

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\INVESTIGATORS\Vitaly\SPARC\Circle_Localizer_VOL_32Ch

TA: 0:13 PAT: Off Voxel size: 1.9x0.9x5.0 mm Rel. SNR: 1.00 USER: benner\gre_circle_tb

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load images to graphic segments	On
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	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	30.0 ms
TE	4.78 ms
Averages	1
Concatenations	3
Filter	None
Coil elements	TXH

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	25 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
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Phase resolution	50 %
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

TXH	On
H12	Off
H13	Off
H14	Off
H15	Off
H16	Off
H17	Off
H18	Off
H21	Off
H22	Off
H23	Off
H24	Off
H25	Off
H26	Off
H27	Off
H28	Off
H31	Off
H32	Off
H33	Off
H34	Off
H35	Off
H36	Off
H37	Off
H38	Off
H41	Off
H42	Off
H43	Off
H44	Off
H45	Off
H46	Off
H47	Off
H48	Off

Positioning mode	REF
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On

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Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Off
Shim mode	Tune up
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	Off
Bandwidth	260 Hz/Px
Flow comp.	No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
FFT Scale Factor	1.00

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\\USER\INVESTIGATORS\Vitaly\SPARC\Localizer_32Ch

TA: 8.1 s PAT: Off 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

Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
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Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane

Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	L4.1 A74.4 F59.9
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	L0.0 A76.7 F4.1
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	L4.1 A19.2 F56.9
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	8.6 ms
TE	4.00 ms
Averages	1
Concatenations	3
Filter	Elliptical filter
Coil elements	H12-18,21-28,31-38,41-48

Geometry

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

System

TXH	Off
H12	On
H13	On
H14	On
H15	On
H16	On
H17	On
H18	On
H21	On
H22	On
H23	On
H24	On
H25	On
H26	On
H27	On
H28	On
H31	On
H32	On
H33	On
H34	On
H35	On
H36	On
H37	On
H38	On
H41	On
H42	On
H43	On
H44	On
H45	On
H46	On
H47	On
H48	On

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 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
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Positioning mode	REF
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H

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Save uncombined	On
Coil Combine Mode	Sum of Squares
AutoAlign	---
Auto Coil Select	Default

Shim mode	Tune up
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	Fast
Excitation	Slice-sel.
RF spoiling	On

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\\USER\INVESTIGATORS\Vitaly\SPARC\AAHScout_32ch

TA: 0:17 PAT: 3 Voxel size: 1.6×1.6×1.6 mm Rel. SNR: 1.00 SIEMENS: AALScout

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Sequential
After measurement		Series	Ascending
Load to viewer	On		
Inline movie	Off	Table position	H
Auto store images	On	Table position	0 mm
Load to stamp segments	On	Inline Composing	Off
Load images to graphic segments	On	System	
Auto open inline display	Off	TXH	Off
Start measurement without further preparation	On	H12	On
Wait for user to start	Off	H13	On
Start measurements	single	H14	On
Routine		H15	On
Slab group 1		H16	On
Slabs	1	H17	On
Dist. factor	20 %	H18	On
Position	L0.0 A66.7 F48.8	H21	On
Orientation	Sagittal	H22	On
Phase enc. dir.	A >> P	H23	On
Rotation	0 deg	H24	On
AutoAlign	Head	H25	On
Phase oversampling	0 %	H26	On
Slice oversampling	0.0 %	H27	On
Slices per slab	128	H28	On
FoV read	260 mm	H31	On
FoV phase	100.0 %	H32	On
Slice thickness	1.6 mm	H33	On
TR	4.00 ms	H34	On
TE	1.53 ms	H35	On
Averages	1	H36	On
Concatenations	1	H37	On
Filter	B1 filter	H38	On
Coil elements	H12-18,21-28,31-38,41-48	H41	On
Contrast		H42	On
Flip angle	16.0 deg	H43	On
		H44	On
Averaging mode	Short term	H45	On
Reconstruction	Magnitude	H46	On
Measurements	1	H47	On
Resolution		H48	On
Base resolution	160	Positioning mode	
Phase resolution	100 %	MSMA	S - C - T
Slice resolution	69 %	Sagittal	R >> L
Phase partial Fourier	6/8	Coronal	A >> P
Slice partial Fourier	6/8	Transversal	F >> H
		Save uncombined	Off
PAT mode	GRAPPA	Coil Combine Mode	Adaptive Combine
Accel. factor PE	3	Auto Coil Select	Off
Ref. lines PE	24	Shim mode	
Accel. factor 3D	1	Shim mode	Tune up
Reference scan mode	Integrated	Confirm freq. adjustment	Off
		Assume Silicone	Off
Image Filter	Off	! Ref. amplitude 1H	220.000 V
Distortion Corr.	Off	Adjustment Tolerance	Auto
Prescan Normalize	Off	Adjust volume	
Normalize	Off	Position	Isocenter
B1 filter	On	Orientation	Transversal
Intensity	Strong	Rotation	0.00 deg
Unfiltered images	Off	R >> L	350 mm
Raw filter	Off	A >> P	263 mm
		F >> H	350 mm
		Inline	

