

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\localizer

TA: 0:10 PAT: Off Voxel size: 1.9x1.5x8.0 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	Off
Wait for user to start	Off
Start measurements	single

Phase resolution	75 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
TR	20.0 ms
TE	5.00 ms
Averages	1
Concatenations	3
Filter	Raw filter
Coil elements	HEA;HEP

Geometry

Multi-slice mode	Sequential
Series	Ascending

Saturation mode	Standard
Special sat.	None

Tim CT mode	Off

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Physio

1st Signal/Mode	None
Segments	1

Dark blood	Off

Resp. control	Off

Resolution

Base resolution	192
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Inline

Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off

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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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
Allowed delay	0 s

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

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\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\ep2d_bold_freq_adj

TA: 0:12 PAT: Off Voxel size: 3.8x3.8x4.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

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	27
Dist. factor	25 %
Position	L0.0 A22.3 H33.1
Orientation	T > C-17.1
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	2000 ms
TE	39 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

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	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Triple
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	None

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
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	L0.0 A22.3 H33.1
Orientation	T > C-17.1
Rotation	0.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	134 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Bandwidth	3906 Hz/Px

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Free echo spacing	Off
Echo spacing	0.47 ms

EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

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\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\t1_midline Sag
 TA: 1:14 PAT: Off Voxel size: 0.9x0.9x4.0 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	3
Dist. factor	30 %
Position	L3.4 A35.1 H18.2
Orientation	S > T-2.0
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	13 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	250.0 ms
TE	2.46 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	70 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	On
PAT mode	None
Matrix Coil Mode	Auto (CP)
Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	On

Mode

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Saturation mode	Standard
Special sat.	None
Tim CT mode	Off

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	P >> A
Transversal	H >> F
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default
Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Physio

1st Signal/Mode	None
Segments	1
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

Sequence

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Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	60 s

RF pulse type	Fast
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\t2_tse_tra_192

TA: 3:08 PAT: 2 Voxel size: 1.3x1.3x1.5 mm Rel. SNR: 1.00 SIEMENS: tse

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	120
Dist. factor	0 %
Position	L2.8 A22.5 H34.6
Orientation	T > C-18.2 > S1.9
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	12 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.5 mm
TR	15500 ms
TE	77 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	151 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	192
Phase resolution	100 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	26
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On

Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
Tim CT mode	Off

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
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	L2.8 A22.5 H34.6
Orientation	T > C-18.2 > S1.9
Rotation	90.00 deg
A >> P	256 mm
R >> L	256 mm
F >> H	180 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	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off

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Contrasts	1
Bandwidth	199 Hz/Px
Flow comp.	No
Allowed delay	60 s
Echo spacing	11 ms

Define	Turbo factor
Turbo factor	11
Echo trains per slice	11
RF pulse type	Fast
Gradient mode	Normal

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\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\mprage_5e

TA: 6:03 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 USER: tfl_mgh_multiecho

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

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	R2.7 A35.1 H10.8
Orientation	S > T-2.8 > C2.6
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2530 ms
TE 1	1.64 ms
TE 2	3.5 ms
TE 3	5.36 ms
TE 4	7.22 ms
TE 5	9.08 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

Magn. preparation	Non-sel. IR
TI	1200 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	256
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
Matrix Coil Mode	Auto (Triple)

Reference scan mode

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	5

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Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Bandwidth 5	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Flow comp. 5	No
Echo spacing	12.2 ms

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

Readout polarity	Positive
Readout trajectory	Bipolar
Add. scale factor	4.0
Gradient spoiling	Integral
Gradient moment factor	3.0
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\csi_met_svent

TA: 9:32 Voxel size: 9.2x9.2x15.0 mm Rel. SNR: 1.00 SIEMENS: csi_se

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

Position	R2.8 A13.0 H49.8
Orientation	Transversal
Rotation	0 deg
FoV R >> L	220 mm
FoV A >> P	220 mm
Thickness F >> H	15 mm
Vol R >> L	75 mm
Vol A >> P	85 mm
Slices	1
TR	1500 ms
TE	40 ms
Averages	1
Filter	Prescan Normalize, Hamming
Coil elements	HEA;HEP

Contrast

Averaging mode	Long term
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	50 Hz
Spectral suppr.	None
Measurements	1

Resolution

Scan res. R >> L	24
Scan res. A >> P	24
Interpol. res. R >> L	32
Interpol. res. A >> P	32
Hamming	On
Width	50
Prescan Normalize	On
Vector size	512
Matrix Coil Mode	Auto (CP)
Unfiltered images	Off

Geometry

Fully excited Vol	On
Sat. region 1	
Thickness	25 mm
Position	R60.8 A9.3 F3.7
Orientation	S > C-8.7 > T-3.4
Sat. delta frequ.	0.00 ppm
Sat. region 2	
Thickness	25 mm
Position	L63.6 A18.0 H3.0
Orientation	S > C15.8 > T-2.6
Sat. delta frequ.	0.00 ppm

Sat. region 3

Thickness	25 mm
Position	R0.9 A65.6 F16.1
Orientation	C > T-13.8 > S-0.7
Sat. delta frequ.	0.00 ppm

Sat. region 4

Thickness	25 mm
Position	L0.7 P56.1 H13.7
Orientation	C > T-13.8 > S-0.7
Sat. delta frequ.	0.00 ppm

Sat. region 5

Thickness	25 mm
Position	L45.2 A68.2 H2.6
Orientation	C > S33.5 > T1.8
Sat. delta frequ.	0.00 ppm

Sat. region 6

Thickness	25 mm
Position	L63.1 P31.9 H22.7
Orientation	S > C-26.8 > T-17.8
Sat. delta frequ.	0.00 ppm

Sat. region 7

Thickness	25 mm
Position	R51.8 A63.7 F2.8
Orientation	C > S-39.2 > T-2.0
Sat. delta frequ.	0.00 ppm

Sat. region 8

Thickness	25 mm
Position	R57.3 P42.2 H14.6
Orientation	S > C36.3 > T11.6
Sat. delta frequ.	0.00 ppm

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default

Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R2.8 A13.0 H49.8
Orientation	Transversal
Rotation	90.00 deg
A >> P	85 mm
R >> L	75 mm
F >> H	15 mm

Sequence

Preparation scans	4
Dimension	2D
Delta frequency	-2.7 ppm
Phase encoding	Elliptical

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Bandwidth	1600 Hz
Acquisition duration	320 ms
Remove oversampling	Off

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TA: 9:32 Voxel size: 9.2x9.2x15.0 mm Rel. SNR: 1.00 SIEMENS: csi_se

