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## \\INVESTIGATORS A-G\\BARRY\\7T TravelingSpine\\19062023\_THS\_Spinoza\\localizer\_CoilQA

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

## Properties

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

## Routine

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

## Contrast - Common

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

## Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1

## Contrast - Dynamic

Multiple series	Each measurement
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## Resolution - Common

FoV read	280 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	256
Phase resolution	75 %
Phase partial Fourier	Off
Interpolation	On

## Resolution - iPAT

PAT mode	None
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## Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

## Geometry - Common

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

## Geometry - AutoAlign

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

**Geometry - AutoAlign**

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

**Geometry - Saturation**

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

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

**Geometry - Tim CT**

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

**System - Miscellaneous**

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

**System - Adjustments**

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

**System - Adjust Volume**

! Position	L0.0 A25.1 F32.6 mm
! Orientation	Transversal
! Rotation	0.00 deg
! A >> P	175 mm
! R >> L	201 mm

**System - Adjust Volume**

! F >> H	259 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	454.100 V

**Physio - Signal1**

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

**Physio - Cardiac**

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

**Physio - PACE**

Resp. control	Off
Concatenations	9

**Inline - Common**

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

**Inline - MIP**

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

**Inline - Soft Tissue**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	On

**Inline - MapIt**

Save original images	On
MapIt	None
Flip angle	20 deg
Measurements	1
Contrasts	1
TR	7.7 ms
TE	3.67 ms

**Sequence - Part 1**

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

**Sequence - Part 2**

Segments	1
Acoustic noise reduction	Active
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

**Sequence - Assistant**

Mode	Off
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\\INVESTIGATORS A-G\\BARRY\\7T TravelingSpine\\19062023\_THS\_Spinoza\\tfl\_sag\_2p5mm\\SO\_largeFOV\_RefVolOpt\_C3C4

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

## Properties

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

## Routine

Slice group	2
Slices	28
Dist. factor	100 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	R0.3 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
TR	34420.0 ms
TE	2.31 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;

## Contrast - Common

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

## Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

## Resolution - Common

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

## Resolution - Common

Interpolation	Off
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## Resolution - iPAT

PAT mode	None
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### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	28
Dist. factor	100 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	R0.3 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
TR	34420.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R0.3 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L2.2 A30.0 F28.0
L	2.2 mm
A	30.0 mm
F	28.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
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**Geometry - Tim Planning Suite**

Table position	F
Table position	28 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	ISO
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	L0.9 A30.0 F28.0 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	208 mm
F >> H	341 mm
R >> L	140 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	454.100 V

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On

**Inline - Composing**

Mode	3D
Unfiltered images	On

**Sequence - Part 1**

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

**Sequence - Part 2**

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

**Sequence - Assistant**

Mode	Off
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\\INVESTIGATORS A-G\\BARRY\\7T TravelingSpine\\19062023\_THS\_Spinoza\\tfl\_sag\_2p5mm\\ISO\_largeFOV\_RefVolOpt\_spinoza

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

## Properties

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

## Routine

Slice group	1
Slices	28
Dist. factor	100 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	R0.3 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
TR	34420.0 ms
TE	2.31 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

## Contrast - Common

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

## Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

## Resolution - Common

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

## Resolution - Common

Interpolation	Off
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## Resolution - iPAT

PAT mode	None
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### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	28
Dist. factor	100 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	R0.3 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	340 mm
FoV phase	61.1 %
Slice thickness	2.5 mm
TR	34420.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R0.3 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L2.2 A30.0 H0.0
L	2.2 mm
A	30.0 mm
F	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
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**Geometry - Tim Planning Suite**

Table position	F
Table position	28 mm
Inline Composing	Off

**System - Miscellaneous**

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	L0.9 A30.0 F28.0 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	208 mm
F >> H	341 mm
R >> L	140 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	419.500 V

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On

**Inline - Composing**

Mode	3D
Unfiltered images	On

**Sequence - Part 1**

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

**Sequence - Part 2**

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

**Sequence - Assistant**

Mode	Off
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\\INVESTIGATORS A-G\BARRY\7T TravelingSpine\19062023\_THS\_Spinoza\Dream2D\_sag\_2p5mm\IS  
O\_largeFOV

