

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\32 Channel Localizer

TA: 0:13 PAT: Off Voxel size: 1.1x1.0x7.0 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	90 %
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	Inplane

## Routine

Slice group 1	
Slices	1
Dist. factor	20 %
Position	L0.0 A20.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	L0.0 A24.1 H0.0
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	L0.0 A24.1 H0.0
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	7.0 mm
TR	8.6 ms
TE	4.00 ms
Averages	2
Concatenations	3
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

## Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

## Resolution

Base resolution	256
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Phase resolution	90 %
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	Inplane

## Geometry

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

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	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	Adaptive Combine
AutoAlign	---
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

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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	
Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_MPRAGE\_32chn

TA: 4:32 PAT: 2 Voxel size: 1.0x1.0x1.0 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	On
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 A28.2 H0.0
Orientation	S > T-0.8 > C0.2
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	25.0 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2250 ms
TE	2.98 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

## Contrast

Magn. preparation	Non-sel. IR
TI	900 ms
Flip angle	9 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	96 %
Slice resolution	100 %
Phase partial Fourier	7/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
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	Off

Multi-slice mode	Single shot
Series	Interleaved

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	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	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	R1.3 A28.2 H0.0
Orientation	S > T-0.8 > C0.2
Rotation	0.00 deg
F >> H	256 mm
A >> P	256 mm
R >> L	192 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

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| Save original images      On

## Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Bandwidth	230 Hz/Px
Flow comp.	No
Echo spacing	7 ms
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RF pulse type	Fast
Gradient mode	Fast*
Excitation	Non-sel.
RF spoiling	On

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\t2\_spc\_CamCAN\_TR2800

TA: 4:30 PAT: 2 Voxel size: 1.0x1.0x1.0 mm Rel. SNR: 1.00 SIEMENS: tse\_vfl

Properties		Normalize	Off
Prio Recon	Off	B1 filter	Off
Before measurement		Raw filter	On
After measurement		Intensity	Weak
Load to viewer	On	Slope	25
Inline movie	Off	Elliptical filter	Off
Auto store images	On	Geometry	
Load to stamp segments	Off	Special sat.	None
Load images to graphic segments	Off	System	
Auto open inline display	Off	Body	Off
Start measurement without further preparation	On	HEP	On
Wait for user to start	On	HEA	On
Start measurements	single	SP4	Off
Routine		SP2	Off
Slab group 1		SP8	Off
Slabs	1	SP6	Off
Position	R1.3 A28.2 H0.0	SP3	Off
Orientation	S > T-0.8 > C0.2	SP1	Off
Phase enc. dir.	A >> P	SP7	Off
Rotation	0.00 deg	SP5	Off
Phase oversampling	15 %	Positioning mode	
Slice oversampling	0.0 %	Table position	FIX
Slices per slab	192	Table position	H
FoV read	256 mm	MSMA	0 mm
FoV phase	100.0 %	Sagittal	S - C - T
Slice thickness	1.00 mm	Coronal	R >> L
TR	2800 ms	Transversal	A >> P
TE	408 ms	Save uncombined	F >> H
Averages	1.0	Coil Combine Mode	Off
Concatenations	1	AutoAlign	Adaptive Combine
Filter	Raw filter, Prescan Normalize	Auto Coil Select	---
Coil elements	HEA;HEP	Shim mode	Default
Contrast		Adjust with body coil	Tune up
MTC	Off	Confirm freq. adjustment	Off
Magn. preparation	None	Assume Silicone	Off
Fat suppr.	None	? Ref. amplitude 1H	0.000 V
Water suppr.	None	Adjustment Tolerance	Auto
Restore magn.	Off	Adjust volume	
Reconstruction	Magnitude	Position	Isocenter
Measurements	1	Orientation	Transversal
Multiple series	Each measurement	Rotation	0.00 deg
Resolution		R >> L	350 mm
Base resolution	256	A >> P	263 mm
Phase resolution	100 %	F >> H	350 mm
Slice resolution	100 %	Physio	
Phase partial Fourier	Allowed	1st Signal/Mode	None
Slice partial Fourier	Off	Dark blood	Off
Interpolation	Off	Resp. control	Off
PAT mode	GRAPPA	Inline	
Accel. factor PE	2	Subtract	Off
Ref. lines PE	24	Std-Dev-Sag	Off
Accel. factor 3D	1	Std-Dev-Cor	Off
Matrix Coil Mode	Auto (Triple)	Std-Dev-Tra	Off
Reference scan mode	Integrated	Std-Dev-Time	Off
Image Filter	Off	MIP-Sag	Off
Distortion Corr.	Off	MIP-Cor	Off
Unfiltered images	Off	MIP-Tra	Off
Prescan Normalize	On	MIP-Time	Off
		Save original images	On

