\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\Localizer_bs_csc TA: 0:52 PAT: 2 Voxel size: 1.2x1.2x5.0 mm Rel. SNR: 1.00 SIEMENS: gre

Description		Phase resolution	100 %
Properties	0#	——— Phase partial Fourier	Off
Prio Recon	Off	Interpolation	Off
Before measurement		DAT d-	CDADDA
After measurement	On	PAT mode	GRAPPA
Load to viewer	On O"	Accel. factor PE	2
Inline movie	Off	Ref. lines PE	32
Auto store images	On	Reference scan mode	Integrated
Load to stamp segments	Off	Image Filter	Off
Load images to graphic	Off	Distortion Corr.	Off
segments		Prescan Normalize	Off
Auto open inline display	Off	Normalize	Off
Start measurement without	On	B1 filter	Off
further preparation		Raw filter	Off
Wait for user to start	Off	Elliptical filter	On
Start measurements	single	Mode	Inplane
Routine		l	прине
Slice group 1		Geometry Multiplica made	Cognostic
Slices	9	Multi-slice mode	Sequential
Dist. factor	100 %	Series	Interleaved
Position	Isocenter	Saturation mode	Standard
Orientation	Sagittal	Special sat.	None
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Toble position	⊔
Slice group 2	5.00 dog	Table position	H
Slices	33	Table position	0 mm
Dist. factor	100 %	Inline Composing	Off
Position	Isocenter	Tim CT mode	Off
Orientation		l	
	Transversal	System	
Phase enc. dir.	A >> P	C15	On
Rotation	0.00 deg	C16	On
Slice group 3		C17	On
Slices	15	C18	On
Dist. factor	100 %	C19	On
Position	Isocenter	C20	On
Orientation	Coronal	C21	On
Phase enc. dir.	R >> L	C22	On
Rotation	0.00 deg	Ch1	On
Phase oversampling	0 %	Ch2	On
FoV read	300 mm	Ch3	On
FoV phase	100.0 %	Ch4	On
Slice thickness	5.0 mm	Ch5	On
TR	6.2 ms	Ch6	On
TE	2.67 ms	Ch7	On
Averages	1	Ch8	On
Concatenations	57	Ch9	On
Filter	Elliptical filter	C19	On
Coil elements	C10-22;Ch1-9	C10	On On
1	,		_
Contrast		C12	On
TD	0 ms	C13	On
MTC	Off	C14	On
Magn. preparation	None	Positioning mode	FIX
Flip angle	10 deg	MSMA	S - C - T
Fat suppr.	None	Sagittal	R >> L
Water suppr.	None	Coronal	A >> P
SWI	Off	Transversal	F >> H
Averaging made	Chart tarm	Save uncombined	Off
Averaging mode	Short term	Coil Combine Mode	Adaptive Combine
Reconstruction	Magnitude	AutoAlign	
Measurements	1	Auto Coil Select	Off
Multiple series	Each measurement		
Resolution	256	Shim mode Adjust with body coil	Standard Off
Base resolution	256	Confirm freq. adjustment	Off
		1/+	

Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L	Off 0.000 V Auto Isocenter Sagittal 0.00 deg 325 mm 301 mm 301 mm
Physio	
1st Signal/Mode Segments	None 1
Tagging Dark blood	None Off
Resp. control	Off
Inline	
Subtract	Off
Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off
Wash - In Wash - Out TTP	Off Off Off
PEI MIP - time	Off Off
MapIt Contrasts	None 1
Sequence	
Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp.	On 2D Off Allowed 320 Hz/Px No
RF pulse type Gradient mode Excitation	Normal Normal Slice-sel.

On

RF spoiling

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\preSatTFL_satFA80_sag_2p5mm_FOV3 TA: 1:20 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: tfl_WIP543_B1map B1 filter Off Properties Raw filter Off Prio Recon Off Elliptical filter Off Before measurement After measurement Geometry Multi-slice mode Load to viewer On Interleaved Inline movie Off Series Interleaved Auto store images On Load to stamp segments Off Table position Load images to graphic Off Table position 0 mm segments Inline Composing Off Off Auto open inline display System Start measurement without On C15 On further preparation C16 On Off Wait for user to start C17 On Start measurements single C18 On Routine C19 On Slice group 1 C20 On Slices 28 C21 On Dist. factor 100 % C22 On Position L0.0 A32.0 H0.0 Ch1 On Orientation Sagittal Ch2 On Phase enc. dir. A >> P Ch3 On Rotation 0.00 deg Ch4 On Slice group 2 Ch₅ On Slices 28 Ch6 On Dist. factor 100 % Ch7 On Position L2.5 A32.0 H0.0 Ch8 On Sagittal Orientation Ch9 On A >> P Phase enc. dir. C10 On Rotation 0.00 deg C11 On Phase oversampling 0 % C12 On FoV read 320 mm C13 On FoV phase 68.8 % C14 On Slice thickness 2.5 mm Positioning mode FIX TR 20000 ms **MSMA** S-C-T TE 2.84 ms Sagittal R >> L **Averages** Coronal A >> P Concatenations 2 Transversal F >> H Filter None Save uncombined Off Coil elements C10-22;Ch1-9 Coil Combine Mode Sum of Squares Contrast AutoAlign TD 0 ms Auto Coil Select Default Magn. preparation None Shim mode Standard Flip angle 10 deg Adjust with body coil Off Fat suppr. None Confirm freq. adjustment Off Water suppr. None Assume Silicone Off Averaging mode Long term ! Ref. amplitude 1H 350.000 V Reconstruction Magnitude Adjustment Tolerance Auto Measurements Adjust volume Multiple series Each measurement Position L1.3 A32.0 H0.0 Orientation Sagittal Resolution Rotation 0.00 deg Base resolution 128 F >> H 320 mm Phase resolution 100 % A >> P 220 mm Phase partial Fourier Off R >> L 140 mm Interpolation Off Physio PAT mode None 1st Signal/Mode None Image Filter Off Off Dark blood Distortion Corr. Off Off Prescan Normalize Off Resp. control Off Normalize

Inline

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

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\preSatTFL_satFA80_sag_2p5mm_FOV3 TA: 1:20 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: tfl_WIP543_B1map B1 filter Off Properties Raw filter Off Prio Recon Off Elliptical filter Off Before measurement After measurement Geometry Multi-slice mode Load to viewer On Interleaved Inline movie Off Series Interleaved Auto store images On Load to stamp segments Off Table position Load images to graphic Off Table position 0 mm segments Inline Composing Off Off Auto open inline display System Start measurement without On C15 On further preparation C16 On Off Wait for user to start C17 On Start measurements single C18 On Routine C19 On Slice group 1 C20 On Slices 28 C21 On Dist. factor 100 % C22 On Position L0.0 A32.0 H0.0 Ch1 On Orientation Sagittal Ch2 On Phase enc. dir. A >> P Ch3 On Rotation 0.00 deg Ch4 On Slice group 2 Ch₅ On Slices 28 Ch6 On Dist. factor 100 % Ch7 On Position L2.5 A32.0 H0.0 Ch8 On Sagittal Orientation Ch9 On A >> P Phase enc. dir. C10 On Rotation 0.00 deg C11 On Phase oversampling 0 % C12 On FoV read 320 mm C13 On FoV phase 68.8 % C14 On Slice thickness 2.5 mm Positioning mode FIX TR 20000 ms **MSMA** S-C-T TE 2.84 ms Sagittal R >> L **Averages** Coronal A >> P Concatenations 2 Transversal F >> H Filter None Save uncombined Off Coil elements C10-22;Ch1-9 Coil Combine Mode Sum of Squares Contrast AutoAlign TD 0 ms Auto Coil Select Default Magn. preparation None Shim mode Standard Flip angle 10 deg Adjust with body coil Off Fat suppr. None Confirm freq. adjustment Off Water suppr. None Assume Silicone Off Averaging mode Long term ! Ref. amplitude 1H 350.000 V Reconstruction Magnitude Adjustment Tolerance Auto Measurements Adjust volume Multiple series Each measurement Position L1.3 A32.0 H0.0 Orientation Sagittal Resolution Rotation 0.00 deg Base resolution 128 F >> H 320 mm Phase resolution 100 % A >> P 220 mm Phase partial Fourier Off R >> L 140 mm Interpolation Off Physio PAT mode None 1st Signal/Mode None Image Filter Off Off Dark blood Distortion Corr. Off Off Prescan Normalize Off Resp. control Off Normalize

Inline

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

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\2DREAM_sag_FOV384_2p5mm_RefV3{ TA: 1:08 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: 3Dream_2d

