$\verb|\USER\A| an\History\20230622_1210_Traveling_Spine_CoilQA_phantom\\|\Localizer_bs_csc||$ TA: 0:52 PAT: 2 Voxel size: 1.2x1.2x5.0 mm Rel. SNR: 1.00 SIEMENS: gre

		Phase resolution	100 %
Properties		Phase partial Fourier	Off
Prio Recon	Off	Interpolation	Off
Before measurement		DAT	CDADDA
After measurement	On	PAT mode	GRAPPA
Load to viewer Inline movie	On Off	Accel. factor PE Ref. lines PE	2 32
	On	Reference scan mode	
Auto store images Load to stamp segments	Off	Reference scan mode	Integrated
Load images to graphic	Off	Image Filter	Off
segments	Oli	Distortion Corr.	Off
Auto open inline display	Off	Prescan Normalize	Off
Start measurement without	On	Normalize	Off
further preparation	011	B1 filter	Off
Wait for user to start	Off	Raw filter	Off
Start measurements	single	Elliptical filter	On
Routine	3	Mode	Inplane
Slice group 1		Geometry	
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		140110
Rotation	0.00 deg	Table position	Н
Slice group 2		Table position	П 0 mm
Slices	33	Inline Composing	Off
Dist. factor	100 %		
Position	Isocenter	Tim CT mode	Off
Orientation	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 TR	5.0 mm 6.2 ms	Ch5	On
TE	2.67 ms	Ch6	On
Averages	1	Ch7	On
Concatenations	57	Ch8	On
Filter	Elliptical filter	Ch9	On
Coil elements	C10-22;Ch1-9	C10	On
1	0.10 22,0111 0	C11	On
Contrast		C12 C13	On On
TD	0 ms	C14	On
MTC Magn propagation	Off		
Magn. preparation Flip angle	None	Positioning mode	FIX
Fat suppr.	10 deg None	MSMA	S - C - T
Water suppr.	None	Sagittal	R >> L
SWI	Off	Coronal	A >> P
		Transversal	F >> H
Averaging mode	Short term	Save uncombined	Off
Reconstruction	Magnitude	Coil Combine Mode	Adaptive Combine
Measurements	1 .	AutoAlign Auto Coil Select	Off
Multiple series	Each measurement		
Resolution		Shim mode	Standard
Base resolution	256	Adjust with body coil	Off Off
	4	Confirm freq. adjustment	Oil
		/ ·	

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\20230622_1210_Traveling_Spine_CoilQA_phantom\Localizer_bs_csc
TA: 0:52 PAT: 2 Voxel size: 1.2×1.2×5.0 mm Rel. SNR: 1.00 SIEMENS: gre

		Dhace recolution	100 %
Properties		Phase resolution - Phase partial Fourier	100 % Off
Prio Recon	Off	Interpolation	Off
Before measurement			
After measurement		PAT mode	GRAPPA
Load to viewer	On	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			mpiano
Slice group 1		Geometry	
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	Table position	 Н
Slice group 2		Table position Table position	П 0 mm
Slices	33	Inline Composing	Off
Dist. factor	100 %	Initite Composing	OII
Position	Isocenter	Tim CT mode	Off
Orientation	Transversal	System	
Phase enc. dir.	A >> P	System	On
Rotation	0.00 deg	C15 C16	On On
Slice group 3		C16	On
Slices	15		On
Dist. factor	100 %	C18	_
Position	Isocenter	C19 C20	On
Orientation	Coronal	C20 C21	On On
Phase enc. dir.	R >> L	C21	On
Rotation	0.00 deg	Ch1	On
Phase oversampling	0 %	Ch2	On
FoV read	300 mm	Ch3	On
FoV phase	100.0 %		
Slice thickness	5.0 mm	Ch4 Ch5	On On
TR	6.2 ms	Ch6	On
TE	2.67 ms	Cho Ch7	On
Averages	1	Ch8	On
Concatenations	57	Ch9	On
Filter	Elliptical filter	C10	On
Coil elements	C10-22;Ch1-9	C11	On
1		C12	On
Contrast	0.00	- C13	On
TD	0 ms	C14	On
MTC Magn propagation	Off		
Magn. preparation	None	Positioning mode	FIX
Flip angle	10 deg	MSMA	S - C - T
Fat suppr.	None	Sagittal	R >> L
Water suppr.	None Off	Coronal	A >> P
SWI	OII	Transversal	F >> H
Averaging mode	Short term	Save uncombined	Off
Reconstruction	Magnitude	Coil Combine Mode	Adaptive Combine
Measurements	1	AutoAlign	
Multiple series	Each measurement	Auto Coil Select	Off
Resolution		Shim mode	Standard
Base resolution	256	Adjust with body coil	Off
Dase resolution	200	Confirm freq. adjustment	Off
		3/+	

