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\\SW\routine\CE\CE\eja_svs_steam_TE5.68ms_water_refer

TA: 0:40 PM: FIX Vol: 20 ×20 ×20 mmRel. SNR: 1.00 : steam

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

Position	L34.4 P28.2 H1.7 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.936047 deg
Vol R >> L	20 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	5000 ms
TE	5.68 ms
Averages	2
Filter	None
Coil elements	A32

Contrast

TR	5000 ms
TE	5.68 ms
TM	75.00 ms
Averages	2
Flip angle	106 deg
VAPOR	Only RF off
VAPOR suppr.	Water suppr.
Water s. BW	135 Hz
Water s. delta pos.	0.00 ppm
Measurements	1

Resolution - Common

Vector size	2048

Geometry - Common

Position	L34.4 P28.2 H1.7 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.936047 deg
Vol R >> L	20 mm
Vol A >> P	20 mm
Vol F >> H	20 mm

Geometry - AutoAlign

AutoAlign	---
Initial Position	L34.4 P28.2 H1.7
L	34.4 mm
P	28.2 mm
H	1.7 mm
Initial Rotation	7.94 deg
Initial Orientation	T > C
T > C	-18.2
> S	-1.7

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	---
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

Position	L34.4 P28.2 H1.7 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.94 deg
A >> P	20 mm
R >> L	20 mm
F >> H	20 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.170868 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	On
Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

Sequence - Special

RF pulse duration	2560 us
Spoiler max. amplitude	20.0 mT/m
Refocus grad. factor	1.00
Spoiler duration	1300 us
Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	210 us
VAPOR flip angle	84 deg

Sequence - Special

VAPOR delay 8	28 ms
VAPOR delay 7	76 ms
VAPOR delay 6	68 ms
VAPOR delay 5	102 ms
VAPOR delay 4	105 ms
VAPOR delay 3	122 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	Off
Resolve averages	Off
Send ref. scans	Off
Inversion pulse	Off
Symmetric RF pulses	Off
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None

\\SW\routine\CE\CE\eja_svs_steam_TE5.68ms

TA: 3:38 PM: FIX Vol: 20 ×20 ×20 mmRel. SNR: 1.00 : steam

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

Position	L34.4 P28.2 H1.7 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.936047 deg
Vol R >> L	20 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	3000 ms
TE	5.68 ms
Averages	64
Filter	None
Coil elements	A32

Contrast

TR	3000 ms
TE	5.68 ms
TM	75.00 ms
Averages	64
Flip angle	106 deg
VAPOR	Enabled
VAPOR suppr.	Water suppr.
Water s. BW	135 Hz
Water s. delta pos.	0.00 ppm
Measurements	1

Resolution - Common

Vector size	2048

Geometry - Common

Position	L34.4 P28.2 H1.7 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.936047 deg
Vol R >> L	20 mm
Vol A >> P	20 mm
Vol F >> H	20 mm

Geometry - AutoAlign

AutoAlign	---
Initial Position	L34.4 P28.2 H1.7
L	34.4 mm
P	28.2 mm
H	1.7 mm
Initial Rotation	7.94 deg
Initial Orientation	T > C
T > C	-18.2
> S	-1.7

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	---
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

Position	L34.4 P28.2 H1.7 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.94 deg
A >> P	20 mm
R >> L	20 mm
F >> H	20 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.170868 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	3000 ms

Sequence - Common

Introduction	On
Preparation scans	4
Delta frequency	-1.7 ppm
Phase cycling	Auto
Bandwidth	2500 Hz
Acquisition duration	819 ms
Remove oversampling	On

Sequence - Special

RF pulse duration	2560 us
Spoiler max. amplitude	20.0 mT/m
Refocus grad. factor	1.00
Spoiler duration	1300 us
Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	210 us
VAPOR flip angle	84 deg

Sequence - Special

VAPOR delay 8	28 ms
VAPOR delay 7	76 ms
VAPOR delay 6	68 ms
VAPOR delay 5	102 ms
VAPOR delay 4	105 ms
VAPOR delay 3	122 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	Off
Resolve averages	Off
Send ref. scans	Off
Inversion pulse	Off
Symmetric RF pulses	Off
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None

\\SW\routine\CE\CE\eja_svs_slaser_WaterReference

TA: 0:27 PM: REF Vol: 20 ×20 ×20 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	Off
Start measurements	Single measurement

Routine

Position	L33.2 A20.4 F17.9 mm
Orientation	Transversal
Rotation	0 deg
Vol R >> L	20 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	3000 ms
TE	144.00 ms
Averages	2
Filter	None
Coil elements	A32

