 4.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |
| L A H Initial Rotation | 1.3 mm 7.5 mm 4.3 mm 0.00 deg |

| Positioning mode | ISO | |
|------------------|-----|--|
| | | |

| - | |
|---------------------|----------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |
| | |

System - Adjustments

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| Position | L0.1 A7.4 H4.3 mm |
|-------------|-------------------|
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 208 mm |
| F >> H | 341 mm |
| R >> L | 140 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 380.000 V |

Inline - Common

| Subtract | Off | |
|----------------------|-----|--|
| Measurements | 1 | |
| StdDev | Off | |
| Save original images | On | |

Inline - MIP

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

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | Off |
|------------------|-------------|
| Dimension | 2D |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Echo spacing | 5.1 ms |
| Bandwidth | 400 Hz/Px |

Sequence - Part 2

| RF pulse type | Low SAR |
|---------------|------------|
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 88 |

| Mode | Off |
|------|-----|
| | |

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\tfl_sag_2p5mmISO_largeFOV_REFVOL optC4C5_434

TA: 1:10 PM: ISO Voxel size: 2.4×2.4×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |
| | |

Routine

| Slice group | 1 |
|--------------------|----------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| TE | 2.31 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR TE | 34420.0 ms |
|-------------------|------------|
| TE | 2.31 ms |
| Magn. preparation | None |
| Flip angle | 10 deg |
| Fat suppr. | None |
| Water suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-----------------|------------------|
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| FoV read | 340 mm |
|-----------------------|--------|
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| Base resolution | 144 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| | |

Resolution - Common

| Interpolation Off |
|-------------------|
|-------------------|

Resolution - iPAT

| PAT mode | None |
|----------|------|

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | On |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|-------------------|
| Slices | 28 |
| Dist. factor | 100 % |
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Slices | 28 |
| Dist. factor | 100 % |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 340 mm |
| FoV phase | 61.1 % |
| Slice thickness | 2.5 mm |
| TR | 34420.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------------------|--|
| Position | L1.3 A7.5 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| Slice group | 2 |
| Position | R1.2 A7.4 H4.3 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.3 A7.5 H4.3 |
| L | 1.3 mm |
| A | 7.5 mm |
| Н | 4.3 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |
| L A H Initial Rotation | 1.3 mm 7.5 mm 4.3 mm 0.00 deg |

| Positioning mode | ISO | |
|------------------|-----|--|
|------------------|-----|--|

| Table position | Н |
|---------------------|----------------|
| Table position | 4 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

System - Adjustments

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| Position | L0.1 A7.4 H4.3 mm |
|----------------------------|-------------------|
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P F >> H R >> L | 208 mm |
| F >> H | 341 mm |
| R >> L | 140 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 434.000 V |

Inline - Common

| Subtract | Off | |
|----------------------|-----|--|
| Measurements | 1 | |
| StdDev | Off | |
| Save original images | On | |

Inline - MIP

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

Inline - Composing

| Distortion Corr. | On |
|-------------------|----|
| Mode | 3D |
| Unfiltered images | On |

Sequence - Part 1

| Introduction | Off |
|------------------|-------------|
| Dimension | 2D |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Echo spacing | 5.1 ms |
| Bandwidth | 400 Hz/Px |

Sequence - Part 2

| RF pulse type | Low SAR |
|---------------|------------|
| Gradient mode | Normal |
| Excitation | Slice-sel. |
| RF spoiling | On |
| Turbo factor | 88 |

| Mode | Off |
|------|-----|
| | |

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\t1_mp2rage_cor_nonSelHS1_0.7iso_O PT434_RUN370