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
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 Wash - In Wash - Out TTP PEI MIP - time MapIt Contrasts	Off
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\20230622_1210_Traveling_Spine_CoilQA_phantom\preSatTFL_satFA90_sag_2p5mm_F

TA: 1:20 PAT: Off	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USE	R: tfl_WIP543_B1map
Properties		B1 filter	Off
Prio Recon	Off	Raw filter	Off
Before measurement	Oll	Elliptical filter	Off
After measurement	_	Geometry	
Load to viewer	On	Multi-slice mode	Interleaved
Inline movie	Off	Series	Interleaved
Auto store images	On		
Load to stamp segments	Off	Table position	Н
Load images to graphic	Off	Table position	0 mm
segments	2"	Inline Composing	Off
Auto open inline display	Off	System	
Start measurement without	On	C15	On
further preparation	0"	C16	On
Wait for user to start	Off	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	Ğ	Ch5	On
Slices	28	Ch6	On
Dist. factor	100 %	Ch7	On
Position	L2.5 A32.0 H0.0	Ch8	On
Orientation	Sagittal	Ch9	On
Phase enc. dir.	A >> P	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		FIV
TR	20000 ms	Positioning mode	FIX
TE	2.84 ms	MSMA	S-C-T
Averages	1	Sagittal	R >> L
Concatenations	2	Coronal	A >> P
Filter	None	Transversal	F >> H
Coil elements	C10-22;Ch1-9	Save uncombined	Off
Contrast		Coil Combine Mode	Sum of Squares
TD	0 ms	AutoAlign Auto Coil Select	Default
Magn. preparation	None	Auto Coil Select	Default
Flip angle	10 deg	Shim mode	Standard
Fat suppr.	None	Adjust with body coil	Off
Water suppr.	None	Confirm freq. adjustment	Off
		Assume Silicone	Off
Averaging mode	Long term	! Ref. amplitude 1H	300.000 V
Reconstruction	Magnitude	Adjustment Tolerance	Auto
Measurements	1	Adjust volume	
Multiple series	Each measurement	Position	L1.3 A32.0 H0.0
Resolution		Orientation	Sagittal
Base resolution	128	Rotation	0.00 deg
Phase resolution	100 %	F >> H	320 mm
Phase partial Fourier	Off	A >> P	220 mm
Interpolation	Off	R >> L	140 mm
		Physio	
PAT mode	None	1st Signal/Mode	None
Image Filter	Off	Dark blood	Off
Distortion Corr.	Off	Dark blood	Off
Prescan Normalize	Off	Resp. control	Off
Normalize	Off	Inline	
	É	7/+	

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

Sequence

_	oquence	
	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	90 deg
	Sat Thick	5.0 mm
	RF Duration	2000 us
	no ref scans	1 #
	TX array B1 mapping	Off
1	=apping	•

\\USER\Alan\History\20230622_1210_Traveling_Spine_CoilQA_phantom\preSatTFL_satFA70_sag_2p5mm_F 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 422,000 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

Sequence

	Ocquerioc	
ſ	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	70 deg
	Sat Thick	5.0 mm
	RF Duration	2000 us
	no ref scans	1#
	TX array B1 mapping	Off
1	and, brinapping	U II

