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\\UNIVIE\THOMAS\Thomas_MRS_study\Thomas_MRS_study_longer_exc\localizer

TA: 0:38 PM: REF Voxel size: 0.5×0.5×7.0 mmPAT: Off Rel. SNR: 1.00 : fl

Properties

Prio recon	On
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	3
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	7.0 mm
TR	8.6 ms
TE	3.69 ms
Averages	2
Concatenations	9
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast - Common

TR	8.6 ms
TE	3.69 ms
TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	2
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	250 mm
FoV phase	100.0 %
Slice thickness	7.0 mm
Base resolution	256
Phase resolution	91 %
Phase partial Fourier	Off
Interpolation	On

Resolution - iPAT

PAT mode	None
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Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

Slice group	1
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	3
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	7.0 mm
TR	8.6 ms
Multi-slice mode	Sequential
Series	Interleaved
Concatenations	9

Geometry - AutoAlign

Slice group	1
Slice group	2
Slice group	3
AutoAlign	---
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Initial Position	Isocenter
L	0.0 mm

Geometry - AutoAlign

P	0.0 mm
H	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None
Water suppr.	None
Special sat.	None

System - Miscellaneous

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
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Off - AutoCoilSelect

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	8.6 ms
Concatenations	9
Segments	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	250 mm
FoV phase	100.0 %

Physio - Cardiac

Phase resolution	91 %
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Physio - PACE

Resp. control	Off
Concatenations	9

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Soft Tissue

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Measurements	1

Inline - Composing

Distortion Corr.	Off
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Sequence - Part 1

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Flow comp.	No
Multi-slice mode	Sequential
Bandwidth	320 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	None
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

Sequence - Assistant

Mode	Off
Allowed delay	0 s

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TA: 0:14 PM: REF Voxel size: 1.6×1.6×1.6 mmPAT: 3 Rel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 P20.0 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	128
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	HEA;HEP

Contrast - Common

TR	3.15 ms
TE	1.37 ms
Flip angle	8 deg

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1

Resolution - Common

FoV read	260 mm
FoV phase	100.0 %
Slice thickness	1.6 mm
Base resolution	160
Phase resolution	100 %
Slice resolution	69 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
Trajectory	Cartesian

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	24
Accel. factor 3D	1

Resolution - iPAT

Reference scan mode	Integrated
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Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 P20.0 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	128
FoV read	260 mm
FoV phase	100.0 %
Slice thickness	1.6 mm
TR	3.15 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 P20.0 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

System - Miscellaneous

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
Save uncombined	Off
Matrix Optimization	Off
Coil Select Mode	Off - AutoCoilSelect

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	Off

System - Adjustments

Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - PACE

Resp. control	Off
Concatenations	1

Inline - Common

Flip angle	8 deg
Measurements	1
Time to center	6.2 s

Inline - Inline

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Distortion Corr.	Off
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Sequence - Part 1

Introduction	On
Dimension	3D
Asymmetric echo	Weak
Contrasts	1
Multi-slice mode	Sequential
Bandwidth	540 Hz/Px

Sequence - Part 2

RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

Sequence - Assistant

Mode	Off
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.8iso

TA: 6:35 PM: REF Voxel size: 0.8x0.8x0.8 mmPAT: 2 Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Dist. factor	50 %
Position	L0.1 P19.0 H6.5 mm
Orientation	S > T-2.8 > C-0.7
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
Slice oversampling	15.4 %
Slices per slab	208
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	2300.0 ms
TE	2.43 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

Contrast - Common

TR	2300.0 ms
TE	2.43 ms
Magn. preparation	Non-sel. IR
TI	921 ms
Flip angle	8 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	240 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - Common

Interpolation	Off
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Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
Reference scan mode	Integrated

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Dist. factor	50 %
Position	L0.1 P19.0 H6.5 mm
Orientation	S > T-2.8 > C-0.7
Phase enc. dir.	A >> P
Slice oversampling	15.4 %
Slices per slab	208
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	2300.0 ms
Multi-slice mode	Single shot
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slab group	1
AutoAlign	Head > Brain
Position	L0.1 P19.0 H6.5 mm
Orientation	S > T-2.8 > C-0.7
Phase enc. dir.	A >> P
Initial Position	R1.0 A4.7 F12.0
R	1.0 mm
A	4.7 mm
F	12.0 mm
Initial Rotation	0.01 deg
Initial Orientation	S > C
S > C	1.5
> T	-1.2

