

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaM\DREaM\_Prisma\_2016\Localizer\_nonAA  
 TA:0:30 PAT:2 Voxel size:1.2×1.2×5.0 mm Rel. SNR:1.00 :tfi

**Properties**

Prio Recon	Off
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
Wait for user to start	On
Start measurements	single

**Routine**

Nr. of slice groups	3
Slices	16
Dist. factor	20 %
Position	L10.0 A15.0 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	3.63 ms
TE	1.58 ms
Averages	1
Filter	None
Coil elements	HE1-4

**Contrast**

TD	1000 ms
Magn. preparation	None
Flip angle	60 deg
Fat suppr.	None
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

## Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
TD	1000 ms
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Nr. of slice groups	3
Slices	16
Dist. factor	20 %
Position	L10.0 A15.0 H0.0 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Multi-slice mode	Sequential
Series	Interleaved
Nr. of sat. regions	0
Position mode	Offcenter-Shift
Fat suppr.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	Offcenter-Shift
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
AutoAlign	---
Coil Select Mode	Off - AutoCoilSelect
B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 A7.5 H0.0 mm
Rotation	90.00 deg
A >> P	316 mm
R >> L	301 mm
F >> H	301 mm
Frequency 1H	123.252312 MHz
Correction factor	1

PrepExc 1H	147.713 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000

**Physio**

1st Signal/Mode	None
Segments	1
Magn. preparation	None
Resp. control	Off

**Inline**

Inline Composing	Off
Distortion correction	Off

**Sequence**

Introduction	Off
Dimension	2D
Averaging mode	Short term
Multi-slice mode	Sequential
Reordering	Linear
Asymmetric echo	Allowed
Bandwidth	930 Hz/Px
Flow comp.	No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms
Mode	Off

**BOLD**

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	Off
Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\ellingson\todd\_DREaM\DREaM\_Prisma\_2016\AAHead\_Scout  
TA:0:14 PAT:3 Voxel size:1.6×1.6×1.6 mm Rel. SNR:1.00 :fl

### Properties

Prio Recon	Off
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	On
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

### Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A10.0 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	260 mm
FoV phase	100.0 %
Slice thickness	1.6 mm
TR	3.15 ms
TE	1.37 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HE1-4
AutoAlign	Head

### Contrast

Flip angle	8 deg
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude

## Resolution

Base resolution	160
Phase resolution	100 %
Phase partial Fourier	6/8
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Accel. factor 3D	1
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
Slice resolution	69 %
Slice partial Fourier	6/8

## Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A10.0 H0.0 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	128
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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
Coil Select Mode	Off - AutoCoilSelect
B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	123.252312 MHz
Correction factor	1
SRFExcit 1H	38.815 V

Gain	Low
Table position	0 mm
Img. Scale. Cor.	1.000

**Physio****Inline**

Inline Composing	Off
Distortion correction	Off

**Sequence**

Introduction	On
Dimension	3D
Averaging mode	Short term
Multi-slice mode	Sequential
Asymmetric echo	Weak
Contrasts	1
Bandwidth	540 Hz/Px
RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms
Mode	Off

**BOLD**

Time to center	6.2 s
Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	Off
MapIt	None
Contrasts	1
Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**



\\USER\Ellingson\Todd\_DREaM\DREaM\_Prisma\_2016\PosCheck\_AA\_ref  
 TA:0.6 s PAT:2 Voxel size:1.2×1.2×5.0 mm Rel. SNR:1.00 :tfi

### Properties

Prio Recon	Off
Load to viewer	Off
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	Off
Start measurements	single

### Routine

Nr. of slice groups	1
Slices	1
Dist. factor	100 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	Head > Temporal lobe
Phase oversampling	0 %
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	3.63 ms
TE	1.58 ms
Averages	1
Filter	None
Coil elements	HE1-4

### Contrast

Magn. preparation	None
Flip angle	60 deg
Fat suppr.	None
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

## Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Nr. of slice groups	1
Slices	1
Dist. factor	100 %
Position	Isocenter
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Sequential
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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
AutoAlign	Head > Temporal lobe
Coil Select Mode	Off - AutoCoilSelect
B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
F >> H	300 mm
R >> L	300 mm
A >> P	5 mm
Frequency 1H	123.252312 MHz
Correction factor	1