\\USER\Alan\History\20230622_1210_Traveling_Spine_CoilQA_phantom\2DREAM_sag_FOV384_2p5mm_Re 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	C16	On
Inline movie	Off	C17	On
Auto store images	On	C18	On
Load to stamp segments	Off	C20	On
Load to stamp segments Load images to graphic	Off	C20 C21	On On
segments	Oii	C22	On
Auto open inline display	Off	C22 Ch1	On
Start measurement without	On	Ch2	On
further preparation	OII	Ch3	On
Wait for user to start	Off	Ch3	On
Start measurements	single	Ch5	On
ļ	Sirigio	Ch6	On
Routine		Ch6 Ch7	On
Slice group 1		Ch7 Ch8	On
Slices	11	Ch9	On
Dist. factor	0 %	C19	On
Position	L6.0 A14.0 H0.0	C10	On
Orientation	Sagittal	C11	On On
Phase enc. dir.	A >> P	C12	On On
Rotation	0.00 deg	C13	On On
FoV read	384 mm	U14	OII
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	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	•		Ctondord
Flip angle 1	50 deg	Shim mode	Standard Off
. •	S .	Adjust with body coil Confirm freq. adjustment	Off
		Commin neg. adjustment	Oli
Flip angle 2	6 deg		Off
Averaging mode	Long term	Assume Silicone	Off
		Assume Silicone ! Ref. amplitude 1H	422.000 V
Averaging mode	Long term	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance	_
Averaging mode Reconstruction Measurements	Long term	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume	422.000 V Auto
Averaging mode Reconstruction Measurements Resolution	Long term Magnitude 1	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position	422.000 V Auto L6.0 A14.0 H0.0
Averaging mode Reconstruction Measurements Resolution Base resolution	Long term Magnitude 1	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation	422.000 V Auto L6.0 A14.0 H0.0 Sagittal
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution	Long term Magnitude 1 152 100 %	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier	Long term Magnitude 1 152 100 % Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution	Long term Magnitude 1 152 100 %	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier	Long term Magnitude 1 152 100 % Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	Long term Magnitude 1 152 100 % Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter	Long term Magnitude 1 152 100 % Off Off None	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	Long term Magnitude 1 152 100 % Off Off None Off On	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode	Long term Magnitude 1 152 100 % Off Off None Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images	Long term Magnitude 1 152 100 % Off Off Off None Off On 3D On	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode	Long term Magnitude 1 152 100 % Off Off Off None Off On 3D	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize	Long term Magnitude 1 152 100 % Off Off None Off On 3D On Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter	Long term Magnitude 1 152 100 % Off Off None Off On 3D On Off Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm On 2D Off
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter	Long term Magnitude 1 152 100 % Off Off None Off On 3D On Off Off Off Off Off Off Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm On 2D Off 2 910 Hz/Px 4.9 ms
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter	Long term Magnitude 1 152 100 % Off Off None Off On 3D On Off Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm On 2D Off 2 910 Hz/Px 4.9 ms
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry	Long term Magnitude 1 152 100 % Off Off Off None Off On 3D On Off Off Off Off Off Off Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm On 2D Off 2 910 Hz/Px 4.9 ms 72 Fast
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode	Long term Magnitude 1 152 100 % Off Off Off None Off On 3D On Off Off Off Off Off Off Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type Gradient mode	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm On 2D Off 2 910 Hz/Px 4.9 ms 72 Fast Fast
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry	Long term Magnitude 1 152 100 % Off Off Off None Off On 3D On Off Off Off Off Off Off Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type Gradient mode Excitation	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm On 2D Off 2 910 Hz/Px 4.9 ms 72 Fast Fast Slice-sel.
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode Series	Long term Magnitude 1 152 100 % Off Off Off On 3D On Off Off Off Off Off Off Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type Gradient mode Excitation Flip angle mode	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm On 2D Off 2 910 Hz/Px 4.9 ms 72 Fast Fast Fast Slice-sel. Constant
Averaging mode Reconstruction Measurements Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode	Long term Magnitude 1 152 100 % Off Off Off None Off On 3D On Off Off Off Off Off Off Off Off Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation F >> H A >> P R >> L Composing Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type Gradient mode Excitation	422.000 V Auto L6.0 A14.0 H0.0 Sagittal 0.00 deg 384 mm 182 mm 28 mm On 2D Off 2 910 Hz/Px 4.9 ms 72 Fast Fast Slice-sel.

