

## \\USER NEW\BNC\QSM\NEW\gre\_1mmiso\_5echoes

TA: 8:01 min Coil Selection: Auto Voxel Size: 1.0×1.0×1.0 mm³ Acc.: 2 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
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	A >> P
Slices per Slab	144
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FoV Read	256 mm
FoV Phase	100.0 %
Slice Thickness	1.0 mm
TR	33.0 ms
TE 1	5.00 ms
TE 2	11.00 ms
TE 3	17.00 ms
TE 4	23.00 ms
TE 5	29.00 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain

**Contrast - Common**

TR	33.0 ms
TE 1	5.00 ms
TE 2	11.00 ms
TE 3	17.00 ms
TE 4	23.00 ms
TE 5	29.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle	15 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	5
SWI	Off
Reconstruction	Magn./Phase

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Resolution - Common**

FoV Read	256 mm
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**Resolution - Common**

FoV Phase	100.0 %
Slice Thickness	1.0 mm
Base Resolution	256
Phase Resolution	69 %
Slice Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	1
Advanced Reconstruction	Off
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Off
Elliptical Scanning	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	On
Distortion Correction	3D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	A >> P
Slices per Slab	144
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FoV Read	256 mm
FoV Phase	100.0 %
Slice Thickness	1.0 mm
TR	33.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	A >> P
AutoAlign	Head > Brain
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

**Geometry - Saturation**

Saturation Mode	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

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

**System - Miscellaneous**

Coil Selection	ACS All but spine
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	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	256 mm
R >> L	256 mm
F >> H	144 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Non-sel.
LR Balancing	Off

**System - Tx/Rx**

Frequency 1H	123.262260 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	33.0 ms
Segments	1
Concatenations	1

**Physio - Cardiac**

Tagging	None
Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FoV Read	256 mm
FoV Phase	100.0 %
Phase Resolution	69 %
Dynamic Mode	Standard

**Physio - PACE**

Resp. Control	Off
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**Physio - PACE**

Concatenations	1
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**Inline - Liver**

Liver Registration	Off
Save Original Images	On

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - Cardiac**

Magn. Preparation	None
Save Original Images	On
Contrasts	5
TE 1	5.00 ms
TE 2	11.00 ms
TE 3	17.00 ms
TE 4	23.00 ms
TE 5	29.00 ms
TR	33.0 ms

**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 - Soft Tissue**

Wash-in	Off
Wash-out	Off
TTP	Off
PEI	Off
MIP Time	Off
Measurements	1

**Inline - Composing**

Inline Composing	Off
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**Inline - MapIt**

MapIt	None
Flip Angle	15 deg
Measurements	1
Contrasts	5
TE 1	5.00 ms
TE 2	11.00 ms
TE 3	17.00 ms
TE 4	23.00 ms
TE 5	29.00 ms
TR	33.0 ms
Save Original Images	On

**Sequence - Part 1**

Sequence Name	fl
Dimension	3D
Excitation	Non-sel.
RF Pulse Type	Normal

**Sequence - Part 1**

Readout Mode	Bipolar
Gradient Mode	Fast
Flow Compensation 1	None
Flow Compensation 2	None
Flow Compensation 3	None
Flow Compensation 4	None
Flow Compensation 5	None
Bandwidth 1	240 Hz/Px
Bandwidth 2	240 Hz/Px
Bandwidth 3	240 Hz/Px
Bandwidth 4	240 Hz/Px
Bandwidth 5	240 Hz/Px
Asymmetric Echo	Off
Segments	1

**Sequence - Part 2**

Introduction	On
RF Spoiling	On
Acoustic noise reduction	Off

**Sequence - Assistant**

SAR Assistant	Off
Allowed Delay	0 s