	PrepExc 1H	147.713 V
	Gain	High
	Table position	0 mm
	Img. Scale. Cor.	1.000
<b>Physio</b>		
	1st Signal/Mode	None
	Segments	1
	Magn. preparation	None
	Resp. control	Off
<b>Inline</b>		
	Inline Composing	Off
	Distortion correction	Off
<b>Sequence</b>		
	Introduction	Off
	Dimension	2D
	Averaging mode	Short term
	Multi-slice mode	Sequential
	Reordering	Linear
	Asymmetric echo	Allowed
	Bandwidth	930 Hz/Px
	Flow comp.	No
	RF pulse type	Normal
	Gradient mode	Fast
	Excitation	Slice-sel.
	TX/RX delta frequency	0 Hz
	TX Nucleus	None
	TX delta frequency	0 Hz
	Coil elements	HE1-4
	Acquisition duration	0 ms
	Mode	Off
<b>BOLD</b>		
	Subtract	Off
	StdDev	Off
	MIP-Sag	Off
	MIP-Cor	Off
	MIP-Tra	Off
	MIP-Time	Off
	Save original images	On
	Distortion Corr.	Off
	Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaM\DREaM\_Prisma\_2016\AA Head-Brain Loc 3-plane  
 TA:0:39 PAT:2 Voxel size:1.2x1.2x5.0 mm Rel. SNR:1.00 :tft

### Properties

Prio Recon	Off
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
Wait for user to start	Off
Start measurements	single

### Routine

Nr. of slice groups	3
Slices	20
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	3.63 ms
TE	1.58 ms
Averages	1
Filter	None
Coil elements	HE1-4

### Contrast

TD	1000 ms
Magn. preparation	None
Flip angle	60 deg
Fat suppr.	None
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

## Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
TD	1000 ms
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Nr. of slice groups	3
Slices	20
Dist. factor	20 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Multi-slice mode	Sequential
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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
AutoAlign	Head > Brain
Coil Select Mode	Off - AutoCoilSelect
B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	123.252312 MHz
Correction factor	1

	PrepExc 1H	147.713 V
	Gain	High
	Table position	0 mm
	Img. Scale. Cor.	1.000
<b>Physio</b>		
	1st Signal/Mode	None
	Segments	1
	Magn. preparation	None
	Resp. control	Off
<b>Inline</b>		
	Inline Composing	Off
	Distortion correction	Off
<b>Sequence</b>		
	Introduction	Off
	Dimension	2D
	Averaging mode	Short term
	Multi-slice mode	Sequential
	Reordering	Linear
	Asymmetric echo	Allowed
	Bandwidth	930 Hz/Px
	Flow comp.	No
	RF pulse type	Normal
	Gradient mode	Fast
	Excitation	Slice-sel.
	TX/RX delta frequency	0 Hz
	TX Nucleus	None
	TX delta frequency	0 Hz
	Coil elements	HE1-4
	Acquisition duration	0 ms
	Mode	Off
<b>BOLD</b>		
	Subtract	Off
	StdDev	Off
	MIP-Sag	Off
	MIP-Cor	Off
	MIP-Tra	Off
	MIP-Time	Off
	Save original images	On
	Distortion Corr.	Off
	Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**



\\USER\ellingson\todd\_DREaM\DREaM\_Prisma\_2016\Cor-Obl\_TSE\_AA\_TempLobe  
 TA:3:50 PAT:Off Voxel size:0.9×0.9×3.0 mm Rel. SNR:1.00 :tse

### Properties

Prio Recon	Off
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
Wait for user to start	On
Start measurements	single

### Routine

Nr. of slice groups	1
Slices	24
Dist. factor	0 %
Position	L0.0 A9.8 F1.7 mm
Orientation	C > T-5.0
Phase enc. dir.	R >> L
AutoAlign	Head > Temporal lobe
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	3000.0 ms
TE 1	10.0 ms
Averages	1
Concatenations	2
Filter	Raw filter
Coil elements	HE1-4

## Contrast

TD	0.0 ms
MTC	Off
Magn. preparation	None
Flip angle	180 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Averaging mode	Long term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

## Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	Off
TD	0.0 ms
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Medium
Slope	48
Elliptical filter	Off

## Geometry

Nr. of slice groups	1
Slices	24
Dist. factor	0 %
Position	L0.0 A9.8 F1.7 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off
Restore magn.	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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	Sum of Squares
AutoAlign	Head > Temporal lobe
Coil Select Mode	Off - AutoCoilSelect
B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	123.252312 MHz
Correction factor	1