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

Position	R2.8 A13.0 H49.8
Orientation	Transversal
Rotation	0 deg
FoV R >> L	220 mm
FoV A >> P	220 mm
Thickness F >> H	15 mm
Vol R >> L	75 mm
Vol A >> P	85 mm
Slices	1
TR	1500 ms
TE	40 ms
Averages	1
Filter	Prescan Normalize, Hamming
Coil elements	HEA;HEP

Contrast

Averaging mode	Long term
Flip angle	90 deg
Water suppr.	None
Spectral suppr.	None
Measurements	1

Resolution

Scan res. R >> L	24
Scan res. A >> P	24
Interpol. res. R >> L	32
Interpol. res. A >> P	32
Hamming	On
Width	50
Prescan Normalize	On
Vector size	512
Matrix Coil Mode	Auto (CP)
Unfiltered images	Off

Geometry

Fully excited Vol	On
Sat. region 1	
Thickness	25 mm
Position	R60.8 A9.3 F3.7
Orientation	S > C-8.7 > T-3.4
Sat. delta frequ.	0.00 ppm
Sat. region 2	
Thickness	25 mm
Position	L63.6 A18.0 H3.0
Orientation	S > C15.8 > T-2.6
Sat. delta frequ.	0.00 ppm
Sat. region 3	

Thickness	25 mm
Position	R0.9 A65.6 F16.1
Orientation	C > T-13.8 > S-0.7
Sat. delta frequ.	0.00 ppm
Sat. region 4	
Thickness	25 mm
Position	L0.7 P56.1 H13.7
Orientation	C > T-13.8 > S-0.7
Sat. delta frequ.	0.00 ppm
Sat. region 5	
Thickness	25 mm
Position	L45.2 A68.2 H2.6
Orientation	C > S33.5 > T1.8
Sat. delta frequ.	0.00 ppm
Sat. region 6	
Thickness	25 mm
Position	L63.1 P31.9 H22.7
Orientation	S > C-26.8 > T-17.8
Sat. delta frequ.	0.00 ppm
Sat. region 7	
Thickness	25 mm
Position	R51.8 A63.7 F2.8
Orientation	C > S-39.2 > T-2.0
Sat. delta frequ.	0.00 ppm
Sat. region 8	
Thickness	25 mm
Position	R57.3 P42.2 H14.6
Orientation	S > C36.3 > T11.6
Sat. delta frequ.	0.00 ppm

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R2.8 A13.0 H49.8
Orientation	Transversal
Rotation	90.00 deg
A >> P	85 mm
R >> L	75 mm
F >> H	15 mm

Sequence

Preparation scans	4
Dimension	2D
Delta frequency	-2.7 ppm
Phase encoding	Elliptical
Bandwidth	1600 Hz

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Acquisition duration	320 ms
Remove oversampling	Off

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\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\rest_V01_R01

TA: 5:34 PAT: Off Voxel size: 3.8x3.8x3.5 mm Rel. SNR: 1.00 USER: ep2d_complex

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	33
Dist. factor	30 %
Position	R2.3 A20.9 F29.0
Orientation	T > S2.2 > C-1.8
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	3.5 mm
TR	2000 ms
TE	29 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	75 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	165
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Triple
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	None

System

Body	Off
HEP	On
HEA	On

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
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	R2.3 A20.9 F29.0
Orientation	T > S2.2 > C-1.8
Rotation	0.00 deg
R >> L	240 mm
A >> P	240 mm
F >> H	150 mm

Physio

1st Signal/Mode	None
-----------------	------

BOLD

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

Sequence

Introduction	Off
Bandwidth	2170 Hz/Px

SIEMENS MAGNETOM TrioTim syngo MR B17

Free echo spacing	Off
Echo spacing	0.53 ms

EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

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\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\svs_met_AC

TA: 4:54 Vol: 30 x20 x20 mm Rel. SNR: 1.00 SIEMENS: svs_se

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

Adjust volume

Position	L6.6 A52.4 H68.0
Orientation	T > C8.9 > S2.0
Rotation	-89.52 deg
A >> P	30 mm
R >> L	20 mm
F >> H	20 mm

Physio

1st Signal/Mode	None
-----------------	------

Sequence

Preparation scans	4
Delta frequency	-2.4 ppm
Phase cycling	Auto
Bandwidth	1600 Hz
Acquisition duration	640 ms
Remove oversampling	On

Routine

Position	L6.6 A52.4 H68.0
Orientation	T > C8.9 > S2.0
Rotation	-179.52 deg
Vol A >> P	30 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	1500 ms
TE	40 ms
Averages	192
Filter	None
Coil elements	HEA;HEP

Contrast

Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	50 Hz
Spectral suppr.	None
Measurements	1

Resolution

Prescan Normalize	Off
Vector size	1024
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\svs_h2o_AC

TA: 0:30

Vol: 30 x20 x20 mm

Rel. SNR: 1.00

SIEMENS: svs_se

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

Position	L6.6 A52.4 H68.0
Orientation	T > C8.9 > S2.0
Rotation	-89.52 deg
A >> P	30 mm
R >> L	20 mm
F >> H	20 mm

Physio

1st Signal/Mode	None
-----------------	------

Sequence

Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	1600 Hz
Acquisition duration	640 ms
Remove oversampling	On

Routine

Position	L6.6 A52.4 H68.0
Orientation	T > C8.9 > S2.0
Rotation	-179.52 deg
Vol A >> P	30 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	1500 ms
TE	40 ms
Averages	16
Filter	None
Coil elements	HEA;HEP

Contrast

Flip angle	90 deg
Water suppr.	None
Spectral suppr.	None
Measurements	1

Resolution

Prescan Normalize	Off
Vector size	1024
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\svs_edit_529

TA: 13:00 Vol: 30 x30 x30 mm Rel. SNR: 1.00 USER: svs_edit_529

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

Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R12.1 P0.0 F2.7
Orientation	Transversal
Rotation	0.00 deg
R >> L	30 mm
A >> P	30 mm
F >> H	30 mm

Physio

1st Signal/Mode	None
-----------------	------

Routine

Position	R12.1 P0.0 F2.7
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	30 mm
Vol R >> L	30 mm
Vol F >> H	30 mm
TR	3000 ms
TE 1	68 ms
TE 2	68 ms
TE 3	68 ms
Averages	128
Filter	None
Coil elements	HEA;HEP

Sequence

Preparation scans	4
Delta frequency	-1.7 ppm
Phase cycling	Auto
Bandwidth	1200 Hz
Acquisition duration	1706 ms
Remove oversampling	On

Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44 Hz
Edit Center Frequency	4.70 ppm

Contrast

Flip angle	90 deg
Water suppr.	Weak water suppr.
Water suppr. BW	50 Hz
Measurements	1