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## Sequence

Introduction	On
Dimension	3D
Bandwidth	751 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	3.36 ms
Adiabatic-mode	Off
Define	Echo trains
Turbo factor	159
Slice turbo factor	2
Echo trains per slice	1
Echo train duration	937
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_EPI\_restingstate

TA: 8:40 PAT: Off Voxel size: 3.0x3.0x3.7 mm Rel. SNR: 1.00 SIEMENS: ep2d\_pace

## 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	On
Start measurement without further preparation	On
Wait for user to start	On
Start measurements	single

## Routine

Slice group 1	
Slices	32
Dist. factor	20 %
Position	L0.4 P1.7 F7.9
Orientation	T > C-31.6
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	3.7 mm
TR	1970 ms
TE	30 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

## Contrast

MTC	Off
Flip angle	78 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	261
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	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	Descending
Special sat.	None

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off
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
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.4 P1.7 F7.9
Orientation	T > C-31.6
Rotation	0.00 deg
R >> L	192 mm
A >> P	192 mm
F >> H	142 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	3.00
Paradigm size	3
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Active
Motion correction	Off
Spatial filter	Off
Sequence	
Introduction	On
Bandwidth	2232 Hz/Px
Free echo spacing	Off
Echo spacing	0.51 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_EPI\_sensorimotor\_task

TA: 8:40 PAT: Off Voxel size: 3.0x3.0x3.7 mm Rel. SNR: 1.00 SIEMENS: ep2d\_pace

## 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	32
Dist. factor	20 %
Position	L0.4 P1.7 F7.9
Orientation	T > C-31.6
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	3.7 mm
TR	1970 ms
TE	30 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

## Contrast

MTC	Off
Flip angle	78 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	261
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	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	Descending
Special sat.	None

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off
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
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.4 P1.7 F7.9
Orientation	T > C-31.6
Rotation	0.00 deg
R >> L	192 mm
A >> P	192 mm
F >> H	142 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	3.00
Paradigm size	3
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Active
Motion correction	Off
Spatial filter	Off
Sequence	
Introduction	On
Bandwidth	2232 Hz/Px
Free echo spacing	Off
Echo spacing	0.51 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_MEPI5\_movie

TA: 8:13 PAT: 3 Voxel size: 3.0x3.0x3.7 mm Rel. SNR: 1.00 USER: BP\_ep2d\_multipurpose