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\20230622_1210_Traveling_Spine_CoilQA_phantom\2DREAM_sag_FOV200_2p5mm_Re 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	Oll	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		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
Slice group 1		Ch7	On
Slice group 1	11	Ch8	On
Dist. factor	0 %	Ch9	On
Position	L6.0 A24.0 H0.0	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
Contrast		Shim mode	Standard
Flip angle 1	50 deg	Adjust with body coil	Off
Flip angle 2	6 deg	Confirm freq. adjustment	Off
		Assume Silicone	Off
Averaging mode	Long term	? Ref. amplitude 1H	0.000 V
Reconstruction	Magnitude	Adjustment Tolerance	Auto
Measurements	1	Adjust volume	
Resolution		Position	L6.0 A24.0 H0.0
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
DAT mode	None	··· R >> L	28 mm
I PAT Mode			
PAT mode		··· Composing	
Image Filter	Off		
Image Filter Distortion Corr.	Off On	Sequence	On
Image Filter Distortion Corr. Mode	Off On 3D	Sequence Introduction	On 2D
Image Filter Distortion Corr. Mode Unfiltered images	Off On 3D On	Sequence Introduction Dimension	2D
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize	Off On 3D On Off	Sequence Introduction Dimension Asymmetric echo	2D Off
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize	Off On 3D On Off Off	Sequence Introduction Dimension Asymmetric echo Contrasts	2D Off 2
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter	Off On 3D On Off Off	Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth	2D Off 2 1010 Hz/Px
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter	Off On 3D On Off Off Off Off	Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing	2D Off 2 1010 Hz/Px 4.8 ms
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter	Off On 3D On Off Off	Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor	2D Off 2 1010 Hz/Px 4.8 ms
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter	Off On 3D On Off Off Off Off Off Off Off	Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type	2D Off 2 1010 Hz/Px 4.8 ms 80 Fast
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter	Off On 3D On Off Off Off Off Off Off Off Off Off	Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type Gradient mode	2D Off 2 1010 Hz/Px 4.8 ms 80 Fast Fast
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter	Off On 3D On Off Off Off Off Off Off Off	Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type Gradient mode Excitation	2D Off 2 1010 Hz/Px 4.8 ms 80 Fast Fast Slice-sel.
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode Series	Off On 3D On Off Off Off Off Off Off Off Off Sequential Ascending	Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type Gradient mode Excitation Flip angle mode	2D Off 2 1010 Hz/Px 4.8 ms 80 Fast Fast Slice-sel. Constant
Image Filter Distortion Corr. Mode Unfiltered images Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode	Off On 3D On Off Off Off Off Off Off Off Off Off	Sequence Introduction Dimension Asymmetric echo Contrasts Bandwidth Echo spacing Turbo factor RF pulse type Gradient mode Excitation	2D Off 2 1010 Hz/Px 4.8 ms 80 Fast Fast Slice-sel.

