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\SIEMENS DEVELOPER

SIEMENS Local Team

Tina

MP2RAGE

[ep2d\\_bold\\_tra\\_p3\\_s2](#)  
[MPRAGE\\_750micron](#)

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TA: 1:05 min Coil Selection: Auto Voxel Size: 1.1x1.1x1.1 mm<sup>3</sup> Acc:: 8 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	On
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	58
Distance Factor	100 %
Position	L0.0 A8.7 F9.9 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	192 mm
FOV Phase	100.0 %
Slice Thickness	1.1 mm
TR	11970.0 ms
TE	26.00 ms
Averages	1
Concatenations	1
AutoAlign	---

**Contrast - Common**

TR	11970.0 ms
TE	26.00 ms
MTC	Off
Flip Angle	50 deg
Fat-Water Contrast	Fat Saturation
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	2
Delay in TR	8848.00 ms

**Resolution - Common**

FOV Read	192 mm
FOV Phase	100.0 %
Slice Thickness	1.1 mm
Base Resolution	174

**Resolution - Common**

Phase Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration Mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	4
Reference Lines PE	128
SMS Factor	2
Phase Partial Fourier	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	Off
Normalize	Off

**Geometry - Common**

Slice Group	1
Slices	58
Distance Factor	100 %
Position	L0.0 A8.7 F9.9 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	192 mm
FOV Phase	100.0 %
Slice Thickness	1.1 mm
TR	11970.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slice Group	1
Position	L0.0 A8.7 F9.9 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A8.7 F9.9
R	0.0 mm
A	8.7 mm
F	9.9 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

**Geometry - Saturation**

Special Saturation	None
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**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Brain
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.0 A8.7 F9.9 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	192 mm
R >> L	192 mm
F >> H	127 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Standard

**System - Tx/Rx**

Frequency 1H	297.117802 MHz
! Ref. Amplitude 1H	500.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	11970.0 ms
Log Signals	Off
Concatenations	1

**BOLD**

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
Measurements	2
Delay in TR	8848.00 ms

**Sequence - Part 1**

Sequence Name	epfid
Excitation	Standard
RF Pulse Type	Normal
Gradient Mode	Fast*
Bandwidth	1596 Hz/Px
Echo Spacing	0.79 ms
Free Echo Spacing	Off
EPI Factor	174

**Sequence - Part 2**

Introduction	Off
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**Sequence - Assistant**

SAR Assistant	Off
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**BOLD**

GLM Statistics	Off
Ignore Meas. at Start	0
Ignore After Transition	0
Model Transition States	On

## \SIEMENS DEVELOPER\SIEMENS Local Team\Tina\MP2RAGE\MPRAGE\_750micron

TA: 13:30 min Coil Selection: Manual Voxel Size: 0.8x0.8x0.8 mm<sup>3</sup> Acc:: None Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Resolution - Common**

FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	0.75 mm
Base Resolution	320
Phase Resolution	100 %
Slice Resolution	100 %
Interpolation	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	R2.5 A30.3 F40.7 mm
Orientation	S > T-3.4 > C-1.0
Phase Encoding Dir.	A >> P
Slices per Slab	224
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	0.75 mm
TR	2530.0 ms
TE	1.65 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain
Coil Elements	AC

**Resolution - Acceleration**

Acceleration Mode	None
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Off
Elliptical Scanning	Off

**Contrast - Common**

TR	2530.0 ms
TE	1.65 ms
Magn. Preparation	Non-sel. IR
TI	1100 ms
Flip Angle	7 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Reconstruction	Magnitude

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	R2.5 A30.3 F40.7 mm
Orientation	S > T-3.4 > C-1.0
Phase Encoding Dir.	A >> P
Slices per Slab	224
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	0.75 mm
TR	2530.0 ms
Multi-Slice Mode	Single Shot
Series	Interleaved
Concatenations	1

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

**Geometry - AutoAlign**

Slab Group	1
Position	R2.5 A30.3 F40.7 mm
Orientation	S > T-3.4 > C-1.0
Phase Encoding Dir.	A >> P
AutoAlign	Head > Brain
Initial Position	R0.6 A8.7 F24.4
R	0.6 mm
A	8.7 mm
F	24.4 mm

**Geometry - AutoAlign**

Initial Orientation	Sagittal
Initial Rotation	-22.09 deg

**Geometry - Navigator****Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H

**System - Miscellaneous**

Coil Selection	Manual
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Sum of Squares
Matrix Optimization	Off

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

! Position	L1.5 A24.2 F48.2 mm
! Orientation	S > T-3.4 > C-1.0
! Rotation	-7.79 deg
! A >> P	225 mm
! F >> H	225 mm
! R >> L	168 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Non-sel.

**System - Tx/Rx**

Frequency 1H	297.117802 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Correction Factor	1.00
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	2530.0 ms
Concatenations	1

**Physio - Cardiac**

Fat-Water Contrast	Standard
Magn. Preparation	Non-sel. IR
TI	1100 ms
Dark Blood	Off
FOV Read	240 mm
FOV Phase	100.0 %
Phase Resolution	100 %

**Physio - PACE**

Resp. Control	Off
Concatenations	1

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing****Inline - MapIt**

MapIt	None
Flip Angle	7 deg
Measurements	1
Contrasts	1
TE	1.65 ms
TR	2530.0 ms
Save Original Images	On

**Sequence - Part 1**

Sequence Name	tfl
Dimension	3D
Excitation	Non-sel.
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Reordering	Linear
Bandwidth	1200 Hz/Px
Echo Spacing	4.38 ms
Asymmetric Echo	Off
Turbo Factor	224

**Sequence - Part 2**

Introduction	Off
RF Spoiling	On
Incr. Gradient Spoiling	On

**Sequence - Assistant**

SAR Assistant	Off
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