Properties		Elliptical filter	Off
Prio Recon		Hamming	Off
Before measurement		Geometry	
After measurement		Multi-slice mode	Interleaved
Load to viewer		Series	Descending
Inline movie		Special sat.	None
Auto store images		System	
Load to stamp segments		Body	Off
Load images to graphic segments		HEP	On
Auto open inline display		HEA	On
Start measurement without further preparation		SP4	Off
Wait for user to start		SP2	Off
Start measurements		SP8	Off
single		SP6	Off
Routine		SP3	Off
Slice group 1		SP1	Off
Slices		SP7	Off
Dist. factor		SP5	Off
Position		Positioning mode	FIX
Orientation		Table position	H
Phase enc. dir.		Table position	0 mm
Rotation		MSMA	S - C - T
Phase oversampling		Sagittal	R >> L
FoV read		Coronal	A >> P
FoV phase		Transversal	F >> H
Slice thickness		Coil Combine Mode	Sum of Squares
TR		AutoAlign	---
TE 1		Auto Coil Select	Default
TE 2		Shim mode	Standard
TE 3		Adjust with body coil	Off
TE 4		Confirm freq. adjustment	Off
TE 5		Assume Silicone	Off
Averages		? Ref. amplitude 1H	0.000 V
Concatenations		Adjustment Tolerance	Auto
Filter		Adjust volume	
Coil elements		Position	L0.4 P1.7 F7.9
HEA;HEP		Orientation	T > C-31.6
Contrast		Rotation	0.00 deg
MTC		R >> L	192 mm
Flip angle		A >> P	192 mm
Fat suppr.		F >> H	142 mm
Averaging mode		Physio	
Reconstruction		1st Signal/Mode	None
Measurements		BOLD	
Delay in TR		GLM Statistics	Off
Multiple series		Dynamic t-maps	Off
Resolution		Starting ignore meas	0
Base resolution		Ignore after transition	0
Phase resolution		Model transition states	On
Phase partial Fourier		Temp. highpass filter	On
Interpolation		Threshold	4.00
PAT mode		Paradigm size	3
Accel. factor PE		Meas[1]	Baseline
Ref. lines PE		Meas[2]	Baseline
Matrix Coil Mode		Meas[3]	Active
Reference scan mode		Motion correction	Off
Distortion Corr.		Spatial filter	Off
Unfiltered images		Sequence	
Prescan Normalize		Introduction	On
Raw filter		Contrasts	5

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Bandwidth	2520 Hz/Px
Free echo spacing	Off
Echo spacing	0.5 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast
perform prepscans	yes
PE direction	Normal (A-P)
Ice Program	Dicoms
sequence mode	Normal (ME)EPI
trigger mode	per volume
delay 1st & 2nd echo	0 ms
delay later echoes	0 ms
z shim	0.00 mT/m*ms

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_FieldMapping

TA: 0:54

Voxel size: 3.0x3.0x3.7 mm Rel. SNR: 1.00 SIEMENS: gre\_field\_mapping

## 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	32
Dist. factor	20 %
Position	L0.4 P1.7 F7.9
Orientation	T > C-31.6
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	3.7 mm
TR	400 ms
TE 1	5.19 ms
TE 2	7.65 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

## Contrast

MTC	Off
Flip angle	60 deg
Fat suppr.	None
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Each measurement

## Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
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	Interleaved
Series	Interleaved
Special sat.	None

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off
Positioning mode	FIX
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
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.4 P1.7 F7.9
Orientation	T > C-31.6
Rotation	0.00 deg
R >> L	192 mm
A >> P	192 mm
F >> H	142 mm
Sequence	
Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	260 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_DKI\_30dir\_2bvals

TA: 10:02 PAT: 2 Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 SIEMENS: ep2d\_diff