Prior Resourcement	Properties		Inline Composing	Off
Before measurement	Prio Recon	Off		
After measurement Load to viewer On Inline movie Off C18 On C17 On C18 On C19 On C18 On C19 On C19 On C19 On C19 On C19 On C20 On C21 On C21 On C21 On C22 On		Oii		On
Load to viewer				
Inline movie		On		
Auto store images				
Load to stamp segments				_
Load images to graphic segments Auto open inline display Off C21				
Segments				
Auto open inline display Off Ch1				
Start measurement without further preparation Ch2		Off		
further preparation Wait for user to start Start measurements single Ch4 On On Ch5 On Ch6 On Ch6 On Ch7 On Ch7 On Ch7 On Ch7 On Ch8 On Ch9				On
Wait for user to start Off Ch4			Ch3	
Routine	· ·	Off		
Routine	Start measurements	single	Ch5	On
Silice group 1	Douting		Ch6	On
Silices			Ch7	On
Dist. factor		11		On
Position				On
Orientation Sagittal C11 On Phase enc. dir. A >> P C12 On Rotation 0.00 deg C14 On FoV read 384 mm C14 On FoV phase 47.4 % Positioning mode FIX Slice thickness 2.5 mm MSMA S - C - T TR 6000 ms Sagittal R > L TE 1 2.04 ms Coronal A > P TE 2 3.15 ms Transversal F > H Averages 1 Coronal A > P Telip angle 1 Distortion Corr. (3D) AutoAlign Coll elements C10-22;Ch1-9 AutoCoil Select Default Contrast Shim mode AutoAlign Averaging mode Long term Auto Coil Select Default Contrast Sine sesolution Off Assume Silicone Off Resolution 152 Agisticone Off Agisticone				On
Phase enc. dir. A >> P C12 Oil				On
Rotation				On
FoV read				On
FoV phase			C14	On
Silice thickness 2.5 mm 6000 ms 7			Positioning mode	EIV
TR	· · · · · · · · · · · · · · · · · · ·			
TE 1		_	_	
TE 2				
Averages				
Concatenations				
Filter		•		_
Coil elements				
Shim mode				Default
Flip angle 1	ı	,		
Flip angle 2 6 deg Confirm freq. adjustment Off Averaging mode Reconstruction Magnitude Measurements 1 Assume Silicone ? Ref. amplitude 1 H Adjustment Tolerance Adjust volume Resolution 152 Position Position Sagittal Rotation Sagittal Rotation 0.00 deg Phase resolution 100 % Formation Sagittal Rotation 0.00 deg Phase partial Fourier Off Formation Off A > P 182 mm Part Mode None Magnitude 1 H		FO dog		
Averaging mode Reconstruction Magnitude Reconstruction Magnitude Resolution Resolution Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Unfiltered images On Prescan Normalize Ba filter Normalize Ba filter Roff Raw filter Raw filter Raw filter Cemeetry Multi-slice mode Series Assume Silicone ? Ref. amplitude 1H 0.000 V Adjust volume Position Position L4.0 P0.2 F3.6 Orientation Sagittal Rotation 0.00 deg F >> H 384 mm A >> P 182 mm R >> L 28 mm Composing Sequence Introduction On Dimension 2D Asymmetric echo Off Contrasts 2 Bandwidth 910 Hz/Px Echo spacing Turbo factor 72 Repulse type Fast Gradient mode Fast Excitation Slice-sel. Flip angle mode Constant Respoiling On		· ·		
Averaging mode Long term Reconstruction Magnitude Adjustment Tolerance Adjust volume Resolution 152 Position L4.0 P0.2 F3.6 Orientation Sagittal Rotation 0.00 deg F > H 384 mm A > P 182 mm Rey L 28 mm Rey Rey Rey Rey L 28 mm Rey	riip arigle Z	o aeg		
Reconstruction Magnitude Measurements 1 Resolution	Averaging mode	Long term		_
Measurements 1	0 0	•	· · · · · · · · · · · · · · · · · · ·	
Resolution Position L4.0 P0.2 F3.6 Base resolution 152 Orientation Sagittal Phase resolution 100 % Rotation 0.00 deg Phase partial Fourier Off F >> H 384 mm Interpolation Off A >> P 182 mm PAT mode None R >> L 28 mm Composing Composing Introduction On Mode 3D Introduction On Unfiltered images On Dimension 2D Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 910 Hz/Px Raw filter Off Echo spacing 4.9 ms Elliptical filter Off Turbo factor 72 Geometry Fast Multi-slice mode Sequential Excitation Slice-sel. Flip angle mode Constant Table position H R <td>Measurements</td> <td>1</td> <td></td> <td>Auto</td>	Measurements	1		Auto
Base resolution 152 Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode None Mage Filter Off Distortion Corr. On Mode 3D Unfiltered images On Prescan Normalize Off Sequence	Posalution			L4 0 P0 2 F3 6
Phase resolution 100 % Rotation 0.00 deg Phase partial Fourier Off F F > H 384 mm Interpolation Off A PAT mode None PAT mode None PAT mode None		152		
Phase partial Fourier Off Off				
Interpolation Off A >> P 182 mm R >> L 28 mm Composing Image Filter Off Distortion Corr. On Mode 3D Introduction On Unfiltered images On Dimension 2D Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 910 Hz/Px Raw filter Off Echo spacing 4.9 ms Elliptical filter Off Turbo factor 72 Geometry Repulse type Fast Multi-slice mode Sequential Series Ascending Filip angle mode Constant Table position H				•
PAT mode None Image Filter				
PAT mode None Image Filter Off Distortion Corr. On Sequence Mode 3D Introduction On Dimension 2D Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 910 Hz/Px Raw filter Off Echo spacing 4.9 ms Multi-slice mode Sequential Series Ascending Excitation Slice-sel. Table position H Composing Composing Composing Composing Sequence Normalize Off Dimension On Dimension 2D Asymmetric echo Off Contrasts 2 Bandwidth 910 Hz/Px Echo spacing 4.9 ms Turbo factor 72 RF pulse type Fast Gradient mode Fast Excitation Slice-sel. Flip angle mode Constant RF spoiling On		·····		
Image Filter Distortion Corr. Mode 3D Unfiltered images On Prescan Normalize Normalize B1 filter Cemetry Multi-slice mode Series Ascending Introduction On Dimension Asymmetric echo Off Contrasts 2 Bandwidth 910 Hz/Px Echo spacing 4.9 ms Turbo factor 72 RF pulse type Fast Gradient mode Fast Sequence Introduction On Dimension Asymmetric echo Off Contrasts 2 Bandwidth 910 Hz/Px Echo spacing 4.9 ms Turbo factor 72 RF pulse type Fast Gradient mode Fast Fip angle mode Constant RF spoiling On	PAT mode	None	l	
Mode 3D Introduction On Dimension 2D Asymmetric echo Off Contrasts 2 B1 filter Off Bandwidth 910 Hz/Px Echo spacing 4.9 ms Mode	Image Filter	Off		
Unfiltered images On Prescan Normalize Off Asymmetric echo Off Contrasts 2 B1 filter Off Bandwidth 910 Hz/Px Raw filter Off Elliptical filter Off Turbo factor 72 Geometry RF pulse type Fast Series Ascending Excitation Slice-sel. Table position H Responding On Series Off Seri	Distortion Corr.	On		
Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 910 Hz/Px Raw filter Off Elliptical filter Off Turbo factor 72 Geometry RF pulse type Fast Gradient mode Fast Series Ascending Excitation Slice-sel. Table position H RF spoiling On		3D		
Normalize Off Contrasts 2 B1 filter Off Bandwidth 910 Hz/Px Raw filter Off Elliptical filter Off Turbo factor 72 Geometry RF pulse type Fast Gradient mode Fast Series Ascending Excitation Slice-sel. Table position H RF spoiling On				
B1 filter Off Echo spacing 4.9 ms Elliptical filter Off Turbo factor 72 Geometry RF pulse type Fast Gradient mode Fast Series Ascending Excitation Slice-sel. Table position H RF spoiling On				
Raw filter Off Elliptical filter Off Turbo factor 72 Geometry RF pulse type Fast Gradient mode Fast Excitation Slice-sel. Table position H RF spoiling On				
Elliptical filter Off Geometry Multi-slice mode Sequential Fast Series Ascending Excitation Slice-sel. Table position H Turbo factor 72 RF pulse type Fast Gradient mode Fast Excitation Slice-sel. Flip angle mode Constant RF spoiling On				
Geometry Multi-slice mode Sequential Series Ascending Table position Table position Sequential Figure 1 RF pulse type Fast Gradient mode Fast Excitation Slice-sel. Flip angle mode Constant RF spoiling On			Echo spacing	4.9 ms
Geometry Multi-slice mode Sequential Gradient mode Fast Series Ascending Excitation Slice-sel. Table position H RF pulse type Fast Gradient mode Fast Excitation Slice-sel. Flip angle mode Constant RF spoiling On	Elliptical filter	Off	Turbo factor	72
Multi-slice mode Sequential Gradient mode Fast Series Ascending Excitation Slice-sel. Table position H Flip angle mode Constant RF spoiling On	Geometry			
Series Ascending Excitation Slice-sel. Table position H RF spoiling On		Sequential		
Table position H Flip angle mode Constant RF spoiling On				
Table position				
Table position 0 mm				_
	l able position	0 mm	[

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\2DREAM_sag_FOV200_2p5mm_RefV3t TA: 1:08 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: 3Dream_2d