Geometry - Navigator

System - Miscellaneous

Positioning mode	REF
Table position	H

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	Head > Brain
Coil Select Mode	Off - AutoCoilSelect

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	2300.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	Non-sel. IR
TI	921 ms
Fat suppr.	None
Dark blood	Off
FoV read	240 mm
FoV phase	100.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
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Inline - MIP

MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Distortion Corr.	Off
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Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	7.5 ms
Bandwidth	200 Hz/Px

Sequence - Part 2

RF pulse type	Normal
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	240

Sequence - Assistant

Mode	Off
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TA: 6.1 s PM: REF Vol: 34 ×22 ×22 mmRel. SNR: 1.00 : fastmp

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	2000 ms
TE	49.20 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	2000 ms
TE	49.20 ms
Tau	5.00 ms
Averages	1
Excite flip angle	90 deg
Refocus flip angle	180 deg
Measurements	1

Resolution - Common

Vector size	256
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Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

Positioning mode	REF
Table position	H

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	2000 ms

Sequence - Common

Delta frequency	0.0 ppm
Phase cycling	None
Bandwidth	100000 Hz
Acquisition duration	2 ms

Sequence - Special

Type of fit	Linear 3-proj
Vol fit factor	100 %
Force spherical fit Vol	Off Force spherical fit Vol
Save plots to database	Off
Refocus pulses	Normal
Excite pulse duration	6400 us
Refocus pulse duration	6400 us
Bar FoV	384 mm
Bar thickness	5.0 mm
Inversion pulse	Off
Multi-echo acquisition	On
Number of echoes	4

\\UNIVIE\THOMAS\Thomas_MRS_study\Thomas_MRS_study_longer_exc\pre_fastestmap_full6_first

TA: 0:12 PM: FIX Vol: 34 x22 x22 mmRel. SNR: 1.00 : fastmp

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	2000 ms
TE	49.20 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	2000 ms
TE	49.20 ms
Tau	5.00 ms
Averages	1
Excite flip angle	90 deg
Refocus flip angle	180 deg
Measurements	1

Resolution - Common

Vector size	256
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Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

Positioning mode	FIX
Table position	H

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	2000 ms

Sequence - Common

Delta frequency	0.0 ppm
Phase cycling	None
Bandwidth	100000 Hz
Acquisition duration	2 ms

Sequence - Special

Type of fit	Full 6-proj
Vol fit factor	100 %
Force spherical fit Vol	Off Force spherical fit Vol
Save plots to database	Off
Refocus pulses	Normal
Excite pulse duration	6400 us
Refocus pulse duration	6400 us
Bar FoV	384 mm
Bar thickness	5.0 mm
Inversion pulse	Off
Multi-echo acquisition	On
Number of echoes	4

\\UNIVIE\THOMAS\Thomas_MRS_study\Thomas_MRS_study_longer_exc\pre_fastestmap_full6_second

TA: 0:12 PM: FIX Vol: 34 ×22 ×22 mmRel. SNR: 1.00 : fastmp

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	2000 ms
TE	49.20 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	2000 ms
TE	49.20 ms
Tau	5.00 ms
Averages	1
Excite flip angle	90 deg
Refocus flip angle	180 deg
Measurements	1

Resolution - Common

Vector size	256
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Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

Positioning mode	FIX
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System - Miscellaneous

Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	2000 ms

Sequence - Common

Delta frequency	0.0 ppm
Phase cycling	None
Bandwidth	100000 Hz
Acquisition duration	2 ms

Sequence - Special

Type of fit	Full 6-proj
Vol fit factor	100 %
Force spherical fit Vol	Off Force spherical fit Vol
Save plots to database	Off
Refocus pulses	Normal
Excite pulse duration	6400 us
Refocus pulse duration	6400 us
Bar FoV	384 mm
Bar thickness	5.0 mm
Inversion pulse	Off