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\20230622_1210_Traveling_Spine_CoilQA_phantom\2DREAM_sag_FOV200_2p5mm_Re 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		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		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	L6.0 A24.0 H0.0	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
Contrast		Shim mode	Standard
Flip angle 1	50 deg	Adjust with body coil	Off
Flip angle 2	6 deg	Confirm freq. adjustment	Off
		Assume Silicone	Off
Averaging mode	Long term	! Ref. amplitude 1H	281.000 V
Reconstruction	Magnitude	Adjustment Tolerance	Auto
Measurements	1	Adjust volume	
Resolution		Position	L6.0 A24.0 H0.0
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
PAT mode	None	R >> L	28 mm
		Composing	
Image Filter	Off		
Distortion Corr.	On	Sequence	0.5
Mode	3D	Introduction	On
Unfiltered images	On O"	Dimension	2D
Prescan Normalize	Off	Asymmetric echo	Off
	Off	Contrasts	2 1010 Hz/Px
Normalize			1010 H7/PY
Normalize B1 filter	Off	Bandwidth	
Normalize B1 filter Raw filter	Off Off	Echo spacing	4.8 ms
Normalize B1 filter	Off	Echo spacing Turbo factor	
Normalize B1 filter Raw filter	Off Off	Echo spacing Turbo factor RF pulse type	4.8 ms
Normalize B1 filter Raw filter Elliptical filter	Off Off	Echo spacing Turbo factor	4.8 ms 80
Normalize B1 filter Raw filter Elliptical filter Geometry	Off Off Off	Echo spacing Turbo factor RF pulse type Gradient mode Excitation	4.8 ms 80 Fast
Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode Series	Off Off Off Sequential Ascending	Echo spacing Turbo factor RF pulse type Gradient mode Excitation Flip angle mode	4.8 ms 80 Fast Fast
Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode	Off Off Off Sequential	Echo spacing Turbo factor RF pulse type Gradient mode Excitation	4.8 ms 80 Fast Fast Slice-sel.

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\20230622_1210_Traveling_Spine_CoilQA_phantom\2DREAM_sag_FOV200_2p5mm_Re 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
Properties Prio Recon	Off	System	
Before measurement	OII	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		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
Deutine		Ch6	On
Routine		Ch7	On
Slice group 1 Slices	11	Ch8	On
Dist. factor	11 0 %	Ch9	On
Position	0 % L6.0 A24.0 H0.0	C10	On
		C11	On
Orientation Phase enc. dir.	Sagittal A >> P	C12	On
		C13	On
Rotation FoV read	0.00 deg 200 mm	C14	On
FoV read 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 dog	Shim mode	Standard Off
Flip angle 1	50 deg	Adjust with body coil	Off
Flip angle 2	6 deg	Confirm freq. adjustment Assume Silicone	Off Off
Averaging mode	Long term		
Reconstruction	Magnitude	! Ref. amplitude 1H	450.000 V
Measurements	1	Adjustment Tolerance Adjust volume	Auto
Resolution		Position	L6.0 A24.0 H0.0
Base resolution	80	Orientation	Sagittal
Phase resolution	80 100 %	Rotation	0.00 deg
Phase resolution 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
B1 filter	Off	Bandwidth	1010 Hz/Px
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
Series	Ascending	Excitation	Slice-sel.
		Flip angle mode	Constant
Table position			- Cilotain
	Н		On
Table position	H 0 mm	RF spoiling	On

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

\\USER\Alan\History\20230622_1210_Traveling_Spine_CoilQA_phantom\CoilQA_sag_HF_FOV384_1p5x1p5x TA: 3:27 Voxel size: 1.5×1.5×2.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