Properties		Inline Composing	Off
Prio Recon	Off	System	
Before measurement	Oli	C15	On
After measurement		C15	On
Load to viewer	On	C17	On
Inline movie	Off	C18	On
Auto store images	On	C19	On
Load to stamp segments	Off	C20	On
Load images to graphic	Off	C21	On
segments		C22	On
Auto open inline display	Off	Ch1	On
Start measurement without	On	Ch2	On
further preparation		Ch3	On
Wait for user to start	Off	Ch4	On
Start measurements	single	Ch5	On
Routine		Ch6	On
		Ch7	On
Slice group 1 Slices	11	Ch8	On
Dist. factor	0 %	Ch9	On
Position	L4.0 P0.2 F3.6	C10	On
Orientation	Sagittal	C11	On
Phase enc. dir.	A >> P	C12	On
Rotation	0.00 deg	C13	On
FoV read	200 mm	C14	On
FoV phase	100.0 %	Positioning mode	FIX
Slice thickness	2.5 mm	MSMA	S-C-T
TR	6000 ms	Sagittal	R >> L
TE 1	2.04 ms	Coronal	A >> P
TE 2	3.05 ms	Transversal	F>> H
Averages	1	Save uncombined	Off
Concatenations	11	Coil Combine Mode	Sum of Squares
Filter	Distortion Corr.(3D)	AutoAlign	
Coil elements	C10-22;Ch1-9	Auto Coil Select	Default
ı	,-···· -		
Contrast	FO do s	Shim mode	Standard
Flip angle 1	50 deg	Adjust with body coil	Off
Flip angle 2	6 deg	Confirm freq. adjustment	Off
Averaging mode	Long term	Assume Silicone	Off
Reconstruction	Magnitude	? Ref. amplitude 1H	0.000 V
Measurements	1	Adjustment Tolerance Adjust volume	Auto
Resolution		Position	L4.0 P0.2 F3.6
Base resolution	80	Orientation	Sagittal
Phase resolution	100 %	Rotation	0.00 deg
Phase partial Fourier	Off	F >> H	200 mm
Interpolation	Off	A >> P	200 mm
	OII	R >> L	28 mm
PAT mode	None	Composing	
Image Filter	Off		
Distortion Corr.	On	Sequence	
Mode	3D	Introduction	On
Unfiltered images	On	Dimension	2D
Prescan Normalize	Off	Asymmetric echo	Off
Normalize	Off	Contrasts	2
5.4.6%	Off	Bandwidth	1010 Hz/Px
B1 filter		Echo spacing	4.8 ms
Raw filter	Off	1 0	
	Off Off		80
Raw filter Elliptical filter		Turbo factor	80 Fast
Raw filter Elliptical filter Geometry	Off	Turbo factor RF pulse type	Fast
Raw filter Elliptical filter Geometry Multi-slice mode	Off Sequential	Turbo factor RF pulse type Gradient mode	Fast Fast
Raw filter Elliptical filter Geometry Multi-slice mode Series	Off	Turbo factor RF pulse type Gradient mode Excitation	Fast Fast Slice-sel.
Raw filter Elliptical filter Geometry Multi-slice mode Series Table position	Off Sequential Ascending	Turbo factor RF pulse type Gradient mode Excitation Flip angle mode	Fast Fast
Raw filter Elliptical filter Geometry Multi-slice mode Series	Off Sequential Ascending	Turbo factor RF pulse type Gradient mode Excitation	Fast Fast Slice-sel. Constant

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\2DREAM_sag_FOV200_2p5mm_RefV23 TA: 1:08 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: 3Dream_2d

Properties		Inline Composing	Off
Prio Recon	Off	System	
Before measurement		C15	On
After measurement		C16	On
Load to viewer	On	C17	On
Inline movie	Off	C18	On
Auto store images	On	C19	On
Load to stamp segments	Off	C20	On
Load images to graphic	Off	C21	On
segments	3	C22	On
Auto open inline display	Off	Ch1	On
Start measurement without	On	Ch2	On
further preparation	Oli	Ch3	On
Wait for user to start	Off	Ch4	On
Start measurements		Ch5	On
Start measurements	single	Ch6	
Routine			On On
Slice group 1		Ch7	On
Slices	11	Ch8	On
Dist. factor	0 %	Ch9	On
Position	L4.0 P0.2 F3.6	C10	On
Orientation	Sagittal	C11	On
Phase enc. dir.	A >> P	C12	On
Rotation	0.00 deg	C13	On
FoV read	0.00 deg 200 mm	C14	On
	_**	Desitioning and a	FIV
FoV phase	100.0 %	Positioning mode	FIX
Slice thickness	2.5 mm	MSMA	S - C - T
TR	6000 ms	Sagittal	R >> L
TE 1	2.04 ms	Coronal	A >> P
TE 2	3.05 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	11	Coil Combine Mode	Sum of Squares
Filter	Distortion Corr.(3D)	AutoAlign	· ·
Coil elements	C10-22;Ch1-9	Auto Coil Select	Default
	, , , , , , , , , , , , , , , , , , , ,		
Contrast		Shim mode	Standard
Flip angle 1	50 deg	Adjust with body coil	Off
Flip angle 2	6 deg	Confirm freq. adjustment	Off
Averaging mode	Long torm	Assume Silicone	Off
	Long term	! Ref. amplitude 1H	234.000 V
Reconstruction	Magnitude 1	Adjustment Tolerance	Auto
Measurements	ı	Adjust volume	
Resolution		Position	L4.0 P0.2 F3.6
Base resolution	80	Orientation	Sagittal
Phase resolution	100 %	Rotation	0.00 deg
Phase partial Fourier	Off	F >> H	200 mm
Interpolation	Off	A >> P	200 mm
	OII	R >> L	28 mm
PAT mode	None		20 IIIII
Image Filter	Off	Composing	
Distortion Corr.	On	Sequence	
Mode	3D	Introduction	On
Unfiltered images	On	Dimension	2D
Prescan Normalize		Asymmetric echo	Off
	Off	Contrasts	2
Normalize	Off	Bandwidth	2 1010 Hz/Px
B1 filter	Off		
Raw filter	Off	Echo spacing	4.8 ms
Elliptical filter	Off	Turbo factor	80
Geometry		RF pulse type	Fast
Multi-slice mode	Sequential	Gradient mode	Fast
		Excitation	Slice-sel.
Series	Ascending		
Table position	 Н	Flip angle mode RF spoiling	Constant On

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\2DREAM_sag_FOV200_2p5mm_RefV4{ TA: 1:08 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: 3Dream_2d

Price Pric	Properties		Inline Composing	Off
Before measurement C15	Prio Recon	Off	,	
After measurement C16		Oli		On
Load to viewer On C17				
Inline movie		On		
Auto store images				
Load inspace to graphic Off C21				_
Load images to graphic segments C22				
Segments				
Auto open inline display Off Ch1				
Start measurement without further preparation Wait for user to start Off Ch3		Off		
Further preparation Wait for user to start Off Ch4 Ch4 On				On
Wait for user to start Off Start measurements Single Ch6 Ch5 On			Ch3	
Routine	• •	Off	Ch4	On
Routine	Start measurements	single	Ch5	On
Slice group 1	Doubles		Ch6	On
Silices			Ch7	On
Dist. factor		4.4	Ch8	On
Position				On
Orientation Sagittal C11 Off Phase enc. dir. A >> P C12 On Rotation 0.00 deg C14 On FoV read 200 mm C14 On FoV phase 100.0 % Positioning mode FIX Slice thickness 2.5 mm MSMA S - C - T TR 6000 ms Sagittal R >> L TE 1 2.04 ms Coronal A >> P TE 2 3.05 ms Transversal F >> H Averages 1 Save uncombined Off Concatenations 11 Save uncombined Off Coil elements C10-22;Ch1-9 AutoAlign Coil elements C10-22;Ch1-9 AutoAlign Contrast Shim mode Standard Auto Coil Select Default Contrast Shim mode Standard Averaging mode Long term Assume Silicone Off Resolution 80 Assume Silicone				On
Phase enc. dir.				On
Rotation				On
FoV read				On
FoV phase			C14	On
Slice thickness			Positioning mode	EIV
TR 6000 ms Sagittal R >> L TE 1 2.04 ms Coronal A >> P TE 2 3.05 ms Transversal F >> H Averages 1 Save uncombined Off Concatenations 11 Coll Combine Mode Sum of Squares Filter Distortion Corr. (3D) AutoAlign Coil elements C10-22; Ch1-9 AutoAlign Contrast Shim mode Standard Flip angle 1 50 deg Confirm freq, adjustment Off Flip angle 2 6 deg Confirm freq, adjustment Off Averaging mode Long term Assume Silicone Off Reconstruction Magnitude Adjust with body coil Off Resolution Magnitude Adjust volume Auto Resolution 80 Orientation Sagittal Phase resolution 80 Orientation Sagittal PA> P 200 mm Rotation 0.00 deg Phase partial Fourier <td></td> <td></td> <td></td> <td></td>				
TE 1		_		
TE 2				
Averages				
Coil combine Mode Sum of Squares				
Filter		•		_
Coil elements				
Contrast Shim mode Standard Flip angle 1 50 deg Adjust with body coil Off Flip angle 2 6 deg Confirm freq. adjustment Off Averaging mode Long term Assume Silicone Off Reconstruction Magnitude Adjustment Tolerance Auto Measurements 1 Adjustment Tolerance Auto Adjust volume Position L4.0 P0.2 F3.6 Orientation Sagittal Phase resolution 100 % Rotation 0.00 deg Phase partial Fourier Off F >> H 200 mm Introduction Off A >> P 200 mm PAT mode R >> L 28 mm PAT mode None Composing Sequence Sequence Introduction On On Dimension 2D Asymmetric echo Off Asymmetric echo Off Contrasts 2 Bandwidth 1010 Hz/Px Echo spacing 4.8 ms	1			Default
Flip angle 1	ı	0.0 ==,0 0		
Flip angle 2 6 deg Averaging mode Long term Reconstruction Magnitude Measurements 1 Resolution Base resolution 80 Phase partial Fourier Off Interpolation Off Distortion Corr. On Mode Unfiltered images On Prescan Normalize Off Normalize Stiffer Off Reconstruction Magnitude Hassume Silicone Off Sequence Off Assume Silicone (Pf Assume S		FO dos		
Averaging mode		9		
Averaging mode Reconstruction Magnitude Measurements Resolution Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Mode Distortion Corr. Mode Unfiltered images Prescan Normalize Position Phase partial Fourier Off Distortion Corr. Mode Substitute Position Phase partial Fourier Off First partial Fourier Distortion Corr. Mode Phase partial Fourier Off Distortion Corr. Mode Substitute Position Phase partial Fourier First partial Fourier Off Distortion Corr. On Distortion Corr. Mode Substitute Position Sequence Introduction Dimension Substitution On Dimension Di	Filp angle 2	6 deg		
Reconstruction Magnitude Measurements 1 Resolution Base resolution 80 Phase resolution 100 % Phase partial Fourier Off Interpolation Off Distortion Corr. Mode 3D Unfiltered images On Prescan Normalize Off Normalize Off Normalize Off Normalize Off Resolution 100 % Position L4.0 P0.2 F3.6 Orientation Sagittal O.00 deg F >> H 200 mm A >> P 200 mm R >> L 28 mm Composing Introduction On Dimension On Dimension On Dimension 2D Asymmetric echo Off Contrasts 2 Bandwidth 1010 Hz/Px Raw filter Off Bandwidth 1010 Hz/Px Raw filter Off Raymetric echo spacing 4.8 ms	Averaging mode	Long term		_
Adjust volume Position	Reconstruction	Magnitude	•	
Resolution 80 Orientation Sagittal Phase resolution 100 % Rotation 0.00 deg Phase partial Fourier Off F >> H 200 mm Interpolation Off A >> P 200 mm Interpolation None Rotation 0.00 deg PAT mode None R >> L 28 mm Image Filter Off On Sequence Mode 3D Introduction On Unfiltered images On Dimension 2D Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms	Measurements	1		Auto
Drientation Sagittal Phase resolution 100 % Rotation 0.00 deg	Desclution			140 D0 2 E2 6
Phase resolution 100 % Rotation 0.00 deg Phase partial Fourier Off F >> H 200 mm Interpolation Off A >> P 200 mm PAT mode None R >> L 28 mm Image Filter Off Sequence Mode 3D Introduction On Unfiltered images On Dimension 2D Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms		80		
Phase partial Fourier Off F >> H 200 mm Interpolation Off A >> P 200 mm PAT mode None R >> L 28 mm Image Filter Off Composing Distortion Corr. On Sequence Mode 3D Introduction On Unfiltered images On Dimension 2D Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms				
Interpolation				•
PAT mode None Image Filter Off Distortion Corr. On Mode 3D Unfiltered images On Prescan Normalize Off Normalize Off B1 filter Off Raw filter Off Echo spacing 4.8 ms				
PAT mode None Image Filter Off Distortion Corr. On Sequence Mode 3D Introduction On Unfiltered images On Dimension 2D Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms		·····		
Image FilterOffDistortion Corr.OnMode3DIntroductionOnUnfiltered imagesOnDimension2DPrescan NormalizeOffAsymmetric echoOffNormalizeOffContrasts2B1 filterOffBandwidth1010 Hz/PxRaw filterOffEcho spacing4.8 ms		None		
Distortion Corr. On Sequence Mode 3D Introduction On Unfiltered images On Dimension 2D Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms	Image Filter	Off		
Unfiltered images On Dimension 2D Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms		On		
Prescan Normalize Off Asymmetric echo Off Normalize Off Contrasts 2 B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms		3D		
Normalize Off Contrasts 2 B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms				
B1 filter Off Bandwidth 1010 Hz/Px Raw filter Off Echo spacing 4.8 ms				
Raw filter Off Echo spacing 4.8 ms				
I Elliptical filter			Echo spacing	4.8 ms
Elliptical filter Off Turbo factor 80	Elliptical filter	Off	Turbo factor	80
Geometry RF pulse type Fast	Geometry			
Multi-slice mode Sequential Gradient mode Fast		Sequential		
Series Ascending Excitation Slice-sel.				
Flip angle mode Constant				
lable position H RE spoiling On				_
Table position 0 mm	l able position	u mm		