TA: 8:47 PM: FIX Voxel size: 0.7×0.7×0.7 mmPAT: 2 Rel. SNR: 1.00 : tfl

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slab group | 1 |
|--------------------|----------------------|
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | R1.7 A3.6 F13.1 mm |
| Orientation | C > T-0.3 > S-0.1 |
| Phase enc. dir. | R >> L |
| AutoAlign | |
| Phase oversampling | 0 % |
| Slice oversampling | 0.0 % |
| Slices per slab | 192 |
| FoV read | 260 mm |
| FoV phase | 65.8 % |
| Slice thickness | 0.70 mm |
| TR | 5000.0 ms |
| TE | 2.13 ms |
| Averages | 1 |
| Concatenations | 1 |
| Filter | Distortion Corr.(3D) |
| Coil elements | CSP |

Contrast - Common

| TR | 5000.0 ms |
|-------------------|-------------|
| TE | 2.13 ms |
| Magn. preparation | Non-sel. IR |
| TI 1 | 700 ms |
| TI 2 | 2400 ms |
| Flip angle 1 | 4.0 deg |
| Flip angle 2 | 5.0 deg |
| Fat suppr. | None |
| Water suppr. | None |
| | |

Contrast - Dynamic

| Averages | 1 |
|-----------------|------------------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 1 |
| Multiple series | Each measurement |

Resolution - Common

| | FoV read | 260 mm |
|---|------------------|---------|
| | FoV phase | 65.8 % |
| 1 | Slice thickness | 0.70 mm |
| I | Base resolution | 368 |
| | Phase resolution | 100 % |
| 1 | Slice resolution | 100 % |

Resolution - Common

| Phase part | ial Fourier | 6/8 | |
|---------------|-------------|-----|--|
| Slice partia | al Fourier | Off | |
| Interpolation | on | Off | |

Resolution - iPAT

| PAT mode | GRAPPA |
|---------------------|------------|
| Accel. factor PE | 2 |
| Ref. lines PE | 28 |
| Accel. factor 3D | 1 |
| Reference scan mode | Integrated |

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | On |
| Mode | 3D |
| Unfiltered images | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off | |
|-------------------|-----|--|
| Elliptical filter | Off | |

Geometry - Common

| Slab group | 1 |
|--------------------|--------------------|
| Slabs | 1 |
| Dist. factor | 50 % |
| Position | R1.7 A3.6 F13.1 mm |
| Orientation | C > T-0.3 > S-0.1 |
| Phase enc. dir. | R >> L |
| Slice oversampling | 0.0 % |
| Slices per slab | 192 |
| FoV read | 260 mm |
| FoV phase | 65.8 % |
| Slice thickness | 0.70 mm |
| TR | 5000.0 ms |
| Multi-slice mode | Single shot |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| Slab group | 1 |
|---------------------|--------------------|
| Position | R1.7 A3.6 F13.1 mm |
| Orientation | C > T-0.3 > S-0.1 |
| Phase enc. dir. | R >> L |
| AutoAlign | |
| Initial Position | R1.7 A3.6 F17.1 |
| R | 1.7 mm |
| A | 3.6 mm |
| F | 17.1 mm |
| Initial Rotation | -0.70 deg |
| Initial Orientation | C > T |
| C > T | -0.3 |
| > S | -0.1 |

Geometry - Navigator

| Positioning mode | FIX |
|---------------------|----------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

System - Adjustments

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L1.0 A2.8 F13.7 mm |
|---------------|--------------------|
| ! Orientation | T > C6.6 |
| ! Rotation | 0.00 deg |
| ! A >> P | 54 mm |
| ! R >> L | 59 mm |
| ! F >> H | 217 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 370.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|-----------------|-----------|
| TR | 5000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| Magn. preparation | Non-sel. IR | |
|-------------------|-------------|--|
| TI 1 | 700 ms | |
| TI 2 | 2400 ms | |
| Fat suppr. | None | |
| Dark blood | Off | |
| FoV read | 260 mm | |
| FoV phase | 65.8 % | |
| Phase resolution | 100 % | |