Properties		Series	Interleaved	
Prio Recon	Off	Special sat.	None	
Before measurement	System			
After measurement	On	Body	Off	
Load to viewer	Off	HEP	On	
Inline movie	On	HEA	On	
Auto store images	Off	SP4	Off	
Load to stamp segments	Off	SP2	Off	
Load images to graphic segments	Off	SP8	Off	
Auto open inline display	Off	SP6	Off	
Start measurement without further preparation	On	SP3	Off	
Wait for user to start	On	SP1	Off	
Start measurements	single	SP7	Off	
		SP5	Off	
Routine	Positioning mode			
Slice group 1	66	Table position	FIX	
Slices	0 %	Table position	H	
Dist. factor	L6.7 A9.2 F27.2	MSMA	0 mm	
Position	T > C-17.7 > S-2.1	Sagittal	S - C - T	
Orientation	A >> P	Coronal	R >> L	
Phase enc. dir.	-0.80 deg	Transversal	A >> P	
Rotation	0 %	Coil Combine Mode	F >> H	
Phase oversampling	100.0 %	AutoAlign	Adaptive Combine	
FoV read	192 mm	Auto Coil Select	---	
FoV phase	2 mm		Default	
Slice thickness	9100 ms	Shim mode	Standard	
TR	104 ms	Adjust with body coil	Off	
TE	1	Confirm freq. adjustment	Off	
Averages	1	Assume Silicone	Off	
Concatenations	1	? Ref. amplitude 1H	0.000 V	
Filter	Raw filter	Adjustment Tolerance	Auto	
Coil elements	HEA;HEP	Adjust volume		
		Position	L6.7 A9.2 F27.2	
Contrast		Orientation	T > C-17.7 > S-2.1	
MTC	Off	Rotation	-0.80 deg	
Magn. preparation	None	R >> L	192 mm	
Fat suppr.	Fat sat.	A >> P	192 mm	
		F >> H	132 mm	
Averaging mode	Long term	Physio		
Reconstruction	Magnitude	1st Signal/Mode	None	
Delay in TR	0 ms	Resp. control	Off	
Multiple series	Off			
Resolution	Diff			
Base resolution	96	Diffusion mode	Free	
Phase resolution	100 %	Diff. weightings	3	
Phase partial Fourier	7/8	b-value 1	0 s/mm <sup>2</sup>	
Interpolation	Off	b-value 2	1000 s/mm <sup>2</sup>	
		b-value 3	2000 s/mm <sup>2</sup>	
PAT mode	GRAPPA	Diff. weighted images	On	
Accel. factor PE	2	Trace weighted images	Off	
Ref. lines PE	40	Average ADC maps	Off	
Matrix Coil Mode	Auto (Triple)	Individual ADC maps	Off	
Reference scan mode	Separate	FA maps	Off	
		Mosaic	On	
Distortion Corr.	Off	Tensor	Off	
Prescan Normalize	Off	Noise level	40	
Raw filter	On	Diff. directions	31	
Intensity	Weak	Sequence		
Slope	25	Introduction	On	
Elliptical filter	Off	Bandwidth	1628 Hz/Px	
Hamming	Off	Free echo spacing	Off	
Geometry				
Multi-slice mode	Interleaved			

## SIEMENS MAGNETOM TrioTim syngo MR B17

Echo spacing	0.72 ms
EPI factor	96
RF pulse type	Normal
Gradient mode	Fast*

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_MTR\_TR30\_MT

TA: 2:36 PAT: 2 Voxel size: 1.6x1.6x1.6 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

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

## Geometry

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

## Routine

Slab group 1	
Slabs	1
Dist. factor	0 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	104
FoV read	210 mm
FoV phase	100.0 %
Slice thickness	1.60 mm
TR	30 ms
TE	5.00 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off

Positioning mode	FIX
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

AutoAlign	---
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

MTC	On
Magn. preparation	None
Flip angle	12 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Base resolution	128
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	6/8
Interpolation	Off

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

## Resolution

Base resolution	128
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off

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	3D
Elliptical scanning	On
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_MTR\_TR30\_baseline

TA: 2:36 PAT: 2 Voxel size: 1.6x1.6x1.6 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

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

## Geometry

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

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off
Positioning mode	FIX
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
AutoAlign	---
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

# 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	3D
Elliptical scanning	On
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_MTR\_TR50\_MT

TA: 4:19 PAT: 2 Voxel size: 1.6x1.6x1.6 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	On
Start measurements	single

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

## Geometry

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

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off
Positioning mode	FIX
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
AutoAlign	---
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

# 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	3D
Elliptical scanning	On
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

# SIEMENS MAGNETOM TrioTim syngo MR B17

\USER\CBU\CamCan\CamCAN700\_final\CBU\_MTR\_TR50\_baseline

TA: 4:19 PAT: 2 Voxel size: 1.6x1.6x1.6 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

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

## Geometry

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

## System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off
Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
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? 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

## 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	3D
Elliptical scanning	On
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On