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o.1.1 High Speed Stability (HSS)

<u>SCAN OPTION</u>	<u>INPUT</u>		
<u>PATIENT REGISTER .</u>	[New Pt]		
<u>PATIENT INFORMATION</u>			
Patient Id	geservice		
Patient Name	hss		
Weight (Lb)	111		
	[Landmark]		
Landmark	[>] [Nasion]		
<u>PATIENT PROTOCOLS</u>	[Patient Position]		
<u>PATIENT POSITION</u>			
Patient Position	[>] [Supine]		
Patient Entry	[>] [Head First]		
Coil	[...] [Head] [Accept]		
<u>IMAGING PARAMETERS</u>			
Plane	[>] [Axial]		
Mode	[>] [2D]		
Pulse Seq	[...] [Spin Echo] [Accept]		
Imaging Options	none (default)		
Psd Name	hss		
Protocol	no entry		
<u>ADDITIONAL PARAMETERS [USER CVs]</u>			
<u>USER CONTROL VARIABLES</u>			
	0:45 Hz 1:4± Line Freq	0	(0 to 1)
	Number of Scan Passes	5	(5 to 10)
	[Accept]		
<u>(lowest window)</u>	[Save Series]		

o.3.1 Spike Noise (Head Axial, A/P)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	spike noise test
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Gradient Echo] [Accept]
Imaging Options	[...] [Sequential]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[10]
TR.	[20]
Flip Angle	[10]
Bandwidth	[15.63]

SCANNING RANGE

FOV	[24]
Slice Thickness	[5]
Spacing	[1.5]
S/I Start	[160]
S/I End	[S60]
# of Slices	20 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[1] (1:45)
# of Locs Before Pause	0
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]
[Research Operations]	[Setup Params]
R1	11
R2	15
TG	0
Number of Frames	2
	[Done]

o.3.2 Spike Noise (Head Axial, R/L)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Press right mouse button, then [Copy Series], [Paste Series]. Double-click left mouse button on new series to activate it. See Note

<u>ACQUISITION TIMING</u>	
Freq Dir	[>] [R/L]

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: Only values different from previous series shown. All other values should be the same as the previous series

o.3.3 Spike Noise (Head Sagittal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Press right mouse button, then [Copy Series], [Paste Series]. Double-click left mouse button on new series to activate it. See Note

IMAGING PARAMETERS

Plane **[>] [Sagittal]**

SCANNING RANGE

R/L Start **[R60]**

R/L End **[L60]**

P/A Center 0 (default)

I/S Center 0 (default)

ACQUISITION TIMING

Freq Dir **[>] [A/P]**

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: Only values different from previous series shown. All other values should be the same as the previous series

o.3.4 Spike Noise (Head Coronal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note

IMAGING PARAMETERS

Plane	[>] [Coronal]
-------	-------------------------

SCANNING RANGE

A/P Start	[P60]
A/P End	[A60]
S/I Center	0 (default)
R/L Center	0 (default)

ACQUISITION TIMING

Freq Dir	[>] [R/L]
----------	---------------------

(<u>lowest window</u>)	[Save Series]
--------------------------	----------------------

<u>RX MANAGER</u>	[Prepare to Scan]
-------------------	--------------------------

Note: Only values different from previous series shown. All other values should be the same as the previous series

o.3.5 Spike Noise (Body Coronal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Press right mouse button, then [Copy Series], [Paste Series]. Double-click left mouse button on new series to activate it. See Note
<u>PATIENT POSITION</u>	
Coil	[...] [Bodyd] [Accept]
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series

o.3.6 Spike Noise (Body Sagittal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
<u>SCANNING RANGE</u>	
R/L Start	[R60]
R/L End	[L60]
P/A Center	0 (default)
I/S Center	0 (default)
<u>ACQUISITION TIMING</u>	
Freq Dir	[>] [S/I]
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series

o.3.7 Spike Noise (Body Axial, R/L)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
<u>SCANNING RANGE</u>	
S/I Start	[I60]
S/I End	[S60]
L/R Center	0 (default)
P/A Center	0 (default)
<u>ACQUISITION TIMING</u>	
Freq Dir	[>] [R/L]
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series