Physio - PACE

| Resp. control | Off |
|----------------|-----|
| Concatenations | 1 |

Inline - Common

| Subtract | Off |
|----------------------|-----|
| Measurements | 1 |
| StdDev | Off |
| Save original images | On |

Inline - MIP

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

Inline - Composing

| Distortion Corr. | On |
|-------------------|-----|
| Mode | 3D |
| Unfiltered images | Off |

Sequence - Part 1

| Introduction | On |
|---------------------|-------------|
| Dimension | 3D |
| Elliptical scanning | Off |
| Reordering | Linear |
| Asymmetric echo | Allowed |
| Flow comp. | No |
| Multi-slice mode | Single shot |
| Echo spacing | 6.3 ms |
| Bandwidth | 220 Hz/Px |

Sequence - Part 2

| RF pulse type | Normal |
|-------------------------|----------|
| Gradient mode | Normal* |
| Excitation | Non-sel. |
| RF spoiling | On |
| Incr. Gradient spoiling | Off |
| Turbo factor | 192 |

Sequence - Nuclei

| TX/RX Nucleus | 1H |
|-----------------------|------|
| TX/RX delta frequency | 0 Hz |
| TX Nucleus | None |
| TX delta frequency | 0 Hz |
| Coil elements | CSP |

Sequence - Special

| Use Custom Inversion | On |
|----------------------|----------|
| Inv pulse type | HS1 |
| HS pulse dur | 10240 us |
| HS pulse offset | 0 Hz |
| HS flip angle | 360 deg |
| TR_FOCI B1 | 0.00 uT |
| Echo Spacing | 6340 us |
| Denoise Weighting | 100 |

| | | _ |
|--------|-----|---|
| Mode | Off | |
| IVIOUC | Oli | |

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\ep2d_lgFOVc45_0p85_R2PF6_TE30_B \\W1132_FA65

TA: 10:10 PM: FIX Voxel size: 0.9×0.9×3.0 mmPAT: 2 Rel. SNR: 1.00 : epfid

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | On |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------------|--------------------|
| Slices | 16 |
| Dist. factor | 0 % |
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Phase oversampling | 0 % |
| FoV read | 164 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.00 mm |
| TR | 1290 ms |
| TE | 30.00 ms |
| Multi-band accel. factor | 1 |
| Filter | Raw filter |
| Coil elements | CSP |

Contrast - Common

| TR | 1290 ms | |
|-------------------|----------|--|
| TE | 30.00 ms | |
| MTC | Off | |
| Magn. preparation | None | |
| Flip angle | 65 deg | |
| Fat suppr. | None | |

Contrast - Dynamic

| Averaging mode | Long term |
|-----------------|-----------|
| Reconstruction | Magnitude |
| Measurements | 466 |
| Delay in TR | 0 ms |
| Multiple series | Off |

Resolution - Common

| FoV read | 164 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 3.00 mm |
| Base resolution | 192 |
| Phase resolution | 100 % |
| Phase partial Fourier | 6/8 |
| Interpolation | Off |

Resolution - iPAT

| PAT mode | GRAPPA |
|------------------|--------|
| Accel. factor PE | 2 |
| Ref. lines PE | 52 |

Resolution - iPAT

| Reference scan mode | GRE | |
|---------------------------|-----|--|
| Resolution - Filter Image | | |

| | _ |
|-------------------|-----|
| Distortion Corr. | Off |
| Prescan Normalize | Off |

Resolution - Filter Rawdata

| Raw filter | On |
|-------------------|-----|
| Elliptical filter | Off |
| Hamming | Off |

Geometry - Common

| Slice group | 1 |
|--------------------------|--------------------|
| Slices | 16 |
| Dist. factor | 0 % |
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| FoV read | 164 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.00 mm |
| TR | 1290 ms |
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Multi-band accel. factor | 1 |