Properties		Special sat.	None
Prio Recon	Off	Table position	H
Before measurement		Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On	1	
Inline movie	Off	System	
Auto store images	On	C15	On
Load to stamp segments	Off	C16	On
Load images to graphic	Off	C17	On
segments	0.11	C18	On
Auto open inline display	Off	C19	On
Start measurement without	On	C20	On
	On	C21	On
further preparation	0#	C22	On
Wait for user to start	Off	Ch1	On
Start measurements	single	Ch2	On
Routine		Ch3	On
Slice group 1		Ch4	On
Slices	13	Ch5	On
Dist. factor	20 %	Ch6	On
Position	L6.0 A24.0 H0.0	Cho	On
Orientation	Sagittal	Ch8	On
Phase enc. dir.	H >> F	Ch9	On
Rotation	90.00 deg	C10	On
Phase oversampling	0 %	C11	On
FoV read	384 mm	C12	On
FoV phase	100.0 %	C13	On
Slice thickness	2.0 mm	C14	On
TR	30 ms	Desitioning mode	FIV
TE	6.0 ms	Positioning mode	FIX
Averages	2	MSMA	S-C-T
Concatenations	13	Sagittal	R >> L
Filter	Distortion Corr.(2D)	Coronal	A >> P
Coil elements	C10-22;Ch1-9	Transversal	F >> H
1	0.0 ==,0 0	Save uncombined	Off
Contrast		Coil Combine Mode	Adaptive Combine
TD	0 ms	AutoAlign	
MTC	Off	Auto Coil Select	Default
Flip angle	12 deg	Shim mode	Standard
Fat suppr.	None		
Water suppr.	None	Adjust with body coil	Off
A very prince and de	Ch out to was	Confirm freq. adjustment	Off
Averaging mode	Short term	Assume Silicone	Off
Reconstruction	Magnitude	? Ref. amplitude 1H	0.000 V
Measurements	1	Adjustment Tolerance	Auto
Multiple series	Off	Adjust volume	
Resolution		! Position	L6.0 A8.7 F24.1
Base resolution	256	! Orientation	Sagittal
Phase resolution	100 %	! Rotation	78.79 deg
	Off	! A >> P	55 mm
Phase partial Fourier		! F >> H	139 mm
Interpolation	Off	! R >> L	26 mm
Image Filter	Off	Dhyoic	
Distortion Corr.	On	Physio	Niere
Mode	2D	1st Signal/Mode	None
Unfiltered images	Off	Inline	
Prescan Normalize	Off	Subtract	Off
Normalize	Off	Std-Dev-Sag	Off
B1 filter	Off	Std-Dev-Sag Std-Dev-Cor	Off
Raw filter			
	Off 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
	, 100011ail 19	MIP-Time	Off
		17/+	

	Save original images	On
ı	Sequence	
	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\20230622_1210_Traveling_Spine_CoilQA_phantom\CoilQA_sag_HF_FOV192_1p5x1p5x TA: 1:44 Voxel size: 1.5×1.5×2.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

Properties		Special sat.	None
Prio Recon	Off	Table position	ш
	Oil	Table position	H 0 mm
Before measurement		Table position	0 mm Off
After measurement Load to viewer	On	Inline Composing	OII
		System	
Inline movie	Off	C15	On
Auto store images	On O"	C16	On
Load to stamp segments	Off	C17	On
Load images to graphic	Off	C18	On
segments	•	C19	On
Auto open inline display	Off	C20	On
Start measurement without	On	C21	On
further preparation		C22	On
Wait for user to start	Off	Ch1	On
Start measurements	single	Ch2	On
Routine		Ch3	On
Slice group 1		Ch3	On
Slices	13	Ch5	On
Dist. factor	20 %	Ch6	On
Position	L6.0 A24.0 H0.0	Ch7	On
Orientation		Ch8	On
	Sagittal H >> F	Ch8	On On
Phase enc. dir.			_
Rotation	90.00 deg	C10	On
Phase oversampling	0 %	C11	On
FoV read	192 mm	C12	On
FoV phase	100.0 %	C13	On
Slice thickness	2.0 mm	C14	On
TR	30 ms	Positioning mode	FIX
TE	6.0 ms	MSMA	S - C - T
Averages	2	Sagittal	R >> L
Concatenations	13	Coronal	A >> P
Filter	Distortion Corr.(2D)	Transversal	F >> H
Coil elements	C10-22;Ch1-9	Save uncombined	Off
Contrast		Coil Combine Mode	Adaptive Combine
TD	0 ms	AutoAlign	Adaptive Combine
MTC	Off	Auto Coil Select	Default
Flip angle	12 deg		
	None	Shim mode	Standard
Fat suppr.		Adjust with body coil	Off
Water suppr.	None	Confirm freq. adjustment	Off
Averaging mode	Short term	Assume Silicone	Off
Reconstruction	Magnitude	? Ref. amplitude 1H	0.000 V
Measurements	1	Adjustment Tolerance	Auto
Multiple series	Off	Adjust volume	
•		! Position	L6.0 A8.7 F24.1
Resolution	400	! Orientation	Sagittal
Base resolution	128	! Rotation	78.79 deg
Phase resolution	100 %	! A >> P	55 mm
Phase partial Fourier	Off	! F >> H	139 mm
Interpolation	Off	! R >> L	26 mm
Image Filter	Off		
Distortion Corr.	On	Physio	
Mode	2D	1st Signal/Mode	None
		Inline	
Unfiltered images Prescan Normalize	On Off	Subtract	Off
Normalize			Off
	Off	Std-Dev-Sag	
B1 filter	Off Off	Std-Dev-Cor	Off
Raw filter	Off 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
		MIP-Time	Off
•		10/±	