Resolution

Prescan Normalize	Off
Vector size	2048

Matrix Coil Mode	Auto (CP)

Geometry

Sat. region 1	
Thickness	20 mm
Position	Isocenter
Orientation	Transversal
Sat. delta frequ.	0.00 ppm

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default

Shim mode	Advanced

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\svs_edit_529_h2o

TA: 1:48 Vol: 40 x26 x20 mm Rel. SNR: 1.00 USER: svs_edit_529

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

Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R12.1 P0.0 F2.7
Orientation	Transversal
Rotation	90.00 deg
A >> P	40 mm
R >> L	26 mm
F >> H	20 mm

Physio

1st Signal/Mode	None
-----------------	------

Routine

Position	R12.1 P0.0 F2.7
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	40 mm
Vol R >> L	26 mm
Vol F >> H	20 mm
TR	3000 ms
TE 1	68 ms
TE 2	68 ms
TE 3	68 ms
Averages	16
Filter	None
Coil elements	HEA;HEP

Sequence

Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	1200 Hz
Acquisition duration	1706 ms
Remove oversampling	On

Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44 Hz
Edit Center Frequency	4.70 ppm

Contrast

Flip angle	90 deg
Water suppr.	Weak water suppr.
Water suppr. BW	50 Hz
Measurements	1

Resolution

Prescan Normalize	Off
Vector size	2048

Matrix Coil Mode	Auto (CP)

Geometry

Sat. region 1	
Thickness	20 mm
Position	Isocenter
Orientation	Transversal
Sat. delta frequ.	0.00 ppm

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default

Shim mode	Advanced

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\dti_35dir_800_R01
 TA: 5:42 PAT: 2 Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

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	72
Dist. factor	0 %
Position	L0.0 A15.5 H17.5
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	9000 ms
TE	84 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	32
Matrix Coil Mode	Auto (Triple)
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

System

Body	Off
HEP	On
HEA	On
Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
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	L0.0 A15.5 H17.5
Orientation	Transversal
Rotation	0.00 deg
R >> L	256 mm
A >> P	256 mm
F >> H	144 mm

Physio

1st Signal/Mode	None
Resp. control	Off

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	800 s/mm ²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	Off
Mosaic	On
Tensor	Off
Noise level	40
Diff. directions	35

Sequence

Introduction	Off
Bandwidth	1562 Hz/Px
Free echo spacing	Off
Echo spacing	0.72 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\dti_36dir_800_R01
 TA: 5:51 PAT: 2 Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

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	72
Dist. factor	0 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	9000 ms
TE	84 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	32
Matrix Coil Mode	Auto (Triple)
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

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
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	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	256 mm
A >> P	256 mm
F >> H	144 mm

Physio

1st Signal/Mode	None
Resp. control	Off

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	800 s/mm ²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	Off
Mosaic	On
Tensor	Off
Noise level	40
Diff. directions	36

Sequence

Introduction	Off
Bandwidth	1562 Hz/Px
Free echo spacing	Off
Echo spacing	0.72 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\svs_h2o_PC

TA: 0:30 Vol: 20 x20 x20 mm Rel. SNR: 1.00 SIEMENS: svs_se

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

Position	L6.6 A52.4 H68.0
Orientation	T > C8.9 > S2.0
Rotation	-179.52 deg
R >> L	20 mm
A >> P	20 mm
F >> H	20 mm

Physio

1st Signal/Mode	None
-----------------	------

Sequence

Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	1600 Hz
Acquisition duration	640 ms
Remove oversampling	On

Routine

Position	L6.6 A52.4 H68.0
Orientation	T > C8.9 > S2.0
Rotation	-179.52 deg
Vol A >> P	20 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	1500 ms
TE	40 ms
Averages	16
Filter	None
Coil elements	HEA;HEP

Contrast

Flip angle	90 deg
Water suppr.	None
Spectral suppr.	None
Measurements	1

Resolution

Prescan Normalize	Off
Vector size	1024
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\svs_met_PC

TA: 4:54

Vol: 20 x20 x20 mm

Rel. SNR: 1.00

SIEMENS: svs_se

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

Position	L6.6 A52.4 H68.0
Orientation	T > C8.9 > S2.0
Rotation	-179.52 deg
Vol A >> P	20 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	1500 ms
TE	40 ms
Averages	192
Filter	None
Coil elements	HEA;HEP

Contrast

Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	50 Hz
Spectral suppr.	None
Measurements	1

Resolution

Prescan Normalize	Off
Vector size	1024
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto

Adjust volume

Position	L6.6 A52.4 H68.0
Orientation	T > C8.9 > S2.0
Rotation	-179.52 deg
R >> L	20 mm
A >> P	20 mm
F >> H	20 mm

Physio

1st Signal/Mode	None
-----------------	------

Sequence

Preparation scans	4
Delta frequency	-2.4 ppm
Phase cycling	Auto
Bandwidth	1600 Hz
Acquisition duration	640 ms
Remove oversampling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\ej_a_svs_mpress

TA: 13:18 Vol: 30 x30 x30 mm Rel. SNR: 1.00 USER: ej_a_svs_mpress

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

Position	R3.2 A33.8 H57.3
Orientation	C > T9.4 > S-0.3
Rotation	93.70 deg
Vol F >> H	30 mm
Vol R >> L	30 mm
Vol A >> P	30 mm
TR	3000 ms
TE	68.00 ms
Averages	128
Filter	None
Coil elements	HEA;HEP

Contrast

Excite flip angle	90 deg
Refocus flip angle	180 deg
VAPOR	Enabled
VAPOR suppr.	Water suppr.
Water s. BW	68 Hz
Water s. delta pos.	0.00 ppm
Measurements	1

Resolution

Vector size	2048
Matrix Coil Mode	Auto (Triple)

Geometry

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto

Adjust volume

Position	R3.2 A33.8 H57.3
Orientation	C > T9.4 > S-0.3
Rotation	93.70 deg
R >> L	30 mm
F >> H	30 mm
A >> P	30 mm

Physio

1st Signal/Mode	None
-----------------	------

Sequence

Introduction	On
Preparation scans	4
Delta frequency	-1.7 ppm
Phase cycling	Auto
Bandwidth	1200 Hz
Acquisition duration	1706 ms
Remove oversampling	On
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Excite pulse duration	2120 us
Refocus pulse duration	5200 us
Spoiler max. amplitude	26.0 mT/m
Spoiler duration	500 us
Refocus grad. factor	1.00
Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	240 us
MEGA flip angle	180 deg
VAPOR flip angle	80 deg
VAPOR delay 8	17 ms
VAPOR delay 7	76 ms
OVS pulse duration	5120 us
OVS flip angle RO	90 deg
OVS flip angle PH	90 deg
OVS flip angle SL	90 deg
VAPOR delay 6	68 ms
VAPOR delay 5	106 ms
VAPOR delay 4	105 ms
VAPOR delay 3	146 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	On
Resolve averages	On
PRESS+4	Off
MEGA water suppr.	On
Inversion pulse	Off
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None
Number of label freqs.	2
Editing pulse freq. [1]	7.50 ppm
Editing pulse freq. [2]	1.90 ppm
Editing pulse BW	70.00 Hz

