\\USER\FIL\ROUTINE\32CH_STRUCT_MULTIPAR\al_B1mapping_v2b

TA: 3:00 PAT: 4 Voxel size: 4.0×4.0×4.0 mm Rel. SNR: 1.00 USER: al_B1mapping_v2b

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

Slab group 1	
Slabs	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	48
FoV read	256 mm
FoV phase	75.0 %
Slice thickness	4.0 mm
TR 1	500.00 ms
TR 2	500.00 ms
TE 1	37.06 ms
TE 2	18.53 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

Flip angle	90.0 deg
Fat suppr.	Fat sat.
Reconstruction	Magnitude
Measurements	11
Pause after meas. 1	0.000 s
Pause after meas. 2	0.000 s
Pause after meas. 3	0.000 s
Pause after meas. 4	0.000 s
Pause after meas. 5	0.000 s
Pause after meas. 6	0.000 s
Pause after meas. 7	0.000 s
Pause after meas. 8	0.000 s
Pause after meas. 9	0.000 s
Pause after meas. 10	0.000 s

Resolution

Base resolution	64
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	48
Accel. factor 3D	2
Ref. lines 3D	48
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Separate
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

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
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	Isocenter
Orientation	Transversal
Rotation	90.00 deg
A >> P	256 mm
R >> L	192 mm
F >> H	192 mm

FMRI

Sequence

Dimension	3D
Contrasts	2
Bandwidth	2298 Hz/Px
Eddy Current Delay	800 [us]
Refoc. Corr	6.0 [%]
Crush. Ampl.	8 [mT/m*ms]
Mixing time	31200 [us]
Max refoc. angle	230 [deg]
Dec refoc. angle	10 [deg]
Flip angle for ref scans	180 [deg]
No Ref averages	1
Dur per 5 degrees	140 [us]
BWT SE/STE factor	6 [us]
No dummy scans	0
RF spoil incr.	0.0 [deg]
Crushers permutation	On
Optimized RF duration	On

\\USER\FIL\ROUTINE\32CH_STRUCT_MULTIPAR\gre_field_mapping_1acq_rl

TA: 2:14 Voxel size: 3.0×3.0×2.0 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	64
Dist. factor	50 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	1020 ms
TE 1	10.00 ms
TE 2	12.46 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	90 deg
Fat suppr.	None
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

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	Descending
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
Save uncombined	Off
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	Isocenter
Orientation	Transversal
Rotation	90.00 deg
A >> P	192 mm
R >> L	192 mm
F >> H	191 mm

Sequence

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	260 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

\\USER\FIL\ROUTINE\32CH_STRUCT_MULTIPAR\mt_nw_mtflash3d_v2d

TA: 6:47 PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 USER: nw_mtflash3d_v2d

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

Slab group 1	
Slabs	1
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	93.8 %
Slice thickness	1.00 mm
TR	23.70 ms
TE 1	2.20 ms
TE 2	4.70 ms
TE 3	7.20 ms
TE 4	9.70 ms
TE 5	12.20 ms
TE 6	14.70 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	On
Flip angle	6 deg
Reconstruction	Magn./Phase

Resolution

Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	6/8
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	18
Accel. factor 3D	1
Matrix Coil Mode	CP
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

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
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	Isocenter
Orientation	Sagittal
Rotation	0.00 deg
F >> H	256 mm
A >> P	240 mm
R >> L	176 mm

Sequence

Dimension	3D
Contrasts	6
Bandwidth	425 Hz/Px
RF spoiling	On
MT saturation mode	Gaussian off-resonant
MT repetition factor	1
Balanced MT saturation	Off
FA Gaussian	220 [deg]
Duration Gaussian	4000 [us]
Off-resonance Gaussian	2000 [Hz]
RF spoil incr.	50.0 [deg]
RF excitation	Rectangular (non-sel.)
GRAPPA+RefScans	On
Spoiler amplitude	20.0 [mT/m]
Dur. Prew. Ramp	150 [us]
Dur. Prew. Flat	600 [us]
Dur. RO Ramp	60 [us]
Dur. Spoil. Flat	1000 [us]

\\USER\FIL\ROUTINE\32CH_STRUCT_MULTIPAR\pd_nw_mtflash3d_v2d

TA: 6:47 PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 USER: nw_mtflash3d_v2d

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

Slab group 1	
Slabs	1
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	93.8 %
Slice thickness	1.00 mm
TR	23.70 ms
TE 1	2.20 ms
TE 2	4.70 ms
TE 3	7.20 ms
TE 4	9.70 ms
TE 5	12.20 ms
TE 6	14.70 ms
TE 7	17.20 ms
TE 8	19.70 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	6 deg
Reconstruction	Magn./Phase

Resolution

Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	6/8
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	18
Accel. factor 3D	1
Matrix Coil Mode	CP
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

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
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	Isocenter
Orientation	Sagittal
Rotation	0.00 deg
F >> H	256 mm
A >> P	240 mm
R >> L	176 mm

Sequence

Dimension	3D
Contrasts	8
Bandwidth	425 Hz/Px
RF spoiling	On
MT saturation mode	Gaussian off-resonant
MT repetition factor	1
Balanced MT saturation	Off
FA Gaussian	220 [deg]
Duration Gaussian	4000 [us]
Off-resonance Gaussian	2000 [Hz]
RF spoil incr.	50.0 [deg]
RF excitation	Rectangular (non-sel.)
GRAPPA+RefScans	On
Spoiler amplitude	20.0 [mT/m]
Dur. Prew. Ramp	150 [us]
Dur. Prew. Flat	600 [us]
Dur. RO Ramp	60 [us]
Dur. Spoil. Flat	1000 [us]

\\USER\FIL\ROUTINE\32CH_STRUCT_MULTIPAR\t1_nw_mtflash3d_v2d

TA: 5:21 PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 USER: nw_mtflash3d_v2d

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

Slab group 1	
Slabs	1
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	93.8 %
Slice thickness	1.00 mm
TR	18.70 ms
TE 1	2.20 ms
TE 2	4.70 ms
TE 3	7.20 ms
TE 4	9.70 ms
TE 5	12.20 ms
TE 6	14.70 ms
TE 7	0.00 ms
TE 8	0.00 ms
TE 9	0.00 ms
TE 10	0.00 ms
TE 11	0.00 ms
TE 12	0.00 ms
TE 13	0.00 ms
TE 14	0.00 ms
TE 15	0.00 ms
TE 16	0.00 ms
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	20 deg
Reconstruction	Magn./Phase

Resolution

Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	6/8
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	18
Accel. factor 3D	1
Matrix Coil Mode	CP
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

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
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	Isocenter
Orientation	Sagittal
Rotation	0.00 deg
F >> H	256 mm
A >> P	240 mm
R >> L	176 mm

Sequence

Dimension	3D
Contrasts	6
Bandwidth	425 Hz/Px
RF spoiling	On
MT saturation mode	Gaussian off-resonant
MT repetition factor	1
Balanced MT saturation	Off
FA Gaussian	220 [deg]
Duration Gaussian	4000 [us]
Off-resonance Gaussian	2000 [Hz]
RF spoil incr.	50.0 [deg]
RF excitation	Rectangular (non-sel.)
GRAPPA+RefScans	On
Spoiler amplitude	20.0 [mT/m]
Dur. Prew. Ramp	150 [us]
Dur. Prew. Flat	600 [us]
Dur. RO Ramp	60 [us]
Dur. Spoil. Flat	1000 [us]