\\USER\CMI\\HBN\\ScanV1_Short\localizer

SIEMENS: gre

PAT: Off Voxel size: 1.9×1.5×8.0 mm Rel. SNR: 1.00

TA: 0:10

TA. 0.10 F	AT. OII VOXEI SIZE. 1.9X1	.5x8.0 IIIII Hei. Sinh. 1.00	SIEMENS. GIE
		Phase resolution	75 %
Properties		— Phase partial Fourier	Off
Prio Recon	Off	Interpolation	Off
Before measurement			OII
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Lucasa Ellas	
Auto store images	On	Image Filter	Off
Load to stamp segments	On	Distortion Corr.	Off
Load images to graphic	Off	Prescan Normalize	Off
segments		Normalize	Off
Auto open inline display	Off	B1 filter	Off
Start measurement without	Off	Raw filter	On
further preparation		Intensity	Weak
Wait for user to start	On	Slope	25
Start measurements	single	Elliptical filter	Off
I	9.0	Geometry	
Routine		- Multi-slice mode	Sequential
Slice group 1		Series	Ascending
Slices	1		
Dist. factor	20 %	Saturation mode	Standard
Position	Isocenter	Special sat.	None
Orientation	Sagittal		
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg		-
Slice group 2		System	
Slices	1	Body	On
Dist. factor	20 %	HEP	Off
Position	Isocenter	HEA	Off
Orientation	Coronal	Positioning mode	REF
Phase enc. dir.	R >> L	Table position	ner H
Rotation	0.00 deg		
Slice group 3	3	Table position	0 mm
Slices	1	MSMA	S-C-T
Dist. factor	20 %	Sagittal	R>>L
Position	Isocenter	Coronal	A >> P
Orientation	Transversal	Transversal	F >> H
Phase enc. dir.	R>>L	Save uncombined	Off
Rotation	90.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	AutoAlign	
FoV read	280 mm	Auto Coil Select	Default
FoV read FoV phase	100.0 %	Shim mode	Tune up
1		Adjust with body coil	Off
Slice thickness TR	8.0 mm	Confirm freq. adjustment	Off
TE	20.0 ms	Assume Silicone	Off
	5.00 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	3 Day filter	Adjustment Tolerance Adjust volume	Auto
Filter	Raw filter	Position	Isocenter
Coil elements	BC		
Contrast		Orientation	Transversal
TD	0 ms	Rotation	0.00 deg
MTC	Off	R>>L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	40 deg	F >> H	350 mm
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
SWI	Off	Segments	1
JVVI	OII 		
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Doop control	Off
Measurements	1	Resp. control	Off
Multiple series	Off	Inline	
1		Subtract	Off
Resolution		Liver registration	Off
Base resolution	192	Std-Dev-Sag	Off
		0.0 50 00g	J.,

Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

\\USER\CMI\HBN\ScanV1_Short\fMRI_DistortionMap_AP TA: 5.3 s PAT: Off Voxel size: 2.4×2.4×2.4 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_se

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	SP4	Off
Inline movie	Off	SP2	Off
	On	SP8	Off
Auto store images	Off	SP6	Off
Load to stamp segments			
Load images to graphic	Off	SP3	Off
segments	0"	SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	On	SP5	Off
further preparation		Positioning mode	REF
Wait for user to start	On	Table position	Н
Start measurements	single	Table position	0 mm
Routine		MSMA	S - C - T
Slice group 1		Sagittal	R >> L
Slices	60	Coronal	A >> P
Dist. factor	0 %	Transversal	F>> H
Position	Isocenter	Coil Combine Mode	
Orientation	Transversal	AutoAlign	Sum of Squares
	A >> P		
Phase enc. dir.		Auto Coil Select	Default
Rotation	0.00 deg 0 %	Shim mode	Standard
Phase oversampling		Adjust with body coil	Off
FoV read	202 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.40 mm	? Ref. amplitude 1H	0.000 V
TR	5301 ms	Adjustment Tolerance	Auto
TE	51.2 ms	Adjust volume	Adio
Multi-band accel. factor	1	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	BC		
Contrast		Rotation	0.00 deg
	0#	R>> L	202 mm
MTC	Off	A >> P	202 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	1	
Grad. rev. fat suppr.	Enabled	BOLD	
Averaging mode	Long term	GLM Statistics	Off
Reconstruction	Magnitude	Dynamic t-maps	Off
Measurements	1	Starting ignore meas	0
Delay in TR	0 ms	Ignore after transition	0
Multiple series	Off	Model transition states	On
,	Oli	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	84	Paradigm size	15
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter		Meas[9]	Baseline
	On O#		Baseline
Elliptical filter	Off	Meas[10]	
Hamming	Off	Meas[11]	Active
Geometry		Meas[12]	Active
Multi-slice mode	Interleaved	Meas[13]	Active
Series	Interleaved	Meas[14]	Active
		Meas[15]	Active

Mot	tion correction	Off
Spa	atial filter	Off
Seque	ence	
Intro	oduction	Off
Cor	ntrasts	1
Bar	ndwidth	2290 Hz/Px
Fre	e echo spacing	Off
Ech	no spacing	0.55 ms
EPI	factor	84
RF	pulse type	Normal
Gra	dient mode	Fast
Inve	ert RO/PE polarity	Off
	Scale factor	1.00
	sio recording	Off
,	gering scheme	Standard
1119	igoring sorionie	Otaridard

\\USER\CMI\\HBN\\ScanV1_Short\\fMRI_DistortionMap_PA TA: 5.3 s PAT: Off Voxel size: 2.4×2.4×2.4 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_se

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	SP4	Off
Inline movie	Off	SP2	Off
Auto store images	On	SP8	Off
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off	SP3	Off
segments	Oli	SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	Off	SP5	Off
further preparation	Oli	JF3	
Wait for user to start	On	Positioning mode	FIX
Start measurements	single	Table position	Н
Start measurements	Sirigle	Table position	0 mm
Routine		MSMA	S - C - T
Slice group 1		Sagittal	R >> L
Slices	60	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	Isocenter	Coil Combine Mode	Sum of Squares
Orientation	Transversal	AutoAlign	
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg		
Phase oversampling	0 %	Shim mode	Standard
FoV read	202 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.40 mm	Assume Silicone	Off
TR	5301 ms	? Ref. amplitude 1H	0.000 V
TE	51.2 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	1	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
1	50	Rotation	0.00 deg
Contrast		R >> L	202 mm
MTC	Off	A >> P	202 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	TSt Signal/Mode	None
Grad. rev. fat suppr.	Enabled	BOLD	
Averaging mode	Long term	GLM Statistics	Off
Reconstruction	_	Dynamic t-maps	Off
	Magnitude	Starting ignore meas	0
Measurements	1	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	84	Paradigm size	15
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
Elliptical filter	Off	Meas[10]	Baseline
Hamming	Off	Meas[11]	Active
	5 11	Meas[12]	Active
Geometry		Meas[12]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[14]	Active
		.	