	Save original images	On
I	Sequence	
	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\20230622_1210_Traveling_Spine_CoilQA_phantom\CoilQA_axi_RL_FOV192_0p5x0p5x5 TA: 2:53 Voxel size: 0.5×0.5×5.0 mm Rel. SNR: 1.00 USER: NoiseMeasSensitivityMap

Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement		Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On		
Inline movie	Off	System	
Auto store images	On	C15	On
Load to stamp segments	Off	C16	On
Load images to graphic	Off	C17	On
segments		C18	On
Auto open inline display	Off	C19	On
Start measurement without	On	C20	On
further preparation		C21	On
Wait for user to start	Off	C22	On
Start measurements	single	Ch1	On
Routine		Ch2	On
		Ch3	On On
Slice group 1	7	Ch4	On
Slices Diet feeter	7	Ch5	On On
Dist. factor	300 %	Ch6	On
Position	L6.0 A24.0 H0.0	Ch7	On
Orientation	Transversal	Ch8	On
Phase enc. dir.	R >> L	Ch9	On On
Rotation	90.00 deg	C10	On On
Phase oversampling FoV read	0 %	C11	On
	192 mm	C12	On On
FoV phase	100.0 %	C13	On
Slice thickness	5.0 mm	C14	On
TR	30 ms	Positioning mode	FIX
TE	6.0 ms	MSMA	S - C - T
Averages	2	Sagittal	R >> L
Concatenations	7	Coronal	A >> P
Filter	Distortion Corr.(2D)	Transversal	F >> H
Coil elements	C10-22;Ch1-9	Save uncombined	Off
Contrast		Coil Combine Mode	Adaptive Combine
TD	0 ms	AutoAlign	
MTC	Off	Auto Coil Select	Default
Flip angle	12 deg		0
Fat suppr.	None	Shim mode	Standard
Water suppr.	None	Adjust with body coil	Off
A	Ob	Confirm freq. adjustment	Off
Averaging mode	Short term	Assume Silicone	Off
Reconstruction	Magnitude	? Ref. amplitude 1H	0.000 V
Measurements	1	Adjustment Tolerance	Auto
Multiple series	Off	Adjust volume	160 49 7 524 4
Resolution		! Position ! Orientation	L6.0 A8.7 F24.1
Base resolution	384		Sagittal
Phase resolution	100 %	! Rotation ! A >> P	78.79 deg
Phase partial Fourier	Off		55 mm
Interpolation	Off	! F >> H	139 mm
		! R >> L	26 mm
Image Filter	Off	Physio	
Distortion Corr.	On	1st Signal/Mode	None
Mode	2D	1	
Unfiltered images	On Off	Inline	0"
Prescan Normalize	Off	Subtract	Off 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
		MIP-Time	Off

