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\\USER

Zanetta

Epilepsy

Human\_02272025

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\\USER\Zanetta\Epilepsy\Human\_02272025\RESEARCH\_DEVELOPMENT\_BAETE

TA: 0.2 s PM: REF Rel. SNR: 1.00 : fid

**Properties**

Prio recon	Off
Load images to viewer	Off
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	On
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

TR	200 ms
TE	0.15 ms
Averages	1
Filter	None
Coil elements	HE2,4;NE2;SP1

**Contrast**

TR	200 ms
TE	0.15 ms
Pulse Duration	0.10 ms
Averages	1
Flip angle	0 deg
Pulse type	Rectangular
Water suppr.	None
Measurements	1

**Resolution - Common**

Prescan Normalize	Off
Vector size	128

**Geometry - AutoAlign**

Initial Position	Isocenter
Phase	0 mm
Read	0 mm
Shift	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
Save uncombined	Off
Save single averages	Off
Coil Select Mode	On - AutoCoilSelect

**System - Adjustments**

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Adjust with body coil	Off
Confirm freq. adjustment	Off

**System - Adjustments**

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 - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 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	200 ms

**Sequence - Common**

Preparation scans	0
Phase cycling	None
Acquisition delay	0.1 ms
Bandwidth	1000 Hz
Acquisition duration	128 ms
Remove oversampling	Off

**Sequence - Nuclei**

TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
NOE type	None
TX Nucleus	None
TX delta frequency	0 Hz
Decoupling type	None
Coil elements	HE2,4;NE2;SP1

\\USER\Zanetta\Epilepsy\Human\_02272025\SCOUT

TA: 0:15 PM: REF Voxel size: 1.1×1.1×5.0 mmPAT: 2 Rel. SNR: 1.00 : h

**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	On
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slice group	1
Slices	5
Dist. factor	0 %
Position	L0.9 P7.7 H33.6 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	2
Slices	5
Dist. factor	0 %
Position	L0.9 P9.1 H33.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	3
Slices	5
Dist. factor	0 %
Position	L0.8 P9.1 H32.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	1000.0 ms
TE	105 ms
Averages	1
Concatenations	15
Filter	Prescan Normalize, Elliptical filter
Coil elements	HE1-4

**Contrast - Common**

TR	1000.0 ms
TE	105 ms
TD	0.0 ms
MTC	Off
Magn. preparation	None
Flip angle	120 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

**Contrast - Dynamic**

Multiple series	Each measurement
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**Resolution - Common**

FoV read	220 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	192
Phase resolution	100 %
Phase partial Fourier	5/8
Interpolation	Off

**Resolution - iPAT**

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	27
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	On

**Geometry - Common**

Slice group	1
Slices	5
Dist. factor	0 %
Position	L0.9 P7.7 H33.6 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice group	2
Slices	5
Dist. factor	0 %
Position	L0.9 P9.1 H33.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	3
Slices	5
Dist. factor	0 %
Position	L0.8 P9.1 H32.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	1000.0 ms
Multi-slice mode	Single shot
Series	Interleaved
Concatenations	15

**Geometry - AutoAlign**

Slice group	1
Position	L0.9 P7.7 H33.6 mm
Orientation	Coronal

**Geometry - AutoAlign**

Phase enc. dir.	R >> L
Slice group	2
Position	L0.9 P9.1 H33.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	3
Position	L0.8 P9.1 H32.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.9 P7.7 H33.6
Phase	0.9 mm
Read	-33.6 mm
Shift	7.7 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Special sat.	None

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

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

**System - Miscellaneous**

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

**System - Adjustments**

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	On
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 - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 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	1000.0 ms
Concatenations	15

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	220 mm
FoV phase	100.0 %
Phase resolution	100 %

**Physio - PACE**

Resp. control	Off
Concatenations	15

**Inline - Common**

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**

Inline Composing	Off
Distortion Corr.	Off

**Sequence - Part 1**

Introduction	Off
Dimension	2D
Contrasts	1
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	6.16 ms
Bandwidth	357 Hz/Px