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Time to center	7.4 s
MapIt	None
Contrasts	1

Sequence

Introduction	On
Dimension	3D
Asymmetric echo	Weak
Bandwidth	550 Hz/Px
RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\INVESTIGATORS\Vitaly\SPARC\MEMPRAGE_2e_p2_750iso_FOCI_500V

TA: 7:24 PAT: 2 Voxel size: 0.8x0.8x0.8 mm Rel. SNR: 1.00 UNKNOWN:

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	R1.3 P14.5 F28.0
Orientation	S > C6.9 > T-1.1
Phase enc. dir.	A >> P
Rotation	-0.12 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	224
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	0.75 mm
TR	2530 ms
TE 1	1.76 ms
TE 2	3.7 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	H12-18,21-28,31-38,41-48

Contrast

Magn. preparation	Non-sel. IR
TI	1100 ms
Flip angle	7.0 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	32
Accel. factor 3D	1
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off

Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

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

System

TXH	Off
H12	On
H13	On
H14	On
H15	On
H16	On
H17	On
H18	On
H21	On
H22	On
H23	On
H24	On
H25	On
H26	On
H27	On
H28	On
H31	On
H32	On
H33	On
H34	On
H35	On
H36	On
H37	On
H38	On
H41	On
H42	On
H43	On
H44	On
H45	On
H46	On
H47	On
H48	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	Head > Brain
Auto Coil Select	Default

Shim mode	Standard
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	430.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R1.3 P14.5 F28.0
Orientation	S > C6.9 > T-1.1

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Rotation	-0.12 deg
F >> H	240 mm
A >> P	240 mm
R >> L	168 mm

Physio

1st Signal/Mode	None
Dark blood	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	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	2
Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Echo spacing	6.2 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Readout polarity	Positive
Readout trajectory	Bipolar
Add. scale factor	2.0
Gradient spoiling	Siemens
Gradient moment factor	1
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS

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\\USER\INVESTIGATORS\Vitaly\SPARC\ep2d_bold_1p2mm_iso_SMS2_R4_cor_RL_shift2_Rest

TA: 8:38 PAT: 4 Voxel size: 1.2×1.2×1.2 mm Rel. SNR: 1.00 UNKNOWN:

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	On
Start measurements	single

Routine

Slice group 1	
Slices	38
Dist. factor	0 %
Position	L2.0 A38.6 F55.0
Orientation	C > T-9.6 > S3.1
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR	993 ms
TE	23 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	H12-18,21-28,31-38,41-48

Contrast

MTC	Off
Flip angle	58 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	500
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	160
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	4
Ref. lines PE	48
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

Table position	H
Table position	0 mm
Inline Composing	Off

System

TXH	Off
H12	On
H13	On
H14	On
H15	On
H16	On
H17	On
H18	On
H21	On
H22	On
H23	On
H24	On
H25	On
H26	On
H27	On
H28	On
H31	On
H32	On
H33	On
H34	On
H35	On
H36	On
H37	On
H38	On
H41	On
H42	On
H43	On
H44	On
H45	On
H46	On
H47	On
H48	On

Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain Atlas
Auto Coil Select	Default

Shim mode	Standard
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	380.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L2.0 A38.6 F55.0
Orientation	C > T-9.6 > S3.1
Rotation	0.00 deg
F >> H	192 mm
R >> L	192 mm
A >> P	46 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
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Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	15
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Bandwidth	1562 Hz/Px
Free echo spacing	Off
Echo spacing	0.76 ms
EPI factor	160
RF pulse type	Normal
Gradient mode	Fast
Slice acc. factor	2
RF clip	0
VERSE factor	1.30
VERSE FLEET?	0
FLEET flip angle	10 deg
FLEET prep pulses	5
image dummies	3
PE shift factor	2
Fat sat. flip angle	110 deg
FFT factor	1.00

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\\USER\INVESTIGATORS\Vitaly\SPARC\ep2d_bold_1p2mm_iso_SMS1_R4_topup_RL

TA: 0:20 PAT: 4 Voxel size: 1.2×1.2×1.2 mm Rel. SNR: 1.00 UNKNOWN:

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	38
Dist. factor	0 %
Position	L2.0 A41.8 F21.9
Orientation	C > T-13.1 > S3.1
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR	1990 ms
TE	23 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	H12-18,21-28,31-38,41-48