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542\ejasvs_mpress_h2o

TA: 1:54 Vol: 20 x20 x20 mm Rel. SNR: 1.00 USER: ejasvs_mpress

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

Position	R3.2 A33.8 H57.3
Orientation	C > T9.4 > S-0.3
Rotation	93.70 deg
Vol F >> H	20 mm
Vol R >> L	20 mm
Vol A >> P	20 mm
TR	3000 ms
TE	68.00 ms
Averages	16
Filter	None
Coil elements	HEA;HEP

Contrast

Excite flip angle	90 deg
Refocus flip angle	180 deg
VAPOR	Only RF off
VAPOR suppr.	Water suppr.
Water s. BW	68 Hz
Water s. delta pos.	0.00 ppm
Measurements	1

Resolution

Vector size	2048
Matrix Coil Mode	Auto (Triple)

Geometry

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto

Adjust volume

Position	R3.2 A33.8 H57.3
Orientation	C > T9.4 > S-0.3
Rotation	93.70 deg
R >> L	20 mm
F >> H	20 mm
A >> P	20 mm

Physio

1st Signal/Mode	None
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Sequence

Introduction	On
Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	1200 Hz
Acquisition duration	1706 ms
Remove oversampling	On
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Excite pulse duration	2120 us
Refocus pulse duration	5200 us
Spoiler max. amplitude	26.0 mT/m
Spoiler duration	500 us
Refocus grad. factor	1.00
Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	240 us
MEGA flip angle	180 deg
VAPOR flip angle	80 deg
VAPOR delay 8	17 ms
VAPOR delay 7	76 ms
OVS pulse duration	5120 us
OVS flip angle RO	90 deg
OVS flip angle PH	90 deg
OVS flip angle SL	90 deg
VAPOR delay 6	68 ms
VAPOR delay 5	106 ms
VAPOR delay 4	105 ms
VAPOR delay 3	146 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	On
Resolve averages	On
PRESS+4	Off
MEGA water suppr.	Off
Inversion pulse	Off
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None
Number of label freqs.	2
Editing pulse freq. [1]	7.50 ppm
Editing pulse freq. [2]	1.90 ppm
Editing pulse BW	70.00 Hz

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\localizer_32ch

TA: 0:10 PAT: Off Voxel size: 1.9x1.5x8.0 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	Off
Wait for user to start	Off
Start measurements	single

Phase resolution	75 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
TR	20.0 ms
TE	5.00 ms
Averages	1
Concatenations	3
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Geometry

Multi-slice mode	Sequential
Series	Ascending

Saturation mode	Standard
Special sat.	None

Tim CT mode	Off

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Physio

1st Signal/Mode	None
Segments	1

Dark blood	Off

Resp. control	Off

Resolution

Base resolution	192
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Inline

Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
Allowed delay	0 s

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\bias_bc

TA: 0:37 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 SIEMENS: tfl

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

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	R1.3 P0.0 H5.4
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	18 %
Slice oversampling	0.0 %
Slices per slab	88
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
TR	310 ms
TE	1.45 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	BC

Contrast

Magn. preparation	None
Flip angle	3 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 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

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

System

Body	On
HEP	Off
HEA	Off

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

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Allowed
Bandwidth	590 Hz/Px
Flow comp.	No
Echo spacing	3.4 ms

RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\bias_32ch

TA: 0:37 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 SIEMENS: tfl

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

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	R1.3 P0.0 H5.4
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	18 %
Slice oversampling	0.0 %
Slices per slab	88
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
TR	310 ms
TE	1.45 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

Magn. preparation	None
Flip angle	3 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 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

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

System

Body	Off
HEP	On
HEA	On

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

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Allowed
Bandwidth	590 Hz/Px
Flow comp.	No
Echo spacing	3.4 ms

RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\mprage_5e_32ch

TA: 6:03 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 USER: tfl_mgh_multiecho

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

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L1.3 P0.0 H24.3
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2530 ms
TE 1	1.64 ms
TE 2	3.5 ms
TE 3	5.36 ms
TE 4	7.22 ms
TE 5	9.08 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

Magn. preparation	Non-sel. IR
TI	1200 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	256
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
Matrix Coil Mode	Auto (Triple)

Reference scan mode

Reference scan mode	Integrated

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	5

SIEMENS MAGNETOM TrioTim syngo MR B17

Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Bandwidth 5	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Flow comp. 5	No
Echo spacing	12.2 ms

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

Readout polarity	Positive
Readout trajectory	Bipolar
Add. scale factor	4.0
Gradient spoiling	Integral
Gradient moment factor	3.0
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\distortion_corr_32ch_pa

TA: 0:22 PAT: Off Voxel size: 3.0x3.0x3.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_se

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	56
Dist. factor	0 %
Position	R3.5 A12.5 H32.5
Orientation	T > C-22.6
Phase enc. dir.	P >> A
Rotation	180.00 deg
Phase oversampling	0 %
FoV read	248 mm
FoV phase	100.0 %
Slice thickness	3.00 mm
TR	7220 ms
TE	73.0 ms
Multi-band accel. factor	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	90 deg
Refocus flip angle	180 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Disabled

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	2
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	82
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

System

Body	Off
HEP	On
HEA	On

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
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	R3.5 A12.5 H32.5
Orientation	T > C-22.6
Rotation	180.00 deg
R >> L	248 mm
A >> P	248 mm
F >> H	168 mm

Physio

1st Signal/Mode	None
-----------------	------

BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	3
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Contrasts	1
Bandwidth	2772 Hz/Px
Free echo spacing	Off
Echo spacing	0.51 ms

EPI factor	82
RF pulse type	Normal
Gradient mode	Fast

Fake MB factor for SB	8
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\distortion_corr_32ch_ap

TA: 0:22 PAT: Off Voxel size: 3.0x3.0x3.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_se

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	56
Dist. factor	0 %
Position	R3.5 A12.5 H32.5
Orientation	T > C-22.6
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	248 mm
FoV phase	100.0 %
Slice thickness	3.00 mm
TR	7220 ms
TE	73.0 ms
Multi-band accel. factor	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	90 deg
Refocus flip angle	180 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Disabled

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	2
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	82
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

System

Body	Off
HEP	On
HEA	On

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
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	R3.5 A12.5 H32.5
Orientation	T > C-22.6
Rotation	0.00 deg
R >> L	248 mm
A >> P	248 mm
F >> H	168 mm

Physio

1st Signal/Mode	None
-----------------	------

BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	3
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Contrasts	1
Bandwidth	2772 Hz/Px
Free echo spacing	Off
Echo spacing	0.51 ms

EPI factor	82
RF pulse type	Normal
Gradient mode	Fast

Fake MB factor for SB	8
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\rest_32ch_mb8_v01_r01

TA: 5:06 PAT: Off Voxel size: 3.0x3.0x3.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_bold

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	56
Dist. factor	0 %
Position	R3.5 A7.1 H6.2
Orientation	T > C-22.6
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	248 mm
FoV phase	100.0 %
Slice thickness	3.00 mm
TR	460 ms
TE	29.0 ms
Multi-band accel. factor	8
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	44 deg
Fat suppr.	Fat sat.