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\CoilQA_sag_HF_FOV384_1p5x1p5x2p0
TA: 3:27 Voxel size: 1.5×1.5×2.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

		Table position	Н
Properties		Table position	П 0 mm
Prio Recon	Off	Inline Composing	Off
Before measurement			
After measurement Load to viewer	On	System C15	On
Inline movie	Off	C16	On
Auto store images	On	C17	On
Load to stamp segments	Off	C18	On
Load images to graphic	Off	C19	On
segments		C20	On
Auto open inline display	Off	C21	On
Start measurement without	On	C22	On
further preparation		Ch1	On
Wait for user to start	Off	Ch2	On
Start measurements	single	Ch3	On
Routine		Ch4	On
Slice group 1		Ch5	On
Slices	13	Ch6 Ch7	On On
Dist. factor	20 %	Ch8	On On
Position	L4.0 P0.2 F3.6	Ch9	On
Orientation	Sagittal	C10	On
Phase enc. dir.	H >> F	C11	On
Rotation	90.00 deg	C12	On
Phase oversampling	0 %	C13	On
FoV read	384 mm	C14	On
FoV phase	100.0 %	Desitioning goods	
Slice thickness TR	2.0 mm 30 ms	Positioning mode MSMA	FIX S - C - T
TE	6.0 ms	Sagittal	R >> L
Averages	2	Coronal	A >> P
Concatenations	13	Transversal	F >> H
Filter	None	Save uncombined	Off
Coil elements	C10-22;Ch1-9	Coil Combine Mode	Adaptive Combine
Contrast	•	AutoAlign	
TD	0 ms	Auto Coil Select	Default
MTC	Off	Shim mode	Standard
Flip angle	12 deg	Adjust with body coil	Off
Fat suppr.	None	Confirm freq. adjustment	Off
Water suppr.	None	Assume Silicone	Off
		? Ref. amplitude 1H	0.000 V
Averaging mode	Short term	Adjustment Tolerance	Auto
Reconstruction Measurements	Magnitude 1	Adjust volume	
Multiple series	Off	! Position	L4.0 P13.5 F24.5
	ŬII	! Orientation	Sagittal
Resolution		! Rotation	78.79 deg
Base resolution	256	! A >> P	43 mm
Phase resolution	100 %	!F>> H !R>> L	194 mm 26 mm
Phase partial Fourier	Off		20 111111
Interpolation	Off	Physio	
Image Filter	Off	1st Signal/Mode	None
Distortion Corr.	Off	Inline	
Prescan Normalize	Off	Subtract	Off
Normalize	Off	Std-Dev-Sag	Off
B1 filter	Off	Std-Dev-Cor	Off
Raw filter	Off	Std-Dev-Tra	Off
Elliptical filter	Off	Std-Dev-Time	Off
Geometry		MIP-Sag	Off
Multi-slice mode	Sequential	MIP-Cor	Off
Series	Ascending	MIP-Tra	Off
Special sat.	None	MIP-Time	Off
		Save original images	On

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\CoilQA_sag_HF_FOV192_1p5x1p5x2p0
TA: 1:44 Voxel size: 1.5×1.5×2.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

		Table position	Н
Properties		Table position	П 0 mm
Prio Recon	Off	Inline Composing	Off
Before measurement			
After measurement Load to viewer	On	System C15	On
Inline movie	Off	C16	On
Auto store images	On	C17	On
Load to stamp segments	Off	C18	On
Load images to graphic	Off	C19	On
segments		C20	On
Auto open inline display	Off	C21	On
Start measurement without	On	C22	On
further preparation		Ch1	On
Wait for user to start	Off	Ch2	On
Start measurements	single	Ch3	On
Routine		Ch4	On
Slice group 1		Ch5 Ch6	On On
Slices	13	Cho	On On
Dist. factor	20 %	Ch8	On On
Position	L4.0 P0.2 F3.6	Ch9	On
Orientation	Sagittal	C10	On
Phase enc. dir.	H >> F	C11	On
Rotation	90.00 deg	C12	On
Phase oversampling	0 %	C13	On
FoV read	192 mm	C14	On
FoV phase Slice thickness	100.0 % 2.0 mm	Desitioning mode	FIX
TR	30 ms	Positioning mode MSMA	S - C - T
TE	6.0 ms	Sagittal	R >> L
Averages	2	Coronal	A >> P
Concatenations	13	Transversal	F >> H
Filter	None	Save uncombined	Off
Coil elements	C10-22;Ch1-9	Coil Combine Mode	Adaptive Combine
Contrast	•	AutoAlign	
TD	0 ms	Auto Coil Select	Default
MTC	Off	Shim mode	Standard
Flip angle	12 deg	Adjust with body coil	Off
Fat suppr.	None	Confirm freq. adjustment	Off
Water suppr.	None	Assume Silicone	Off
		? Ref. amplitude 1H	0.000 V
Averaging mode	Short term	Adjustment Tolerance	Auto
Reconstruction Measurements	Magnitude 1	Adjust volume	
Multiple series	Off	! Position	L4.0 P13.5 F24.5
	Ŭii	! Orientation	Sagittal
Resolution	100	! Rotation	78.79 deg
Base resolution	128	! A >> P	43 mm
Phase resolution	100 %	!F>> H !R>> L	194 mm 26 mm
Phase partial Fourier	Off		20 111111
Interpolation	Off	Physio	
Image Filter	Off	1st Signal/Mode	None
Distortion Corr.	Off	Inline	
Prescan Normalize	Off	Subtract	Off
Normalize	Off	Std-Dev-Sag	Off
B1 filter	Off	Std-Dev-Cor	Off
Raw filter	Off	Std-Dev-Tra	Off
Elliptical filter	Off	Std-Dev-Time	Off
Geometry		MIP-Sag	Off
Multi-slice mode	Sequential	MIP-Cor	Off
Series	Ascending	MIP-Tra	Off
Special sat.	None	MIP-Time	Off
		Save original images	On

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\CoilQA_axi_RL_FOV192_0p5x0p5x5p0 TA: 2:53 Voxel size: 0.5×0.5×5.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