o.3.8 Spike Noise (Body Axial, A/P)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Press right mouse button, then [Copy Series], [Paste Series]. Double-click left mouse button on new series to activate it. See Note
<u>ACQUISITION TIMING</u>	
Freq Dir	[>] [A/P]
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series

o.6.1 TPS/RF Waveform

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	rf waveforms
Weight (Lb)	300
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	pcal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1
TE	[25]
TR	[200]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	0
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[1] (0:28)
Freq Dir	[>] [R/L]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.7.1 Head EPIWP Base Z

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	epiwp head z
Weight (Lb))	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Coronal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [EPI]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Shots	[8]
TE	[Min Full]
TR	[6000]
Band Width	[62.50]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[10]
A/P Start	[P20]
A/P End	[A20]
# of Slices	3 (default)
S/I Center	0 (default)
R/L Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[128]
Phase	[64]
NEX	[1] (0:06)
Phase FOV	1.00 (default)
Freq Dir	[>] [S/I]
Auto Center Freq	[>] [Water]

(lowest window) **[Save Series]**

o.8.1 Head EPIWP Base Y

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	epiwp head y
Weight (Lb))	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [EPI]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Shots	[8]
TE	[Min Full]
TR	[6000]
Band Width	[62.50]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[10]
R/L Start	[L20]
R/L End	[R20]
# of Slices	3 (default)
P/A Center	0 (default)
I/S Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[128]
Phase	[64]
NEX	[1] (0:06)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Water]

(lowest window) **[Save Series]**

o.9.1 Head EPIWP Base X

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	epiwp head x
Weight (Lb))	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [EPI]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Shots	[8]
TE	[Min Full]
TR	[6000]
Band Width	[62.50]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[10]
S/I Start	[120]
S/I End	[S20]
# of Slices	3 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[128]
Phase	[64]
NEX	[1] (0:06)
Phase FOV	1.00 (default)
Freq Dir	[>] [R/L]
Auto Center Freq	[>] [Water]

(lowest window) **[Save Series]**

o.10.1 DD/TR Board

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	dd/tr check
Weight (Lb))	300
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[200]
Bandwidth	15.63 (1.0T only)
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	0
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[2] (0:52)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

o.11.1 Body T/R Check

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	body tr check
Weight (Lb))	300
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[150]
Bandwidth	15.63 (1.0T only)
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[10]
Spacing	0
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[2] (0:39)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

o.11.2 Head T/R Check

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	head tr check
Weight (Lb))	300
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[150]
Band Width	15.63 (1.0T only)
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[10]
Spacing	0
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[2] (0:39)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

o.12.1 Head Slice Thickness (2D, 3mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	head slice thick
Weight (Lb))	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[300]
Bandwidth	[7.81] (1.0T only)
<u>SCANNING RANGE</u>	
FOV	[20]
Slice Thickness	[3]
Spacing	[77]
S/I Start	[180]
S/I End	[S80]
# of Slices	3 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[4]
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

o.12.2 Head Slice Thickness (2D, 5mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button On new series to activate it. See Note 1

IMAGING PARAMETERS

Imaging Options	none
-----------------	------

SCAN TIMING

TE	[Min Full]
TR	[800]
Bandwidth	[15.63]

SCANNING RANGE

Slice Thickness	[5]
Spacing	[75]

ACQUISITION TIMING

NEX	[4]
-----	------------

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: 1. Only values different from previous series shown. All other values should be the same as the previous series.

o.12.3 Head Slice Thickness (2D, 10mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note 1
<u>SCANNING RANGE</u>	
Slice Thickness	[10]
Spacing	[70]
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: 1. Only values different from previous series shown. All other values should be the same as the previous series.