Mot	tion correction	Off
Spa	atial filter	Off
Seque	ence	
Intro	oduction	Off
Cor	ntrasts	1
Bar	ndwidth	2290 Hz/Px
Fre	e echo spacing	Off
Ech	no spacing	0.55 ms
EPI	factor	84
RF	pulse type	Normal
Gra	dient mode	Fast
Inve	ert RO/PE polarity	Off
	Scale factor	1.00
	sio recording	Off
,	gering scheme	Standard
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	\\USER\CMI\HBN\Sca	_	
TA: 1:56 PAT: Off	Voxel size: 2.4×2.4×2.4 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Properties		Body	On
Prio Recon	Off	HEP	Off
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
_	Off	SP1	Off
Load to stamp segments	Off	SP7	Off
Load images to graphic	Oli	SP5	Off
segments	0"	Destination and	
Auto open inline display	Off	Positioning mode	FIX
Start measurement without	Off	Table position	Н
further preparation		Table position	0 mm
Wait for user to start	On	MSMA	S-C-T
Start measurements	single	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	60	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	AutoAlign	
		Auto Coil Select	Default
Position Orientation	Isocenter	Shim mode	Ctandard
Orientation	Transversal		Standard
Phase enc. dir.	A >> P	Adjust with body coil	
Rotation	0.00 deg	Confirm freq. adjustr	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	204 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerand	ce Auto
Slice thickness	2.40 mm	Adjust volume	
TR	800 ms	Position	Isocenter
TE	30.0 ms	Orientation	Transversal
Multi-band accel. factor	6	Rotation	0.00 deg
Filter	None	R>>> L	204 mm
Coil elements	BC	A >> P	204 mm
Contrast		F >> H	144 mm
MTC	Off	Physio	
Magn. preparation	None [1st Signal/Mode	None
Flip angle	31 dea	3	110110
Fat suppr.	Fat sat.	BOLD	
	·	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	s 0
Measurements	135	Ignore after transition	
Delay in TR	0 ms	Model transition stat	
Multiple series	Off	Temp. highpass filte	
1		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	84	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
DAT mode	None	Meas[5]	Baseline
PAT mode	None	Meas[6]	Baseline
Matrix Coil Mode	Auto (CP)		Baseline
Distortion Corr.	Off	Meas[7]	
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
Elliptical filter	Off	Meas[10]	Baseline
Hamming	Off	Meas[11]	Active
Tanning	OII	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
		Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence	
Introduction	Off
Contrasts	1
Bandwidth	2290 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.58 ms
EPI factor	84
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	On
MB dual kernel	Off
MB RF phase scramble	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Remote
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard

\\USER\CMI\HBN\ScanV1_Short\REST

TA: 10:08 PAT: O	off Voxel size: 2.4×2.4×2.4 mr	_	R: cmrr_mbep2d_bold
Properties		Body	On
Prio Recon	Off	HEP	Off
Before measurement	Oil	SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments	Oli	SP5	Off
Auto open inline display	Off	Positioning mode	FIX
Start measurement without	On	Table position	Н
further preparation	Oll	Table position	0 mm
Wait for user to start	On	MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
ļ.	onigio	Coronal	A >> P
Routine		Transversal	F>> H
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	60	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >>> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustment	Off
Phase oversampling	0 %	Assume Silicone	Off
FoV read	204 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.40 mm	Adjust volume	
TR	800 ms	Position	Isocenter
TE	30.0 ms	Orientation	Transversal
Multi-band accel. factor	6	Rotation	0.00 deg
Filter	None	R >> L	204 mm
Coil elements	BC	A >> P	204 mm
Contrast		F >> H	144 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	31 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long torm	Dynamic t-maps	Off
Reconstruction	Long term Magnitude	Starting ignore meas	0
Measurements	750	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
1	OII	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	84	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
	, alo (Oi)	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
Оузтепп		9/4	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

ĺ	Introduction	Off
	Contrasts	1
	Bandwidth	2290 Hz/Px
	Flow comp.	No
	Free echo spacing	Off
	Echo spacing	0.58 ms
	EPI factor	84
	Gradient mode	Fast
		Off
	RF spoiling	
	Excite pulse duration	2560 us
	Single-band images	Off
	MB LeakBlock kernel	On
	MB dual kernel	Off
	MB RF phase scramble	Off
	Invert RO/PE polarity	Off
	Online multi-band recon.	Remote
	FFT scale factor	1.00
	Physio recording	Off
	Triggering scheme	Standard
ı		

\\USER\CMI\HBN\ScanV1_Short\PEER2

TA: 1:56 PAT: Of	ff Voxel size: 2.4×2.4×2.4 mm	Rel. SNR: 1.00 USER	: cmrr_mbep2d_bold
Properties		Body	On
Prio Recon	Off	HEP	Off
Before measurement	Oli	SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off	Positioning mode	FIX
Start measurement without	On	Table position	Н
further preparation		Table position	0 mm
Wait for user to start	On	MSMA	S - C - T
Start measurements	single	Sagittal	R >>> L
Poutino		Coronal	A >> P
Routine		Transversal	F >> H
Slice group 1 Slices	60	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	AutoAlign	
Position	Isocenter	Auto Coil Select	Default
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freg. adjustment	Off
Phase oversampling	0.00 deg 0 %	Assume Silicone	Off
FoV read	204 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.40 mm	Adjust volume	Auto
TR	800 ms	Position	Isocenter
TE	30.0 ms	Orientation	Transversal
Multi-band accel. factor	6	Rotation	0.00 deg
Filter	None	R >> L	204 mm
Coil elements	BC	A >> P	204 mm
l		F >> H	144 mm
Contrast			
MTC		Physio (Marka	Nege
Magn. preparation	None	1st Signal/Mode	None
Flip angle	31 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	135	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	84	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
Elliptical filter	Off	Meas[10]	Baseline
Hamming	Off	Meas[11]	Active
_		Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
	Lataria arrad	Meas[15]	Active
Series	Interleaved		
		Meas[16]	Active
Series Special sat. System	None		

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

ĺ	Introduction	Off
	Contrasts	1
	Bandwidth	2290 Hz/Px
	Flow comp.	No
	Free echo spacing	Off
	Echo spacing	0.58 ms
	EPI factor	84
	Gradient mode	Fast
		Off
	RF spoiling	
	Excite pulse duration	2560 us
	Single-band images	Off
	MB LeakBlock kernel	On
	MB dual kernel	Off
	MB RF phase scramble	Off
	Invert RO/PE polarity	Off
	Online multi-band recon.	Remote
	FFT scale factor	1.00
	Physio recording	Off
	Triggering scheme	Standard
ı		

	\\USER\CMI\HBN\Sca	nV1_Short\MOVIE	
TA: 10:08 PAT: Of	f Voxel size: 2.4×2.4×2.4 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Properties		Body	On Off
Prio Recon	Off	HEP	Off
Before measurement	.	SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments	011	SP5	Off
Auto open inline display	Off	Positioning mode	FIX
Start measurement without	On	Table position	Н
further preparation	GII	Table position	0 mm
Wait for user to start	On	MSMA	S - C - T
Start measurements	single	Sagittal	R>>L
1	Siligio	Coronal	A >> P
Routine		Transversal	F>> H
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	60	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	Auto Odii Select	Delault
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustm	nent Off
Phase oversampling	0 %	Assume Silicone	Off
FoV read	204 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	e Auto
Slice thickness	2.40 mm	Adjust volume	
TR	800 ms	Position	Isocenter
TE	30.0 ms	Orientation	Transversal
Multi-band accel. factor	6	Rotation	0.00 deg
Filter	None	R>>L	204 mm
Coil elements	BC	A >> P	204 mm
Contrast		F >> H	144 mm
MTC	Off	Physio	
Magn. preparation	None [1st Signal/Mode	None
Flip angle	31 deg	J	110110
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	
Measurements	750	Ignore after transition	
Delay in TR	0 ms	Model transition state	
Multiple series	Off	Temp. highpass filter	
Resolution		Threshold	4.00
Base resolution	84	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	OII	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr	Off	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On Off	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
1		wicas[10]	Active
Special sat.	None	Meas[17]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