		Table position	Н
Properties		Table position Table position	П 0 mm
Prio Recon	Off	Inline Composing	Off
Before measurement			
After measurement Load to viewer	On	System C15	On
Inline movie	Off	C16	On
Auto store images	On	C17	On
Load to stamp segments	Off	C18	On
Load images to graphic	Off	C19	On
segments		C20	On
Auto open inline display	Off	C21	On
Start measurement without	On	C22	On
further preparation		Ch1	On
Wait for user to start	Off	Ch2	On
Start measurements	single	Ch3	On
Routine		Ch4	On
Slice group 1		Ch5	On
Slices	7	Ch6	On
Dist. factor	300 %	Ch7	On
Position	L4.0 P0.2 F3.6	Ch8	On
Orientation	Transversal	Ch9 C10	On On
Phase enc. dir.	R >> L	C10	On On
Rotation	90.00 deg	C12	On
Phase oversampling	0 %	C13	On
FoV read	192 mm	C14	On
FoV phase	100.0 %		
Slice thickness	5.0 mm	Positioning mode	FIX
TR	30 ms	MSMA	S-C-T
TE	6.0 ms	Sagittal	R >> L
Averages	2 7	Coronal	A >> P F >> H
Concatenations Filter	/ None	Transversal Save uncombined	F >> □ Off
Coil elements	C10-22;Ch1-9	Coil Combine Mode	Adaptive Combine
1	C10-22,C111-9	AutoAlign	
Contrast		—— Auto Coil Select	Default
TD	0 ms		
MTC	Off	Shim mode	Standard
Flip angle	12 deg	Adjust with body coil	Off Off
Fat suppr.	None	Confirm freq. adjustment	Off Off
Water suppr.	None	Assume Silicone ? Ref. amplitude 1H	0.000 V
Averaging mode	Short term	Adjustment Tolerance	Auto
Reconstruction	N A = ==== !4=l =		
	Magnitude		Adio
Measurements	1	Adjust volume	
	_	Adjust volume ! Position	L4.0 P13.5 F24.5
Measurements	1	Adjust volume	
Measurements Multiple series	1	Adjust volume ! Position ! Orientation	L4.0 P13.5 F24.5 Sagittal
Measurements Multiple series Resolution	1 Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H	L4.0 P13.5 F24.5 Sagittal 78.79 deg
Measurements Multiple series Resolution Base resolution	1 Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm
Measurements Multiple series Resolution Base resolution Phase resolution	1 Off 384 100 %	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation	1 Off 384 100 % Off Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter	1 Off 384 100 % Off Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr.	1 Off 384 100 % Off Off Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter	1 Off 384 100 % Off Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Prescan Normalize	1 Off 384 100 % Off Off Off Off Off Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract Std-Dev-Sag	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm None
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Prescan Normalize Normalize	1 Off 384 100 % Off Off Off Off Off Off Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract Std-Dev-Sag Std-Dev-Cor	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm None Off Off Off
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter	1 Off 384 100 % Off Off Off Off Off Off Off Off Off	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm None Off Off Off Off
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter Elliptical filter	1 Off 384 100 % Off Off Off Off Off Off Off Off Off Of	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm None Off Off Off Off Off
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry	1 Off 384 100 % Off Off Off Off Off Off Off Off Off Of	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm None Off Off Off Off Off Off
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode	1 Off 384 100 % Off Off Off Off Off Off Off Off Off Of	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm None Off Off Off Off Off Off Off Off
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode Series	1 Off Off 384 100 % Off Off Off Off Off Off Off Off Off Of	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm None Off Off Off Off Off Off
Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode Series Special sat.	1 Off 384 100 % Off Off Off Off Off Off Off Off Off Of	Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! F >> H ! R >> L Physio 1st Signal/Mode Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra	L4.0 P13.5 F24.5 Sagittal 78.79 deg 43 mm 194 mm 26 mm None Off Off Off Off Off Off Off Off Off O

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\gre_2D_2mmIso_RefV350_uncombined TA: 1:21 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties		Multi-slice mode Series	Interleaved Interleaved
Prio Recon	Off		
Before measurement		Saturation mode	Standard
After measurement	_	Special sat.	None
Load to viewer	On		
Inline movie	Off	Table position	Н
Auto store images	On	Table position	0 mm
Load to stamp segments	Off	Inline Composing	Off
Load images to graphic	Off	Tim CT mode	O#
segments		Tim C1 mode	Off
Auto open inline display	Off	System	
Start measurement without	On	C15	On
further preparation		C16	On
Wait for user to start	Off	C17	On
Start measurements	single	C18	On
Routine		C19	On
Slice group 1		— C20	On
Slices	44	C21	On
Dist. factor	0 %	C22	On
Position	L4.0 P0.2 F3.6	Ch1	On
Orientation	Sagittal	Ch2	On
Phase enc. dir.	Sagillai A >> P	Ch3	On
Rotation	0.00 deg	Ch4	On
Phase oversampling	0.00 deg 0 %	Ch5	On
FoV read	384 mm	Ch6	On
		Ch7	On
FoV phase Slice thickness	75.0 %	Ch8	On
TR	2.0 mm 550 ms	Ch9	On
		C10	On
TE Averages	3.87 ms 1	C11	On
Averages	1	C12	On
Concatenations Filter	Distortion Corr (2D)	C13	On
Coil elements	Distortion Corr.(3D)	C14	On
Con elements	C10-22;Ch1-9		
Contrast		Positioning mode	FIX
MTC	Off	MSMA	S-C-T
Magn. preparation	None	Sagittal	R >> L
Flip angle	30 deg	Coronal	A >> P
Fat suppr.	None	Transversal	F >> H
Water suppr.	None	Save uncombined	On
SWI	Off	Coil Combine Mode	Sum of Squares
Avoraging made	Chart tarm	AutoAlign	 D ()
Averaging mode	Short term	Auto Coil Select	Default
Reconstruction	Magn./Phase	Shim mode	Standard
Measurements Multiple series	Fach magaurament	Adjust with body coil	Off
Multiple series	Each measurement	Confirm freq. adjustment	Off
Resolution		Assume Silicone	Off
Base resolution	192	? Ref. amplitude 1H	0.000 V
Phase resolution	100 %	Adjustment Tolerance	Auto
Phase partial Fourier	Off	Adjust volume	
Interpolation	Off	Position	L4.0 P0.2 F3.6
		Orientation	Sagittal
PAT mode	None	Rotation	0.00 deg
Image Filter	Off	F >> H	384 mm
Distortion Corr.	On	A >> P	288 mm
Mode	3D	R >> L	88 mm
Unfiltered images	On	I	
Prescan Normalize	Off	Physio	
Normalize	Off	1st Signal/Mode	None
B1 filter	Off	Segments	1
Raw filter	Off	Tagging	None
Elliptical filter	Off	Dark blood	Off
·			∵ ⊓
Geometry		Resp. control	Off
			5 11

Inline

Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time	Off
Save original images Wash - In Wash - Out TTP PEI MIP - time MapIt Contrasts	On Off Off Off Off Off Off Off Off

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\gre_2D_2mmIso_RefV350_uncombined_ TA: 1:21 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties		Saturation mode	Standard
Prio Recon	Off	Special sat.	None
Before measurement			
After measurement		Table position	Н
Load to viewer	On	Table position	0 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	System	
segments		C15	On
Auto open inline display	Off	C16	On
Start measurement without	On	C17	On
further preparation	.	C17	On
Wait for user to start	Off	C18	On
Start measurements	single	C20	On
	Single	C21	_
Routine			On
Slice group 1		— C22	On
Slices	44	Ch1	On
Dist. factor	0 %	Ch2	On
Position	L4.0 P0.2 F3.6	Ch3	On
Orientation	Sagittal	Ch4	On
Phase enc. dir.	A >> P	Ch5	On
Rotation	0.00 deg	Ch6	On
Phase oversampling	0 %	Ch7	On
FoV read	384 mm	Ch8	On
FoV phase	75.0 %	Ch9	On
Slice thickness	2.0 mm	C10	On
TR	550 ms	C11	On
TE	3.87 ms	C12	On
	3.07 IIIS 1	C13	On
Averages	1	C14	On
Concatenations	l None		
Filter	None	Positioning mode	FIX
Coil elements	C10-22;Ch1-9	MSMA	S - C - T
Contrast		Sagittal	R >> L
MTC	Off	Coronal	A >> P
Magn. preparation	None	Transversal	F >> H
Flip angle	30 deg	Save uncombined	On
Fat suppr.	None	Coil Combine Mode	Sum of Squares
Water suppr.	None	AutoAlign	
SWI	Off	Auto Coil Select	Default
		Obj	04
Averaging mode	Short term	Shim mode	Standard
Reconstruction	Magn./Phase	Adjust with body coil	Off
Measurements	1	Confirm freq. adjustment	Off
Multiple series	Each measurement	Assume Silicone	Off
•		? Ref. amplitude 1H	0.000 V
Resolution		Adjustment Tolerance	Auto
Base resolution	192	Adjust volume	
Phase resolution	100 %	Position	L4.0 P0.2 F3.6
Phase partial Fourier	Off	Orientation	Sagittal
Interpolation	Off	Rotation	0.00 deg
PAT mode	None	··· F >> H	384 mm
PAT mode	none	A >> P	288 mm
Image Filter	Off	R >> L	88 mm
Distortion Corr.	Off	l	
Prescan Normalize	Off	Physio	
Normalize	Off	1st Signal/Mode	None
B1 filter	Off	Segments	1
	Off	Tagging	None
Raw tilter	JII	Tagging	None
Raw filter		Dorle blood	O#
Raw filter Elliptical filter	Off	Dark blood	Off
			Off Off
Elliptical filter		Dark blood Resp. control Inline	