Sequence - Special

Multi-echo acquisition	On
Number of echoes	4

\\UNIVIE\THOMAS\Thomas_MRS_study\Thomas_MRS_study_longer_exc\pre_fastestmap_full6_line
ar6

TA: 0:24 PM: FIX Vol: 34 ×22 ×22 mmRel. SNR: 1.00 : fastmp

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	2000 ms
TE	49.20 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	2000 ms
TE	49.20 ms
Tau	5.00 ms
Averages	1
Excite flip angle	90 deg
Refocus flip angle	180 deg
Measurements	1

Resolution - Common

Vector size	256
-------------	-----

Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

Positioning mode	FIX
------------------	-----

System - Miscellaneous

Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	2000 ms

Sequence - Common

Delta frequency	0.0 ppm
Phase cycling	None
Bandwidth	100000 Hz
Acquisition duration	2 ms

Sequence - Special

Type of fit	Linear 6-proj
Vol fit factor	100 %
Force spherical fit Vol	Off Force spherical fit Vol
Save plots to database	Off
Refocus pulses	Normal
Excite pulse duration	6400 us
Refocus pulse duration	6400 us
Bar FoV	384 mm
Bar thickness	5.0 mm
Inversion pulse	Off

Sequence - Special

Multi-echo acquisition	Off
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TA: 0:49 PM: FIX Vol: 34 x22 x22 mmRel. SNR: 1.00 : slasr

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	5000 ms
TE	31.00 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	5000 ms
TE	31.00 ms
Averages	1
Excite flip angle	50 deg
Refocus flip angle	180 deg
VAPOR	None
VAPOR suppr.	Water suppr.
Water s. BW	135 Hz
Water s. delta pos.	0.00 ppm
Measurements	8

Resolution - Common

Vector size	2048
-------------	------

Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

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
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	5000 ms

Sequence - Common

Introduction	Off
Preparation scans	0
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	2480 us
Refocus pulse duration	3000 us
Spoiler max. amplitude	20.0 mT/m
GOIA grad. depth	0.9
Refocus grad. factor	1.00
Spoiler duration	1300 us
Acq. window shift	200 us
Min. settling delay	300 us

Sequence - Special

Gradient ramp time	140 us
LASER HS pulse R	15
Enable OVS	Off
Weighted averages	Off
Send ref. scans	Off
Inversion pulse	Off
Use GOIA pulses	On
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	Excit. FA
Excit. FA inc.	10 deg
Measurements	8

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TA: 1:09 PM: FIX Vol: 34 ×22 ×22 mmRel. SNR: 1.00 : slasr

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	5000 ms
TE	31.00 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	5000 ms
TE	31.00 ms
Averages	1
Excite flip angle	90 deg
Refocus flip angle	180 deg
VAPOR	Enabled
VAPOR suppr.	Water suppr.
Water s. BW	70 Hz
Water s. delta pos.	0.00 ppm
Measurements	12

Resolution - Common

Vector size	2048
-------------	------

Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

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
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	5000 ms

Sequence - Common

Introduction	Off
Preparation scans	0
Delta frequency	-2.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	2480 us
Refocus pulse duration	3000 us
Spoiler max. amplitude	20.0 mT/m
GOIA grad. depth	0.9
Refocus grad. factor	1.00
OVS slab thickness	80.0 mm
OVS slab pos. offset	5.0 mm
Spoiler duration	1200 us

Sequence - Special

Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	140 us
LASER HS pulse R	20
VAPOR flip angle	50 deg
VAPOR delay 8	22 ms
VAPOR delay 7	74 ms
OVS pulse duration	5120 us
OVS flip angle RO	90 deg
OVS flip angle PH	90 deg
OVS flip angle SL	90 deg
VAPOR delay 6	68 ms
VAPOR delay 5	106 ms
VAPOR delay 4	105 ms
VAPOR delay 3	146 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	On
Weighted averages	Off
Send ref. scans	Off
Inversion pulse	Off
Use GOIA pulses	On
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	WS FA
WS FA inc.	5 deg
Measurements	12