	Coquonico	
Ī	Introduction	Off
	Contrasts	1
	Bandwidth	2290 Hz/Px
	Flow comp.	No
	Free echo spacing	Off
	Echo spacing	0.58 ms
	EPI factor	84
	Gradient mode	Fast
	RF spoiling	Off
	Excite pulse duration	2560 us
	Single-band images	Off
	MB LeakBlock kernel	On
	MB dual kernel	Off
	MB RF phase scramble	Off
	Invert RO/PE polarity	Off
	Online multi-band recon.	Remote
	FFT scale factor	1.00
	Physio recording	Off
	Triggering scheme	Standard

\\USER\CMI\HBN\ScanV1_Short\PEER3

TA: 1:56 PAT: Of	ff Voxel size: 2.4×2.4×2.4 mm	Rel. SNR: 1.00 USER	a: cmrr_mbep2d_bold
Properties		Body	On
Prio Recon	Off	HEP	Off
Before measurement	Oii	SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off	Positioning mode	FIX
Start measurement without	On	Table position	H
further preparation		Table position	0 mm
Wait for user to start	On	MSMA	S - C - T
Start measurements	single	Sagittal	R>>L
		Coronal	A >> P
Routine		Transversal	F>> H
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	60	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustment	Off
Phase oversampling	0 %	Assume Silicone	Off
FoV read	204 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.40 mm	Adjust volume	
TR	800 ms	Position	Isocenter
TE	30.0 ms	Orientation	Transversal
Multi-band accel. factor	6	Rotation	0.00 deg
Filter	None	R >> L	204 mm
Coil elements	BC	A >> P	204 mm
Contrast		F >> H	144 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	31 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
		Dynamic t-maps	Off
Averaging mode Reconstruction	Long term Magnitude	Starting ignore meas	0
Measurements	135	Ignore after transition	0
Delay in TR	0 ms	Model transition states	0 On
	Off	Temp. highpass filter	On On
Multiple series	Oii	Temp. nignpass filter Threshold	4.00
Resolution		Paradigm size	4.00 20
Base resolution	84	•	20 Baseline
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	None	Meas[4]	Baseline Baseline
PAT mode	None	Meas[5]	Baseline Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7] Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[10] Meas[11]	Active
Hamming	Off	Meas[12]	Active
-		Meas[13]	Active
Geometry	Interlegued	Meas[14]	Active
Multi-slice mode	Interleaved	Meas[15]	Active
Series	Interleaved	Meas[16]	Active
			, 101110
Special sat.	None	Meas[17]	Active
Special sat. System	None	Meas[17] Meas[18]	Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

	Coquonico	
Ī	Introduction	Off
	Contrasts	1
	Bandwidth	2290 Hz/Px
	Flow comp.	No
	Free echo spacing	Off
	Echo spacing	0.58 ms
	EPI factor	84
	Gradient mode	Fast
	RF spoiling	Off
	Excite pulse duration	2560 us
	Single-band images	Off
	MB LeakBlock kernel	On
	MB dual kernel	Off
	MB RF phase scramble	Off
	Invert RO/PE polarity	Off
	Online multi-band recon.	Remote
	FFT scale factor	1.00
	Physio recording	Off
	Triggering scheme	Standard

TA: 7:19	PAT: 2 Voxel size: 0.8×	0.8×0.8 mm Rel. SNR: 1.00	SIEMENS: tfl
		1	
Properties		Unfiltered images	Off
Prio Recon	Off	Prescan Normalize	On
Before measurement	.	Normalize	Off
After measurement		B1 filter	Off
Load to viewer	On	Raw filter	Off
Inline movie	Off	Elliptical filter	Off
Auto store images	On	Geometry	
Load to stamp segments	On	Multi-slice mode	Single shot
Load images to graphic	On	Series	Ascending
segments	Oli	Jenes	
	Off	Custom	
Auto open inline display		System	0#
Start measurement without	On	Body	Off
further preparation	0-	HEP	On
Wait for user to start	On	HEA	On
Start measurements	single	Positioning mode	REF
Routine		Table position	H
Slab group 1		Table position	0 mm
Slabs	1	MSMA	S - C - T
Dist. factor	50 %		8-6-1 R>>L
Position	Isocenter	Sagittal	
		Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	AutoAlign	
Slice oversampling	0.0 %	Auto Coil Select	Default
Slices per slab	224	Shim mode	Tune up
FoV read	256 mm		•
FoV phase	100.0 %	Adjust with body coil	On Off
Slice thickness	0.80 mm	Confirm freq. adjustment	Off
TR	2500 ms	Assume Silicone	Off
TE	3.15 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	
Filter	Prescan Normalize	Position	Isocenter
Coil elements	HEA;HEP	Orientation	Transversal
l		Rotation	0.00 deg
Contrast		R >>> L	350 mm
Magn. preparation	Non-sel. IR	A >>> P	263 mm
TI	1060 ms	F >> H	350 mm
Flip angle	8 deg		
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
		Dark blood	Off
Averaging mode	Long term	·····	
Reconstruction	Magnitude	Resp. control	Off
Measurements	1	'	
Multiple series	Each measurement	Inline	0"
Resolution		Subtract	Off
	220	Std-Dev-Sag	Off
Base resolution	320	Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Tra	Off
Slice resolution	100 %	Std-Dev-Time	Off
Phase partial Fourier	Off	MIP-Sag	Off
Slice partial Fourier	7/8	MIP-Cor	Off
Interpolation	Off	MIP-Tra	Off
PAT mode	GRAPPA	MIP-Time	Off
		Save original images	On
Accel. factor PE	2	1	-
Ref. lines PE	32	Sequence	
Accel. factor 3D	1	Introduction	On
Matrix Coil Mode	Auto (Triple)	Dimension	3D
Reference scan mode	Integrated	Elliptical scanning	Off
t = 11	Off	Asymmetric echo	Allowed
I IMAGA FIITAY	5.711		
Image Filter Distortion Corr.	Off	Bandwidth	130 Hz/Px

Echo spacing	9.5 ms	
RF pulse type	Normal	
Gradient mode	Normal	
Excitation	Non-sel.	
RF spoiling	On	
	•	