	Save original images	On
•	Sequence	
	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\20230622_1210_Traveling_Spine_CoilQA_phantom\gre_2D_2mmIso_RefV300_uncombin 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		miterieaveu
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		
segments		Tim CT 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	C17	On
ļ.	Single	C18	On
Routine			
Slice group 1		— C20	On
Slices	44	C21	On
Dist. factor	0 %	C22	On
Position	L6.0 A24.0 H0.0	Ch1	On
Orientation	Sagittal	Ch2	On
Phase enc. dir.	A >> P	Ch3	On
Rotation	0.00 deg	Ch4	On
Phase oversampling	0 %	Ch5	On
FoV read	384 mm	Ch6	On
FoV phase	75.0 %	Ch7	On
Slice thickness	2.0 mm	Ch8	On
TR	550 ms	Ch9	On
TE	3.87 ms	C10	On
Averages	1	C11	On
Concatenations	1	C12	On
Filter	Distortion Corr (2D)	C13	On
Coil elements	Distortion Corr.(3D)	C14	On
Coli 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
		AutoAlign	
Averaging mode	Short term	Auto Coil Select	Default
Reconstruction	Magn./Phase	China mada	Otomoloud
Measurements	1	Shim mode	Standard
Multiple series	Each measurement	Adjust with body coil	Off
Pacalution		Confirm freq. adjustment	Off
Resolution	100	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	L6.0 A24.0 H0.0
PAT mode	None	Orientation	Sagittal
		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	Dhyaia	
Prescan Normalize	Off	Physio	Nana
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
		(1)(1)	

Inline

Subtract		Off
Liver regis	tration	Off
Std-Dev-S	ag	Off
Std-Dev-C	or	Off
Std-Dev-T	ra	Off
Std-Dev-Ti	ime	Off
MIP-Sag		Off
MIP-Cor		Off
MIP-Tra		Off
MIP-Time		Off
Save origin	nal images	On
Wash - In		Off
Wash - Ou	ıt	Off
TTP		Off
PEI		Off
MIP - time		Off
MapIt		None
Contrasts		1
ı		

Sequence

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

\\USER\Alan\History\20230622_1210_Traveling_Spine_CoilQA_phantom\gre_2D_2mmIso_RefV300_uncombin TA: 1:21 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties	0.0	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	T: OT	
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
	5g.5	C21	_
Routine		—— C21	On
Slice group 1			On
Slices	44	Ch1	On
Dist. factor	0 %	Ch2	On
Position	L6.0 A24.0 H0.0	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
		C11	On
TR	550 ms	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
	None	Transversal	F >> H
Magn. preparation		Save uncombined	On
Flip angle	30 deg	Coil Combine Mode	Sum of Squares
Fat suppr.	None	AutoAlign	
Water suppr.	None	Auto Coil Select	Default
SWI	Off	Adio Odii Odiect	
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
Multiple series	Lacifileasurement	? Ref. amplitude 1H	0.000 V
Resolution		Adjustment Tolerance	Auto
Base resolution	192	Adjust volume	
Phase resolution	100 %	Position	L6.0 A24.0 H0.0
Phase partial Fourier	Off	Orientation	Sagittal
Interpolation	Off		
	OII	Rotation	0.00 deg
PAT mode	None	F >> H	384 mm
langua Cittar	O#	A >> P	288 mm
Image Filter	Off	R >> L	88 mm
Distortion Corr.	Off	Physio	
Prescan Normalize	Off	1st Signal/Mode	None
Normalize	Off	Segments	1
B1 filter	Off	Jeginenis	
Raw filter	Off	Tagging	None
Elliptical filter	Off	Dark blood	Off
•			
N = = = = + = .			
Geometry		Resp. control	Off
Geometry Multi-slice mode Series	Interleaved Interleaved	Resp. control	Off

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

Table of contents

\\USER

Alan			
	History		
		20230622_1210_Traveling_Spine_CoilQA_phantom	
		Localizer_bs_csc	
		Localizer_bs_csc	
		preSatTFL_satFA90_sag_2p5mm_FOV320_RefV300V	
		preSatTFL_satFA70_sag_2p5mm_FOV320_RefV422V	
		2DREAM_sag_FOV384_2p5mm_RefV300V	
		2DREAM_sag_FOV200_2p5mm_RefV422V	
		2DREAM_sag_FOV200_2p5mm_RefV281V	
		2DREAM_sag_FOV200_2p5mm_RefV450V	
		CoilQA_sag_HF_FOV384_1p5x1p5x2p0	
		CoilQA_sag_HF_FOV192_1p5x1p5x2p0	
		CoilQA_axi_RL_FOV192_0p5x0p5x5p0	
		gre_2D_2mmlso_RefV300_uncombined	
		gre_2D_2mmlso_RefV300_uncombined_noDC	