

# Thigh/Calf wo or Osteo-Abscess Single SIGNA Premier

## Technical Instructions

**3pl loc SSFSE**

**Cor T1 FSE**

**cor FSTIR**

**Sag T1 FSE**

**Sag FSTIR**

**Ax T1 FSE**

**Ax T2 dkfat**

**--contrast--**

**+C Ax T1dkfat**

**+C Sag T1dkfat**

**+C Cor T1dkfat**

# 3pl loc SSFSE

## 3pl loc SSFSE

### PATIENT POSITION

Coil Configuration:	GE16chTDIAA, GE32chTDIPA
Plane:	3-PLANE

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### IMAGING PARAMETERS

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

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### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

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### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

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### SAT

Tag Spacing:	None
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Tag Type: None

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### **USER CVS**

User CV1: 1.00  
User CV16: None  
User CV Mask2: 0

---

### **DIFFUSION**

Multi b-values: 1000.0;  
Multi NEX Values: 1.0;  
# Synthetic b-values: 1  
Synthetic b-value: 1000.0;  
Recon All Images: On

---

### **SCAN TIMING**

TE: Minimum  
Number of Echoes: 1  
TR: 1000.0  
Receiver Bandwidth: 83.33

---

### **MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0  
Preserve: 0

---

### **SCAN RANGE**

FOV: 48.0  
Slice Thickness: 10.0

Slice Spacing:	10.0
Table Delta:	0.00

---

### **ACQ TIMING**

Freq:	256
Phase:	128
Freq DIR:	Unswap
# of Acq. Before Pause:	0
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Optimized
Excitation Mode:	Selective

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### **CONTRAST**

Contrast Yes/No:	No
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### **TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

### **OTHERS**

Anatomical Region:	Neck, Chest, Abdomen and Pelvis
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# Cor T1 FSE

## Cor T1 FSE

### PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

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### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	PURE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None

---

### **USER CVS**

User CV6: None  
User CV7: None  
User CV8: None  
User CV9: None  
User CV12: 1.00  
User CV15: None  
User CV16: None  
User CV18: None  
User CV21: 1.00  
User CV22: 1.00  
User CV30: 1.00  
User CV Mask2: 0

---

### **DIFFUSION**

# Synthetic b-values: 1  
Synthetic b-value: 1000.0;  
Recon All Images: On

---

### **SCAN TIMING**

Flip Angle: 111  
TE: 20.0  
Number of Echoes: 1  
TR: 617.0  
Echo Train Length: 4  
Receiver Bandwidth: 31.25

---

## GATING/TRIGGER

Auto Trigger Type: Off

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## MULTI-PHASE

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0  
Preserve: 0

---

## SCAN RANGE

FOV: 44.0  
Slice Thickness: 5.0  
Slice Spacing: 2.5  
Table Delta: 0.00

---

## ACQ TIMING

Freq: 320  
Phase: 192  
Freq DIR: Unswap  
NEX: 1.00  
Phase FOV: 1.00  
Auto Shim: Auto  
Phase Correct: On  
RF Drive Mode: Optimized  
Excitation Mode: Selective  
Fat Shift DIR: Normal

---

## CONTRAST

Contrast Yes/No: No

---

**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Neck, Chest, Abdomen and Pelvis



# cor FSTIR

## cor FSTIR

### PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	PURE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None

---

### **USER CVS**

User CV7: None  
User CV8: None  
User CV9: None  
User CV12: 1.00  
User CV15: None  
User CV18: None  
User CV21: 1.00  
User CV22: 1.00  
User CV30: 1.00  
User CV Mask2: 0

---

### **DIFFUSION**

# Synthetic b-values: 1  
Synthetic b-value: 1000.0;  
Recon All Images: On

---

### **SCAN TIMING**

Flip Angle: 125  
TE: 40.0  
Number of Echoes: 1  
TR: 3350.0  
TI: 180  
Echo Train Length: 8  
Receiver Bandwidth: 31.25

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

**MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0  
Preserve: 0

---

**SCAN RANGE**

FOV: 44.0  
Slice Thickness: 5.0  
Slice Spacing: 2.5  
Table Delta: 0.00

---

**ACQ TIMING**

Freq: 320  
Phase: 192  
Freq DIR: Unswap  
NEX: 1.00  
Phase FOV: 1.00  
Auto Shim: Auto  
Phase Correct: On  
RF Drive Mode: Optimized  
Excitation Mode: Selective  
Fat Shift DIR: Normal

---

**CONTRAST**

Contrast Yes/No: No

---

## TRICKS

Pause On/Off: On

Auto Subtract: 0

---

## OTHERS

Anatomical Region: Neck, Chest, Abdomen and Pelvis

# Sag T1 FSE

## Sag T1 FSE

### PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	PURE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None

---

### **USER CVS**

User CV6: None  
User CV7: None  
User CV8: None  
User CV9: None  
User CV12: 1.00  
User CV15: None  
User CV16: None  
User CV18: None  
User CV21: None  
User CV22: 1.00  
User CV30: 1.00  
User CV Mask2: 0