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TA: 5:58 PA	AT: 2 Voxel size: 0.8×0.8	3×0.8 mm Rel. SNR: 1.00 SI	EMENS: tse_vfl
Properties		B1 filter	Off
Prio Recon	Off	Raw filter	Off
Before measurement		Elliptical filter	Off
After measurement		Geometry	
Load to viewer	On	Chariel ant	Name
Inline movie	Off	Special sat.	None
Auto store images	On	Custom	
Load to stamp segments	Off	System	0#
Load images to graphic	Off	Body HEP	Off On
segments		HEA	On
Auto open inline display	Off		
Start measurement without	Off	Positioning mode	FIX
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
Slab group 1		Coronal	A >> P
Slabs	1	Transversal	F >> H
Position	Isocenter	Save uncombined	Off
Orientation	Sagittal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	AutoAlign	
Rotation	0.00 deg	Auto Coil Select	On
Phase oversampling	10 %	Shim mode	Tune up
Slice oversampling	0.0 %	Adjust with body coil	Off
Slices per slab	224	Confirm freq. adjustment	Off
FoV read	256 mm	Assume Silicone	Off
FoV phase	100.0 %	? Ref. amplitude 1H	0.000 V
Slice thickness	0.80 mm	Adjustment Tolerance	Auto
TR	3200 ms	Adjust volume	
TE	564 ms	Position	Isocenter
Averages	1.0	Orientation	Transversal
Concatenations	1	Rotation	0.00 deg
Filter	None	R >>> L	350 mm
Coil elements	HEA;HEP	A >> P	263 mm
Contrast		F >> H	350 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Fat suppr.	None		
Water suppr.	None	Dark blood	Off
Restore magn.	Off	Resp. control	Off
Reconstruction	Magnitude	· '	
Measurements	1	Inline	Off
Multiple series	Each measurement	Subtract	Off
		Std-Dev-Sag Std-Dev-Cor	Off Off
Resolution	000	Std-Dev-Cor Std-Dev-Tra	Oπ Off
Base resolution	320	Std-Dev-Tra Std-Dev-Time	Off
Phase resolution	100 %	MIP-Sag	Off
Slice resolution	100 %	MIP-Cor	Off
Phase partial Fourier Slice partial Fourier	Allowed Off	MIP-Tra	Off
Interpolation	Off	MIP-Time	Off
		Save original images	On
PAT mode	GRAPPA	1	
Accel. factor PE	2	Sequence	0"
Ref. lines PE	32	Introduction	Off
Accel. factor 3D	1	Dimension Rendwidth	3D
Matrix Coil Mode	Auto (Triple)	Bandwidth	240 Hz/Px No
Reference scan mode	Integrated	Flow comp. Allowed delay	0 s
Image Filter	Off	Echo spacing	6.3 ms
Distortion Corr.	Off	Adiabatic-mode	Off
Prescan Normalize	Off		
Normalize	Off	Define	Echo trains
I		•	

Turbo factor	195
Slice turbo factor	2
Echo trains per slice	1
Echo train duration	1783
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var

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TA: 2:26	PAT: 2 Voxel size: 0.9×0.9×8	_	SIEMENS: tse
Proportion		Distortion Corr.	On
Properties	0"	- Mode	2D
Prio Recon	Off	Unfiltered images	Off
Before measurement		Unfiltered images	Off
After measurement		Prescan Normalize	On
Load to viewer	On	Normalize	Off
Inline movie	Off	B1 filter	Off
Auto store images	On	Raw filter	Off
Load to stamp segments	Off	Elliptical filter	On
Load images to graphic segments	Off	Mode	Inplane
Auto open inline display	Off	Geometry	
Start measurement without	On	Multi-slice mode	Interleaved
further preparation		Series	Interleaved
Wait for user to start	Off		
Start measurements	single	Special sat.	None
Routine		Tim CT mode	Off
Slice group 1 Slices	22	System	
	30 %	Body	Off
Dist. factor		HEP	On
Position	Isocenter	HEA	On
Orientation	Transversal		·····
Phase enc. dir.	R >> L	Positioning mode	REF
Rotation	90.00 deg	Table position	Н
Phase oversampling	0 %	Table position	0 mm
FoV read	220 mm	MSMA	S - C - T
FoV phase	87.5 %	Sagittal	R >> L
Slice thickness	5.0 mm	Coronal	A >> P
TR	9000 ms	Transversal	F>> H
TE	90.0 ms		Off
Averages	1	Save uncombined	
Concatenations	2	Coil Combine Mode	Adaptive Combine
Filter	Distortion Corr.(2D), Prescan	AutoAlign	
	Normalize, Elliptical filter	Auto Coil Select	Default
Coil elements	HEA;HEP	Shim mode	Standard
Contract		Adjust with body coil	Off
Contrast	0.0	Confirm freq. adjustment	Off
TD	0.0 ms	Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	Slice-sel. IR	Adjustment Tolerance	Auto
TI	2500 ms	Adjust volume	
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	150 deg	Orientation	Transversal
Fat suppr.	None	Rotation	90.00 deg
Water suppr.	None	A >> P	220 mm
Restore magn.	Off	R>>L	193 mm
		F>> H	142 mm
Averaging mode	Long term	1 >>11	142 11111
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement	Dark blood	Off
Resolution		Poon control	Off
Base resolution	256	Resp. control	Off
Phase resolution	100 %	Inline	
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Cor	Off
	CDADDA	Std-Dev-Tra	Off
PAT mode	GRAPPA	Std-Dev-Tra Std-Dev-Time	Off
Accel. factor PE	2		_
Ref. lines PE	42	MIP-Sag	Off
Matrix Coil Mode	Auto (Triple)	MIP-Cor	Off
Reference scan mode	Integrated	MIP-Tra	Off
Imaga Filter		MIP-Time	Off
Image Filter	Off	Save original images	On

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1
Bandwidth	222 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	8.19 ms
Define	Turbo factor
Turbo factor	19
Echo trains per slice	7
RF pulse type	Fast
Gradient mode	Fast

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TA: 3:28 PAT: Of	f Voxel size: 2.4×2.4×2.4 mm	Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Proportios		Body	On
Properties	0#	HEP	Off
Prio Recon	Off	SP4	Off
Before measurement		SP2	Off
After measurement		SP8	Off
Load to viewer	On	SP6	Off
Inline movie	Off	SP3	Off
Auto store images	On	SP1	Off
Load to stamp segments	Off	SP7	Off
Load images to graphic	Off	SP5	Off
segments			
Auto open inline display	Off	Positioning mode	FIX
Start measurement without	On	Table position	Н
further preparation		Table position	0 mm
Wait for user to start	On	MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
Gart measurements	Single		A >> P
Routine		Coronal	
Slice group 1		Transversal	F >> H
Slices	60	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	AutoAlign	
Position		Auto Coil Select	Default
	Isocenter	Chim mede	Ctondord
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustment	Off
Phase oversampling	0 %	Assume Silicone	Off
FoV read	204 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.40 mm	Adjust volume	
TR	800 ms	Position	Isocenter
TE		Orientation	
	30.0 ms		Transversal
Multi-band accel. factor	6	Rotation	0.00 deg
Filter	None	R >> L	204 mm
Coil elements	BC	A >> P	204 mm
Contrast		F >> H	144 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	31 deg	1	
Fat suppr.	Fat sat.	BOLD	
ι αι ουμμι.	Fai Sai.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	250	Ignore after transition	0
	0 ms	Model transition states	On
Delay in TR			
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	84	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
		Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
		Meas[6]	Baseline
Matrix Coil Mode	Auto (CP)		
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter		Meas[9]	Baseline
	On Off	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Soomotry		Meas[13]	Active
Geometry	late de acce d	Meas[14]	Active
•	Interleaved		
Multi-slice mode			
•	Interleaved	Meas[15]	Active
Multi-slice mode Series	Interleaved	Meas[16]	Active
Multi-slice mode			

Active
Active
Off
Off

Sequence	
Introduction	Off
Contrasts	1
Bandwidth	2290 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.58 ms
EPI factor	84
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	On
MB dual kernel	Off
MB RF phase scramble	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Remote
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard

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Prio Recon Prio Recon After measurement After measurement Active measurement Active measurement Active measurement Active measurement Load to viewer On Inline movie Off Load to stamp segments Off Load to stamp segments Off Load to stamp segments Off Series None System Decy Off HEA On On HEA On HEA On On HEA On On HEA On HEA On On HEA On HEA On On HEA On On HEA On On HEA On HEA On On HEA On On HEA On On HEA On On MSMA S - C - T Survive Sagintal R >> L Outrion Sagintal R Survive	TA: 0:27 PAT: 2		<1.8 mm Rel. SNR: 1.00 USEF	t: cmrr_mbep2d_diff
Prio Reon	Properties			Interleaved
Before measurement Load to viewer	· · · · · · · · · · · · · · · · · · ·	Off	Series	Interleaved
After measurement Load to Viewer On Inline movie Off Body Off Load to Isamp segments Load to Isamp segments Off HEP On Load to Isamp segments Off HEP On Load to Isamp segments Off Positioning mode FIX Load to stamp segments Off Table position H Auto open inline display Off Table position H Start measurement without further preparation On MSMA S • C • T Walt for user to start On Coronal A >> P Start measurements Single Transversal F >> H Fourition Transversal stactor O% Silice to Silice Silice to Silice Silic		Oll	Special sat	None
Load to viewer				None
Inline movie		On		
Auto store images On HEP On Load in stamp segments Off HEA On Load images to graphic segments S Positioning mode FIX Auto open inline display Off Table position 0 mm Start measurement without further preparation On S C - T Wait for user to start On Coronal A >> P Slice group 1 Slice group 1 Slice group 1 Sum of Squares Slice group 1 Slice and the state of th			•	
Load to stamp segments Off				
Load images to graphic segments segments segments segment without Auto open inline display Start measurement without further preparation Off Positioning mode Table position FIX Table position On mm Start measurement without further preparation On Sagittal R >> L Sac T Wall for user to start with start measurements Single Coronal A > P A > P Slice group 1 Slice group 1 Slice group 1 Auto-Coil Select Default Slices 7 72 Auto-Coil Select Default Dist, factor 0 0 % Shim mode Standard Position 1 Isocenter Adjust with body coil Off Position 2 A > P Assume Silicone Off Phase oversampling 3 0 % Adjust with body coil Off Position 3 187 mm Adjust with body coil Off FoV read 4 187 mm Adjust with body coil Off FoV phase 5 100.0 % Position Isocenter Slice thickness 1 180 mm Orientation Transversal TE 332			HEA	On
Segments			Positioning mode	FIX
Auto open inline displays Start measurement without further preparation On MSMA S - C - T Sagittal R > L Coronal R > P S + L Coronal R > P S + H Sagittal R = N + L Coronal R > P S + H Sagittal R = N + L Coronal R > P S + H Sagittal R = N + L R Sagittal R = N + R S + L Coronal R = N + R S + L Coronal R = N + R S + L R Sagittal R = N + R S + R		-		
Start measurement without On the properties of the properties		Off		
Multi-preparation Sagittal R >> L				
Wait for user to start				
Start measurements Single Transversal F >> H Southine Silice group Silice group Silice group Silice group Auto Coil Select Default		On		
Solice group 1 Silice s	Start measurements	single		
Silice group 1 Silices 72 Silices 72 Silices 72 Silices 72 Silices 72 Silices 72 Silices 73 Silice stator 0 % Shim mode Standard Adjust with body coil Off Shim mode Standard Adjust with body coil Off Shim mode Off Shim mode Adjust wolume Shim mode Shim mod	No. 18 co	S		
Silce 72				-
Shices 72			<u> </u>	
Position		· -		
Orientation Transversal Phase enc. dir. A >> P Confirm freq. adjustment Assume Silicone Off Off Rotation 0.00 deg ? Ref. amplitude 1 H 0.000 V Phase oversampling 0 % Adjust with the Location Auto FoV read 187 mm Adjust volume Auto FoV phase 100.0 % Position Isocenter Slice thickness 1.80 mm Orientation Transversal TR 3320 ms Rotation 0.00 deg TE 100.2 ms R >> L 187 mm Multi-band accel. factor 3 A >> P 188 mm Filter None F >> H 130 mm Coil elements HEA;HEP Physio Dontrast T 135 mm None MTC Off Diff Diff Magnage 90 deg Diff. Weightein 1 Pertagnale 90 deg Diff. Weightein images On Fat suppr. Fat sat. b-value Diff. Weighteid images On <				
Phase enc. dir. A >> P Assume Silicone Off Phase oversampling 0 % Adjustment Tolerance Auto FoV read 187 mm Adjustment Tolerance Auto FoV phase 100.0 % Position Isocenter Slice thickness 1.80 mm Orientation Transversal TR 3320 ms Rotation 0.00 deg TE 100.2 ms Testite Diff				
Phase oversampling				
Phase oversampling 0 % Adjust volume Auto FoV read 187 mm Adjust volume Stocenter FoV phase 100.0 % Position Isocenter Slice thickness 1.80 mm Orientation Transversal TE 100.2 ms Rotation 0.00 deg TE 100.2 ms R.> L 187 mm Multi-band accel. factor 3 A.> P 187 mm Filter None F.> H 130 mm Coil elements HEA;HEP Physio Fortrast Physio None Text at the propertion of the physion of				
FoV read				0.000 V
FOV phase				Auto
Slice thickness				
TR 3320 ms Rotation 0.00 deg TE 100.2 ms R > L 187 mm Multi-band accel. factor 3 A > P 187 mm Filter None F > H 130 mm Coll elements HEA;HEP Physio Physio Sontrast Physio Whysio Sontrast Physio Signal/Mode None Physio Signal/Mode None Physio Ist Signal/Mode None Physio Ist Signal/Mode None Diffusion mode MDDW Diffusion single brait Norma	•		Position	Isocenter
TE			Orientation	Transversal
Multi-band accel. factor S			Rotation	0.00 deg
Filter				