Geometry - AutoAlign

| , | |
|---------------------|--------------------|
| Slice group | 1 |
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.8 A16.7 H2.7 |
| L | 1.8 mm |
| A | 16.7 mm |
| Н | 2.7 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | T > C |
| T > C | 1.0 |
| > S | 0.0 |

Geometry - Saturation

| Fat suppr. | None |
|--------------|------|
| Special sat. | None |

| Positioning mode | FIX |
|---------------------|----------------|
| Table position | Н |
| Table position | 0 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.2 A8.1 H3.8 mm |
|---------------|-------------------|
| ! Orientation | T > C1.0 |
| ! Rotation | 0.00 deg |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |
| ! F >> H | 60 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 434.000 V |

Physio - Signal1

| 1st Signal/Mode | None |
|--------------------------|---------|
| TR | 1290 ms |
| Multi-band accel. factor | 1 |

BOLD

| GLM Statistics | Off |
|-------------------------|----------|
| Dynamic t-maps | Off |
| Ignore meas. at start | 0 |
| Ignore after transition | 0 |
| Model transition states | On |
| Temp. highpass filter | On |
| 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 |
| Measurements | 466 |
| Delay in TR | 0 ms |
| Multiple series | Off |

Sequence - Part 1

| Introduction | Off |
|-------------------|-------------|
| Contrasts | 1 |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Free echo spacing | Off |
| Echo spacing | 1 ms |
| Bandwidth | 1132 Hz/Px |

Sequence - Part 2

| EPI factor | 192 |
|---------------|------|
| Gradient mode | Fast |
| RF spoiling | Off |

Sequence - Special

| Excite pulse duration | 3840 us |
|--------------------------|----------|
| SENSE1 coil combine | Off |
| Invert RO/PE polarity | Off |
| PF omits higher k-space | Off |
| Disable freq. update | Off |
| Force equal slice timing | Off |
| FFT scale factor | 1.00 |
| GRE iPAT ref. FA | 12.0 deg |
| Physio recording | Legacy |
| Triggering scheme | Standard |

$\verb|\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\dzne_ep3d_fmri_EPI16||$

TA: 10:14 PM: FIX Voxel size: 0.9×0.9×3.0 mmPAT: 2 Rel. SNR: 1.00 : ep3d f015566

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slab group | 1 |
|------------------|--------------------|
| Slabs | 1 |
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| 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 | 11.20 ms |
| Averages | 1 |
| Multi-echo Shots | 1 |
| Filter | Raw filter |
| Coil elements | CSP |

Contrast - Common

| TR | 2300 ms |
|--------------------|----------|
| TE 1 | 11.20 ms |
| Multi-echo spacing | 17.18 ms |
| MTC | Off |
| Magn. preparation | None |
| TI | 900 ms |
| Flip angle | 11 deg |
| Fat suppr. | None |
| | |

Contrast - Dynamic

| Averages | 1 |
|-------------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 264 |
| Pause after meas. | 0.0 s |

Resolution - Common

| FoV read | 164 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 3.00 mm |
| Base resolution | 192 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | Off |
| Slice partial Fourier | Off |
| Interpolation | Off |

Resolution - iPAT

| PAT mode | GRAPPA |
|---------------------|--------------|
| Acc. factor PE | 2 |
| Ref. lines PE | 52 |
| Acc. factor 3D | 1 |
| Ref. lines 3D | 16 |
| Reference Scan Mode | GRE/separate |

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | On | |
|-------------------|-----|--|
| Elliptical filter | Off | |

Geometry - Common

| 1 |
|--------------------|
| 1 |
| L1.8 A16.7 H2.7 mm |
| T > C1.0 |
| A >> P |
| -10 % |
| 16 |
| 164 mm |
| 100.0 % |
| 3.00 mm |
| 2300 ms |
| Interleaved |
| Ascending |
| 1 |
| |