Contrast

TR	3000 ms
TE	144.00 ms
Averages	2
Excite flip angle	90 deg
Refocus flip angle	180 deg
VAPOR	Only RF off
VAPOR suppr.	Water suppr.
Water s. BW	135 Hz
Water s. delta pos.	0.00 ppm
Measurements	1

Resolution - Common

Vector size	2048

Geometry - Common

Position	L33.2 A20.4 F17.9 mm
Orientation	Transversal
Rotation	0 deg
Vol R >> L	20 mm
Vol A >> P	20 mm
Vol F >> H	20 mm

Geometry - AutoAlign

AutoAlign	---
Initial Position	L33.2 A20.4 F17.9
L	33.2 mm
A	20.4 mm
F	17.9 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

System - Miscellaneous

Positioning mode	REF

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	---
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

Position	L33.2 A20.4 F17.9 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	20 mm
R >> L	20 mm
F >> H	20 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.170868 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	243.000 V

Physio - Signal1

1st Signal/Mode	None
TR	3000 ms

Sequence - Common

Introduction	On
Preparation scans	4
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	8960 us
Refocus pulse duration	8960 us
Spoiler max. amplitude	32.0 mT/m
Refocus grad. factor	1.00
Spoiler duration	1000 us
Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	160 us
LASER HS pulse N	2
LASER HS pulse R	5

Sequence - Special

VAPOR flip angle	80 deg
VAPOR delay 8	19 ms
VAPOR delay 7	76 ms
VAPOR delay 6	68 ms
VAPOR delay 5	102 ms
VAPOR delay 4	105 ms
VAPOR delay 3	122 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	Off
Resolve averages	Off
Send ref. scans	Off
Inversion pulse	Off
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None

\\SW\routine\CE\CE\eja_svs_slaser

TA: 6:57 PM: REF Vol: 20 ×20 ×20 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	Off
Start measurements	Single measurement

Routine

Position	L33.2 A20.4 F17.9 mm
Orientation	Transversal
Rotation	0 deg
Vol R >> L	20 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	3000 ms
TE	144.00 ms
Averages	128
Filter	None
Coil elements	A32

Contrast

TR	3000 ms
TE	144.00 ms
Averages	128
Excite flip angle	90 deg
Refocus flip angle	180 deg
VAPOR	Enabled
VAPOR suppr.	Water suppr.
Water s. BW	135 Hz
Water s. delta pos.	0.00 ppm
Measurements	1

Resolution - Common

Vector size	2048

Geometry - Common

Position	L33.2 A20.4 F17.9 mm
Orientation	Transversal
Rotation	0 deg
Vol R >> L	20 mm
Vol A >> P	20 mm
Vol F >> H	20 mm

Geometry - AutoAlign

AutoAlign	---
Initial Position	L33.2 A20.4 F17.9
L	33.2 mm
A	20.4 mm
F	17.9 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

System - Miscellaneous

Positioning mode	REF

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	---
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

Position	L33.2 A20.4 F17.9 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	20 mm
R >> L	20 mm
F >> H	20 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.170868 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	243.000 V

Physio - Signal1

1st Signal/Mode	None
TR	3000 ms

Sequence - Common

Introduction	On
Preparation scans	4
Delta frequency	-1.7 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excite pulse duration	8960 us
Refocus pulse duration	8960 us
Spoiler max. amplitude	32.0 mT/m
Refocus grad. factor	1.00
OVS slab thickness	80.0 mm
OVS slab pos. offset	7.0 mm
Spoiler duration	1000 us
Acq. window shift	200 us
Min. settling delay	300 us
Gradient ramp time	160 us

Sequence - Special

LASER HS pulse N	2
LASER HS pulse R	5
VAPOR flip angle	80 deg
VAPOR delay 8	19 ms
VAPOR delay 7	76 ms
OVS pulse duration	5120 us
OVS flip angle RO	90 deg
OVS flip angle PH	0 deg
OVS flip angle SL	0 deg
VAPOR delay 6	68 ms
VAPOR delay 5	102 ms
VAPOR delay 4	105 ms
VAPOR delay 3	122 ms
VAPOR delay 2	100 ms
VAPOR delay 1	150 ms
Enable OVS	On
Resolve averages	Off
Send ref. scans	Off
Inversion pulse	Off
Invert SS grad. pol.	Off
Shift RO frequency	Off
Debug loop type	None