Coil elements HEA;HEP Physio Totrast TO MTC Magn, preparation Refocus flip angle Averaging mode Long term Measurements Diff Measurements Measurements Diff Measurements Diff Measurements Diff Measurements Diff Mesultiple series Off Average ADC maps Off Multiple series Off Mescolution Base resolution Phase partial Fourier Phase partial Fourier PAT mode Accel. factor PE Reference scan mode Diff Diffusion mode Diff, weighted images Diff, weighted images On Diff, weighted images Off Diffusion mode MDDW Diff. weighted images Off Diff. weighted images Off Average ADC maps Off Average ADC maps Off Individual ADC maps Off FA maps Off FA maps Off Tensor Off Noise level Diff. directions 6 Phase resolution Diff. directions 6 Plandwidth Diff. direction Off Bandwidth Diff Echo spacing Off PAT mode Accel. factor PE Reference scan mode Single-shot Diffusion mode MDDW MDDW Diff. Mittips 1 Average ADC maps Off Average ADC maps Off FA maps Off FA maps Off Tensor Off Noise level 40 Diff. directions 6 Phase resolution Diff. directions 6 Plandwidth Diff. direction Off Bandwidth Diffusion mode MDDW Diff. weighted Industry Off FA maps Off Tere eweighted images Off Tere eweighted images Off Tensor Off Noise level 40 Diff. directions 6 Pere excho spacing Off Bandwidth Diffusion Trace weighted images Off Fee echo spacing Off Echo spacing Off Refocus pulse duration Bazo us Raw filter On Diffusion Scheme Monopolar Bilptical filter Off Single-band images On MB LeakBlock kernel Off		-	1 1 1 1	_
Physio Signal/Mode None Diff			F >> H	130 mm
Test Signal/Mode None Diff	Coil elements	HEA;HEP	Physio	
MTC Magn. preparation None Flip angle Refocus flip angle Refocus flip angle Fat suppr. Grad. rev. fat suppr. Disabled Averaging mode Reconstruction Magnitude Magnitude Magnitude Magnitude Magnitude Mosaic	Contrast		•	None
Magn. preparation None Diff Refocus flip angle 180 deg Fat sat. Diff Averaging mode Long term Averaging mode Magnitude Measurements 1 FA maps Off Multiple series Off Multiple series Off Phase partial Fourier Off Interpolation Off Matrix Coil Mode Triple Ref. lines PE 24 Reference scan mode Single-shot Diff Single-band images Off Diff Diffusion mode Diff Diff. weightings 1 D-value O s/mm² Diff. weighted images Off Average ADC maps Off Average ADC maps Off Individual ADC maps Off Mosaic Off Tensor Off Tensor Off Diff. directions 6 Diff. directions 6 Diff. directions Off Diff. direction Off Bandwidth 1374 Hz/Px Free echo spacing Off Diff. corr Off Diff.		Off	·	None
Filip angle 90 deg Refocus flip angle 180 deg Fat suppr. Fat sat. Diff. weighted images Or Trace weighted images Off Averaging mode Long term Averaging mode Long term Average ADC maps Off Individual ADC maps Off Measurements 1 FA maps Off Mosaic Off Multiple series Off Tensor Off Mosaic Off Off Off Off Mosaic Off Off Off Off Off Off Mosaic Off Off Off Off Off Off Off Off Off Of				
Refocus flip angle Fat suppr. Fat sat. Grad. rev. fat suppr. Disabled Diff. weighted images On Trace weighted images Off Averaging mode Long term Average ADC maps Off Neasurements 1 Individual ADC maps Off Neasurements 1 Individual ADC maps Off Neasurements Individual ADC maps Off Individual ADC maps Off Neasurements Individual ADC maps Off Neasurements Individual ADC maps Off Indi				MDDW
Fat suppr. Grad. rev. fat suppr. Disabled Averaging mode Reconstruction Magnitude Measurements Delay in TR Multiple series Off Mesolution Base resolution Phase partial Fourier Interpolation Off Methode PAT mode Accel. factor PE Ref. lines PE Ref. lines PE Ref. lines PE Ref. lines PE Reson Normalize Reference scan mode Distortion Corr. Disabled Diff. weighted images Off Average ADC maps Off Mosaic Off Tensor Off Tensor Noise level Diff. directions Off Introduction Off Bandwidth Diff. direction Off Sequence Phase partial Fourier Introduction Off Sequence Pica cho spacing Coff Corr. Resolution Off Corr. Off Corr. Distortion Corr. Off Corr. Distortion Corr. Off Resolution Diff. directions Off Corr. Distortion Corr. Off Corr. Distortion Corr. Off Revision Diff. Distortion Corr. Off Revision Diff.			Diff. weightings	1
Grad. rev. fat suppr. Disabled Diff. weighted images Off Trace weighted images Off Averaging mode Reconstruction Magnitude Measurements 1 Delay in TR Multiple series Off Mesolution Base resolution Phase partial Fourier Interpolation Off Accel. factor PE Ref. lines PE Reference scan mode Reference scan mode Reference scan mormalize Prescan Normalize Prescan Normalize Prescan Normalize Part Matrix Off Distortion Corr. Person Reference scan mormalize Plant rev. fat suppr. Distortion Corr. Reconstruction Magnitude Average ADC maps Off Average ADC maps Off FA maps Off Mosaic Off Tensor Off Noise level A0 Diff. directions 6 Sequence Introduction Off Bandwidth 1374 Hz/Px Free echo spacing Off Echo spacing Off Fast Reference scan mode Single-shot Refocus pulse duration Refoc			b-value	0 s/mm²
Averaging mode Long term Average ADC maps Off Reconstruction Magnitude Individual ADC maps Off Measurements 1 FA maps Off Multiple series Off Tensor Off Resolution 104 Phase resolution 100 % Phase partial Fourier Off Introduction Off Interpolation Off Bandwidth 1374 Hz/Px PAT mode Accel. factor PE 2 Ref. lines PE 24 EPI factor 104 Matrix Coil Mode Triple Gradient mode Fast Reference scan mode Single-shot Raw filter On Diff Single-band images Off Resolution Picture Off Excite pulse duration Raw filter On Diffusion Scheme Monopolar Elliptical filter Hamming Off MB LeakBlock kernel Off Single-band images Off Average ADC maps Off FA maps Off FA maps Off Noise level 40 Noise level 40 Diff. directions 6 Sequence Introduction Off Bandwidth 1374 Hz/Px Free echo spacing Off Echo spacing Off Fast Off Fast Past Off Fast Past Off Prescan Normalize Off Refocus pulse duration S320 us Raw filter On Diffusion Scheme Monopolar Single-band images On			, , , , , , , , , , , , , , , , , , , ,	
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Elliptical filter Off Single-band images On Hamming Off MB LeakBlock kernel Off			•	
Hamming Off MB LeakBlock kernel Off				
I MD dual kamaal Off	Hamming	JII	MB LeakBlock kernel MB dual kernel	Off