o.12.4 Head Slice Thickness (2D, Grad Echo, 5mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note 1
<u>IMAGING PARAMETERS</u>	
Pulse Seq	[...] [Gradient Echo] [Accept]
<u>SCAN TIMING</u>	
TE	[9]
TR	[100]
Flip Angle	[30]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
Slice Thickness	[5]
Spacing	[77]
S/I Start	0
S/I End	0
# of Slices	1
<u>ACQUISITION TIMING</u>	
Phase	[128]
NEX	[1] (0:16)
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: 1. Only values different from previous series shown. All other values should be the same as the previous series.

o.12.5 Head Slice Thickness (3D, Localizer)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note 1

IMAGING PARAMETERS

Plane	[>] [Sagittal]
Imaging Options	none

SCAN TIMING

TR	[50]
----	-------------

SCANNING RANGE

FOV	[24]
Spacing	[1.5]

ACQUISITION TIMING

Freq Dir	[>] [S/I]
----------	---------------------

<u>(lowest window)</u>	[Save Series]
------------------------	----------------------

<u>RX MANAGER</u>	[Prepare to Scan]
-------------------	--------------------------

Note: Only values different from previous series are shown. All other values should be the same as the previous series.

o.12.6 Head Slice Thickness (3D, Grad Echo, 1.5mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it

IMAGING PARAMETERS

Plane	[>] [Axial]
Mode	[>] [3D]
Pulse Seq	[...] [Gradient Echo] [Accept]

SCAN TIMING

TR	[34]
Bandwidth	[15.63]
TE	[9]
Flip Angle	[30]

SCANNING RANGE

Slice Thickness	[1.5]
# of Slices	[28]

ACQUISITION TIMING

Freq Dir	[>] [A/P]
<u>(lowest window)</u>	[Save Series]

<u>RX MANAGER</u>	[Prepare to Scan]
-------------------	--------------------------

Note: Only values different from previous series are shown. All other values should be the same as the previous series.

o.13.1 SNR Check (Body, Axial)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	body snr
Weight (Lb)	111
	[Landmark]
Landmark	[Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[20]
TR	[2000]
<u>SCANNING RANGE</u>	
FOV.	[48]
Slice Thickness.	[3]
Spacing	[1.5]
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[1] (8:52)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]
 (lowest window)	 [Save Series]

o.13.2 SNR Check (Body, Sagittal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note.

IMAGING PARAMETERS

Plane **[>] [Sagittal]**

SCANNING RANGE

R/L Start **0**
R/L End **0**
P/A Center 0 (default)
I/S Center 0 (default)

ACQUISITION TIMING

Freq Dir **[>] [S/I]**

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.13.3 SNR Check (Body, Coronal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note.

IMAGING PARAMETERS

Plane **[>] [Coronal]**

SCANNING RANGE

A/P Start **[SEE PROCEDURE]**

A/P End **[SEE PROCEDURE]**

S/I Center 0 (default)

R/L Center 0 (default)

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.13.4 SNR Check (Head, Axial)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	head snr
Weight (Lb)	111
	[Landmark]
Landmark	[Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[20]
TR	[2000]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[3]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[1] (8.52)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

o.13.5 SNR Check (Head, Sagittal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note

IMAGING PARAMETERS

Plane **[>] [Sagittal]**

SCANNING RANGE

R/L Start **0**
 R/L End **0**
 P/A Center 0 (default)
 I/S Center 0 (default)

ACQUISITION TIMING

Freq Dir **[>] [S/I]**

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.13.6 SNR Check (Head, Coronal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Coronal]
<u>SCANNING RANGE</u>	
A/P Start	[SEE PROCEDURE]
A/P End	[SEE PROCEDURE]
S/I Center	0 (default)
R/L Center	0 (default)
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.15.1 Slice Offset (2D, 3mm, Table 50mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	head slice thick
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [SpinEcho] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[300]
Bandwidth	15.63 (1.0T only)
<u>SCANNING RANGE</u>	
FOV	[20]
Slice Thickness	[3]
Spacing	[97]
I/S Start	I50
I/S End	S50
# of Slices	2 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	50