\\SW\routine\CE\CE\svs_slaser_dkd_water_reference_TE28

TA: 0:16 PM: FIX Vol: 20 ×20 ×20 mmRel. SNR: 1.00 : sead

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

Position	L25.5 A20.1 H26.1 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.936047 deg
Vol R >> L	20 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	4000 ms
TE 1	8 ms
TE 2	11 ms
TE 3	9 ms
Averages	2
Filter	None
Coil elements	A32

Contrast

TR	4000 ms
TE 1	8 ms
TE 2	11 ms
TE 3	9 ms
Total TE	28 ms
Averages	2
Excitation Flip angle	120 deg
Refocusing Flip angle	180 deg
VAPOR WS	Only RF off

Resolution - Common

Prescan Normalize	Off
Vector size	2048

Geometry - Common

Position	L25.5 A20.1 H26.1 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.936047 deg
Vol R >> L	20 mm
Vol A >> P	20 mm
Vol F >> H	20 mm

Geometry - AutoAlign

AutoAlign	---
Initial Position	L25.5 A20.1 H26.1
L	25.5 mm
A	20.1 mm
H	26.1 mm
Initial Rotation	7.94 deg
Initial Orientation	T > C
T > C	-18.2

Geometry - AutoAlign

> S	-1.7

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
Save single averages	On
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	On
Only after freq. change	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L25.5 A20.1 H26.1 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.94 deg
A >> P	20 mm
R >> L	20 mm
F >> H	20 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.170868 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	4000 ms

Sequence - Common

Preparation scans	2
Delta frequency	0.0 ppm
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excitation duration	2000 us
Refocusing duration	4000 us
GOIA/FOCI	Off
Inversion pulse	Off
FA AutoCalib	Off
Advanced User	Off

Sequence - Special

OVS module 1	On
OVS module 2	On
OVS module 3	On
OVS module 4	On
OVS slab X	120 mm
OVS slab Y up	120 mm
OVS slab Y down	120 mm
OVS slab Z	120 mm
OVS gap	7 mm
OVS delay 7	88 ms
OVS delay 8	21 ms
Calibration Type	None
Debug Type	None
Gradient Max. Amplitude	42 mT/m
Ramp time	210 us

\\SW\routine\CE\CE\svs_slaser_dkd_TE28

TA: 4:24 PM: FIX Vol: 20 ×20 ×20 mmRel. SNR: 1.00 : sead

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

Position	L37.8 A18.0 F5.9 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.936047 deg
Vol R >> L	20 mm
Vol R >> L	20 mm
Vol F >> H	20 mm
TR	4000 ms
TE 1	8 ms
TE 2	11 ms
TE 3	9 ms
Averages	64
Filter	None
Coil elements	A32

Contrast

TR	4000 ms
TE 1	8 ms
TE 2	11 ms
TE 3	9 ms
Total TE	28 ms
Averages	64
Excitation Flip angle	120 deg
Refocusing Flip angle	180 deg
VAPOR WS	Enabled
Water suppr. BW	135 Hz
VAPOR Flip angle	102 deg

Resolution - Common

Prescan Normalize	Off
Vector size	2048

Geometry - Common

Position	L37.8 A18.0 F5.9 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.936047 deg
Vol R >> L	20 mm
Vol A >> P	20 mm
Vol F >> H	20 mm

Geometry - AutoAlign

AutoAlign	---
Initial Position	L37.8 A18.0 F5.9
L	37.8 mm
A	18 mm
F	5.9 mm
Initial Rotation	7.94 deg

Geometry - AutoAlign

Initial Orientation	T > C
T > C	-18.2
> S	-1.7

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
Save single averages	On
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	On
Only after freq. change	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L37.8 A18.0 F5.9 mm
Orientation	T > C-18.2 > S-1.7
Rotation	7.94 deg
A >> P	20 mm
R >> L	20 mm
F >> H	20 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.170868 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	4000 ms

Sequence - Common

Preparation scans	2
Delta frequency	-1.7 ppm
Water Ref. Scan	Off
Phase cycling	Auto
Bandwidth	2000 Hz
Acquisition duration	1024 ms
Remove oversampling	On

Sequence - Special

Excitation duration	2000 us
Refocusing duration	4000 us
GOIA/FOCI	Off

Sequence - Special

Inversion pulse	Off
FA AutoCalib	Off
Advanced User	Off
OVS module 1	On
OVS module 2	On
OVS module 3	On
OVS module 4	On
OVS slab X	120 mm
OVS slab Y up	120 mm
OVS slab Y down	120 mm
OVS slab Z	120 mm
OVS gap	7 mm
OVS delay 7	88 ms
OVS delay 8	21 ms
Calibration Type	None
Debug Type	None
Gradient Max. Amplitude	42 mT/m
Ramp time	210 us