MB RF phase scramble Off
Time-shifted MB RF Off
SENSE1 coil combine On
Invert RO/PE polarity Off
Online multi-band recon. Remote
FFT scale factor 1.00
Physio recording Off

\\USER\CMI\\HBN\\dki\\DKI_DistortionMap_PA

Properties	TA: 0:27 PAT: 2		m Rel. SNR: 1.00 USER	t: cmrr_mbep2d_diff
Prio Recon	Properties			
Before measurement Load to viewer		Off	- Series	Interleaved
Load to viewer On	Before measurement		Special sat.	None
Body	After measurement		Svetem	
HEP				Off
Auto store images Con			1	
Load to stamps et orgaphic segments Off Positioning mode FIX Auto open inlinel display Start measurement without turther preparation Off Table position H Wait for user to start On Sagittal R >> L Start measurements single Tansversal F>> H Sagittal R >> L Routine Silice group 1 Silices 72 Transversal F>> H Sum of Squares Silices or Position 72 Auto Coll Select Default Sum of Squares Silices or Position 72 Auto Coll Select Default Standard Pass enc. dir. Posa enc. dir.				
Segments		_		
Auto open inline display		Oπ		
Start measurement without On Wait for user to start On Coronal A >> P Sagittal R >> L Coronal A >> P Sagittal R >> H Coronal A >> P Sagittal A >> H Coronal A Sagittal A >> H Coronal A Sagittal A >> H Coronal A Sagittal A >> H A Sagittal A >> H A Sagittal A Sagittal A >> H A Sagittal		0#		
Multi-preparation Sagittal R >> L				
Wait for user to start		Oli		
Start measurements		On		
Coil Combine Mode Sum of Squares				
Slice group 1 Slice group	Start measurements	Sirigle		
Silices 72	Routine			•
Silces 72				
Position			Auto Coll Gelect	
Orientation Transversal Confirm freq. adjustment Off Phase or, dir. P>>A Assume Silicone Off Rotation 180.00 deg ? Ref. amplitude iH 0.000 V FOV read 187 mm Adjust volume FOV phase 100.0 % Position Isocenter Silice thickness 1.80 mm Orientation Transversal TR 3320 ms Rotation 180.00 deg TE 100.2 ms R.> L 187 mm Milt-band accel. factor 3 A.> P 187 mm Filter None Physio Is 7 mm Contrast MTC Off Off Physio Contrast Trace weighted images None Diff. weightings 1 MTC Off Diff. weightings 1 Diff. weightings 1 Magn. preparation None Diff. weightings 1 Diff. weightings 1 Factous tip angle 90 deg Diff. weightings 1				
Phase enc. dir. P >> A Rotation 180.00 deg Phase oversampling 0 % FoV read 187 mm FoV phase 100.0 % Slice thickness 1.80 mm Position TR 3320 ms Rotation Transversal TE 100.2 ms Rotation 180.00 deg Filter None F> H 187 mm Filter None F> H 130 mm Coil elements HEA;HEP Physio None Dotation None F> H 130 mm MTC Off Off Off Magn. preparation None Diff Diff Diff Diff Diff Diff Magn. preparation None Diff Diff Diff				_
Rotation				
Phase oversampling 0 % Adjustment Tolerance Auto FoV read 187 mm Adjustment Tolerance Auto FoV phase 100.0 % Position Isocenter Slice thickness 1.80 mm Orientation Transversal TR 3320 ms Rotation 180.00 deg TE 100.2 ms R > L 187 mm Multi-band accel. factor 3 A > P 187 mm Filter None F > H 130 mm Coil elements HEA;HEP Physio 1st Signal/Mode None Contrast Physio 1st Signal/Mode None None Contrast Physio 1st Signal/Mode None None MTC Off Diff				
FoV read				
FoV phase				Auto
Slice thickness 1.80 mm 3320 ms Rotation Transversal Rotation 180.00 deg		_	1	
TR	•			
TE				
Multi-band accel. factor 3 A >> P 187 mm Filter None F >> H 130 mm Coll elements HEA;HEP Physio Physio Contrast Physio MTC Off Ist Signal/Mode None Flip angle 90 deg Diff Diff Refocus flip angle 180 deg Diff. weightings 1 Fat suppr. Disabled Diff. weighted images On Grad. rev. fat suppr. Disabled Diff. weighted images On Averaging mode Long term Average ADC maps Off Reconstruction Magnitude Individual ADC maps Off Measurements 1 FA maps Off Multiple series Off Mosaic Off Multiple series Off Tensor Off Multiple series Off Noise level 40 Diff. directions 6 Passe resolution 6 Phase resolution 100 % </td <td></td> <td></td> <td></td> <td>•</td>				•
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Coil elements HEA;HEP Physio		_		
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MTC Magn. preparation None Flip angle Refocus flip angle Refocus flip angle Refocus flip angle Fat suppr. Grad. rev. fat suppr. Disabled Diff. weightings Diff. weightings Diff. weightings Diff. weightings Diff. weightings Diff. weighted images On Trace weighted images Off Averaging mode Averaging mode Reconstruction Magnitude Individual ADC maps Off Measurements Diff. Weighted images Off Average ADC maps Off Mosaic Off Mosaic Off Mosaic Off Tensor Off Mosaic Off Tensor Off Noise level Diff. directions Diff. directions Diff. direction Off Delay in TR De	I		Physio	
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Magn. preparation Filip angle Refocus flip angle Refocus flip angle Fat suppr. Grad. rev. fat suppr. Disabled Averaging mode Reconstruction Magnitude Measurements Diffusion mode MDDW Diff. weightings Diff. weighted images On Trace weighted images Off Average ADC maps Off Measurements Diffusion mode Diff. weightings Diff. weighted images On Trace weighted images Off Average ADC maps Off Revenue Measurements Diffusion mode Diff. weightings Diff. weighted images On Trace weighted images Off Average ADC maps Off Revenue Diff. deverage ADC maps Off Mosaic Off Mosaic Off Tensor Off Mosaic Off Tensor Off Diff. directions Off Diff. directions Off Bandwidth Diff. directions Off Sequence Introduction Off Bandwidth Diff. directions Off Echo spacing Off Cree echo spacin			Diff	
Refocus flip angle 180 deg Fat suppr. Fat sat. Disabled Diff. weightings 1 b-value 0 s/mm² Diff. weighted images Off Averaging mode Long term Average ADC maps Off Neasurements 1 Fat suppr. Diff. Weighted images Off Average ADC maps Off Neasurements 1 Fat maps Off Noise level Off Noise level 40 Diff. directions 6 Diff. directions 6 Diff. directions 6 Diff. directions 6 Diff. directions 0 Off Noise level Off Noise level Off. Distortion Corr. Off Prescan Normalize Off Reform Normalize Off Resolution Off Reform Normalize Off Normalize Normalize Off Reform Normalize Off Reform Normalize Off Reform Normalize Off Normalize Off Normalize Normalize Off Normalize Normalize Off Normalize Off Normalize No				MDDW
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Averaging mode Long term Average ADC maps Off Reconstruction Magnitude Individual ADC maps Off Delay in TR 0 ms Mosaic Off Multiple series Off Tensor Off Resolution 104 Phase resolution 100 % Phase partial Fourier Off Interpolation Off Accel. factor PE 2 Ref. lines PE 24 Matrix Coil Mode Triple Gradient mode Fast Reference scan mode Single-shot Raw filter On Diff Single-band images Off Resolution Single-band images Off Average ADC maps Off Average ADC maps Off Individual ADC maps Off Mosaic Off Mosaic Off Tensor Off Tensor Off Noise level 40 Diff. directions 6 Sequence PAT mode Off Bandwidth 1374 Hz/Px Free echo spacing Off Echo spacing Off Echo spacing Off Fast Reference scan mode Single-shot RF spoiling Off Distortion Corr. Off Resolution Single-band images On MB LeakBlock kernel Off				
Averaging mode Reconstruction Magnitude Measurements 1 Mosaic Mos	Grad. rev. fat suppr.	Disabled		_
Reconstruction Magnitude Individual ADC maps Off Measurements 1 FA maps Off Delay in TR 0 ms Mosaic Off Multiple series Off Tensor Off Resolution 104 Phase resolution 100 % Sequence Phase partial Fourier Off Interpolation Off Bandwidth 1374 Hz/Px PAT mode GRAPPA Echo spacing Off Accel. factor PE 2 EPI factor 104 Matrix Coil Mode Triple Gradient mode Fast Reference scan mode Single-shot RF spoiling Off Distortion Corr. Off Refore Single-band images On MB LeakBlock kernel Off Hamming Off Hamming Off Individual ADC maps Off FA map	Averaging mode	Long term		
Delay in TR	Reconstruction	Magnitude		Off
Delay in TR Multiple series Off Multiple series Off Resolution Base resolution Phase resolution Phase partial Fourier Interpolation Off Accel. factor PE Ref. lines PE Ref. lenes PE Reference scan mode Reference scan mode Resolution Off Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Off Mosaic Off Tensor Off Noise level Ad0 Diff. directions 6 Sequence Introduction Off Bandwidth 1374 Hz/Px Free echo spacing Echo spacing Off Echo spacing Off Gradient mode Fast RF spoiling Off Excite pulse duration Single-band images On MB dual kernel Off MB dual kernel Off MB dual kernel	Measurements	_	·	
Noise level 40	<u> </u>		•	Off
Diff. directions 6	Multiple series	Off	Tensor	Off
Base resolution 104 Phase resolution 100 % Sequence Phase partial Fourier Off Interpolation Off PAT mode GRAPPA Accel. factor PE 2 Ref. lines PE 24 Matrix Coil Mode Triple Reference scan mode Single-shot Reference Scan Normalize Prescan Normalize Raw filter Prescan Normalize Raw filter Elliptical filter Off Distortion	Resolution			40
Phase resolution Phase partial Fourier Off Interpolation Off PAT mode Accel. factor PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Pation Diff Diff Diff Diff Diff Diff Diff Dif		104	- Diff. directions	6
Phase partial Fourier Off Introduction Off Bandwidth 1374 Hz/Px PAT mode GRAPPA Free echo spacing Off Echo spacing 0.83 ms Ref. lines PE 24 EPI factor 104 Matrix Coil Mode Triple Gradient mode Fast Reference scan mode Single-shot RF spoiling Off Distortion Corr. Off Excite pulse duration 5120 us Prescan Normalize Off Refocus pulse duration 8320 us Raw filter On Diffusion Scheme Monopolar Elliptical filter Off Single-band images On MB LeakBlock kernel Off MB dual kernel			Sequence	
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Accel. factor PE Ref. lines PE Accel. factor PE Comparison Prize Reference scan mode Peast Ref				
Ref. lines PE 24 EPI factor 104 Matrix Coil Mode Triple Gradient mode Fast Reference scan mode Single-shot RF spoiling Off Distortion Corr. Off Excite pulse duration 5120 us Prescan Normalize Off Refocus pulse duration 8320 us Raw filter On Diffusion Scheme Monopolar Elliptical filter Off Single-band images On Hamming Off MB LeakBlock kernel Off MB dual kernel				
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Distortion Corr. Off Excite pulse duration 5120 us Prescan Normalize Off Refocus pulse duration 8320 us Raw filter On Diffusion Scheme Monopolar Elliptical filter Off Single-band images On Hamming Off MB LeakBlock kernel Off MB dual kernel Off		•		
Prescan Normalize Off Refocus pulse duration 8320 us Raw filter On Diffusion Scheme Monopolar Elliptical filter Off Single-band images On Hamming Off MB LeakBlock kernel Off MB dual kernel Off	neierence scan mode	ວກາgie-ຮກປt	HF spoiling	UTI
Prescan Normalize Off Refocus pulse duration 8320 us Raw filter On Diffusion Scheme Monopolar Elliptical filter Off Single-band images On Hamming Off MB LeakBlock kernel Off MB dual kernel Off	Distortion Corr.	Off	Excite pulse duration	5120 us
Raw filter On Diffusion Scheme Monopolar Elliptical filter Off Single-band images On Hamming Off MB LeakBlock kernel Off MB dual kernel Off	Prescan Normalize	Off		8320 us
Elliptical filter Off Single-band images On Hamming Off MB LeakBlock kernel Off MB dual kernel Off	Raw filter		·	
Hamming Off MB LeakBlock kernel Off MB dual kernel Off			Single-band images	•
Geometry MB dual kernel Off	Hamming	Off		Off
	Geometry		MB dual kernel	Off