Geometry - AutoAlign

| Slab group | 1 |
|---------------------|--------------------|
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.8 A16.7 H2.7 |
| L | 1.8 mm |
| A | 16.7 mm |
| Н | 2.7 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | T > C |
| T > C | 1.0 |
| > S | 0.0 |

Geometry - Saturation

| Saturation mode | Standard |
|-----------------|----------|
| Fat suppr. | None |

| Positioning mode | FIX |
|------------------|--------|
| Table position | Н |
| Table position | 0 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |

| Transversal | F >> H |
|---------------------|----------------|
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

Sequence - Special

| Mosaic DICOMs | On | |
|----------------------|-----|--|
| Sequence - Assistant | | |
| Mode | Off | |
| | | |

System - Adjustments

| B0 Shim mode | Brain |
|----------------------|----------|
| B1 Shim mode | TrueForm |
| Freq. adjust | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.2 A8.1 H3.8 mm |
|---------------|-------------------|
| ! Orientation | T > C1.0 |
| ! Rotation | 0.00 deg |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |
| ! F >> H | 60 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 434.000 V |

Sequence - Part 1

| Introduction | On |
|---------------------|-------------|
| Dimension | 3D |
| Elliptical scanning | Off |
| Reordering | Linear |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Multi-slice mode | Interleaved |
| Echo spacing | 1.01 ms |
| Bandwidth | 1240 Hz/Px |

Sequence - Part 2

| EPI factor | 16 |
|---------------|-----------|
| Segmentation | 6 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slab-sel. |
| RF spoiling | On |

Sequence - Special

| 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 |

$\verb|\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\dzne_ep3d_fmri_EPI10| \\$

TA: 10:17 PM: FIX Voxel size: 0.9×0.9×3.0 mmPAT: 2 Rel. SNR: 1.00 : ep3d f015566

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | On |
| Start measurements | Single measurement |

Routine

| Slab group | 1 |
|------------------|--------------------|
| Slabs | 1 |
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| 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 | CSP |

Contrast - Common

| TR | 2800 ms |
|--------------------|----------|
| TE 1 | 8.04 ms |
| Multi-echo spacing | 11.32 ms |
| MTC | Off |
| Magn. preparation | None |
| TI | 900 ms |
| Flip angle | 9 deg |
| Fat suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-------------------|-----------|
| Averaging mode | Long term |
| Reconstruction | Magnitude |
| Measurements | 218 |
| Pause after meas. | 0.0 s |

Resolution - Common

| FoV read | 164 mm | |
|-----------------------|---------|--|
| FoV phase | 100.0 % | |
| Slice thickness | 3.00 mm | |
| Base resolution | 192 | |
| Phase resolution | 100 % | |
| Slice resolution | 100 % | |
| Phase partial Fourier | Off | |
| Slice partial Fourier | Off | |
| Interpolation | Off | |

Resolution - iPAT

| PAT mode | GRAPPA |
|---------------------|--------------|
| Acc. factor PE | 2 |
| Ref. lines PE | 52 |
| Acc. factor 3D | 1 |
| Ref. lines 3D | 16 |
| Reference Scan Mode | GRE/separate |

Resolution - Filter Image

| Image Filter | Off |
|-------------------|-----|
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | On |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slab group | 1 |
|------------------|--------------------|
| Slabs | 1 |
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| Slab Scale | -10 % |
| Slices per slab | 16 |
| FoV read | 164 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.00 mm |
| TR | 2800 ms |
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Multi-echo Shots | 1 |

Geometry - AutoAlign

| Slab group | 1 |
|---------------------|--------------------|
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.8 A16.7 H2.7 |
| L | 1.8 mm |
| A | 16.7 mm |
| Н | 2.7 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | T > C |
| T > C | 1.0 |
| > S | 0.0 |

Geometry - Saturation

| Saturation mode | Standard |
|-----------------|----------|
| Fat suppr. | None |

| Positioning mode | FIX |
|------------------|--------|
| Table position | Н |
| Table position | 0 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |

| Transversal | F >> H |
|---------------------|----------------|
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