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[2] (2:35)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.15.2 Slice Offset (2D, 3mm, Table –50mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note
<u>SCANNING RANGE</u>	
Table Delta	[-50]
(<u>lowest window</u>)	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.15.3 Slice Offset (3D, Grad Echo Localizer)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
Pulse Seq	[...] [Gradient Echo] [Accept]
<u>SCAN TIMING</u>	
TE	[9]
TR	[50]
Flip Angle	[30]
Bandwidth	[15.63]
<u>SCANNING RANGE</u>	
Slice Thickness	[5]
Spacing	[1.5]
R/L Start	0
R/L End	0
# of Slices	1
P/A Center	0 (default)
I/S Center	0 (default)
Table Delta	0.00 (default)
<u>ACQUISITION TIMING</u>	
Phase	[128]
NEX	[1] (0:10)
Freq Dir	[>] [S/I]
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.15.4 Slice Offset (3D, Grad Table 50mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [3D]
<u>SCAN TIMING</u>	
TR	[34]
<u>SCANNING RANGE</u>	
Slice Thickness	[3]
# of Slices	[60]
Table Delta	[50]
<u>ACQUISITION TIMING</u>	
Freq Dir	[>] [A/P]
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.15.5 Slice Offset (3D, Grad Table –50mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	Place cursor in Series list area Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note
<u>SCANNING RANGE</u>	
Table Delta	[-50]
(<u>lowest window</u>)	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.16.1 RFT Body Scan

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	rft
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [SpinEcho] [Accept]
Imaging Options	none (default)
Psd Name	rft
Protocol	no entry
<u>ADDITIONAL PARAMETERS [USER CVs]</u>	
<u>USER CONTROL VARIABLES</u> (Refer to procedure for proper User CV values.)	
<u>(lowest window)</u>	[Save Series]

o.16.2 RFT Head Scan

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	rft
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [SpinEcho] [Accept]
Imaging Options	none (default)
Psd Name	rft
Protocol	no entry
<u>ADDITIONAL PARAMETERS [USER CVs]</u>	
<u>USER CONTROL VARIABLES</u> (Refer to procedure for proper User CV values.)	
<u>(lowest window)</u>	[Save Series]

o.17.1 Body F/R Quadrature

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	body f/r quad
Weight (Lb))	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [EDR]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[92]
Band Width	[15.63]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[2] (0:43)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.17.2 Head F/R Quadrature

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	hd f/r quad
Weight (Lb))	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [EDR]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[92]
Bandwidth	[15.63]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[10]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[2] (0:43)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.18.1 Dummy Load

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	dummy load cal
Weight (Lb))	300
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	cal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[200]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	0
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq **[256]**
 Phase **[128]**
 NEX **[2]** (0:52)
 Freq Dir **[>] [R/L]**
 Auto Center Freq **[>] [Peak]**

(lowest window) **[Save Series]**

[Research Operations], [Display CVs]

Modify the following:

Calmode **2** (trapezoid pulse)
 p2_ramp **1** (1 µsec ramptime)
 t2 **50000** (50 msec tr)
 pismode **1** (exec service)
 pmode **1** (data collection)
 daqm **1** (data collection)

[Accept]

[Research Operations] [Setup Params]

R1 **7**
 R2 **14**
 Number of Frames **[2]**
 Window 1
 Frame **1** + Frame **0**

[Done]

[Manual Prescan]

Windows (From Menu Bar) **2**
 Window Type **I Channel**
[Done]

o.19.1 LVShim (Localizer)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	LV shim
Weight (Lb))	300
	[Landmark]
Landmark	[>] [Sternal]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Coronal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[20]
TR	[300]
Bandwidth	[15.63] (1.0T only)
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
S/I Center	0 (default)
R/L Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[1] (1:23)
Phase FOV	1.00 (default)
Freq Dir	[>] [S/I]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.19.2 LVShim Scan

SCAN OPTION INPUT

PATIENT REGISTER . **[New Pt]**

PATIENT POSITION

Patient Position **[>] [Supine]**

Patient Entry **[>] [Head First]**

Coil **[...] [Body] [Accept]**

Series Description Note 1

IMAGING PARAMETERS

Plane **[>] [Axial]**

Mode **[>] [2D]**

Pulse Seq **[...] [Spin Echo] [Accept]**

Imaging Options none (default)

Psd Name **LVshim**

Protocol no entry

ADDITIONAL PARAMETERS [USER CVs]

USER CONTROL VARIABLES

No. of scan planes **[6]** [2.0 to 16.0]

Bandwidth in Hz **[Note 2]** [100.0 to 20000.0]

[Accept]

(lowest window) **[Save Series]**

Note 1: Refer to procedure for description name to use.