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	650
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	82
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.	None

System

Body	Off
HEP	On
HEA	On

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
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	R3.5 A7.1 H6.2
Orientation	T > C-22.6
Rotation	0.00 deg
R >> L	248 mm
A >> P	248 mm
F >> H	168 mm

Physio

1st Signal/Mode	None
-----------------	------

BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
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
Contrasts	1
Bandwidth	2772 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.51 ms

SIEMENS MAGNETOM TrioTim syngo MR B17

EPI factor	82
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	5120 us
Single-band images	On
MB LeakBlock kernel	Off
MB dual kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Remote
FFT scale factor	0.90
Physio recording	Off
Triggering scheme	Standard

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\epsi_extWSr_vsTE_smgrappa1_el3

TA: 19:11 Voxel size: 5.6x5.6x10.0 mm Rel. SNR: 1.00 USER: epsi_extWSr_vsTE_smgrappa1_el3

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

Position	Isocenter
Orientation	Transversal
Rotation	0 deg
FoV R >> L	280 mm
FoV A >> P	280 mm
FoV F >> H	180 mm
Vol F >> H	140 mm
Slabs	1
TR 1	1551 ms
TR 2	511 ms
TE	17.6 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TD	198 ms
Flip angle	71 deg
Water suppr.	Water sat.
Water suppr. BW	40 Hz
Measurements	1

Resolution

Scan res. R >> L	50
Scan res. A >> P	50
Scan res. F >> H	18
Vector size	1000
Matrix Coil Mode	Auto (CP)

Geometry

Sat. region 1	
Thickness	50 mm
Position	Isocenter
Orientation	Transversal

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On

Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Advanced
Adj. water suppr.	On
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	Transversal
Rotation	0.00 deg
R >> L	280 mm
A >> P	280 mm
F >> H	140 mm

Sequence

Preparation scans	5
Delta frequency	-2.2 ppm
Phase encoding	Elliptical
Bandwidth	125000 Hz

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\dti_32ch_mb3_ap_44dir_b2400

TA: 3:12 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

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	72
Dist. factor	0 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	224 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
TR	4000 ms
TE	108.0 ms
Multi-band accel. factor	3
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	84 deg
Refocus flip angle	157 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Disabled

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	112
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Distortion Corr.	Off
Prescan Normalize	On
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
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	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	224 mm
A >> P	224 mm
F >> H	144 mm

Physio

1st Signal/Mode	None
-----------------	------

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	2400 s/mm ²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	Off
Mosaic	On
Tensor	Off
Noise level	40
Diff. directions	44

Sequence

Introduction	Off
Bandwidth	1654 Hz/Px
Free echo spacing	On
Echo spacing	0.74 ms

EPI factor	112
Gradient mode	Fast
RF spoiling	Off

Excite pulse duration	2560 us
Refocus pulse duration	5120 us
Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB dual kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
SENSE1 coil combine	On
Invert RO/PE polarity	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

Online multi-band recon.
FFT scale factor
Physio recording

Remote
1.00
Off

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\dti_32ch_mb3_pa_47dir_b2400

TA: 3:24 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

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	72
Dist. factor	0 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	P >> A
Rotation	180.00 deg
Phase oversampling	0 %
FoV read	224 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
TR	4000 ms
TE	108.0 ms
Multi-band accel. factor	3
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	84 deg
Refocus flip angle	157 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Disabled

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	112
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Distortion Corr.	Off
Prescan Normalize	On
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
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	Isocenter
Orientation	Transversal
Rotation	180.00 deg
R >> L	224 mm
A >> P	224 mm
F >> H	144 mm

Physio

1st Signal/Mode	None
-----------------	------

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	2400 s/mm ²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	Off
Mosaic	On
Tensor	Off
Noise level	40
Diff. directions	47

Sequence

Introduction	Off
Bandwidth	1654 Hz/Px
Free echo spacing	On
Echo spacing	0.74 ms

EPI factor	112
Gradient mode	Fast
RF spoiling	Off

Excite pulse duration	2560 us
Refocus pulse duration	5120 us
Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB dual kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
SENSE1 coil combine	On
Invert RO/PE polarity	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

Online multi-band recon.
FFT scale factor
Physio recording

Remote
1.00
Off

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\dti_32ch_mb3_lr_44dir

TA: 3:12 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

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	72
Dist. factor	0 %
Position	R5.5 A3.7 H6.2
Orientation	Transversal
Phase enc. dir.	L >> R
Rotation	-90.00 deg
Phase oversampling	0 %
FoV read	224 mm
FoV phase	85.7 %
Slice thickness	2.00 mm
TR	4000 ms
TE	108.0 ms
Multi-band accel. factor	3
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	84 deg
Refocus flip angle	157 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Disabled

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	112
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

System

Body	Off
HEP	On
HEA	On

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
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	R5.5 A3.7 H6.2
Orientation	Transversal
Rotation	-90.00 deg
A >> P	224 mm
R >> L	192 mm
F >> H	144 mm

Physio

1st Signal/Mode	None
-----------------	------

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	3000 s/mm ²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	Off
Mosaic	On
Tensor	Off
Noise level	40
Diff. directions	44

Sequence

Introduction	Off
Bandwidth	1654 Hz/Px
Free echo spacing	Off
Echo spacing	0.74 ms

EPI factor	96
Gradient mode	Fast*
RF spoiling	Off

Excite pulse duration	2560 us
Refocus pulse duration	5120 us
Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB dual kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
SENSE1 coil combine	On
Invert RO/PE polarity	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

Online multi-band recon.	Remote
FFT scale factor	1.00
Physio recording	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\dti_32ch_mb3_rl_47dir

TA: 3:24 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

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	72
Dist. factor	0 %
Position	R5.5 A3.7 H6.2
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	224 mm
FoV phase	85.7 %
Slice thickness	2.00 mm
TR	4000 ms
TE	108.0 ms
Multi-band accel. factor	3
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Flip angle	84 deg
Refocus flip angle	157 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Disabled

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	112
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved

Special sat.

