

LUMBAR Adult SIGNA Artist

Technical Instructions

3pl loc

L Sag T1 DL

L Sag T2 DL

L Sag STIR DL

L Ax T2 DL

L Ax T1 DL

L+c Sag T1 Fat DL

L+c Ax T1 DL

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L+c Ax T1 Fat DL

3pl loc

Details tab

Protocol notes

3pl loc

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	3-PLANE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	Seq, EDR, Fast, SS, ARC
Pulse Sequence:	Spin Echo
ARC Phase:	2.00

Image Recon

Recon DL Strength:	Off
Intensity Correction:	NONE
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	38.0
Slice Thickness:	7.00
Slice Spacing:	5.0
Overlap Locations:	0
No Phase Wrap:	1.00

ACQ TIMING

Acq Voxel Size:	1.5 X 2.4 X 7.0
Freq:	256
Phase:	160
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

SCAN TIMING

TE:	Minimum
Number of Echoes:	1
TR:	Minimum
Receiver Bandwidth:	62.50

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Lumbar spine
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USER CVS

User CV1:	1.00
User CV2:	240.00
User CV13:	1.00

User CV39:

1.00

Non-Viewable Parameters

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L Sag T1 DL

Details tab

Protocol notes

L Sag T1 DL

PATIENT POSITION

Coil Configuration:	GE19chGEMHNUABB, GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	EDR, TRF, Fast
Pulse Sequence:	FSE-XL

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	PURE
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	28.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	1

No Phase Wrap:

1.00

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	320
Phase:	256
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	0.90
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal

SCAN TIMING

Flip Angle:	160.0
TE:	20.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	5
Receiver Bandwidth:	41.67

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

SAT Location A: A2.3

USER CVS

User CV6:	None
User CV7:	None
User CV9:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV21:	None
User CV26:	1.00
User CV29:	None
TR Min:	500.0
TR Max:	750.0

Non-Viewable Parameters

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L Sag T2 DL

Details tab

Protocol notes

L Sag T2 DL

PATIENT POSITION

Coil Configuration:	GE19chGEMHNUABB, GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	TRF, Fast, FR
Pulse Sequence:	FSE-XL

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	PURE
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	28.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	15

No Phase Wrap:

1.00

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	320
Phase:	256
Freq DIR:	S/I
NEX:	2.00
Phase FOV:	0.90
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (S)

SCAN TIMING

Flip Angle:	160
TE:	85.0
Number of Echoes:	1
TR:	2837.0
Echo Train Length:	25
Receiver Bandwidth:	62.50

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

SAT Location A: A2.3

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV12:	1.00
User CV15:	0
User CV18:	None
User CV21:	None
User CV30:	1.00
TR Min:	2500.0
TR Max:	11000.0

Non-Viewable Parameters

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L Sag STIR DL

Details tab

Protocol notes

L Sag STIR DL

PATIENT POSITION

Coil Configuration:	GE19chGEMHNUABB, GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	FC, Seq, Fast, IrP
Pulse Sequence:	FSE-XL

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	PURE
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	28.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	15

No Phase Wrap:

1.00

ACQ TIMING

Acq Voxel Size:	1.0 X 1.1 X 4.0
Freq:	288
Phase:	256
Freq DIR:	S/I
NEX:	2.00
Phase FOV:	0.90
Auto Shim:	Off
Phase Correct:	Off
Flow Comp Direction:	Freq
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (S)

SCAN TIMING

Flip Angle:	180.0
TE:	44.0
Number of Echoes:	1
TR:	4250.0
TI:	160
Echo Train Length:	12
Receiver Bandwidth:	41.67

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

SAT Location A:	A2.3
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USER CVS

User CV7:	None
User CV15:	None
User CV18:	None
User CV21:	1.00
User CV26:	1.00
User CV29:	None

Non-Viewable Parameters

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L Ax T2 DL

Details tab

Protocol notes

L Ax T2 DL

PATIENT POSITION

Coil Configuration:

GE40chGEMPA

Plane:

OBLIQUE

IMAGING PARAMETERS

Imaging Mode:

2D

Imaging Options:

FC, EDR, TRF, Fast, ZIP512, FR

Pulse Sequence:

FSE-XL

Image Recon

Recon DL Strength:

Medium

Intensity Correction:

SCENIC

Intensity Filter:

None

Save Original:

Off

SCAN RANGE

FOV:

18.0

Slice Thickness:

4.00

Slice Spacing:

0.4

Overlap Locations:

0

Number of Slices:

34

No Phase Wrap:

2.00

ACQ TIMING

Acq Voxel Size:	0.6 X 0.8 X 4.0
Freq:	320
Phase:	224
Freq DIR:	R/L
NEX:	1.00
# of Acq. Before Pause:	0
Phase FOV:	0.80
Auto Shim:	Auto
Phase Correct:	Off
Flow Comp Direction:	Slice
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	160.0
TE:	101.0
Number of Echoes:	1
TR:	3163.0
Echo Train Length:	19
Receiver Bandwidth:	41.67