Note 2: Refer to procedure for proper Bandwidth to use.

o.20.1 First Image

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	first image
Weight (Lb))	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	[1] (default)
TE	[20]
TR	[400]
Band Width	[15.63] (1.0T only)
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[10]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[2] (3:26)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]
(<u>lowest window</u>)	[Save Series]

o.21.1 T2 Uniformity (Body, Axial)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	body T2
Weight (Lb))	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	[4]
TE	[30]
TR	[1000]
BW	[15.63]
BW2	[15.63]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[1] (2:20)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

o.21.2 T2 Uniformity (Body, Sagittal)

RX MANAGER Place cursor in Series list area.
 Press right mouse button, then
 [Copy Series], [Paste Series].
 Double-click left mouse button
 on new series to activate it.
 See Note

IMAGING PARAMETERS

Plane **[>] [Sagittal]**

SCANNING RANGE

R/L Start **0**
 R/L End **0**
 P/A Center 0 (default)
 I/S Center 0 (default)

ACQUISITION TIMING

Freq Dir **[>] [S/I]**

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.21.3 T2 Uniformity (Body/Head, Coronal)

RX MANAGER Place cursor in Series list area.
 Press right mouse button, then
 [Copy Series], [Paste Series].
 Double-click left mouse button
 on new series to activate it.
 See Note

IMAGING PARAMETERS

Plane **[Coronal]**

SCANNING RANGE

A/P Start see procedure
 A/P End see procedure
 S/I Center 0 (default)
 R/L Center 0 (default)

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.22.1 Isocenter Cal (DQA-III)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	iso cal
Weight (Lb))	111
	[Landmark]
Exam Description	dqa iso cal (see Note 1)
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[300]
Bandwidth	[15.63]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[3.0]
Spacing	[1.5]
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[512]
Phase	[256]
NEX	[1] (1:20)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

Note 1: The Exam Description name must be exact because it is used by the automated analysis tool (Daily Quality).

o.23.1 Head Power Monitor

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	head pm
Weight (Lb))	300 ← IMPORTANT
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	cal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[200]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[10]
Spacing	0
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[2] (0:52)
Freq Dir	[>] [R/L]
Auto Center Freq	[>] [Peak]

(lowest window) **Save Series]**

o.23.2 Body Power Monitor

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	body pm
Weight (Lb))	300 ← IMPORTANT
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	cal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[200]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[10]
Spacing	0
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[2] [R/L]
Auto Center Freq	[>] [Peak]

(lowest window) **Save Series]**

[Research Operations], [Display CVs]

Modify the following:

dcset	255
t3	20000
	[Accept]

o.23.3 Amp Shutdown Verification

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	pm check
Weight (Lb)	300 ← <i>IMPORTANT</i>
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	cal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[200]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[10]
Spacing	0
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq. [256]
 Phase [128]
 NEX [2] (0:52)
 Freq Dir [>] [R/L]
 Auto Center Freq. [>] [Peak]

(lowest window) [Save Series]

[Research Operations], [Display CVs]

Modify the following:

dcset 255
 aset 30
 calmode 2
 trig 1

For RF/PEN Cabinet only, modify the following additional CVs:

pwset 255
 aset 120
 p1 3100
 p3 2400

[Accept]

o.24.1 System Gain Cal (Body)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	bd sys gain
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[21]
TR	[700]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[5]
Spacing	[1.5]
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[128]
NEX	[1] (1:38)
Phase FOV	1.00 (default)
Freq Dir	[>] [R/L]
Auto Center Freq.	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.24.2 System Gain Cal (Head)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	hd sys gain
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[700]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[128]
NEX	[1] (1:38)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq.	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[1]
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.25.2 Pin Diode Test (Body)