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TA: 1:09 PM: FIX Vol: 34 ×22 ×22 mmRel. SNR: 1.00 : slasr

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	5000 ms
TE	31.00 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	5000 ms
TE	31.00 ms
Averages	1
Excite flip angle	90 deg
Refocus flip angle	180 deg
VAPOR	Enabled
VAPOR suppr.	Water suppr.
Water s. BW	70 Hz
Water s. delta pos.	0.00 ppm
Measurements	12

Resolution - Common

Vector size	2048
-------------	------

Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

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
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	5000 ms

Sequence - Common

Introduction	Off
Preparation scans	0
Delta frequency	-2.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	2480 us
Refocus pulse duration	3000 us
Spoiler max. amplitude	20.0 mT/m
GOIA grad. depth	0.9
Refocus grad. factor	1.00
OVS slab thickness	80.0 mm
OVS slab pos. offset	5.0 mm
Spoiler duration	1300 us

Sequence - Special

Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	140 us
LASER HS pulse R	20
VAPOR flip angle	80 deg
VAPOR delay 8	22 ms
VAPOR delay 7	74 ms
OVS pulse duration	5120 us
OVS flip angle RO	90 deg
OVS flip angle PH	90 deg
OVS flip angle SL	90 deg
VAPOR delay 6	68 ms
VAPOR delay 5	106 ms
VAPOR delay 4	105 ms
VAPOR delay 3	146 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	On
Weighted averages	Off
Send ref. scans	Off
Inversion pulse	Off
Use GOIA pulses	On
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	WS FA
WS FA inc.	1 deg
Measurements	12

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TA: 1:29 PM: FIX Vol: 34 x22 x22 mmRel. SNR: 1.00 : slasr

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	5000 ms
TE	31.00 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	5000 ms
TE	31.00 ms
Averages	1
Excite flip angle	80 deg
Refocus flip angle	180 deg
VAPOR	Enabled
VAPOR suppr.	Water suppr.
Water s. BW	70 Hz
Water s. delta pos.	0.00 ppm
Measurements	16

Resolution - Common

Vector size	2048
-------------	------

Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

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
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	5000 ms

Sequence - Common

Introduction	Off
Preparation scans	0
Delta frequency	-2.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	2480 us
Refocus pulse duration	3000 us
Spoiler max. amplitude	20.0 mT/m
GOIA grad. depth	0.9
Refocus grad. factor	1.00
OVS slab thickness	80.0 mm
OVS slab pos. offset	5.0 mm
Spoiler duration	1300 us

Sequence - Special

Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	140 us
LASER HS pulse R	20
VAPOR flip angle	113 deg
VAPOR delay 8	22 ms
VAPOR delay 7	74 ms
OVS pulse duration	5120 us
OVS flip angle RO	90 deg
OVS flip angle PH	90 deg
OVS flip angle SL	90 deg
VAPOR delay 6	68 ms
VAPOR delay 5	106 ms
VAPOR delay 4	105 ms
VAPOR delay 3	146 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	On
Weighted averages	Off
Send ref. scans	Off
Inversion pulse	Off
Use GOIA pulses	On
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None

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owatersuppression

TA: 1:09 PM: FIX Vol: 34 x22 x22 mmRel. SNR: 1.00 : slasr

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	5000 ms
TE	31.00 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	5000 ms
TE	31.00 ms
Averages	1
Excite flip angle	80 deg
Refocus flip angle	180 deg
VAPOR	None
VAPOR suppr.	Water suppr.
Water s. BW	70 Hz
Water s. delta pos.	0.00 ppm
Measurements	8

Resolution - Common

Vector size	2048
-------------	------

Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

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
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	5000 ms

Sequence - Common

Introduction	Off
Preparation scans	4
Delta frequency	-2.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	2480 us
Refocus pulse duration	3000 us
Spoiler max. amplitude	20.0 mT/m
GOIA grad. depth	0.9
Refocus grad. factor	1.00
Spoiler duration	1300 us
Acq. window shift	200 us