None

System

Body	Off
HEP	On
HEA	On

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
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	R5.5 A3.7 H6.2
Orientation	Transversal
Rotation	90.00 deg
A >> P	224 mm
R >> L	192 mm
F >> H	144 mm

Physio

1st Signal/Mode	None
-----------------	------

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	3000 s/mm ²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	Off
Mosaic	On
Tensor	Off
Noise level	40
Diff. directions	47

Sequence

Introduction	Off
Bandwidth	1654 Hz/Px
Free echo spacing	Off
Echo spacing	0.74 ms

EPI factor	96
Gradient mode	Fast*
RF spoiling	Off

Excite pulse duration	2560 us
Refocus pulse duration	5120 us
Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB dual kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
SENSE1 coil combine	On
Invert RO/PE polarity	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

Online multi-band recon.
FFT scale factor
Physio recording

Remote
1.00
Off

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\svs_st_null_met

TA: 8:40 Vol: 30 x20 x20 mm Rel. SNR: 1.00 USER: svs_st_null

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

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	30 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	2000 ms
TE	7.0 ms
Averages	256
Filter	None
Coil elements	HEA;HEP

Contrast

TM	10 ms
RF Duration	2.200 ms
TI	575 ms
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	35 Hz
Measurements	1

Resolution

Prescan Normalize	Off
Vector size	2048
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	On
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	Transversal
Rotation	90.00 deg
A >> P	30 mm
R >> L	20 mm
F >> H	20 mm

Sequence

Preparation scans	4
Delta frequency	-2.7 ppm
Phase cycling	16 EXOR cycle
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On
TE Spoiler FlatTop Time	500 us
TE Spoiler Amplitude	207 /10
# of RSats	1
Add. Water Supp Grads	On
WS Grad Fill Dur & Amp	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\svs_st_pr_new_h2o

TA: 0:40 Vol: 30 x20 x20 mm Rel. SNR: 1.00 USER: svs_st_pr_new

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

Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	30 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	2000 ms
TE	6.5 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TM	10 ms
Phase of RF1	135.000 ms
Phase of RF2	22.500 ms
Phase of RF3	112.500 ms
Phase of ADC	0.000 ms
RF Duration	2.200 ms
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	35 Hz
Measurements	16
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s
Pause after meas. 12	0.0 s
Pause after meas. 13	0.0 s
Pause after meas. 14	0.0 s
Pause after meas. 15	0.0 s

Resolution

Prescan Normalize	Off
Vector size	2048
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default

Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	90.00 deg
A >> P	30 mm
R >> L	20 mm
F >> H	20 mm

Sequence

Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

Add TE Spoilers	On
Add TM Spoilers	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\svs_st_null_h2o

TA: 0:40 Vol: 30 x20 x20 mm Rel. SNR: 1.00 USER: svs_st_null

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

? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	90.00 deg
A >> P	30 mm
R >> L	20 mm
F >> H	20 mm

Sequence

Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	16 EXOR cycle
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

TE Spoiler FlatTop Time	500 us
TE Spoiler Amplitude	207 /10
# of RSats	1
Add. Water Supp Grads	On
WS Grad Fill Dur & Amp	On

Routine

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	30 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	2000 ms
TE	7.0 ms
Averages	16
Filter	None
Coil elements	HEA;HEP

Contrast

TM	10 ms
RF Duration	2.200 ms
TI	575 ms
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	35 Hz
Measurements	1

Resolution

Prescan Normalize	Off
Vector size	2048

Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default

Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\BrainGluSchi_20542_32CHAN\svs_st_pr_new_met

TA: 8:40 Vol: 30 x20 x20 mm Rel. SNR: 1.00 USER: svs_st_pr_new

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

Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	90.00 deg
A >> P	30 mm
R >> L	20 mm
F >> H	20 mm

Routine

Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	30 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	2000 ms
TE	6.5 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Sequence

Preparation scans	4
Delta frequency	-2.7 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

Add TE Spoilers	On
Add TM Spoilers	On

Contrast

TM	10 ms
Phase of RF1	135.000 ms
Phase of RF2	22.500 ms
Phase of RF3	112.500 ms
Phase of ADC	0.000 ms
RF Duration	2.200 ms
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	35 Hz
Measurements	256
Pause after meas.	0.0 s

Resolution

Prescan Normalize	Off
Vector size	2048

Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default

Shim mode	Advanced

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from

TA: 0:10 PAT: Off Voxel size: 1.9x1.5x8.0 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	Off
Wait for user to start	Off
Start measurements	single

Phase resolution	75 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
TR	20.0 ms
TE	5.00 ms
Averages	1
Concatenations	3
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Geometry

Multi-slice mode	Sequential
Series	Ascending

Saturation mode	Standard
Special sat.	None

Tim CT mode	Off

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Physio

1st Signal/Mode	None
Segments	1

Dark blood	Off

Resp. control	Off

Resolution

Base resolution	192
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Inline

Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
Allowed delay	0 s

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from
 TA: 6:03 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 USER: tfl_mgh_multiecho

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

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L1.3 P0.0 H24.3
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2530 ms
TE 1	1.64 ms
TE 2	3.5 ms
TE 3	5.36 ms
TE 4	7.22 ms
TE 5	9.08 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

Magn. preparation	Non-sel. IR
TI	1200 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	256
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
Matrix Coil Mode	Auto (Triple)

Reference scan mode

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default
Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	5

SIEMENS MAGNETOM TrioTim syngo MR B17

Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Bandwidth 5	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Flow comp. 5	No
Echo spacing	12.2 ms

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

Readout polarity	Positive
Readout trajectory	Bipolar
Add. scale factor	4.0
Gradient spoiling	Integral
Gradient moment factor	3.0
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from
 TA: 19:11 Voxel size: 5.6x5.6x10.0 mm Rel. SNR: 1.00 USER: epsi_extWSr_vsTE_smgrappa1_el3

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

Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Advanced
Adj. water suppr.	On
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	Transversal
Rotation	0.00 deg
R >> L	280 mm
A >> P	280 mm
F >> H	140 mm

Routine

Position	Isocenter
Orientation	Transversal
Rotation	0 deg
FoV R >> L	280 mm
FoV A >> P	280 mm
FoV F >> H	180 mm
Vol F >> H	140 mm
Slabs	1
TR 1	1551 ms
TR 2	511 ms
TE	17.6 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Sequence