	Subtract	Off
	Liver registration	Off
	Std-Dev-Sag	Off
	Std-Dev-Cor	Off
	Std-Dev-Tra	Off
	Std-Dev-Time	Off
	MIP-Sag	Off
	MIP-Cor	Off
	MIP-Tra	Off
	MIP-Time	Off
	Save original images	On
	Wash - In	Off
	Wash - Out	Off
	TTP	Off
	PEI	Off
	MIP - time	Off
	Maplt	None
	MapIt Contrasts	None 1
S		
S	Contrasts	
S	Contrasts equence Introduction Dimension	1
S	Contrasts equence Introduction Dimension Phase stabilisation	1 On
S	Contrasts equence Introduction Dimension Phase stabilisation Asymmetric echo	On 2D On Off
S	Contrasts equence Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth	On 2D On Off 320 Hz/Px
S	Contrasts equence Introduction Dimension Phase stabilisation Asymmetric echo	On 2D On Off
S S	Contrasts equence Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp.	On 2D On Off 320 Hz/Px
S S	Contrasts equence Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth	On 2D On Off 320 Hz/Px No
S S	Contrasts equence Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp. RF pulse type	On 2D On Off 320 Hz/Px No
S	Contrasts equence Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp. RF pulse type Gradient mode	On 2D On Off 320 Hz/Px No Normal Fast

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\gre_2D_2mmIso_RefV350_uncombined_ TA: 1:21 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties	~	Saturation mode	Standard
Prio Recon	Off	Special sat.	None
Before measurement			
After measurement	_	Table position	Н
Load to viewer	On	Table position	0 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On	Tim CT made	O#
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	System	
segments		C15	On
Auto open inline display	Off	C16	On
Start measurement without	On	C17	On
further preparation		C18	On
Wait for user to start	Off	C19	On
Start measurements	single	C20	On
	3 3	C21	On
Routine		— C22	On
Slice group 1		Ch1	
Slices	44		On
Dist. factor	0 %	Ch2	On
Position	L4.0 P0.2 F3.6	Ch3	On
Orientation	Sagittal	Ch4	On
Phase enc. dir.	A >> P	Ch5	On
Rotation	0.00 deg	Ch6	On
Phase oversampling	0 %	Ch7	On
FoV read	384 mm	Ch8	On
FoV phase	75.0 %	Ch9	On
Slice thickness	2.0 mm	C10	On
TR	550 ms	C11	On
		C12	On
TE	3.87 ms	C13	On
Averages	1	C14	On
Concatenations	1		
Filter	None	Positioning mode	FIX
Coil elements	C10-22;Ch1-9	MSMA	S - C - T
Contrast		Sagittal	R >> L
MTC	Off	Coronal	A >> P
Magn. preparation	None	Transversal	F >> H
Flip angle	30 deg	Save uncombined	On
Fat suppr.	None	Coil Combine Mode	Sum of Squares
		AutoAlign	·
Water suppr.	None O#	Auto Coil Select	Default
SWI	Off		
Averaging mode	Short term	Shim mode	Standard
Reconstruction	Magn./Phase	Adjust with body coil	Off
Measurements	1	Confirm freq. adjustment	Off
Multiple series	Each measurement	Assume Silicone	Off
•	Laon mododromoni	? Ref. amplitude 1H	0.000 V
Resolution		Adjustment Tolerance	Auto
	192	Adjust volume	
Base resolution			1.4.0 D0 0 E0 C
Base resolution Phase resolution	100 %	Position	L4.0 P0.2 F3.6
Phase resolution	100 % Off	Position Orientation	
Phase resolution Phase partial Fourier	Off	Orientation	Sagittal
Phase resolution Phase partial Fourier Interpolation	Off Off	Orientation Rotation	Sagittal 0.00 deg
Phase resolution Phase partial Fourier	Off	Orientation Rotation F >> H	Sagittal 0.00 deg 384 mm
Phase resolution Phase partial Fourier Interpolation PAT mode	Off Off None	Orientation Rotation F >> H A >> P	Sagittal 0.00 deg 384 mm 288 mm
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter	Off Off None Off	Orientation Rotation F >> H	Sagittal 0.00 deg 384 mm
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr.	Off Off None Off Off	Orientation Rotation F >> H A >> P	Sagittal 0.00 deg 384 mm 288 mm
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Prescan Normalize	Off Off None Off Off Off	Orientation Rotation F >> H A >> P R >> L Physio	Sagittal 0.00 deg 384 mm 288 mm 88 mm
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Prescan Normalize Normalize	Off Off None Off Off Off Off	Orientation Rotation F >> H A >> P R >> L Physio 1st Signal/Mode	Sagittal 0.00 deg 384 mm 288 mm
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter	Off Off None Off Off Off Off Off Off	Orientation Rotation F >> H A >> P R >> L Physio 1st Signal/Mode Segments	Sagittal 0.00 deg 384 mm 288 mm 88 mm
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter	Off Off None Off Off Off Off Off Off Off Off	Orientation Rotation F >> H A >> P R >> L Physio 1st Signal/Mode Segments Tagging	Sagittal 0.00 deg 384 mm 288 mm 88 mm None 1
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter	Off Off None Off Off Off Off Off Off	Orientation Rotation F >> H A >> P R >> L Physio 1st Signal/Mode Segments	Sagittal 0.00 deg 384 mm 288 mm 88 mm
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter Elliptical filter	Off Off None Off Off Off Off Off Off Off Off	Orientation Rotation F >> H A >> P R >> L Physio 1st Signal/Mode Segments Tagging Dark blood	Sagittal 0.00 deg 384 mm 288 mm 88 mm None 1 None Off
Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter	Off Off None Off Off Off Off Off Off Off Off	Orientation Rotation F >> H A >> P R >> L Physio 1st Signal/Mode Segments Tagging	Sagittal 0.00 deg 384 mm 288 mm 88 mm None 1

Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
MapIt Contrasts	None 1
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp.	On 2D On Off 320 Hz/Px No
RF pulse type Gradient mode	Normal Fast

Slice-sel. On

Excitation RF spoiling

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\preSatTFL_sag_2p5mm_FOV320_RefV3

TA: 1:20 PAT: Off Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00 USER: tfl_WIP543_B1map B1 filter Off Properties Raw filter Off Prio Recon Off Elliptical filter Off Before measurement After measurement Geometry Multi-slice mode Load to viewer On Interleaved Inline movie Off Series Interleaved Auto store images On Load to stamp segments Off Table position Load images to graphic Off Table position 0 mm segments Inline Composing Off Off Auto open inline display System Start measurement without On C15 On further preparation C16 On Off Wait for user to start C17 On Start measurements single C18 On Routine C19 On Slice group 1 C20 On Slices 28 C21 On Dist. factor 100 % C22 On Position L0.0 A32.0 H0.0 Ch1 On Orientation Sagittal Ch2 On Phase enc. dir. A >> P Ch3 On Rotation 0.00 deg Ch4 On Slice group 2 Ch5 On Slices 28 Ch6 On Dist. factor 100 % Ch7 On Position L2.5 A32.0 H0.0 Ch8 On Sagittal Orientation Ch9 On A >> P Phase enc. dir. C10 On Rotation 0.00 deg C11 On Phase oversampling 0 % C12 On FoV read 320 mm C13 On FoV phase 68.8 % C14 On Slice thickness 2.5 mm Positioning mode FIX TR 20000 ms **MSMA** S-C-T TE 2.84 ms Sagittal R >> L **Averages** Coronal A >> P Concatenations 2 Transversal F >> H Filter None Save uncombined Off Coil elements C10-22;Ch1-9 Coil Combine Mode Sum of Squares Contrast AutoAlign TD 0 ms Auto Coil Select Default Magn. preparation None Shim mode Standard Flip angle 10 deg Adjust with body coil Off Fat suppr. None Confirm freq. adjustment Off Water suppr. None Assume Silicone Off Averaging mode Long term ! Ref. amplitude 1H 365.000 V Reconstruction Magnitude Adjustment Tolerance Auto Measurements Adjust volume Multiple series Each measurement Position L1.3 A32.0 H0.0 Orientation Sagittal Resolution Rotation 0.00 deg Base resolution 128 F >> H 320 mm Phase resolution 100 % A >> P 220 mm Phase partial Fourier Off R >> L 140 mm Interpolation Off Physio PAT mode None 1st Signal/Mode None Image Filter Off Off Dark blood Distortion Corr. Off Off Prescan Normalize Off Resp. control Off Normalize Inline

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

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\t1_mp2r_wip944_3D_cor_0p7iso_p2_Re