**Sequence - Part 2**

RF pulse type	Normal
Gradient mode	Fast
Hypercho	On
Turbo factor	192

**Sequence - Assistant**

Mode	Off
Allowed delay	30 s

\\USER\Zanetta\Epilepsy\Human\_02272025\BRAIN MAPPING AX 3D MPR

TA: 5:06 PM: FIX Voxel size: 1.0×1.0×1.0 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	Off
Start measurements	Single measurement

**Routine**

Slab group	1
Slabs	1
Dist. factor	50 %
Position	L1.3 A29.5 H3.3 mm
Orientation	T > C5.7 > S0.7
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	33.3 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2200.0 ms
TE	3.17 ms
Averages	1
Concatenations	1
Filter	Normalize
Coil elements	HE1-4

**Contrast - Common**

TR	2200.0 ms
TE	3.17 ms
Magn. preparation	Slice-sel. IR
TI	900 ms
Flip angle	9 deg
Fat suppr.	None
Water suppr.	None

**Contrast - Dynamic**

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

**Resolution - Common**

FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off

**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	Off
Normalize	On
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Geometry - Common**

Slab group	1
Slabs	1
Dist. factor	50 %
Position	L1.3 A29.5 H3.3 mm
Orientation	T > C5.7 > S0.7
Phase enc. dir.	A >> P
Slice oversampling	33.3 %
Slices per slab	192
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	2200.0 ms
Multi-slice mode	Single shot
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	L1.3 A29.5 H3.3 mm
Orientation	T > C5.7 > S0.7
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L1.3 A29.5 H3.3
Phase	-29.0 mm
Read	-1.4 mm
Shift	6.2 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	5.7
> S	0.7

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

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

**System - Miscellaneous**

Positioning mode	FIX
Table position	H

**System - Miscellaneous**

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

**System - Adjustments**

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

**System - Adjust Volume**

Position	L1.3 A29.5 H3.3 mm
Orientation	T > C5.7 > S0.7
Rotation	0.00 deg
A >> P	256 mm
R >> L	256 mm
F >> H	192 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
Excitation	Slab-sel.

**System - Tx/Rx**

Frequency 1H	123.261991 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	2200.0 ms
Concatenations	1

**Physio - Cardiac**

Magn. preparation	Slice-sel. IR
TI	900 ms
Fat suppr.	None
Dark blood	Off
FoV read	256 mm
FoV phase	100.0 %
Phase resolution	100 %

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off

**Inline - Common**

Save original images	On
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**Inline - MIP**

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

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	Off

**Inline - MapIt**

Save original images	On
MapIt	None
Flip angle	9 deg
Measurements	1
TR	2200.0 ms
TE	3.17 ms

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Asymmetric echo	Off
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	6.5 ms
Bandwidth	260 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	256

**Sequence - Assistant**

Mode	Off
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\\USER\Zanetta\Epilepsy\Human\_02272025\svs\_edit\_859G\_mPFC\_SAG

TA: 13:12 PM: REF Vol: 27 x27 x27 mmRel. SNR: 1.00 : sv\_s\_ed

**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	R11.7 A73.0 H16.6 mm
Orientation	Sagittal
Rotation	0 deg
Vol F >> H	27 mm
Vol F >> H	27 mm
Vol R >> L	27 mm
TR	2000 ms
TE	68 ms
Averages	196
Filter	None
Coil elements	HE1-4

**Contrast**

TR	2000 ms
TE	68 ms
Averages	196
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	50 Hz

**Resolution - Common**

Prescan Normalize	Off
Vector size	2048

**Geometry - Common**

Position	R11.7 A73.0 H16.6 mm
Orientation	Sagittal
Rotation	0 deg
Vol F >> H	27 mm
Vol A >> P	27 mm
Vol R >> L	27 mm