Preparation scans	5
Delta frequency	-2.2 ppm
Phase encoding	Elliptical
Bandwidth	125000 Hz

Contrast

TD	198 ms
Flip angle	71 deg
Water suppr.	Water sat.
Water suppr. BW	40 Hz
Measurements	1

Resolution

Scan res. R >> L	50
Scan res. A >> P	50
Scan res. F >> H	18
Vector size	1000

Matrix Coil Mode	Auto (CP)

Geometry

Sat. region 1	
Thickness	50 mm
Position	Isocenter
Orientation	Transversal

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from

TA: 0:10 PAT: Off Voxel size: 1.9x1.5x8.0 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	Off
Wait for user to start	Off
Start measurements	single

Phase resolution	75 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
TR	20.0 ms
TE	5.00 ms
Averages	1
Concatenations	3
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Geometry

Multi-slice mode	Sequential
Series	Ascending

Saturation mode	Standard
Special sat.	None

Tim CT mode	Off

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Physio

1st Signal/Mode	None
Segments	1

Dark blood	Off

Resp. control	Off

Resolution

Base resolution	192
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Inline

Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
Allowed delay	0 s

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from
 TA: 6:03 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 USER: tfl_mgh_multiecho

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

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L1.3 P0.0 H24.3
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2530 ms
TE 1	1.64 ms
TE 2	3.5 ms
TE 3	5.36 ms
TE 4	7.22 ms
TE 5	9.08 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

Magn. preparation	Non-sel. IR
TI	1200 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	256
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
Matrix Coil Mode	Auto (Triple)

Reference scan mode

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default
Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	5

SIEMENS MAGNETOM TrioTim syngo MR B17

Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Bandwidth 5	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Flow comp. 5	No
Echo spacing	12.2 ms

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

Readout polarity	Positive
Readout trajectory	Bipolar
Add. scale factor	4.0
Gradient spoiling	Integral
Gradient moment factor	3.0
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from

TA: 19:11 Voxel size: 5.6x5.6x10.0 mm Rel. SNR: 1.00 USER: epsi_extWSr_vsTE_smgrappa1_el3

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

Position	Isocenter
Orientation	Transversal
Rotation	0 deg
FoV R >> L	280 mm
FoV A >> P	280 mm
FoV F >> H	180 mm
Vol F >> H	140 mm
Slabs	1
TR 1	1551 ms
TR 2	511 ms
TE	17.6 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TD	198 ms
Flip angle	71 deg
Water suppr.	Water sat.
Water suppr. BW	40 Hz
Measurements	1

Resolution

Scan res. R >> L	50
Scan res. A >> P	50
Scan res. F >> H	18
Vector size	1000
Matrix Coil Mode	Auto (CP)

Geometry

Sat. region 1	
Thickness	50 mm
Position	Isocenter
Orientation	Transversal

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On

Coil Combine Mode

Auto Coil Select	Adaptive Combine
	Default
Shim mode	Advanced
Adj. water suppr.	On
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	Transversal
Rotation	0.00 deg
R >> L	280 mm
A >> P	280 mm
F >> H	140 mm

Sequence

Preparation scans	5
Delta frequency	-2.2 ppm
Phase encoding	Elliptical
Bandwidth	125000 Hz

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from

TA: 0:10 PAT: Off Voxel size: 1.9x1.5x8.0 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	Off
Wait for user to start	Off
Start measurements	single

Phase resolution	75 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
TR	20.0 ms
TE	5.00 ms
Averages	1
Concatenations	3
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Geometry

Multi-slice mode	Sequential
Series	Ascending

Saturation mode	Standard
Special sat.	None

Tim CT mode	Off

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Physio

1st Signal/Mode	None
Segments	1

Dark blood	Off

Resp. control	Off

Resolution

Base resolution	192
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Inline

Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off

SIEMENS MAGNETOM TrioTim syngo MR B17

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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
Allowed delay	0 s

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from
 TA: 6:03 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 USER: tfl_mgh_multiecho

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

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L1.3 P0.0 H24.3
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2530 ms
TE 1	1.64 ms
TE 2	3.5 ms
TE 3	5.36 ms
TE 4	7.22 ms
TE 5	9.08 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast

Magn. preparation	Non-sel. IR
TI	1200 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	256
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
Matrix Coil Mode	Auto (Triple)

Reference scan mode

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default
Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 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	5

SIEMENS MAGNETOM TrioTim syngo MR B17

Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Bandwidth 5	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Flow comp. 5	No
Echo spacing	12.2 ms

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

Readout polarity	Positive
Readout trajectory	Bipolar
Add. scale factor	4.0
Gradient spoiling	Integral
Gradient moment factor	3.0
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from

TA: 8:40 Vol: 30 x20 x20 mm Rel. SNR: 1.00 USER: svs_st_pr_new

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

Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	90.00 deg
A >> P	30 mm
R >> L	20 mm
F >> H	20 mm

Routine

Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	30 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	2000 ms
TE	6.5 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Sequence

Preparation scans	4
Delta frequency	-2.7 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

Add TE Spoilers	On
Add TM Spoilers	On

Contrast

TM	10 ms
Phase of RF1	135.000 ms
Phase of RF2	22.500 ms
Phase of RF3	112.500 ms
Phase of ADC	0.000 ms
RF Duration	2.200 ms
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	35 Hz
Measurements	256
Pause after meas.	0.0 s

Resolution

Prescan Normalize	Off
Vector size	2048

Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default

Shim mode	Advanced

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from

TA: 0:40 Vol: 20 x20 x15 mm Rel. SNR: 1.00 USER: svs_st_pr_new

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

Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	20 mm
Vol R >> L	20 mm
Vol F >> H	15 mm
TR	2000 ms
TE	6.5 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TM	10 ms
Phase of RF1	135.000 ms
Phase of RF2	22.500 ms
Phase of RF3	112.500 ms
Phase of ADC	0.000 ms
RF Duration	2.200 ms
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	35 Hz
Measurements	16
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s
Pause after meas. 12	0.0 s
Pause after meas. 13	0.0 s
Pause after meas. 14	0.0 s
Pause after meas. 15	0.0 s

Resolution

Prescan Normalize	Off
Vector size	2048
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default

Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
R >> L	20 mm
A >> P	20 mm
F >> H	15 mm

Sequence

Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On
Add TE Spoilers	On
Add TM Spoilers	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from

TA: 8:40 Vol: 30 x20 x20 mm Rel. SNR: 1.00 USER: svs_st_pr_new

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

Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	90.00 deg
A >> P	30 mm
R >> L	20 mm
F >> H	20 mm

Routine

Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	30 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	2000 ms
TE	6.5 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Sequence

Preparation scans	4
Delta frequency	-2.7 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