Properties		Distortion Corr.	On
Prio Recon	O#	Mode	3D
	Off	Unfiltered images	On
Before measurement		Prescan Normalize	Off
After measurement	0	Normalize	Off
Load to viewer	On	B1 filter	Off
Inline movie	Off	Raw filter	Off
Auto store images	On	Elliptical filter	Off
Load to stamp segments	Off	•	.
Load images to graphic	Off	Geometry	
segments		Multi-slice mode	Single shot
Auto open inline display	Off	Series	Ascending
Start measurement without	On		
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	Inline Composing	Off
Coutine	og.o		On
Slab group 1		System C15	02
Slabs	1		On On
Dist. factor	50 %	C16	On On
Position		C17	On
	L4.5 A1.0 F3.9	C18	On
Orientation	Sagittal	C19	On
Phase enc. dir.	A >> P	C20	On
Rotation	0.00 deg	C21	On
Phase oversampling	0 %	C22	On
Slice oversampling	0.0 %	Ch1	On
Slices per slab	192	Ch2	On
FoV read	260 mm	Ch3	On
FoV phase	67.9 %	Ch4	On
Slice thickness	0.70 mm	Ch5	On
TR	5000 ms	Ch6	On
TE	2.12 ms	Ch7	On
Averages	1	Ch8	On
Concatenations	1	Ch9	On
Filter	Distortion Corr.(3D)		
Coil elements	C10-22;Ch1-9	C10	On
Con elements	C10-22,C111-9	C11	On
Contrast		C12	On
Magn. preparation	Non-sel, IR	—— C13	On
TI 1	700 ms	C14	On
TI 2	2400 ms	Positioning mode	FIX
Flip angle 1	4 deg	MSMA	S - C - T
Flip angle 2	5 deg		
	_	Sagittal	R >> L
Fat suppr.	None	Coronal	A >> P
Water suppr.	None	Transversal	F >> H
2nd Inversion Contrast	On	Save uncombined	Off
Averaging mode	Long term	Coil Combine Mode	Adaptive Combine
Reconstruction	Magnitude	AutoAlign	
Measurements	1	Auto Coil Select	Default
Multiple series	Each measurement	Shim mode	Standard
·	Lacii incasarenient	Adjust with body coil	Off
Resolution	000	Confirm freq. adjustment	Off
Base resolution	368	Assume Silicone	Off
Phase resolution	100 %	! Ref. amplitude 1H	365.000 V
Slice resolution	100 %	Adjustment Tolerance	Auto
Phase partial Fourier	6/8		Auto
Slice partial Fourier	Off	Adjust volume	L 4 0 D40 5 F04 5
		! Position	L4.0 P13.5 F24.5
PAT mode	GRAPPA	! Orientation	Sagittal
Accel. factor PE	2	! Rotation	78.79 deg
Ref. lines PE	28	! A >> P	43 mm
Accel. factor 3D	1	! F >> H	194 mm
Reference scan mode	Integrated	! R >> L	26 mm

1	1st Signal/Mode	None
	Dark blood	Off
	Resp. control	Off
_	Composing	
	Sequence	
	Introduction Dimension Elliptical scanning Asymmetric echo Contrasts Bandwidth Flow comp. Echo spacing	Off 3D Off Allowed 1 220 Hz/Px No 6.3 ms
	RF pulse type Gradient mode Excitation RF spoiling	Normal Normal Non-sel. On
	FFT Scale Factor LIN/PAR Swap Ext. INV Pulse Flip Angle Uniform Image Head Mask on UNI T1 Map Complex Div. Image Denoise Weighting FLAWS	100 % Off On 180 On Off On Off On Off On Off

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\ep2D_0p85_R2PF6_TE30_BW1132_Ref TA: 10:11 PAT: 2 Voxel size: 0.9×0.9×3.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_bold

Properties		Series	Ascending
Properties Prio Recon	Off	Special set	
Before measurement	Oil	Special sat.	None
After measurement		Table position	Н
Load to viewer	On	Table position	0 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On	System	
Load to stamp segments	Off	C15	On
Load images to graphic	Off	C16	On
segments	-	C17	On
Auto open inline display	Off	C18	On
Start measurement without	On	C19	On
further preparation		C20	On
Wait for user to start	Off	C21	On
Start measurements	single	C22	On
Routine		Ch1	On
Slice group 1		- Ch2	On
Slices	16	Ch3	On
Dist. factor	0 %	Ch4	On
Position	L4.1 A2.9 F2.9	Ch5	On
Orientation	T > C3.9	Ch6	On
Phase enc. dir.	A >> P	Ch7	On
Rotation	0.00 deg	Ch8	On
Phase oversampling	0 %	Ch9	On
FoV read	164 mm	C10	On
FoV phase	100.0 %	C11	On
Slice thickness	3.00 mm	C12	On
TR	1290 ms	C13	On
TE	30 ms	C14	On
Multi-band accel. factor	1	Positioning mode	FIX
Filter	Raw filter	MSMA	S - C - T
Coil elements	C10-22;Ch1-9	Sagittal	R >> L
Contrast		Coronal	A >> P
MTC	Off	- Transversal	F >> H
Magn. preparation	None	Coil Combine Mode	Sum of Squares
Flip angle	68 deg	AutoAlign	
Fat suppr.	None	Auto Coil Select	Default
		Shim mode	Standard
Averaging mode	Long term	Adjust with body coil	Off
Reconstruction	Magnitude	Confirm freq. adjustment	Off
Measurements	466	Assume Silicone	Off
Delay in TR	0 ms	? Ref. amplitude 1H	0.000 V
Multiple series	Off	Adjustment Tolerance	Auto
Resolution		Adjust volume	
Base resolution	192	! Position	L4.7 P8.8 F2.4
Phase resolution	100 %	! Orientation	Sagittal
Phase partial Fourier	6/8	! Rotation	-4.15 deg
Interpolation	Off	! F >> H	60 mm
PAT mode	GRAPPA	! A >> P	40 mm
Accel. factor PE	2	! R >> L	52 mm
Ref. lines PE	52	Physio	
Reference scan mode	GRE	1st Signal/Mode	None
	-		
Distortion Corr.	Off	BOLD	
Prescan Normalize	Off	GLM Statistics	Off
Raw filter	On	Dynamic t-maps	Off
Intensity	Weak	Starting ignore meas	0
Slope	25	Ignore after transition	0
Elliptical filter	Off	Model transition states	Off Off
Hamming	Off	Temp. highpass filter Threshold	Off
Geometry			4.00 20
Multi-slice mode	Interleaved	- Paradigm size	20
1		24/:	

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

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\ep3D_0p85_R2x1_TE11p2_EPIfac16_B\

TA: 10:14 PAT: 2 Voxel size: 0.9×0.9×3.0 mm Rel. SNR: 1.00 USER: dzne_ep3d_fmri Prescan Normalize Off Properties Normalize Off Prio Recon Off B1 filter Off Before measurement Raw filter On After measurement Intensity Weak On Load to viewer Slope 25 Inline movie Off Elliptical filter Off Auto store images On Geometry Load to stamp segments Off Load images to graphic Off Multi-slice mode Interleaved segments Series Ascending Off Auto open inline display Saturation mode Standard Start measurement without On further preparation Table position Н Off Wait for user to start Table position 0 mm Start measurements single Inline Composing Off Routine System Slab group 1 On C15 Slabs C16 On Position L4.1 A2.9 F2.9 C17 On Orientation T > C3.9C18 On Phase enc. dir. A >> P C19 On Rotation 0.00 deg C20 On Slab Scale -10 % C21 On Slices per slab 16 C22 On FoV read 164 mm Ch1 On FoV phase 100.0 % Ch2 On Slice thickness 3.00 mm Ch3 On TR 2300 ms Ch4 On TE 1 11.2 ms Ch5 On **Averages** Ch6 On Multi-echo Shots Ch7 On Filter Raw filter Ch8 On Coil elements C10-22;Ch1-9 Ch9 On C10 On Contrast C11 On Multi-echo spacing 17.18 ms C12 On MTC Off C13 On Magn. preparation None C14 On 900 ms Flip angle 11 deg Positioning mode FIX Fat suppr. S-C-T None **MSMA** Sagittal R >> L Averaging mode Long term Coronal A >> P Reconstruction Magnitude Transversal F >> H Measurements 264 Save uncombined Off Pause after meas. 0.0 sCoil Combine Mode Sum of Squares Resolution AutoAlign 192 Base resolution Auto Coil Select Default 100 % Phase resolution Shim mode Standard Slice resolution 100 % Adjust with body coil Off Phase partial Fourier Off Freq. adjust Off Slice partial Fourier Off Assume Silicone Off Interpolation Off ? Ref. amplitude 1H 0.000 V PAT mode **GRAPPA** Adjustment Tolerance Auto Acc. factor PE Adjust volume 2 Ref. lines PE Position L4.7 P8.8 F2.4 52 Acc. factor 3D ! Orientation Sagittal 1 Ref. lines 3D ! Rotation -4.15 deg 60 mm Reference Scan Mode GRE/separate !F>>H ! A >> P 40 mm **EmptyIceProgram** Off !R >> L 52 mm Image Filter Off

Composing

Off

Distortion Corr.

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

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\ep3D_0p85_R2x1_TE8p04_EPIfac10_B\

TA: 10:17 PAT: 2 Voxel size: 0.9×0.9×3.0 mm Rel. SNR: 1.00 USER: dzne_ep3d_fmri Prescan Normalize Off Properties Normalize Off Prio Recon Off B1 filter Off Before measurement Raw filter On After measurement Intensity Weak On Load to viewer Slope 25 Inline movie Off Elliptical filter Off Auto store images On Geometry Load to stamp segments Off Load images to graphic Off Multi-slice mode Interleaved segments Series Ascending Off Auto open inline display Saturation mode Standard Start measurement without On further preparation Table position Н Off Wait for user to start Table position 0 mm Start measurements single Inline Composing Off Routine System Slab group 1 On C15 Slabs C16 On Position L4.1 A2.9 F2.9 C17 On Orientation T > C3.9C18 On Phase enc. dir. A >> P C19 On Rotation 0.00 deg C20 On Slab Scale -10 % C21 On Slices per slab 16 C22 On FoV read 164 mm Ch1 On FoV phase 100.0 % Ch2 On Slice thickness 3.00 mm Ch3 On TR 2800 ms Ch4 On TE 1 8.04 ms Ch5 On **Averages** Ch6 On Multi-echo Shots Ch7 On Filter Raw filter Ch8 On Coil elements C10-22;Ch1-9 Ch9 On C10 On Contrast C11 On Multi-echo spacing 11.32 ms C12 On MTC Off C13 On Magn. preparation None C14 On 900 ms Flip angle 9 dea Positioning mode FIX Fat suppr. S-C-T None **MSMA** Sagittal R >> L Averaging mode Long term Coronal A >> P Reconstruction Magnitude Transversal F >> H Measurements 218 Save uncombined Off Pause after meas. 0.0 sCoil Combine Mode Sum of Squares Resolution AutoAlign 192 Base resolution Auto Coil Select Default 100 % Phase resolution Shim mode Standard Slice resolution 100 % Adjust with body coil Off Phase partial Fourier Off Freq. adjust Off Slice partial Fourier Off Assume Silicone Off Interpolation Off ? Ref. amplitude 1H 0.000 V PAT mode **GRAPPA** Adjustment Tolerance Auto Acc. factor PE Adjust volume 2 Ref. lines PE Position L4.7 P8.8 F2.4 52 Acc. factor 3D ! Orientation Sagittal 1 Ref. lines 3D ! Rotation -4.15 deg 60 mm Reference Scan Mode GRE/separate !F>>H ! A >> P 40 mm **EmptyIceProgram** Off !R >> L 52 mm Image Filter Off Off Composing Distortion Corr.