MB RF phase scramble Off
Time-shifted MB RF Off
SENSE1 coil combine On
Invert RO/PE polarity Off
Online multi-band recon. Remote
FFT scale factor 1.00
Physio recording Off

\\USER\CMI\HBN\dki\DKI

USER: cmrr_mbep2d_diff

Voxel size: 1.8×1.8×1.8 mm Rel. SNR: 1.00

TA: 7:32

PAT: 2

Properties		Multi-slice mode Series	Interleaved Interleaved
Prio Recon	Off	Genes	·····
Before measurement		Special sat.	None
After measurement		System	
Load to viewer	On	Body	Off
Inline movie	Off	HEP	On
Auto store images	On	HEA	On
Load to stamp segments	Off	SP4	Off
Load images to graphic	Off	SP2	Off
segments		SP8	Off
Auto open inline display	Off	SP6	Off
Start measurement without	On	SP3	Off
further preparation	_	SP1	Off
Wait for user to start	On	SP7	Off
Start measurements	single	SP5	Off
Routine		01 0	
Slice group 1		Positioning mode	FIX
Slices	72	Table position	Н
Dist. factor	0 %	Table position	0 mm
Position	R5.4 P2.0 F31.2	MSMA	S - C - T
Orientation	Transversal	Sagittal	R >> L
Phase enc. dir.	A >> P	Coronal	A >> P
Rotation	0.00 deg	Transversal	F >> H
Phase oversampling	0.00 deg 0 %	Coil Combine Mode	Sum of Squares
FoV read	187 mm	AutoAlign	
FoV phase	100.0 %	Auto Coil Select	Default
Slice thickness	1.80 mm	China mada	Otomoloud
TR	3320 ms	Shim mode	Standard
TE	100.2 ms	Adjust with body coil	Off
Multi-band accel. factor	3	Confirm freq. adjustment	Off
Filter	None	Assume Silicone	Off
Coil elements		? Ref. amplitude 1H	0.000 V
Con elements	HEA;HEP	Adjustment Tolerance	Auto
Contrast		Adjust volume Position	R5.4 P2.0 F31.2
MTC	Off		
Magn. preparation	None	Orientation	Transversal
Flip angle	90 deg	Rotation	0.00 deg
Refocus flip angle	180 deg	R >> L	187 mm
Fat suppr.	Fat sat.	A >> P	187 mm
Grad. rev. fat suppr.	Disabled	F >> H	130 mm
Avaraging made	Long torm	Physio	
Averaging mode Reconstruction	Long term	1st Signal/Mode	None
	Magnitude	I -	
Measurements	I 0	Diff	МЪРМ
Delay in TR	0 ms	Diffusion mode	MDDW
Multiple series	Off	Diff. weightings	3
Resolution		b-value 1	0 s/mm²
Base resolution	104	b-value 2	1000 s/mm²
Phase resolution	100 %	b-value 3	2000 s/mm²
Phase partial Fourier	Off	Diff. weighted images	On
Interpolation	Off	Trace weighted images	On
		Average ADC maps	Off
PAT mode	GRAPPA	Individual ADC maps	Off
Accel. factor PE	2	FA maps	Off
Ref. lines PE	24	Mosaic	Off
Matrix Coil Mode	Auto (Triple)	Tensor	Off
Reference scan mode	Single-shot	Noise level	40
Distortion Corr.	Off	Diff. directions	64
Prescan Normalize	Off	Sequence	
Raw filter	On	Introduction	Off
Elliptical filter	Off	Bandwidth	1374 Hz/Px
Hamming	Off	Free echo spacing	Off
-	U	Echo spacing	0.83 ms
ieometry		Lono opaonig	0.00 1110

EPI factor Gradient mode RF spoiling	104 Fast Off
Excite pulse duration	5120 us
Refocus pulse duration	8320 us
Diffusion Scheme	Monopolar
Single-band images	On
MB LeakBlock kernel	Off
MB dual kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
SENSE1 coil combine	On
Invert RO/PE polarity	Off
Online multi-band recon.	Remote
FFT scale factor	1.00
Physio recording	Off