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	R11.7 A73.0 H16.6
Phase	-73 mm
Read	16.6 mm
Shift	-11.7 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

**System - Miscellaneous**

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T

**System - Miscellaneous**

Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Save single averages	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R11.7 A73.0 H16.6 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	27 mm
F >> H	27 mm
R >> L	27 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 MHz
Correction factor	1.281
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**

Preparation scans	4
Delta frequency	-1.7 ppm
Ref. scan mode	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

**Sequence - Special**

RFA	On
# FreqAdj interval (TRs)	7
Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44.00 Hz
Edit Center Frequency	4.70 ppm

\\USER\Zanetta\Epilepsy\Human\_02272025\svs\_edit\_859G\_mPFC\_SAG\_NOWS

TA: 0:16 PM: REF Vol: 27 ×27 ×27 mmRel. SNR: 1.00 : sv\_s\_ed

**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	R11.7 A73.0 H16.6 mm
Orientation	Sagittal
Rotation	0 deg
Vol F >> H	27 mm
Vol F >> H	27 mm
Vol R >> L	27 mm
TR	2000 ms
TE	68 ms
Averages	2
Filter	None
Coil elements	HE1-4

**Contrast**

TR	2000 ms
TE	68 ms
Averages	2
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	50 Hz

**Resolution - Common**

Prescan Normalize	Off
Vector size	2048

**Geometry - Common**

Position	R11.7 A73.0 H16.6 mm
Orientation	Sagittal
Rotation	0 deg
Vol F >> H	27 mm
Vol A >> P	27 mm
Vol R >> L	27 mm

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	R11.7 A73.0 H16.6
Phase	-73 mm
Read	16.6 mm
Shift	-11.7 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

**System - Miscellaneous**

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T

**System - Miscellaneous**

Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Save single averages	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R11.7 A73.0 H16.6 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	27 mm
F >> H	27 mm
R >> L	27 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 MHz
Correction factor	1.281
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**

Preparation scans	4
Delta frequency	0.0 ppm
Ref. scan mode	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

**Sequence - Special**

RFA	Off
Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44.00 Hz
Edit Center Frequency	4.70 ppm



\\USER\Zanetta\Epilepsy\Human\_02272025\svs\_edit\_859G\_mPFC\_COR

TA: 13:12 PM: REF Vol: 27 ×27 ×27 mmRel. SNR: 1.00 : sv\_s\_ed

**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	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol F >> H	27 mm
Vol A >> P	27 mm
TR	2000 ms
TE	68 ms
Averages	196
Filter	None
Coil elements	HE1-4

**Contrast**

TR	2000 ms
TE	68 ms
Averages	196
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	50 Hz

**Resolution - Common**

Prescan Normalize	Off
Vector size	2048

**Geometry - Common**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol R >> L	27 mm
Vol A >> P	27 mm

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	R11.7 A73.0 H16.6
Phase	-11.7 mm
Read	-16.6 mm
Shift	-73 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**System - Miscellaneous**

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T

**System - Miscellaneous**

Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Save single averages	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	27 mm
F >> H	27 mm
A >> P	27 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 MHz
Correction factor	1.163
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**

Preparation scans	4
Delta frequency	-1.7 ppm
Ref. scan mode	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

**Sequence - Special**

RFA	On
# FreqAdj interval (TRs)	7
Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44.00 Hz
Edit Center Frequency	4.70 ppm

\\USER\Zanetta\Epilepsy\Human\_02272025\svs\_edit\_859G\_mPFC\_COR\_NOWS

TA: 0:16 PM: REF Vol: 27 \*27 \*27 mmRel. SNR: 1.00 : svd\_ed

**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	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol F >> H	27 mm
Vol A >> P	27 mm
TR	2000 ms
TE	68 ms
Averages	2
Filter	None
Coil elements	HE1-4

**Contrast**

TR	2000 ms
TE	68 ms
Averages	2
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	50 Hz