Sequence - Special

| Mosaic DICOMs | On | |
|----------------------|-----|--|
| Sequence - Assistant | | |
| Mode | Off | |

System - Adjustments

| B0 Shim mode | Brain |
|----------------------|----------|
| B1 Shim mode | TrueForm |
| Freq. adjust | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.2 A8.1 H3.8 mm |
|---------------|-------------------|
| ! Orientation | T > C1.0 |
| ! Rotation | 0.00 deg |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |
| ! F >> H | 60 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 434.000 V |

Sequence - Part 1

| Introduction | On |
|---------------------|-------------|
| Dimension | 3D |
| Elliptical scanning | Off |
| Reordering | Linear |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Multi-slice mode | Interleaved |
| Echo spacing | 1.03 ms |
| Bandwidth | 1302 Hz/Px |

Sequence - Part 2

| EPI factor | 10 |
|---------------|-----------|
| Segmentation | 10 |
| RF pulse type | Normal |
| Gradient mode | Fast |
| Excitation | Slab-sel. |
| RF spoiling | On |

Sequence - Special

| 5 deg |
|-----------|
| 2560 us |
| 30 |
| 1300 ms |
| 200 |
| 0 |
| 0 |
| Off |
| Off |
| -none- |
| per Blade |
| 1.10 |
| |

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\gre_B0_sag

TA: 0:59 PM: FIX Voxel size: 1.1×1.1×2.0 mmRel. SNR: 1.00 : fm

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|--------------------|
| Slices | 20 |
| Dist. factor | 20 % |
| Position | R1.7 A3.6 F13.1 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| 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 | CSP |

Contrast - Common

| TR | 150.0 ms |
|--------------------------|----------|
| TE 1 TE 2 | 3.06 ms |
| TE 2 | 4.08 ms |
| MTC | Off |
| Flip angle Fat suppr. | 19 deg |
| Fat suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-----------------|-------------|
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 200 mm |
|-----------------------|---------|
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| Base resolution | 190 |
| Phase resolution | 100 % |
| Phase partial Fourier | Off |
| Interpolation | Off |

Resolution - Filter Image

| Image Filter | Off | |
|------------------|-----|--|
| Distortion Corr. | Off | |

Resolution - Filter Image

| Prescan Normalize | Off |
|-------------------|-----|
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 20 |
| Dist. factor | 20 % |
| Position | R1.7 A3.6 F13.1 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 2.0 mm |
| TR | 150.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | R1.7 A3.6 F13.1 mm |
| Orientation | Sagittal |
| Phase enc. dir. | A >> P |
| AutoAlign | - |
| Initial Position | R1.7 A3.6 F17.1 |
| R | 1.7 mm |
| A | 3.6 mm |
| F | 17.1 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | Sagittal |

Geometry - Saturation

| Fat suppr. | None |
|--------------|------|
| Special sat. | None |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|----------------|
| Table position | Н |
| Table position | 4 mm |
| MSMA | S-C-T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |

SIEMENS MAGNETOM Terra

System - Adjustments

| Adjustment Tolerance | Auto | |
|----------------------|------|--|
|----------------------|------|--|

System - Adjust Volume

| ! Position | L0.2 A8.1 H7.8 mm |
|---------------|-------------------|
| ! Orientation | T > C1.0 |
| ! Rotation | 0.00 deg |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |
| ! F >> H | 60 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 434.000 V |

Sequence - Part 1

| lates direction | 0 |
|------------------|-------------|
| Introduction | On |
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Bandwidth | 797 Hz/Px |

Sequence - Part 2

| RF pulse type | Normal |
|---------------|--------|
| Gradient mode | Fast |
| RF spoiling | On |

| Mode Off |
|----------|
|----------|

\\DEV\VCAL\THS_fMRI_coilQA\COILQA_fMRI_RB_20230707\gre_B0_tra

TA: 0:59 PM: FIX Voxel size: 1.1×1.1×3.0 mmRel. SNR: 1.00 : fm

Properties

| Prio recon | Off |
|---|--------------------|
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