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

## Properties

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

## Routine

Slice group	1
Slices	11
Dist. factor	0 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
FoV read	384 mm
FoV phase	47.4 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.18 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

### Contrast - Common

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

## Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

## Resolution - Common

FoV read	384 mm
FoV phase	47.4 %
Slice thickness	2.5 mm
Base resolution	152
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

## Resolution - iPAT

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

### Resolution - Filter Image

Image Filter Off

### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	47.4 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L2.2 A30.0 H0.0
L	2.2 mm
A	30.0 mm
F	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

### System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

! Position	L0.9 A30.0 F28.0 mm
! Orientation	Sagittal
! Rotation	0.00 deg
! A >> P	183 mm
! F >> H	385 mm
! R >> L	31 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	419.500 V

**Sequence - Part 1**

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

**Sequence - Part 2**

Echo train duration	357 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	72

**Sequence - Special**

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

**Sequence - Assistant**

Mode	Off
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\\INVESTIGATORS A-G\\BARRY\\7T TravelingSpine\\19062023\_THS\_Spinoza\\Dream2D\_sag\_2p5mm\\S  
O\_mediumFOV

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

## Properties

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

## Routine

Slice group	1
Slices	11
Dist. factor	0 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.10 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

### Contrast - Common

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

## Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

### Resolution - Common

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

## Resolution - iPAT

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

### Resolution - Filter Image

Image Filter Off

### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L2.2 A30.0 H0.0
L	2.2 mm
A	30.0 mm
F	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

### System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

! Position	L0.9 A30.0 F28.0 mm
! Orientation	Sagittal
! Rotation	0.00 deg
! A >> P	183 mm
! F >> H	206 mm
! R >> L	31 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	419.500 V

**Sequence - Part 1**

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

**Sequence - Part 2**

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

**Sequence - Special**

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

**Sequence - Assistant**

Mode	Off
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\\INVESTIGATORS A-G\BARRY\7T TravelingSpine\19062023\_THS\_Spinoza\Dream2D\_sag\_2p5mm\IS  
O\_mediumFOV\_RefVolOpt\_0p66

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

## Properties

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

### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Routine

Slice group	1
Slices	11
Dist. factor	0 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.10 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

## Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

### Contrast - Common

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

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L2.2 A30.0 H0.0
L	2.2 mm
A	30.0 mm
F	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

## Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

## Resolution - Common

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

## System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

## Resolution - iPAT

PAT mode	None
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### Resolution - Filter Image

Image Filter	Off
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**System - Adjustments**

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

**System - Adjust Volume**

! Position	L0.9 A30.0 F28.0 mm
! Orientation	Sagittal
! Rotation	0.00 deg
! A >> P	183 mm
! F >> H	206 mm
! R >> L	31 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	276.900 V

**Sequence - Part 1**

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

**Sequence - Part 2**

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

**Sequence - Special**

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

**Sequence - Assistant**

Mode	Off
------	-----

\\INVESTIGATORS A-GIBARRY\7T TravelingSpine\19062023\_THS\_Spinoza\Dream2D\_sag\_2p5mm\IS  
O\_mediumFOV\_RefVolOpt\_1p5

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

## Properties

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

## Routine

Slice group	1
Slices	11
Dist. factor	0 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
TE 1	2.04 ms
TE 2	3.10 ms
Averages	1
Concatenations	11
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

### Contrast - Common

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

## Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

## Resolution - Common

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

## Resolution - iPAT

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

### Resolution - Filter Image

Image Filter Off

### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	11
Dist. factor	0 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	6000 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	11

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L2.2 A30.0 H0.0
L	2.2 mm
A	30.0 mm
F	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

### System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

! Position	L0.9 A30.0 F28.0 mm
! Orientation	Sagittal
! Rotation	0.00 deg
! A >> P	183 mm
! F >> H	206 mm
! R >> L	31 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	629.250 V

**Sequence - Part 1**

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

**Sequence - Part 2**

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

**Sequence - Special**

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

**Sequence - Assistant**

Mode	Off
------	-----



\\INVESTIGATORS A-G\\BARRY\\7T TravelingSpine\\19062023\_THS\_Spinoza\\coilQA\_sag\_FH\_1p5x1p  
5x2mm\_largeFOV