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:	Thoracic spine
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SAT

SAT Location A:	A0.9
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USER CVS

User CV6:	None
User CV15:	1.00
User CV18:	1.00
User CV21:	None
User CV26:	1.00
User CV29:	None
TR Min:	2500.0
TR Max:	6000.0

Non-Viewable Parameters

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L Ax T1 DL

Details tab

Protocol notes

L Ax T1 DL

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	EDR, TRF, Fast, ZIP512, ARC
Pulse Sequence:	FSE-XL
ARC Phase:	1.50

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	SCENIC
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	18.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	43

No Phase Wrap:

2.00

ACQ TIMING

Acq Voxel Size:	0.8 X 1.1 X 4.0
Freq:	240
Phase:	170
Freq DIR:	R/L
NEX:	1.00
# of Acq. Before Pause:	0
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111.0
TE:	Min Full
Number of Echoes:	1
TR:	788.0
Echo Train Length:	3
Receiver Bandwidth:	35.71

CONTRAST

Contrast Yes/No:	No
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OTHERS

Anatomical Region:

Lumbar spine

SAT

SAT Location A: P11.4

USER CVS

User CV6:	None
User CV9:	None
User CV15:	2.00
User CV16:	1.00
User CV18:	None
User CV21:	None
User CV26:	1.00
User CV29:	None
TR Min:	500.0
TR Max:	800.0

Non-Viewable Parameters

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L+c Sag T1 Fat DL

Details tab

Protocol notes

L+c Sag T1 Fat DL

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	EDR, TRF, Fast
Pulse Sequence:	FSE-XL

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	PURE
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	28.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
No Phase Wrap:	1.00

ACQ TIMING

Acq Voxel Size:	0.9 X 1.1 X 4.0
Freq:	320
Phase:	256
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	0.90
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal

SCAN TIMING

Flip Angle:	160.0
TE:	20.0
Number of Echoes:	1
TR:	575.0
Echo Train Length:	5
Receiver Bandwidth:	41.67

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

Anatomical Region:	Lumbar spine
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SAT

<i>SAT Location A:</i>	<i>Default</i>
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV7:	None
User CV9:	None
User CV13:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV26:	1.00
User CV29:	None

Non-Viewable Parameters

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L+c Ax T1 DL

Details tab

Protocol notes

L+c Ax T1 DL

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	EDR, TRF, Fast, ZIP512, ARC
Pulse Sequence:	FSE-XL
ARC Phase:	1.50

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	SCENIC
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	18.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	43

No Phase Wrap:

2.00

ACQ TIMING

Acq Voxel Size:	0.8 X 1.1 X 4.0
Freq:	240
Phase:	170
Freq DIR:	R/L
NEX:	1.00
# of Acq. Before Pause:	0
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111.0
TE:	Min Full
Number of Echoes:	1
TR:	788.0
Echo Train Length:	3
Receiver Bandwidth:	35.71

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

Anatomical Region:

Lumbar spine

SAT

SAT Location A: P11.4

USER CVS

User CV6:	None
User CV9:	None
User CV15:	2.00
User CV16:	1.00
User CV18:	None
User CV21:	None
User CV26:	1.00
User CV29:	None
TR Min:	500.0
TR Max:	850.0

Non-Viewable Parameters

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L+c Ax T1 Fat DL

Details tab

Protocol notes

L+c Ax T1 Fat DL

PATIENT POSITION

Coil Configuration:	GE40chGEMPA
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Imaging Options:	EDR, TRF, Fast, ZIP512, ARC
Pulse Sequence:	FSE-XL
ARC Phase:	1.50

Image Recon

Recon DL Strength:	Medium
Intensity Correction:	SCENIC
Intensity Filter:	None
Save Original:	Off

SCAN RANGE

FOV:	18.0
Slice Thickness:	4.00
Slice Spacing:	0.4
Overlap Locations:	0
Number of Slices:	43

No Phase Wrap:

2.00

ACQ TIMING

Acq Voxel Size:	0.8 X 1.1 X 4.0
Freq:	240
Phase:	170
Freq DIR:	R/L
NEX:	1.00
# of Acq. Before Pause:	0
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal (L)

SCAN TIMING

Flip Angle:	111.0
TE:	Min Full
Number of Echoes:	1
TR:	774.0
Echo Train Length:	3
Receiver Bandwidth:	35.71

CONTRAST

Contrast Yes/No:	Yes
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OTHERS

Anatomical Region:***Lumbar spine*****SAT**

SAT Location A:	P11.4
Fat/Water Saturation:	Fat

USER CVS

User CV6:	None
User CV9:	None
User CV13:	None
User CV15:	2.00
User CV16:	1.00
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV26:	1.00
User CV29:	None
TR Min:	500.0
TR Max:	850.0

Non-Viewable Parameters

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