SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\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

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

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

Contrast

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

Resolution

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

Geometry

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

System

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

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

Physio

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

Inline

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

Sequence

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

\\USER\Alan\History\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

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

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

Contrast

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

Resolution

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

Geometry

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

System

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

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

Physio

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

Inline

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

Sequence

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

\\USER\Alan\History\20230622_1210_Traveling_Spine_CoilQA_phantom\preSatTFL_satFA90_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

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

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

Contrast

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

Resolution

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

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	300.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L1.3 A32.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	320 mm
A >> P	220 mm
R >> L	140 mm

Physio

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

Inline

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

Sequence

Introduction	Off
Dimension	2D
Reordering	Centric
Asymmetric echo	Allowed
Bandwidth	400 Hz/Px
Flow comp.	No
Echo spacing	5.7 ms
EPI factor	1
RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Prep Pulse	SINC
Sat Flip Angle	90 deg
Sat Thick	5.0 mm
RF Duration	2000 us
no ref scans	1 #
TX array B1 mapping	Off

\\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

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

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

Contrast

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

Resolution

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

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	422.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L1.3 A32.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	320 mm
A >> P	220 mm
R >> L	140 mm

Physio

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

Inline

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

Sequence

Introduction	Off
Dimension	2D
Reordering	Centric
Asymmetric echo	Allowed
Bandwidth	400 Hz/Px
Flow comp.	No
Echo spacing	5.7 ms
EPI factor	1
RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Prep Pulse	SINC
Sat Flip Angle	70 deg
Sat Thick	5.0 mm
RF Duration	2000 us
no ref scans	1 #
TX array B1 mapping	Off

\\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

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	11
Dist. factor	0 %
Position	L6.0 A14.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
FoV read	384 mm
FoV phase	47.4 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.15 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

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

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	422.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L6.0 A14.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	384 mm
A >> P	182 mm
R >> L	28 mm

Composing

Sequence

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

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

\\USER\Alan\History\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

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	11
Dist. factor	0 %
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.05 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

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

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	200 mm
A >> P	200 mm
R >> L	28 mm

Composing

Sequence

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

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

\\USER\Alan\History\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

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	11
Dist. factor	0 %
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.05 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

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

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	281.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	200 mm
A >> P	200 mm
R >> L	28 mm

Composing

Sequence

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

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

\\USER\Alan\History\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

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	11
Dist. factor	0 %
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.05 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

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

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	450.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	200 mm
A >> P	200 mm
R >> L	28 mm

Composing

Sequence

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

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

\\USER\Alan\History\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

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	13
Dist. factor	20 %
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Phase enc. dir.	H >> F
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30 ms
TE	6.0 ms
Averages	2
Concatenations	13
Filter	Distortion Corr.(2D)
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L6.0 A8.7 F24.1
! Orientation	Sagittal
! Rotation	78.79 deg
! A >> P	55 mm
! F >> H	139 mm
! R >> L	26 mm

Physio

1st Signal/Mode	None

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off

Save original images	On

Sequence

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

\\USER\Alan\History\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

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	13
Dist. factor	20 %
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Phase enc. dir.	H >> F
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30 ms
TE	6.0 ms
Averages	2
Concatenations	13
Filter	Distortion Corr.(2D)
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L6.0 A8.7 F24.1
! Orientation	Sagittal
! Rotation	78.79 deg
! A >> P	55 mm
! F >> H	139 mm
! R >> L	26 mm

Physio

1st Signal/Mode	None

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off

Save original images	On

Sequence

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

\\USER\Alan\History\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

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	7
Dist. factor	300 %
Position	L6.0 A24.0 H0.0
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	30 ms
TE	6.0 ms
Averages	2
Concatenations	7
Filter	Distortion Corr.(2D)
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

Base resolution	384
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	On
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L6.0 A8.7 F24.1
! Orientation	Sagittal
! Rotation	78.79 deg
! A >> P	55 mm
! F >> H	139 mm
! R >> L	26 mm

Physio

1st Signal/Mode	None

Inline

Subtract	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off

Save original images	On

Sequence

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

\\USER\Alan\History\20230622_1210_Traveling_Spine_CoilQA_phantom\gre_2D_2mmIso_RefV300_uncombi

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

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	44
Dist. factor	0 %
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
TR	550 ms
TE	3.87 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

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

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	384 mm
A >> P	288 mm
R >> L	88 mm

Physio

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

Inline

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

Sequence

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

\\USER\Alan\History\20230622_1210_Traveling_Spine_CoilQA_phantom\gre_2D_2mmIso_RefV300_uncombi

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

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	44
Dist. factor	0 %
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
TR	550 ms
TE	3.87 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	C10-22;Ch1-9

Contrast

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

Resolution

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

Geometry

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

System

C15	On
C16	On
C17	On
C18	On
C19	On
C20	On
C21	On
C22	On
Ch1	On
Ch2	On
Ch3	On
Ch4	On
Ch5	On
Ch6	On
Ch7	On
Ch8	On
Ch9	On
C10	On
C11	On
C12	On
C13	On
C14	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L6.0 A24.0 H0.0
Orientation	Sagittal
Rotation	0.00 deg
F >> H	384 mm
A >> P	288 mm
R >> L	88 mm

Physio

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

Inline

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

Sequence

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

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