Routine

| Slice group | 1 |
|--------------------|--------------------|
| Slices | 20 |
| Dist. factor | 0 % |
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| 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 | CSP |
| · | <u> </u> |

Contrast - Common

| TR | 150.0 ms |
|--------------------------|----------|
| TE 1 | 3.06 ms |
| TE 2 | 4.08 ms |
| MTC | Off |
| Flip angle | 19 deg |
| Flip angle Fat suppr. | None |

Contrast - Dynamic

| Averages | 1 |
|-----------------|-------------|
| Averaging mode | Short term |
| Reconstruction | Magn./Phase |
| Measurements | 1 |
| Multiple series | Off |

Resolution - Common

| FoV read | 200 mm | |
|-----------------------|---------|--|
| FoV phase | 100.0 % | |
| Slice thickness | 3.0 mm | |
| Base resolution | 190 | |
| Phase resolution | 100 % | |
| Phase partial Fourier | Off | |
| Interpolation | Off | |

Resolution - Filter Image

| Image Filter | Off | |
|------------------|-----|--|
| Distortion Corr. | Off | |

Resolution - Filter Image

| Prescan Normalize | Off |
|-------------------|-----|
| Normalize | Off |
| B1 filter | Off |

Resolution - Filter Rawdata

| Raw filter | Off |
|-------------------|-----|
| Elliptical filter | Off |

Geometry - Common

| Slice group | 1 |
|------------------|--------------------|
| Slices | 20 |
| Dist. factor | 0 % |
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| FoV read | 200 mm |
| FoV phase | 100.0 % |
| Slice thickness | 3.0 mm |
| TR | 150.0 ms |
| Multi-slice mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| Slice group | 1 |
|---------------------|--------------------|
| Position | L1.8 A16.7 H2.7 mm |
| Orientation | T > C1.0 |
| Phase enc. dir. | A >> P |
| AutoAlign | |
| Initial Position | L1.8 A16.7 H2.7 |
| L | 1.8 mm |
| A | 16.7 mm |
| Н | 2.7 mm |
| Initial Rotation | 0.00 deg |
| Initial Orientation | T > C |
| T > C | 1.0 |
| > S | 0.0 |

Geometry - Saturation

| Fat suppr. | None |
|--------------|------|
| Special sat. | None |

System - Miscellaneous

| Positioning mode | FIX |
|---------------------|----------------|
| Table position | Н |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | |
| Coil Select Mode | Default |

| B0 Shim mode | Brain |
|--------------------------|----------|
| B1 Shim mode | TrueForm |
| Confirm freg. adjustment | Off |

| Assume Dominant Fat | Off |
|----------------------|------|
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

System - Adjust Volume

| ! Position | L0.2 A8.1 H3.8 mm |
|---------------|-------------------|
| ! Orientation | T > C1.0 |
| ! Rotation | 0.00 deg |
| ! A >> P | 40 mm |
| ! R >> L | 52 mm |
| ! F >> H | 60 mm |
| Reset | Off |

System - Tx/Rx

| Frequency 1H | 297.191007 MHz |
|---------------------|----------------|
| Correction factor | 1 |
| Gain | High |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 434.000 V |

Sequence - Part 1

| Introduction | On |
|------------------|-------------|
| Dimension | 2D |
| Asymmetric echo | Off |
| Contrasts | 2 |
| Flow comp. | No |
| Multi-slice mode | Interleaved |
| Bandwidth | 797 Hz/Px |

Sequence - Part 2

| RF pulse type | Normal |
|---------------|--------|
| Gradient mode | Fast |
| RF spoiling | On |

| Mode | Off |
|------|-----|