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

## Properties

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

## Routine

Slice group	1
Slices	13
Dist. factor	20 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	---
Phase oversampling	0 %
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	2
Concatenations	13
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;

### Contrast - Common

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

## Contrast - Dynamic

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

### Resolution - Common

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

### Resolution - Filter Image

Image Filter	Off
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### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	13
Dist. factor	20 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	13

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	---
Initial Position	L2.2 A30.0 H0.0
L	2.2 mm
A	30.0 mm
F	0.0 mm
Initial Rotation	90.00 deg
Initial Orientation	Sagittal

## Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

## System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off

**System - Miscellaneous**

AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

! Position	L0.2 A12.4 F38.0 mm
! Orientation	Sagittal
! Rotation	65.99 deg
! F >> H	236 mm
! A >> P	64 mm
! R >> L	32 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	419.500 V

**Physio - Signal1**

1st Signal/Mode	None
TR	30.0 ms
Concatenations	13

**Sequence - Part 1**

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

**Sequence - Part 2**

Gradient mode	Fast
RF spoiling	On

**Sequence - Special**

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

**Sequence - Assistant**

Mode	Off
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\\INVESTIGATORS A-G\\BARRY\\7T TravelingSpine\\19062023\_THS\_Spinoza\\coilQA\_sag\_FH\_1p5x1p  
5x2mm\_smallFOV

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

## Properties

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

## Routine

Slice group	1
Slices	13
Dist. factor	20 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	---
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	2
Concatenations	13
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;

### Contrast - Common

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

## Contrast - Dynamic

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

### Resolution - Common

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

### Resolution - Filter Image

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

### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	13
Dist. factor	20 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	13

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	---
Initial Position	L2.2 A30.0 H0.0
L	2.2 mm
A	30.0 mm
F	0.0 mm
Initial Rotation	90.00 deg
Initial Orientation	Sagittal

## Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

## System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off

**System - Miscellaneous**

AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

! Position	L0.2 A12.4 F38.0 mm
! Orientation	Sagittal
! Rotation	65.99 deg
! F >> H	236 mm
! A >> P	64 mm
! R >> L	32 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
--------------	----------

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	419.500 V

**Physio - Signal1**

1st Signal/Mode	None
TR	30.0 ms
Concatenations	13

**Sequence - Part 1**

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

**Sequence - Part 2**

Gradient mode	Fast
RF spoiling	On

**Sequence - Special**

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

**Sequence - Assistant**

Mode	Off
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\\INVESTIGATORS A-G\BARRY\7T TravelingSpine\19062023\_THS\_Spinoza\coilQA\_tra\_RL\_0p5x0p5  
x5mm

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

## Properties

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

## Routine

Slice group	1
Slices	7
Dist. factor	300 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Transversal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	2
Concatenations	7
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;

### Contrast - Common

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

## Contrast - Dynamic

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

### Resolution - Common

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

### Resolution - Filter Image

Image Filter	Off
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### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	7
Dist. factor	300 %
Position	L2.2 A30.0 F28.0 mm
Orientation	Transversal
Phase enc. dir.	R >> L
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	7

## Geometry - AutoAlign

Slice group	1
Position	L2.2 A30.0 F28.0 mm
Orientation	Transversal
Phase enc. dir.	R >> L
AutoAlign	---
1H;1H;1H;1H;1H;1H;1H;1H;1H;1H	
Initial Position	L2.2 A30.0 H0.0
L	2.2 mm
A	30.0 mm
F	0.0 mm
Initial Rotation	90.00 deg
Initial Orientation	Transversal

## Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

## System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off

**System - Miscellaneous**

AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

! Position	L0.2 A12.4 F38.0 mm
! Orientation	Sagittal
! Rotation	65.99 deg
! F >> H	236 mm
! A >> P	64 mm
! R >> L	32 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	419.500 V

**Physio - Signal1**

1st Signal/Mode	None
TR	30.0 ms
Concatenations	7

**Sequence - Part 1**

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

**Sequence - Part 2**

Gradient mode	Fast
RF spoiling	On

**Sequence - Special**

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

**Sequence - Assistant**

Mode	Off
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\\INVESTIGATORS A-G\BARRY\7T TravelingSpine\19062023\_THS\_Spinoza\gre\_2mm\ISO\_multichan  
nel\_uncomb