Excit 1H	161.404 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000
<b>Physio</b>	
1st Signal/Mode	None
Magn. preparation	None
Dark blood	Off
Trajectory	Cartesian
Resp. control	Off
<b>Inline</b>	
Inline Composing	Off
Distortion correction	Off
<b>Sequence</b>	
Introduction	On
Dimension	2D
Compensate T2 decay	Off
Averaging mode	Long term
Multi-slice mode	Interleaved
Reduce Motion Sens.	On
Contrasts	2
Bandwidth	181 Hz/Px
Flow comp.	No
Allowed delay	10 s
Echo spacing	10.3 ms
Define	Turbo factor
Turbo factor	7
Echo trains per slice	37
RF pulse type	Normal
Gradient mode	Fast
Hyperecho	Off
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms
Mode	Off

**BOLD**

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	Off
Contrasts	2
Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\todd\_DREaM\DREaM\_Prisma\_2016\Cor-Obl\_IR\_Magn  
TA:3:20 PAT:Off Voxel size:0.9×0.9×3.0 mm Rel. SNR:1.00 :tir

**Properties**

Prio Recon	Off
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
Wait for user to start	On
Start measurements	single

## Routine

Nr. of slice groups	1
Slices	24
Dist. factor	0 %
Position	L0.0 A9.8 F1.7 mm
Orientation	C > T-5.0
Phase enc. dir.	R >> L
AutoAlign	Head > Temporal lobe
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	3000.0 ms
TE	11.0 ms
Averages	1
Concatenations	2
Filter	None
Coil elements	HE1-4

## Contrast

TD	0.0 ms
MTC	Off
Magn. preparation	Slice-sel. IR
TI	725 ms
Freeze suppressed tissue	Off
Flip angle	150 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Averaging mode	Long term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

## Resolution

Base resolution	256
Phase resolution	85 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	Off
TD	0.0 ms
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Nr. of slice groups	1
Slices	24
Dist. factor	0 %
Position	L0.0 A9.8 F1.7 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off
Restore magn.	Off



## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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	Sum of Squares
AutoAlign	Head > Temporal lobe
Coil Select Mode	Off - AutoCoilSelect
B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	123.252312 MHz
Correction factor	1

Excit 1H	161.404 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000

**Physio**

1st Signal/Mode	None
Magn. preparation	Slice-sel. IR
TI	725 ms
Dark blood	Off
Trajectory	Cartesian
Resp. control	Off

**Inline**

Inline Composing	Off
Distortion correction	Off

**Sequence**

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Averaging mode	Long term
Multi-slice mode	Interleaved
Reduce Motion Sens.	Off
Contrasts	1
Bandwidth	160 Hz/Px
Flow comp.	No
Allowed delay	10 s
Echo spacing	11.1 ms
Define	Turbo factor
Turbo factor	7
Echo trains per slice	32
RF pulse type	Normal
Gradient mode	Normal
Hyperecho	Off
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms
Mode	Off

**BOLD**

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	Off
Contrasts	1
Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaM\DREaM\_Prisma\_2016\Cor-Obl\_IR\_Real  
 TA:3:20 PAT:Off Voxel size:0.9×0.9×3.0 mm Rel. SNR:1.00 :tir

**Properties**

Prio Recon	Off
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
Wait for user to start	On
Start measurements	single

## Routine

Nr. of slice groups	1
Slices	24
Dist. factor	0 %
Position	L0.0 A9.8 F1.7 mm
Orientation	C > T-5.0
Phase enc. dir.	R >> L
AutoAlign	Head > Temporal lobe
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	3000.0 ms
TE	11.0 ms
Averages	1
Concatenations	2
Filter	None
Coil elements	HE1-4

## Contrast

TD	0.0 ms
MTC	Off
Magn. preparation	Slice-sel. IR
TI	750 ms
Freeze suppressed tissue	Off
Flip angle	150 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Averaging mode	Long term
Measurements	1
Reconstruction	Real
Multiple series	Each measurement

## Resolution

Base resolution	256
Phase resolution	85 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	Off
TD	0.0 ms
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

## Geometry

Nr. of slice groups	1
Slices	24
Dist. factor	0 %
Position	L0.0 A9.8 F1.7 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off
Restore magn.	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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	Sum of Squares
AutoAlign	Head > Temporal lobe
Coil Select Mode	Off - AutoCoilSelect
B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	123.252312 MHz
Correction factor	1