Add TE Spoilers	On
Add TM Spoilers	On

Contrast

TM	10 ms
Phase of RF1	135.000 ms
Phase of RF2	22.500 ms
Phase of RF3	112.500 ms
Phase of ADC	0.000 ms
RF Duration	2.200 ms
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	35 Hz
Measurements	256
Pause after meas.	0.0 s

Resolution

Prescan Normalize	Off
Vector size	2048

Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default

Shim mode	Advanced

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\Reliability_ Instructions only - run study from

TA: 0:40 Vol: 20 x20 x15 mm Rel. SNR: 1.00 USER: svs_st_pr_new

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

Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	20 mm
Vol R >> L	20 mm
Vol F >> H	15 mm
TR	2000 ms
TE	6.5 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TM	10 ms
Phase of RF1	135.000 ms
Phase of RF2	22.500 ms
Phase of RF3	112.500 ms
Phase of ADC	0.000 ms
RF Duration	2.200 ms
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	35 Hz
Measurements	16
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s
Pause after meas. 12	0.0 s
Pause after meas. 13	0.0 s
Pause after meas. 14	0.0 s
Pause after meas. 15	0.0 s

Resolution

Prescan Normalize	Off
Vector size	2048
Matrix Coil Mode	Auto (CP)

Geometry

System	
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Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default

Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
R >> L	20 mm
A >> P	20 mm
F >> H	15 mm

Sequence

Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On
Add TE Spoilers	On
Add TM Spoilers	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\phantom_20542\localizer_32ch

TA: 0:10 PAT: Off Voxel size: 1.9x1.5x8.0 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	Off
Wait for user to start	Off
Start measurements	single

Phase resolution	75 %
Phase partial Fourier	Off
Interpolation	Off

PAT mode	None
Matrix Coil Mode	Auto (CP)

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
TR	20.0 ms
TE	5.00 ms
Averages	1
Concatenations	3
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Geometry

Multi-slice mode	Sequential
Series	Ascending

Saturation mode	Standard
Special sat.	None

Tim CT mode	Off

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
Auto Coil Select	Default

Shim mode	Tune up
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	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	40 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Physio

1st Signal/Mode	None
Segments	1

Dark blood	Off

Resp. control	Off

Resolution

Base resolution	192
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Inline

Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off

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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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
Allowed delay	0 s

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

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\\USER\JBUSTILLO\BrainGluSchi_20542\phantom_20542\svs_st_pr_new_met

TA: 11:20 Vol: 20 x10 x30 mm Rel. SNR: 1.00 USER: svs_st_pr_new

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

Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	20 mm
Vol R >> L	10 mm
Vol F >> H	30 mm
TR	10000 ms
TE	6.5 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TM	10 ms
Phase of RF1	135.000 ms
Phase of RF2	22.500 ms
Phase of RF3	112.500 ms
Phase of ADC	0.000 ms
RF Duration	2.200 ms
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	35 Hz
Measurements	64
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s
Pause after meas. 12	0.0 s
Pause after meas. 13	0.0 s
Pause after meas. 14	0.0 s
Pause after meas. 15	0.0 s
Pause after meas. 16	0.0 s
Pause after meas. 17	0.0 s
Pause after meas. 18	0.0 s
Pause after meas. 19	0.0 s
Pause after meas. 20	0.0 s
Pause after meas. 21	0.0 s
Pause after meas. 22	0.0 s
Pause after meas. 23	0.0 s
Pause after meas. 24	0.0 s

Pause after meas. 25	0.0 s
Pause after meas. 26	0.0 s
Pause after meas. 27	0.0 s
Pause after meas. 28	0.0 s
Pause after meas. 29	0.0 s
Pause after meas. 30	0.0 s
Pause after meas. 31	0.0 s
Pause after meas. 32	0.0 s
Pause after meas. 33	0.0 s
Pause after meas. 34	0.0 s
Pause after meas. 35	0.0 s
Pause after meas. 36	0.0 s
Pause after meas. 37	0.0 s
Pause after meas. 38	0.0 s
Pause after meas. 39	0.0 s
Pause after meas. 40	0.0 s
Pause after meas. 41	0.0 s
Pause after meas. 42	0.0 s
Pause after meas. 43	0.0 s
Pause after meas. 44	0.0 s
Pause after meas. 45	0.0 s
Pause after meas. 46	0.0 s
Pause after meas. 47	0.0 s
Pause after meas. 48	0.0 s
Pause after meas. 49	0.0 s
Pause after meas. 50	0.0 s
Pause after meas. 51	0.0 s
Pause after meas. 52	0.0 s
Pause after meas. 53	0.0 s
Pause after meas. 54	0.0 s
Pause after meas. 55	0.0 s
Pause after meas. 56	0.0 s
Pause after meas. 57	0.0 s
Pause after meas. 58	0.0 s
Pause after meas. 59	0.0 s
Pause after meas. 60	0.0 s
Pause after meas. 61	0.0 s
Pause after meas. 62	0.0 s
Pause after meas. 63	0.0 s

Resolution

Prescan Normalize	Off
Vector size	2048
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default
Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off

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Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	90.00 deg
A >> P	20 mm
R >> L	10 mm
F >> H	30 mm

Sequence

Preparation scans	4
Delta frequency	-2.7 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

Add TE Spoilers	On
Add TM Spoilers	On

SIEMENS MAGNETOM TrioTim syngo MR B17

\\USER\JBUSTILLO\BrainGluSchi_20542\phantom_20542\svs_st_pr_new_h2o

TA: 0:40 Vol: 20 x20 x15 mm Rel. SNR: 1.00 USER: svs_st_pr_new

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

Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
Vol A >> P	20 mm
Vol R >> L	20 mm
Vol F >> H	15 mm
TR	2000 ms
TE	6.5 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TM	10 ms
Phase of RF1	135.000 ms
Phase of RF2	22.500 ms
Phase of RF3	112.500 ms
Phase of ADC	0.000 ms
RF Duration	2.200 ms
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	35 Hz
Measurements	16
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s
Pause after meas. 12	0.0 s
Pause after meas. 13	0.0 s
Pause after meas. 14	0.0 s
Pause after meas. 15	0.0 s

Resolution

Prescan Normalize	Off
Vector size	2048
Matrix Coil Mode	Auto (CP)

Geometry

System

Body	Off
HEP	On
HEA	On

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	On
Auto Coil Select	Default

Shim mode	Advanced
Adj. water suppr.	On
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R4.7 A1.3 F32.4
Orientation	Transversal
Rotation	0.00 deg
R >> L	20 mm
A >> P	20 mm
F >> H	15 mm

Sequence

Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

Add TE Spoilers	On
Add TM Spoilers	On