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

## Properties

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

## Routine

Slice group	1
Slices	44
Dist. factor	0 %
Position	R2.3 A29.0 F25.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
TR	550.0 ms
TE	3.80 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

### Contrast - Common

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

## Contrast - Dynamic

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

### Resolution - Common

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

## Resolution - iPAT

PAT mode	None
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### Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	44
Dist. factor	0 %
Position	R2.3 A29.0 F25.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	75.0 %
Slice thickness	2.0 mm
TR	550.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

## Geometry - AutoAlign

Slice group	1
Position	R2.3 A29.0 F25.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R2.3 A29.0 H2.9
R	2.3 mm
A	29.0 mm
F	2.9 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

## Geometry - Saturation

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

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

## Geometry - Tim CT

Tim CT mode	Off
Slices	44

**Geometry - Tim CT**

Slice thickness	2.0 mm
Dist. factor	0 %
FoV read	384 mm
FoV phase	75.0 %
Segments	1

**System - Miscellaneous**

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	On
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R2.3 A29.0 F25.1 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	288 mm
F >> H	384 mm
R >> L	88 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	419.500 V

**Physio - Signal1**

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

**Physio - Cardiac**

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

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Inline - Common**

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

**Inline - MIP**

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

**Inline - Soft Tissue**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	On

**Inline - MapIt**

Save original images	On
MapIt	None
Flip angle	30 deg
Measurements	1
Contrasts	1
TR	550.0 ms
TE	3.80 ms

**Sequence - Part 1**

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

**Sequence - Part 2**

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

**Sequence - Assistant**

Mode	Off
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## \\INVESTIGATORS A-G\\BARRY\\7T TravelingSpine\\19062023\_THS\_Spinoza\\tfl\_rfmap\_2x2x3

TA: 1:04 PM: FIX Voxel size: 2.0×2.0×3.0 mmPAT: 2 Rel. SNR: 1.00 : tfl

## Properties

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

## Routine

Slice group	1
Slices	28
Dist. factor	20 %
Position	R2.3 A29.0 F25.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
TR	6970.0 ms
TE	1.79 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;

## Contrast - Common

TR	6970.0 ms
TE	1.79 ms
Magn. preparation	None
Flip angle	10.0 deg
Fat suppr.	None
Water suppr.	None

## Contrast - Dynamic

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

## Resolution - Common

FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
Base resolution	196
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

## Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	16

## Resolution - iPAT

Reference scan mode	Integrated
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## Resolution - Filter Image

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

## Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

## Geometry - Common

Slice group	1
Slices	28
Dist. factor	20 %
Position	R2.3 A29.0 F25.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	61.2 %
Slice thickness	3.0 mm
TR	6970.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

## Geometry - AutoAlign

Slice group	1
Position	R2.3 A29.0 F25.1 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R2.3 A29.0 H2.9
R	2.3 mm
A	29.0 mm
F	2.9 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

## Geometry - Navigator

## Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	F
Table position	28 mm
Inline Composing	Off

## System - Miscellaneous

Positioning mode	FIX
Table position	F
Table position	28 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares

**System - Miscellaneous**

Save uncombined	On
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

! Position	R2.3 A29.0 F25.1 mm
! Orientation	Sagittal
! Rotation	0.00 deg
! A >> P	288 mm
! F >> H	384 mm
! R >> L	88 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slice-sel.

**System - Tx/Rx**

Frequency 1H	297.188792 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	419.500 V

**Physio - Signal1**

1st Signal/Mode	None
TR	6970.0 ms
Concatenations	1

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	384 mm
FoV phase	61.2 %
Phase resolution	100 %

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Sequence - Part 1**

Introduction	Off
Dimension	2D
Reordering	Centric
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	3.6 ms
Bandwidth	550 Hz/Px

**Sequence - Part 2**

RF pulse type	Normal
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**Sequence - Part 2**

Gradient mode	Whisper
Excitation	Slice-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	120

**Sequence - pTX Pulses****Sequence - Special**

Tx scale diag mag	0.0
Tx scale diag phs	0 deg
Tx scale offdiag mag	1.0
Tx scale offdiag phs	0 deg
Rel. B1 mapping	On
Ref. scan	Off
Use B1 map recon	On
Dummy RF pulses	1000

**Sequence - Assistant**

Mode	Off
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