---

### **DIFFUSION**

# Synthetic b-values: 1  
Synthetic b-value: 1000.0;  
Recon All Images: On

---

### **SCAN TIMING**

Flip Angle: 111  
TE: 20.0  
Number of Echoes: 1  
TR: 617.0  
Echo Train Length: 4  
Receiver Bandwidth: 31.25

---

## GATING/TRIGGER

Auto Trigger Type: Off

---

## MULTI-PHASE

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0  
Preserve: 0

---

## SCAN RANGE

FOV: 44.0  
Slice Thickness: 5.0  
Slice Spacing: 2.5  
Table Delta: 0.00

---

## ACQ TIMING

Freq: 320  
Phase: 192  
Freq DIR: Unswap  
NEX: 2.00  
Phase FOV: 0.70  
Auto Shim: Auto  
Phase Correct: On  
RF Drive Mode: Optimized  
Excitation Mode: Selective  
Fat Shift DIR: Normal

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## CONTRAST

Contrast Yes/No: No

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**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Neck, Chest, Abdomen and Pelvis



# Sag FSTIR

## Sag FSTIR

### PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	PURE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None

---

### **USER CVS**

User CV7: None  
User CV8: None  
User CV9: None  
User CV12: 1.00  
User CV15: None  
User CV18: None  
User CV21: 1.00  
User CV22: 1.00  
User CV30: 1.00  
User CV Mask2: 0

---

### **DIFFUSION**

# Synthetic b-values: 1  
Synthetic b-value: 1000.0;  
Recon All Images: On

---

### **SCAN TIMING**

Flip Angle: 125  
TE: 40.0  
Number of Echoes: 1  
TR: 3350.0  
TI: 180  
Echo Train Length: 8  
Receiver Bandwidth: 31.25

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0  
Preserve: 0

---

### **SCAN RANGE**

FOV: 44.0  
Slice Thickness: 5.0  
Slice Spacing: 2.5  
Table Delta: 0.00

---

### **ACQ TIMING**

Freq: 320  
Phase: 192  
Freq DIR: Unswap  
NEX: 2.00  
Phase FOV: 0.70  
Auto Shim: Auto  
Phase Correct: On  
RF Drive Mode: Optimized  
Excitation Mode: Selective  
Fat Shift DIR: Normal

---

### **CONTRAST**

Contrast Yes/No: No

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## **TRICKS**

Pause On/Off: On

Auto Subtract: 0

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## **OTHERS**

Anatomical Region: Neck, Chest, Abdomen and Pelvis

# Ax T1 FSE

## Ax T1 FSE

### PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	PURE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV12:	1.00
User CV15:	None
User CV16:	None
User CV18:	None
User CV21:	None
User CV22:	1.00
User CV30:	1.00
User CV Mask2:	0

---

### **DIFFUSION**

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

---

### **SCAN TIMING**

Flip Angle:	111
TE:	20.0
Number of Echoes:	1
TR:	600.0
Echo Train Length:	4
Receiver Bandwidth:	31.25

---

## GATING/TRIGGER

Auto Trigger Type: Off

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## MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

Preserve: 0

---

## SCAN RANGE

FOV: 20.0

Slice Thickness: 7.0

Slice Spacing: 2.0

Table Delta: 0.00

---

## ACQ TIMING

Freq: 320

Phase: 192

Freq DIR: Unswap

NEX: 2.00

Phase FOV: 1.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Optimized

Excitation Mode: Selective

Fat Shift DIR: Normal

---

## CONTRAST

Contrast Yes/No: No

---

**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Neck, Chest, Abdomen and Pelvis



# Ax T2 dkfat

## Ax T2 dkfat

### PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

---

### IMAGING PARAMETERS

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

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	PURE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
Tag Type:	None

Fat/Water Saturation: Fat

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV12:	1.00
User CV13:	1.00
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV30:	1.00
User CV Mask2:	0

---

### **DIFFUSION**

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

---

### **SCAN TIMING**

Flip Angle:	111
TE:	85.0
Number of Echoes:	1
TR:	5000.0
Echo Train Length:	17
Receiver Bandwidth:	41.67

---

## GATING/TRIGGER

Auto Trigger Type: Off

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## MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

Preserve: 0

---

## SCAN RANGE

FOV: 20.0

Slice Thickness: 7.0

Slice Spacing: 2.0

Table Delta: 0.00

---

## ACQ TIMING

Freq: 320

Phase: 192

Freq DIR: Unswap

NEX: 2.00

Phase FOV: 1.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Optimized

Excitation Mode: Selective

Fat Shift DIR: Normal

---

## CONTRAST

Contrast Yes/No: No

---

**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Neck, Chest, Abdomen and Pelvis

# --contrast--

## --contrast--

### PATIENT POSITION

Plane:	3-PLANE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	Seq, Fast, SS

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type: None

---

### **USER CVS**

User CV1: 1.0  
User CV2: 240.00  
User CV13: 1.00  
User CV15: None  
User CV Mask2: 0