Excit 1H	161.404 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000

**Physio**

1st Signal/Mode	None
Magn. preparation	Slice-sel. IR
TI	750 ms
Dark blood	Off
Trajectory	Cartesian
Resp. control	Off

**Inline**

Inline Composing	Off
Distortion correction	Off

**Sequence**

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Averaging mode	Long term
Multi-slice mode	Interleaved
Reduce Motion Sens.	Off
Contrasts	1
Bandwidth	160 Hz/Px
Flow comp.	No
Allowed delay	10 s
Echo spacing	11.1 ms
Define	Turbo factor
Turbo factor	7
Echo trains per slice	32
RF pulse type	Normal
Gradient mode	Normal
Hyperecho	Off
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms
Mode	Off

**BOLD**

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	Off
Contrasts	1
Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaM\DREaM\_Prisma\_2016\T2\_SPACE  
TA:3:49 PAT:2 Voxel size:1.0×1.0×1.0 mm Rel. SNR:1.00 :spcR

**Properties**

Prio Recon	Off
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
Wait for user to start	On
Start measurements	single



## Routine

Nr. of slab groups	1
Slabs	1
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	3200 ms
TE	410.0 ms
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HE1-4

## Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	None
Restore magn.	On
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement

## Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Allowed
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Accel. factor 3D	1
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
Slice resolution	80 %
Slice partial Fourier	Off

## Geometry

Nr. of slab groups	1
Slabs	1
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	176
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Special sat.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off
Restore magn.	On

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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	Head > Brain
Coil Select Mode	Off - AutoCoilSelect
B0 Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	123.252312 MHz
Correction factor	1

SPC_DEFT IH	218.333 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000
<b>Physio</b>	
1st Signal/Mode	None
Trigger delay	0 ms
Magn. preparation	None
Dark blood	Off
Resp. control	Off
<b>Inline</b>	
Inline Composing	Off
Distortion correction	Off
<b>Sequence</b>	
Introduction	On
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Bandwidth	751 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	3.42 ms
Adiabatic-mode	Off
Turbo factor	282
Echo train duration	896 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms
Organ under exam.	Standard
Tissue T1	940 ms
Tissue T2	100 ms

**BOLD**

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	Off
Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaM\DREaM\_Prisma\_2016\MPRAGE  
 TA:5:30 PAT:2 Voxel size:1.0×1.0×1.0 mm Rel. SNR:1.00 :tfl

**Properties**

Prio Recon	Off
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
Wait for user to start	On
Start measurements	single

## Routine

Nr. of slab groups	1
Slabs	1
Dist. factor	50 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
Slice oversampling	0.0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2300.0 ms
TE	2.01 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HE1-4

## Contrast

Magn. preparation	Non-sel. IR
TI	900 ms
Flip angle	9 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Measurements	1
Reconstruction	Magnitude
Multiple series	Off

## Resolution

Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	32
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Accel. factor 3D	1
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
Slice resolution	100 %
Slice partial Fourier	Off

## Geometry

Nr. of slab groups	1
Slabs	1
Dist. factor	50 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	240
Multi-slice mode	Single shot
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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	Head > Brain
Coil Select Mode	Default
B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
F >> H	256 mm
A >> P	256 mm
R >> L	240 mm
Frequency 1H	123.252312 MHz
Correction factor	1



SLoopIRns1 1H	392.515 V
Gain	Low
Table position	0 mm
Img. Scale. Cor.	1.000

#### Physio

1st Signal/Mode	None
Magn. preparation	Non-sel. IR
TI	900 ms
Dark blood	Off
Resp. control	Off

#### Inline

Inline Composing	Off
Distortion correction	Off

#### Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off
Averaging mode	Long term
Multi-slice mode	Single shot
Reordering	Linear
Asymmetric echo	Allowed
Bandwidth	240 Hz/Px
Flow comp.	No
Echo spacing	7.2 ms
Turbo factor	240
RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms
Mode	Off

**BOLD**

Subtract	Off
StdDev	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Distortion Corr.	Off
MapIt	None
Save original images	On

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaMDREaM\_Prisma\_2016\EPI\_A>P\_Blip  
 TA:0:32 PAT:2 Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse

**Properties**

Prio Recon	Off
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
Wait for user to start	On
Start measurements	single

## Routine

Nr. of slice groups	1
Slices	75
Dist. factor	0 %
Position	L0.0 A26.9 F1.5 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	8000 ms
TE	70.0 ms
Averages	1
Concatenations	1
Filter	Raw filter
Coil elements	HE1-4

## Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Fat sat. mode	Weak
Averaging mode	Long term
Measurements	1
Delay in TR	0 ms
Reconstruction	Magnitude
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	24
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
Dynamic Field Corr.	Off

## Geometry

Nr. of slice groups	1
Slices	75
Dist. factor	0 %
Position	L0.0 A26.9 F1.5 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Fat sat.
Special sat.	None
Fat sat. mode	Weak
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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
AutoAlign	---
Coil Select Mode	Default
B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 A26.9 F1.5 mm
Rotation	0.00 deg
R >> L	256 mm
A >> P	256 mm
F >> H	150 mm
Frequency 1H	123.252312 MHz
Correction factor	1
AddCSaCSatNS 1H	64.586 V

Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000

**Physio**

1st Signal/Mode	None
Magn. preparation	None
Resp. control	Off

**Inline**

Inline Composing	Off
Distortion correction	Off

**Sequence**

Introduction	Off
Averaging mode	Long term
Multi-slice mode	Interleaved
Bandwidth	1698 Hz/Px
Optimization	None
Free echo spacing	Off
Echo spacing	0.67 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast
Excitation	Standard
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms

**BOLD**

Delay in TR	0 ms
Diffusion mode	MDDW
Diff. weightings	1
b-value	0 s/mm <sup>2</sup>
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
FA maps	Off
Mosaic	Off
Tensor	Off
Distortion Corr.	Off
b-Value >=	0 s/mm <sup>2</sup>
Exponential ADC Maps	Off
Invert Gray Scale	Off
Calculated Image	Off

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaMDREaM\_Prisma\_2016\EPI\_P>A\_Blip  
TA:0:32 PAT:2 Voxel size:2.0×2.0×2.0 mm Rel. SNR:1.00 :epse

**Properties**

Prio Recon	Off
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
Wait for user to start	Off
Start measurements	single

## Routine

Nr. of slice groups	1
Slices	75
Dist. factor	0 %
Position	L0.0 A26.9 F1.5 mm
Orientation	Transversal
Phase enc. dir.	P >> A
AutoAlign	---
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	8000 ms
TE	70.0 ms
Averages	1
Concatenations	1
Filter	Raw filter
Coil elements	HE1-4

## Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Fat sat. mode	Weak
Averaging mode	Long term
Measurements	1
Delay in TR	0 ms
Reconstruction	Magnitude
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	24
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
Dynamic Field Corr.	Off

## Geometry

Nr. of slice groups	1
Slices	75
Dist. factor	0 %
Position	L0.0 A26.9 F1.5 mm
Phase enc. dir.	P >> A
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Fat sat.
Special sat.	None
Fat sat. mode	Weak
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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
AutoAlign	---
Coil Select Mode	Default
B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 A26.9 F1.5 mm
Rotation	180.00 deg
R >> L	256 mm
A >> P	256 mm
F >> H	150 mm
Frequency 1H	123.252312 MHz
Correction factor	1
AddCSaCSatNS 1H	64.586 V

Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000

**Physio**

1st Signal/Mode	None
Magn. preparation	None
Resp. control	Off

**Inline**

Inline Composing	Off
Distortion correction	Off

**Sequence**

Introduction	Off
Averaging mode	Long term
Multi-slice mode	Interleaved
Bandwidth	1698 Hz/Px
Optimization	None
Free echo spacing	Off
Echo spacing	0.67 ms
EPI factor	128
RF pulse type	Normal
Gradient mode	Fast
Excitation	Standard
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms

**BOLD**

Delay in TR	0 ms
Diffusion mode	MDDW
Diff. weightings	1
b-value	0 s/mm <sup>2</sup>
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
FA maps	Off
Mosaic	Off
Tensor	Off
Distortion Corr.	Off
b-Value >=	0 s/mm <sup>2</sup>
Exponential ADC Maps	Off
Invert Gray Scale	Off
Calculated Image	Off

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaMDREaM\_Prisma\_2016\DTI\_64DIR\_9B0  
 TA:10:08 PAT:2 Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse

**Properties**

Prio Recon	Off
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
Wait for user to start	Off
Start measurements	single

## Routine

Nr. of slice groups	1
Slices	75
Dist. factor	0 %
Position	L0.0 A26.9 F1.5 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	8000 ms
TE	70.0 ms
Concatenations	1
Filter	Raw filter
Coil elements	HE1-4

## Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Fat sat. mode	Weak
Averaging mode	Long term
Measurements	1
Delay in TR	0 ms
Reconstruction	Magnitude
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	24
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
Dynamic Field Corr.	Off

## Geometry

Nr. of slice groups	1
Slices	75
Dist. factor	0 %
Position	L0.0 A26.9 F1.5 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Fat sat.
Special sat.	None
Fat sat. mode	Weak
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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
AutoAlign	---
Coil Select Mode	Default
B0 Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 A26.9 F1.5 mm
Rotation	0.00 deg
R >> L	256 mm
A >> P	256 mm
F >> H	150 mm
Frequency 1H	123.252312 MHz
Correction factor	1
AddCSaCSatNS 1H	64.586 V

	Gain	High
	Table position	0 mm
	Img. Scale. Cor.	1.000
<b>Physio</b>		
	1st Signal/Mode	None
	Magn. preparation	None
	Resp. control	Off
<b>Inline</b>		
	Inline Composing	Off
	Distortion correction	Off
<b>Sequence</b>		
	Introduction	Off
	Averaging mode	Long term
	Multi-slice mode	Interleaved
	Bandwidth	1698 Hz/Px
	Optimization	None
	Free echo spacing	Off
	Echo spacing	0.67 ms
	EPI factor	128
	RF pulse type	Normal
	Gradient mode	Fast
	Excitation	Standard
	TX/RX delta frequency	0 Hz
	TX Nucleus	None
	TX delta frequency	0 Hz
	Coil elements	HE1-4
	Acquisition duration	0 ms



**BOLD**

Delay in TR	0 ms
Diffusion mode	MDDW
Diff. weightings	2
b-value 1	0 s/mm <sup>2</sup>
Diff. weighted images	On
Trace weighted images	On
ADC maps	On
FA maps	On
Mosaic	On
Tensor	On
Distortion Corr.	Off
b-Value >=	0 s/mm <sup>2</sup>
Exponential ADC Maps	Off
Invert Gray Scale	Off
Calculated Image	Off

**SIEMENS MAGNETOM Prisma\_fit syngo MR D13D**

\\USER\Ellingson\Todd\_DREaMDREaM\_Prisma\_2016\RS\_fmRI  
 TA:10:08 PAT:2 Voxel size:3.4×3.4×4.0 mm Rel. SNR:1.00 :epfid

**Properties**

Prio Recon	Off
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
Wait for user to start	On
Start measurements	single

## Routine

Nr. of slice groups	1
Slices	39
Dist. factor	12 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	2000 ms
TE	28.0 ms
Averages	1
Concatenations	1
Filter	Raw filter
Coil elements	HE1-4

## Contrast

MTC	Off
Flip angle	77 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Measurements	300
Delay in TR	0 ms
Reconstruction	Magnitude
Multiple series	Off

## Resolution

Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Reference scan mode	Separate
Distortion Corr.	Off
Hamming	Off
Prescan Normalize	Off
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off

## Geometry

Nr. of slice groups	1
Slices	39
Dist. factor	12 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Ascending
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Fat sat.
Special sat.	None
Special sat.	None
Set-n-Go Protocol	Off
Table position	P
Inline Composing	Off

## System

Body	Off
HE1	On
HE3	On
NE1	Off
HE2	On
HE4	On
NE2	Off
SP5	Off
SP6	Off
SP7	Off
SP8	Off
SP1	Off
SP2	Off
SP3	Off
SP4	Off
Position mode	L-P-H
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
AutoAlign	Head > Brain
Coil Select Mode	Default
B0 Shim mode	Advanced
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	220 mm
A >> P	220 mm
F >> H	175 mm
Frequency 1H	123.252312 MHz
Correction factor	1
SincRFPulse 1H	227.603 V

Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000

**Physio**

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

**Inline**

Inline Composing	Off
Distortion correction	Off

**Sequence**

Introduction	On
Averaging mode	Long term
Multi-slice mode	Interleaved
Bandwidth	3004 Hz/Px
Free echo spacing	Off
Echo spacing	0.49 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast
Excitation	Standard
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HE1-4
Acquisition duration	0 ms

**BOLD**

Motion correction	Off
Spatial filter	Off
Delay in TR	0 ms
GBP	Off
PBP	Off
TTP	Off
Original images	On
relCBV	Off
relCBF	Off
relMTT	Off
Distortion Corr.	Off