1100	
oduction	On
nension	3D
otical scanning	Off
ordering	Linear
	Off
ntrasts	1
	1302 Hz/Px
o spacing	1.03 ms
factor	10
mentation	10
	Normal
	Fast
itation	Slab-sel.
spoiling	On
. •	
 ΓRef FA	5 dea
	5 deg 2560 us
ΓRef FA	5 deg
ΓRef FA duration	5 deg 2560 us
FRef FA duration BWT product	5 deg 2560 us 30
TRef FA duration BWT product st T1	5 deg 2560 us 30 1300 ms
TRef FA duration BWT product st T1 FRef prep. shots	5 deg 2560 us 30 1300 ms 200
TRef FA duration BWT product st T1 FRef prep. shots ume dummy shots nmy Measurements grated PC	5 deg 2560 us 30 1300 ms 200
FRef FA duration BWT product st T1 FRef prep. shots ume dummy shots nmy Measurements grated PC ert PE	5 deg 2560 us 30 1300 ms 200 0
FRef FA duration BWT product st T1 FRef prep. shots ume dummy shots nmy Measurements grated PC ert PE ter Exc.	5 deg 2560 us 30 1300 ms 200 0 0 Off Off
TRef FA duration BWT product st T1 TRef prep. shots ume dummy shots mmy Measurements grated PC ert PE ter Exc. ase Correction	5 deg 2560 us 30 1300 ms 200 0 Off Off -none- per Blade
TRef FA duration BWT product st T1 TRef prep. shots ume dummy shots nmy Measurements grated PC ert PE ter Exc. ase Correction rise time factor	5 deg 2560 us 30 1300 ms 200 0 0 Off Off -none- per Blade 1.10
TRef FA duration BWT product st T1 TRef prep. shots ume dummy shots mmy Measurements grated PC ert PE ter Exc. ase Correction	5 deg 2560 us 30 1300 ms 200 0 Off Off -none- per Blade
	oduction nension otical scanning ordering mmetric echo ntrasts ndwidth no spacing factor gmentation pulse type dient mode itation spoiling

Properties		Table position	0 mm
	Off	Inline Composing	Off
Prio Recon Before measurement	Oil	System	
After measurement		C15	On
Load to viewer	On	C16	On
Inline movie	Off	C17	On
Auto store images	On	C18	On
Load to stamp segments	Off	C19	On
Load images to graphic	Off	C20	On
segments	.	C21	On
Auto open inline display	Off	C22	On
Start measurement without	On	Ch1	On
further preparation	•	Ch2	On
Wait for user to start	Off	Ch3	On
Start measurements	single	Ch4	On
I	g	Ch5	On
Routine		Ch6	On
Slice group 1		Ch7	On
Slices	20	Ch8	On
Dist. factor	20 %	Ch9	On
Position	L4.5 A1.0 F3.9	C10	On
Orientation	Sagittal	C11	On
Phase enc. dir.	A >> P	C12	On
Rotation	0.00 deg	C13	On
Phase oversampling	0 %	C14	On
FoV read	200 mm		
FoV phase	100.0 %	Positioning mode	FIX
Slice thickness	2.0 mm	MSMA	S-C-T
TR	150.0 ms	Sagittal	R >> L
TE 1	3.06 ms	Coronal	A >> P
TE 2	4.08 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1	Coil Combine Mode	Sum of Squares
Filter	None	AutoAlign	
Coil elements	C10-22;Ch1-9	Auto Coil Select	Default
Contrast		Shim mode	Standard
MTC	Off	Adjust with body coil	Off
Flip angle	19 deg	Confirm freq. adjustment	Off
Fat suppr.	None	Assume Silicone	Off
Averaging made	Chart tarm	? Ref. amplitude 1H	0.000 V
Averaging mode	Short term	Adjustment Tolerance	Auto
Reconstruction Measurements	Magn./Phase	Adjust volume	
) O#	! Position	L4.7 P8.8 F2.4
Multiple series	Off	! Orientation	Sagittal
Resolution		! Rotation	-4.15 deg
Base resolution	190	! F >> H	60 mm
Phase resolution	100 %	! A >> P	40 mm
Phase partial Fourier	Off	! R >> L	52 mm
Interpolation	Off	Composing	
Image Filter	Off		
Distortion Corr.	Off	Sequence	
Prescan Normalize	Off	Introduction	On
Normalize	Off	Dimension	2D
B1 filter	Off	Asymmetric echo	Off
Raw filter	Off	Contrasts	2
Elliptical filter	Off	Bandwidth	797 Hz/Px
1 .		Flow comp.	No
Geometry	Interlegued	RF pulse type	Normal
Multi-slice mode	Interleaved	Gradient mode	Fast
Series	Interleaved	RF spoiling	On
Special sat.	None	•	
Table position	Н		
Table position	• •		

\\USER\Alan\History\20230621_1300_Traveling_Spine_CoilQA_fMRI\gre_B0_tra
TA: 0:59 Voxel size: 1.1×1.1×3.0 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

Properties	0"	Table position Inline Composing	0 mm Off
Prio Recon Before measurement	Off	System	
After measurement		C15	On
Load to viewer	On	C16	On
Inline movie	Off	C17	On
Auto store images	On	C18	On
Load to stamp segments	Off	C19	On
Load images to graphic	Off	C20	On
segments		C21	On
Auto open inline display	Off	C22	On
Start measurement without	On	Ch1	On
further preparation		Ch2	On
Wait for user to start	Off	Ch3	On
Start measurements	single	Ch4	On
Routine		Ch5	On
		Ch6	On
Slice group 1 Slices	16	Ch7	On
Dist. factor	0 %	Ch8	On
Position	L4.1 A2.9 F2.9	Ch9	On
Orientation	T > C3.9	C10	On
Phase enc. dir.	A >> P	C11	On
Rotation	0.00 deg	C12	On
Phase oversampling	0 %	C13	On
FoV read	200 mm	C14	On
FoV phase	100.0 %	Positioning mode	FIX
Slice thickness	3.0 mm	MSMA	S - C - T
TR	150.0 ms	Sagittal	R >> L
TE 1	3.06 ms	Coronal	A >> P
TE 2	4.08 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1	Coil Combine Mode	Sum of Squares
Filter	None	AutoAlign	
Coil elements	C10-22;Ch1-9	Auto Coil Select	Default
Contrast		Shim mode	Standard
MTC	Off	Adjust with body coil	Off
Flip angle	19 deg	Confirm freq. adjustment	Off
Fat suppr.	None	Assume Silicone	Off
1 at Suppr.		? Ref. amplitude 1H	0.000 V
Averaging mode	Short term	Adjustment Tolerance	Auto
Reconstruction	Magn./Phase	Adjust volume	71010
Measurements	1	! Position	L4.7 P8.8 F2.4
Multiple series	Off	! Orientation	Sagittal
Resolution		! Rotation	-4.15 deg
Base resolution	190	! F >> H	60 mm
Phase resolution	100 %	! A >> P	40 mm
Phase partial Fourier	Off	! R >> L	52 mm
Interpolation	Off	ı	
		Composing	
Image Filter	Off	Sequence	
Distortion Corr.	Off	Introduction	On
Prescan Normalize	Off	Dimension	2D
Normalize	Off	Asymmetric echo	Off
B1 filter	Off	Contrasts	2
Raw filter	Off	Bandwidth	797 Hz/Px
Elliptical filter	Off	Flow comp.	No
Geometry			Normal
Multi-slice mode	Interleaved	RF pulse type Gradient mode	Fast
		J GIAUICIIL IIIUUC	1-491
Series	Interleaved	PE spoiling	On
		RF spoiling	On
Series Special sat.		RF spoiling	On

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		preSatTFL_satFA80_sag_2p5mm_FOV320_RefV350V			
		2DREAM_sag_FOV384_2p5mm_RefV350V			
		2DREAM_sag_FOV200_2p5mm_RefV350V			
		2DREAM_sag_FOV200_2p5mm_RefV234V			
		2DREAM_sag_FOV200_2p5mm_RefV450V			
		CoilQA_sag_HF_FOV384_1p5x1p5x2p0			
		CoilQA_sag_HF_FOV192_1p5x1p5x2p0			
		CoilQA_axi_RL_FOV192_0p5x0p5x5p0			
		gre_2D_2mmlso_RefV350_uncombined			
		gre_2D_2mmlso_RefV350_uncombined_noDC			
		gre_2D_2mmlso_RefV350_uncombined_noDC			
		preSatTFL_sag_2p5mm_FOV320_RefV365V			
		t1_mp2r_wip944_3D_cor_0p7iso_p2_RefV365			
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		gre_B0_sag			
		gre_B0_tra			