Sequence - Special

Min. settling delay	300 us
Gradient ramp time	140 us
LASER HS pulse R	20
Enable OVS	Off
Weighted averages	Off
Send ref. scans	Off
Inversion pulse	Off
Use GOIA pulses	On
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None

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A

TA: 8:46 PM: FIX Vol: 34 ×22 ×22 mmRel. SNR: 1.00 : mslsr

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	2000 ms
TE	68.32 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	2000 ms
TE	68.32 ms
Averages	1
Excite flip angle	80 deg
Refocus flip angle	180 deg
VAPOR	Enabled
VAPOR suppr.	Water suppr.
Water s. BW	70 Hz
Water s. delta pos.	0.00 ppm
Measurements	128

Resolution - Common

Vector size	2048
-------------	------

Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

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
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	2000 ms

Sequence - Common

Introduction	Off
Preparation scans	4
Delta frequency	-2.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	2480 us
Refocus pulse duration	3000 us
Spoiler max. amplitude	20.0 mT/m
GOIA grad. depth	0.9
Refocus grad. factor	1.00
OVS slab thickness	80.0 mm
OVS slab pos. offset	5.0 mm

Sequence - Special

Spoiler duration	1100 us
Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	140 us
MEGA flip angle	180 deg
LASER HS pulse R	20
VAPOR flip angle	113 deg
VAPOR delay 8	22 ms
VAPOR delay 7	74 ms
OVS pulse duration	5120 us
OVS flip angle RO	90 deg
OVS flip angle PH	90 deg
OVS flip angle SL	90 deg
VAPOR delay 6	68 ms
VAPOR delay 5	106 ms
VAPOR delay 4	105 ms
VAPOR delay 3	146 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	On
Weighted averages	Off
Send ref. scans	Off
MEGA water suppr.	Off
Inversion pulse	Off
Use GOIA pulses	On
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None
Number of label freqs.	2
Editing pulse freq. [1]	7.50 ppm
Editing pulse freq. [2]	1.90 ppm
Editing pulse BW	60.00 Hz

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A_nowatersuppression

TA: 0:46 PM: FIX Vol: 34 x22 x22 mmRel. SNR: 1.00 : mslsr

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol R >> L	22 mm
Vol F >> H	22 mm
TR	2000 ms
TE	68.32 ms
Averages	1
Filter	None
Coil elements	HEA;HEP

Contrast

TR	2000 ms
TE	68.32 ms
Averages	1
Excite flip angle	80 deg
Refocus flip angle	180 deg
VAPOR	None
VAPOR suppr.	Water suppr.
Water s. BW	70 Hz
Water s. delta pos.	0.00 ppm
Measurements	8

Resolution - Common

Vector size	2048
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Geometry - Common

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	0 deg
Vol R >> L	22 mm
Vol A >> P	34 mm
Vol F >> H	22 mm

Geometry - AutoAlign

AutoAlign	Head > Brain
Initial Position	R0.2 P62.4 F11.3
R	0.2 mm
P	62.4 mm
F	11.3 mm
Initial Rotation	90.00 deg
Initial Orientation	T > C
T > C	-33.0
> S	-1.3

System - Miscellaneous

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
AutoAlign	Head > Brain
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Advanced
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R0.2 P62.4 F11.3 mm
Orientation	T > C-33.0 > S-1.3
Rotation	90.00 deg
R >> L	22 mm
A >> P	34 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	123.247526 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	2000 ms

Sequence - Common

Introduction	Off
Preparation scans	4
Delta frequency	-2.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	2480 us
Refocus pulse duration	3000 us
Spoiler max. amplitude	20.0 mT/m
GOIA grad. depth	0.9
Refocus grad. factor	1.00
Spoiler duration	1100 us
Acq. window shift	200 us

Sequence - Special

Min. settling delay	300 us
Gradient ramp time	140 us
MEGA flip angle	180 deg
LASER HS pulse R	20
Enable OVS	Off
Weighted averages	Off
Send ref. scans	Off
Inversion pulse	Off
Use GOIA pulses	On
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None
Number of label freqs.	2
Editing pulse freq. [1]	7.50 ppm
Editing pulse freq. [2]	1.90 ppm
Editing pulse BW	60.00 Hz