Contrast

MTC	Off
Flip angle	75 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	4
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	160
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	4
Ref. lines PE	48
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

Table position	H
Table position	0 mm
Inline Composing	Off

System

TXH	Off
H12	On
H13	On
H14	On
H15	On
H16	On
H17	On
H18	On
H21	On
H22	On
H23	On
H24	On
H25	On
H26	On
H27	On
H28	On
H31	On
H32	On
H33	On
H34	On
H35	On
H36	On
H37	On
H38	On
H41	On
H42	On
H43	On
H44	On
H45	On
H46	On
H47	On
H48	On

Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain Atlas
Auto Coil Select	Default

Shim mode	Standard
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	380.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L2.0 A41.8 F21.9
Orientation	C > T-13.1 > S3.1
Rotation	0.00 deg
F >> H	192 mm
R >> L	192 mm
A >> P	46 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
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Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	15
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Bandwidth	1562 Hz/Px
Free echo spacing	On
Echo spacing	0.76 ms
EPI factor	160
RF pulse type	Normal
Gradient mode	Fast
Slice acc. factor	1
RF clip	0
VERSE factor	1.30
VERSE FLEET?	0
FLEET flip angle	10 deg
FLEET prep pulses	5
image dummies	3
Fat sat. flip angle	110 deg
FFT factor	1.00

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\INVESTIGATORS\Vitaly\SPARC\ep2d_bold_1p2mm_iso_SMS1_R4_topup_LR

TA: 0:20 PAT: 4 Voxel size: 1.2×1.2×1.2 mm Rel. SNR: 1.00 UNKNOWN:

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	38
Dist. factor	0 %
Position	L2.0 A41.8 F21.9
Orientation	C > T-13.1 > S3.1
Phase enc. dir.	L >> R
Rotation	180.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR	1990 ms
TE	23 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	H12-18,21-28,31-38,41-48

Contrast

MTC	Off
Flip angle	75 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	4
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	160
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	4
Ref. lines PE	48
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

Table position
Table position
Inline Composing

H
0 mm
Off

System

TXH	Off
H12	On
H13	On
H14	On
H15	On
H16	On
H17	On
H18	On
H21	On
H22	On
H23	On
H24	On
H25	On
H26	On
H27	On
H28	On
H31	On
H32	On
H33	On
H34	On
H35	On
H36	On
H37	On
H38	On
H41	On
H42	On
H43	On
H44	On
H45	On
H46	On
H47	On
H48	On

Positioning mode

FIX

MSMA
Sagittal
Coronal
Transversal
Coil Combine Mode
AutoAlign
Auto Coil Select

S - C - T
R >> L
A >> P
F >> H
Sum of Squares
Head > Brain Atlas
Default

Shim mode

Standard

Confirm freq. adjustment
Assume Silicone
! Ref. amplitude 1H
Adjustment Tolerance
Adjust volume

Off
Off
380.000 V
Auto

Position
Orientation
Rotation
F >> H
R >> L
A >> P

L2.0 A41.8 F21.9
C > T-13.1 > S3.1
180.00 deg
192 mm
192 mm
46 mm

Physio

1st Signal/Mode

None

BOLD

GLM Statistics

Off

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	15
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Bandwidth	1562 Hz/Px
Free echo spacing	On
Echo spacing	0.76 ms
EPI factor	160
RF pulse type	Normal
Gradient mode	Fast
Slice acc. factor	1
RF clip	0
VERSE factor	1.30
VERSE FLEET?	0
FLEET flip angle	10 deg
FLEET prep pulses	5
image dummies	3
Fat sat. flip angle	110 deg
FFT factor	1.00

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\INVESTIGATORS\Vitaly\SPARC\ep2d_bold_1p2mm_iso_SMS2_R4_cor_RL_shift2_WB

TA: 1:20 PAT: 4 Voxel size: 1.2×1.2×1.2 mm Rel. SNR: 1.00 UNKNOWN:

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	On
Start measurements	single

Routine

Slice group 1	
Slices	126
Dist. factor	0 %
Position	L2.0 A41.8 F21.9
Orientation	C > T-13.1 > S3.1
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR	3290 ms
TE	23 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	H12-18,21-28,31-38,41-48

Contrast

MTC	Off
Flip angle	58 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	3
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	160
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	4
Ref. lines PE	48
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

Table position	H
Table position	0 mm
Inline Composing	Off

System

TXH	Off
H12	On
H13	On
H14	On
H15	On
H16	On
H17	On
H18	On
H21	On
H22	On
H23	On
H24	On
H25	On
H26	On
H27	On
H28	On
H31	On
H32	On
H33	On
H34	On
H35	On
H36	On
H37	On
H38	On
H41	On
H42	On
H43	On
H44	On
H45	On
H46	On
H47	On
H48	On

Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain Atlas
Auto Coil Select	Default

Shim mode	Standard
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	380.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L2.0 A41.8 F21.9
Orientation	C > T-13.1 > S3.1
Rotation	0.00 deg
F >> H	192 mm
R >> L	192 mm
A >> P	152 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
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SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	15
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Bandwidth	1562 Hz/Px
Free echo spacing	Off
Echo spacing	0.76 ms
EPI factor	160
RF pulse type	Normal
Gradient mode	Fast
Slice acc. factor	2
RF clip	0
VERSE factor	1.30
VERSE FLEET?	0
FLEET flip angle	10 deg
FLEET prep pulses	5
image dummies	3
PE shift factor	2
Fat sat. flip angle	110 deg
FFT factor	1.00

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\INVESTIGATORS\Vitaly\SPARC\lep2d_bold_1p2mm_iso_SMS2_R4_cor_LR_shift2_WB

TA: 1:20 PAT: 4 Voxel size: 1.2×1.2×1.2 mm Rel. SNR: 1.00 UNKNOWN:

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	On
Start measurements	single

Routine

Slice group 1	
Slices	126
Dist. factor	0 %
Position	L2.0 A38.6 F55.0
Orientation	C > T-9.6 > S3.1
Phase enc. dir.	L >> R
Rotation	180.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	1.20 mm
TR	3290 ms
TE	23 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	H12-18,21-28,31-38,41-48

Contrast

MTC	Off
Flip angle	58 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	3
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	160
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	4
Ref. lines PE	48
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

Table position	H
Table position	0 mm
Inline Composing	Off

System

TXH	Off
H12	On
H13	On
H14	On
H15	On
H16	On
H17	On
H18	On
H21	On
H22	On
H23	On
H24	On
H25	On
H26	On
H27	On
H28	On
H31	On
H32	On
H33	On
H34	On
H35	On
H36	On
H37	On
H38	On
H41	On
H42	On
H43	On
H44	On
H45	On
H46	On
H47	On
H48	On

Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain Atlas
Auto Coil Select	Default

Shim mode	Standard
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	380.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L2.0 A38.6 F55.0
! Orientation	C > T-9.6 > S3.1
! Rotation	0.00 deg
! F >> H	192 mm
! R >> L	192 mm
! A >> P	46 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
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SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	15
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Bandwidth	1562 Hz/Px
Free echo spacing	Off
Echo spacing	0.76 ms
EPI factor	160
RF pulse type	Normal
Gradient mode	Fast
Slice acc. factor	2
RF clip	0
VERSE factor	1.30
VERSE FLEET?	0
FLEET flip angle	10 deg
FLEET prep pulses	5
image dummies	3
PE shift factor	2
Fat sat. flip angle	110 deg
FFT factor	1.00

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\INVESTIGATORS\Vitaly\SPARC\lep2d_bold_1p5mm_iso_R3_SMS4_rest_5x5

TA: 0:59 PAT: 3 Voxel size: 1.5×1.5×1.5 mm Rel. SNR: 1.00 UNKNOWN:

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	On
Start measurements	single

Routine

Slice group 1	
Slices	92
Dist. factor	0 %
Position	L1.7 P1.6 H10.4
Orientation	T > C-5.1 > S-0.3
Phase enc. dir.	A >> P
Rotation	-2.06 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	1.50 mm
TR	1170 ms
TE	22 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	H12-18,21-28,31-38,41-48

Contrast

MTC	Off
Flip angle	60 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	10
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	48
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

Table position	H
Table position	0 mm
Inline Composing	Off

System

TXH	Off
H12	On
H13	On
H14	On
H15	On
H16	On
H17	On
H18	On
H21	On
H22	On
H23	On
H24	On
H25	On
H26	On
H27	On
H28	On
H31	On
H32	On
H33	On
H34	On
H35	On
H36	On
H37	On
H38	On
H41	On
H42	On
H43	On
H44	On
H45	On
H46	On
H47	On
H48	On

Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default

Shim mode	Standard
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	410.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L1.7 P1.6 H10.4
Orientation	T > C-5.1 > S-0.3
Rotation	-2.06 deg
R >> L	192 mm
A >> P	192 mm
F >> H	138 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
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SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	15
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Bandwidth	2056 Hz/Px
Free echo spacing	Off
Echo spacing	0.63 ms
EPI factor	128
RF pulse type	Low SAR
Gradient mode	Fast
Slice acc. factor	4
RF clip	1
VERSE factor	1.75
VERSE FLEET?	1
FLEET flip angle	10 deg
FLEET prep pulses	5
image dummies	3
PE shift factor	3
Fat sat. flip angle	110 deg
FFT factor	1.00