---

### **DIFFUSION**

Recon All Images: On

---

### **SCAN TIMING**

TE: Minimum  
TR: Minimum  
Receiver Bandwidth: 83.33

---

### **GATING/TRIGGER**

Auto Trigger Type: Off

---

### **MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0

---

### **SCAN RANGE**

FOV: 48.0  
Slice Thickness: 10.0  
Slice Spacing: 10.0

Table Delta: 0.00

---

### ACQ TIMING

Freq: 256  
Phase: 128  
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

---

### CONTRAST

Contrast Yes/No: No

---

### TRICKS

Pause On/Off: On  
Auto Subtract: 0

---

### OTHERS

Anatomical Region: Neck, Chest, Abdomen and Pelvis

# +C Ax T1dkfat

## +C Ax T1dkfat

### PATIENT POSITION

Coil Configuration: GE16chTDIAA, GE32chTDIPA  
Plane: OBLIQUE

---

### IMAGING PARAMETERS

Imaging Mode: 2D  
Pulse Sequence: FSE-XL  
Imaging Options: TRF, Fast, ZIP512

---

### Image Recon

Intensity Filter: None  
Intensity Correction: PURE

---

### FMRI

Brain Wave Real Time: None  
PSD Trigger: Internal  
Slice Order: Interleaved  
View Order: Bottom/Up  
# of Repetitions REST: 0  
# of Repetitions ACTIVE: 0

---

### SAT

Tag Spacing: None



Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV12:	1.00
User CV13:	1.00
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV30:	1.00
User CV40:	None
User CV41:	5.00
User CV Mask2:	0

---

### **DIFFUSION**

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

---

### **SCAN TIMING**

Flip Angle:	111
TE:	20.0

Number of Echoes:	1
TR:	750.0
Echo Train Length:	4
Receiver Bandwidth:	31.25

---

### **GATING/TRIGGER**

Auto Trigger Type:	Off
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---

### **MULTI-PHASE**

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0
Preserve:	0

---

### **SCAN RANGE**

FOV:	20.0
Slice Thickness:	7.0
Slice Spacing:	2.0
Table Delta:	0.00

---

### **ACQ TIMING**

Freq:	320
Phase:	192
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	0.70
Auto Shim:	Auto
Phase Correct:	On

RF Drive Mode:	Optimized
Excitation Mode:	Selective
Fat Shift DIR:	Normal

---

### **CONTRAST**

Contrast Yes/No:	Yes
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---

### **TRICKS**

Pause On/Off:	On
Auto Subtract:	0

---

### **OTHERS**

Anatomical Region:	Neck, Chest, Abdomen and Pelvis
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# +C Sag T1dkfat

## +C Sag T1dkfat

### PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	PURE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV12:	1.00
User CV13:	1.00
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV30:	1.00
User CV Mask2:	0

---

### **DIFFUSION**

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

---

### **SCAN TIMING**

Flip Angle:	111
TE:	20.0
Number of Echoes:	1
TR:	850.0

Echo Train Length:	4
Receiver Bandwidth:	31.25

---

### **GATING/TRIGGER**

Auto Trigger Type:	Off
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---

### **MULTI-PHASE**

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0
Preserve:	0

---

### **SCAN RANGE**

FOV:	44.0
Slice Thickness:	5.0
Slice Spacing:	2.5
Table Delta:	0.00

---

### **ACQ TIMING**

Freq:	320
Phase:	192
Freq DIR:	Unswap
NEX:	2.00
Phase FOV:	0.60
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Optimized
Excitation Mode:	Selective

Fat Shift DIR: Normal

---

**CONTRAST**

Contrast Yes/No: Yes

---

**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Neck, Chest, Abdomen and Pelvis

# +C Cor T1dkfat

## +C Cor T1dkfat

### PATIENT POSITION

Plane:	OBLIQUE
Coil Configuration:	GE16chTDIAA, GE32chTDIPA

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512

---

### Image Recon

Intensity Filter:	None
Intensity Correction:	PURE

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV12:	1.00
User CV13:	1.00
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV22:	1.00
User CV30:	1.00
User CV Mask2:	0

---

### **DIFFUSION**

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

---

### **SCAN TIMING**

Flip Angle:	111
TE:	20.0
Number of Echoes:	1
TR:	775.0

Echo Train Length:	4
Receiver Bandwidth:	31.25

---

### **GATING/TRIGGER**

Auto Trigger Type:	Off
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---

### **MULTI-PHASE**

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0
Preserve:	0

---

### **SCAN RANGE**

FOV:	44.0
Slice Thickness:	5.0
Slice Spacing:	2.5
Table Delta:	0.00

---

### **ACQ TIMING**

Freq:	320
Phase:	192
Freq DIR:	Unswap
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Optimized
Excitation Mode:	Selective

Fat Shift DIR: Normal

---

**CONTRAST**

Contrast Yes/No: Yes

---

**TRICKS**

Pause On/Off: On

Auto Subtract: 0

---

**OTHERS**

Anatomical Region: Neck, Chest, Abdomen and Pelvis