**Resolution - Common**

Prescan Normalize	Off
Vector size	2048

**Geometry - Common**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol R >> L	27 mm
Vol A >> P	27 mm

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	R11.7 A73.0 H16.6
Phase	-11.7 mm
Read	-16.6 mm
Shift	-73 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**System - Miscellaneous**

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T

**System - Miscellaneous**

Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Save single averages	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	27 mm
F >> H	27 mm
A >> P	27 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 MHz
Correction factor	1.163
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**

Preparation scans	4
Delta frequency	0.0 ppm
Ref. scan mode	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

**Sequence - Special**

RFA	Off
Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44.00 Hz
Edit Center Frequency	4.70 ppm

\\USER\Zanetta\Epilepsy\Human\_02272025\svs\_edit\_859G\_mPFC\_Cor\_satband\_withwatersupp

TA: 13:12 PM: REF Vol: 27 ×27 ×27 mmRel. SNR: 1.00 : svs\_ed

**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	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol F >> H	27 mm
Vol A >> P	27 mm
TR	2000 ms
TE	68 ms
Averages	196
Filter	None
Coil elements	HE1-4

**Contrast**

TR	2000 ms
TE	68 ms
Averages	196
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	70 Hz

**Resolution - Common**

Prescan Normalize	Off
Vector size	2048

**Geometry - Common**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol R >> L	27 mm
Vol A >> P	27 mm
Sat. region	1
Thickness	30 mm
Position	L0.0 A103.1 H0.0 mm
Orientation	Coronal
Sat. delta frequ.	0.00 ppm
Sat. region	2
Thickness	40 mm
Position	L0.0 P0.0 F19.7 mm
Orientation	Transversal
Sat. delta frequ.	0.00 ppm

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	R11.7 A73.0 H16.6
Phase	-11.7 mm

**Geometry - AutoAlign**

Read	-16.6 mm
Shift	-73 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**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
Save uncombined	Off
Save single averages	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	27 mm
F >> H	27 mm
A >> P	27 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
--------------	----------

**System - Tx/Rx**

Frequency 1H	123.261991 MHz
Correction factor	1.163
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**

Preparation scans	4
Delta frequency	-1.7 ppm
Ref. scan mode	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms

**Sequence - Common**

Remove oversampling	On
---------------------	----

**Sequence - Special**

RFA	On
# FreqAdj interval (TRs)	7
Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44.00 Hz
Edit Center Frequency	4.70 ppm

\\USER\Zanetta\Epilepsy\Human\_02272025\svs\_edit\_859G\_mPFC\_Cor\_satband\_noWS

TA: 0:16 PM: REF Vol: 27 ×27 ×27 mmRel. SNR: 1.00 : sv\_s\_ed

**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	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol F >> H	27 mm
Vol A >> P	27 mm
TR	2000 ms
TE	68 ms
Averages	2
Filter	None
Coil elements	HE1-4

**Contrast**

TR	2000 ms
TE	68 ms
Averages	2
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	70 Hz

**Resolution - Common**

Prescan Normalize	Off
Vector size	2048

**Geometry - Common**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol R >> L	27 mm
Vol A >> P	27 mm
Sat. region	1
Thickness	30 mm
Position	L0.0 A103.1 H0.0 mm
Orientation	Coronal
Sat. delta frequ.	0.00 ppm
Sat. region	2
Thickness	40 mm
Position	L0.0 P0.0 F19.7 mm
Orientation	Transversal
Sat. delta frequ.	0.00 ppm

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	R11.7 A73.0 H16.6
Phase	-11.7 mm

**Geometry - AutoAlign**

Read	-16.6 mm
Shift	-73 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**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
Save uncombined	Off
Save single averages	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	27 mm
F >> H	27 mm
A >> P	27 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 MHz
Correction factor	1.163
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**

Preparation scans	4
Delta frequency	0.0 ppm
Ref. scan mode	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms

**Sequence - Common**

Remove oversampling	On
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**Sequence - Special**

RFA	Off
Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44.00 Hz
Edit Center Frequency	4.70 ppm

\\USER\Zanetta\Epilepsy\Human\_02272025\svs\_edit\_859G\_mPFC\_Cor\_satband\_RFAOFF

TA: 13:12 PM: REF Vol: 27 ×27 ×27 mmRel. SNR: 1.00 : svs\_ed

**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	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol F >> H	27 mm
Vol A >> P	27 mm
TR	2000 ms
TE	68 ms
Averages	196
Filter	None
Coil elements	HE1-4

**Contrast**

TR	2000 ms
TE	68 ms
Averages	196
Flip angle	90 deg
Water suppr.	Water sat.
Water suppr. BW	70 Hz

**Resolution - Common**

Prescan Normalize	Off
Vector size	2048

**Geometry - Common**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol R >> L	27 mm
Vol A >> P	27 mm
Sat. region	1
Thickness	30 mm
Position	L0.0 A103.1 H0.0 mm
Orientation	Coronal
Sat. delta frequ.	0.00 ppm
Sat. region	2
Thickness	40 mm
Position	L0.0 P0.0 F19.7 mm
Orientation	Transversal
Sat. delta frequ.	0.00 ppm

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	R11.7 A73.0 H16.6
Phase	-11.7 mm

**Geometry - AutoAlign**

Read	-16.6 mm
Shift	-73 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**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
Save uncombined	Off
Save single averages	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	27 mm
F >> H	27 mm
A >> P	27 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 MHz
Correction factor	1.163
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**

Preparation scans	4
Delta frequency	-1.7 ppm
Ref. scan mode	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms

**Sequence - Common**

Remove oversampling	On
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**Sequence - Special**

RFA	Off
Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44.00 Hz
Edit Center Frequency	4.70 ppm



\\USER\Zanetta\Epilepsy\Human\_02272025\svs\_edit\_859G\_mPFC\_Cor\_satband\_RFAOFF\_NOWS

TA: 0:16 PM: REF Vol: 27 ×27 ×27 mmRel. SNR: 1.00 : svs\_ed

**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	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol F >> H	27 mm
Vol A >> P	27 mm
TR	2000 ms
TE	68 ms
Averages	2
Filter	None
Coil elements	HE1-4

**Contrast**

TR	2000 ms
TE	68 ms
Averages	2
Flip angle	90 deg
Water suppr.	Only RF off
Water suppr. BW	70 Hz

**Resolution - Common**

Prescan Normalize	Off
Vector size	2048

**Geometry - Common**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0 deg
Vol F >> H	27 mm
Vol R >> L	27 mm
Vol A >> P	27 mm
Sat. region	1
Thickness	30 mm
Position	L0.0 A103.1 H0.0 mm
Orientation	Coronal
Sat. delta frequ.	0.00 ppm
Sat. region	2
Thickness	40 mm
Position	L0.0 P0.0 F19.7 mm
Orientation	Transversal
Sat. delta frequ.	0.00 ppm

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	R11.7 A73.0 H16.6
Phase	-11.7 mm

**Geometry - AutoAlign**

Read	-16.6 mm
Shift	-73 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

**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
Save uncombined	Off
Save single averages	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R11.7 A73.0 H16.6 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	27 mm
F >> H	27 mm
A >> P	27 mm
Reset	Off

**System - pTx Volumes**

B1 Shim mode	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.261991 MHz
Correction factor	1.163
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**

Preparation scans	4
Delta frequency	0.0 ppm
Ref. scan mode	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms

**Sequence - Common**

Remove oversampling	On
---------------------	----

**Sequence - Special**

RFA	Off
Edit Pulse Frequency	1.90 ppm
Edit Pulse Bandwidth	44.00 Hz
Edit Center Frequency	4.70 ppm