SCAN OPTION INPUT

PATIENT REGISTER **[New Pt]**

PATIENT INFORMATION

Patient Id **geservice**

Patient Name **tlt body**

Weight (Lb) **111**

[Landmark]

Landmark **[>] [Sternal Notch]**

PATIENT PROTOCOLS **[Patient Position]**

PATIENT POSITION

Patient Position **[>] [Supine]**

Patient Entry **[>] [Head First]**

Coil **[...] [Body] [Accept]**

IMAGING PARAMETERS

Plane **[>] [Axial]**

Mode **[>] [2D]**

Pulse Seq **[...] [Spin Echo] [Accept]**

Imaging Options none (default)

Psd Name **tlt**

Protocol no entry

ADDITIONAL PARAMETERS **[USER CVs]**

USER CONTROL VARIABLES

Shim Test: 0=off, 1=on **0** [0 to 1]

GraImage: 1=ax,2=sa,3=co,4=all **0** [0 to 4]

SNR/T2 Tests: (-1=noise only) **-1** [-1 to 4]

TRMap: 0=off,1=ax,2=sag,3=cor **0** [0 to 3]

Stability: 1=Z,2=X,3=Y,4=all **0** [0 to 4]

Run GradCal Test: 0=off, 1=on **0** [0 to 1]

ASC Analysis: 0=off, 1=immediate, 2=queued **0** [0 to 2]

[Accept]

SCANNING RANGE

FOV **[48]**

Slice Thickness **[4]**

Spacing **0**

Start **0**

End **0**

of Slices 1 (default)

L/R Center 0 (default)

P/A Center 0 (default)

Table Delta 0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[128]
NEX	[1]
Freq Dir	[>] [R/L]
Auto Center Freq.	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

(lowest window)

[**Save Series**]

Note 1: You must select proper *Coil/Sample* value as follows: **2** = O/N (original sst coil/NiCl₂ sample), **3** = U/N (universal sst coil/NiCl₂ sample).

o.26.2 SST Body Full Power

<u>SCAN OPTION</u>	<u>INPUT</u>		
<u>PATIENT REGISTER</u>	[New Pt]		
<u>PATIENT INFORMATION</u>			
Patient Id	geservice		
Patient Name	sst body		
Weight (Lb)	111		
	[Landmark]		
Landmark	[>] [Sternal Notch]		
<u>PATIENT PROTOCOLS</u>	[Patient Position]		
<u>PATIENT POSITION</u>			
Patient Position	[>] [Supine]		
Patient Entry	[>] [Head First]		
Coil	[...] [Body] [Accept]		
<u>IMAGING PARAMETERS</u>			
Plane	[>] [Axial]		
Mode	[>] [2D]		
Pulse Seq	[...] [Spin Echo] [Accept]		
Imaging Options	none (default)		
Psd Name	sst		
Protocol	no entry		
<u>ADDITIONAL PARAMETERS [USER CVs]</u>			
<u>USER CONTROL VARIABLES</u>			
Stab: -1=RF, <1,2,3>=<x,y,z>w, w/o Grad, 4=all	[4]		[-1 to 4]
RF S/N: 1=on, -1=Noise only	[1]		[-1 to 1]
RF Linearity: 1=on, 0=off	[1]		[0 or 1]
Grad Bits: 1=on	[1]		[0 or 1]
RF Bits: 1=on	[1]		[0 or 1]
Coil/Sample: 2=O/N, 3=U/N	[See Note 1]		[2 or 3]
Rcv Coil: 1=h, 2=b, 3=s, 4=t	[2]		[1 to 4]
Configcode:	[0]		[-3.40282e+38 to 3.40282e+38]
ASC Analysis: 0=off, 1=immediate, 2=queued	[0]		[0 to 2]
Auto GradAmp Ctrl: 1=on 0=off	[1]		[0 or 1]
	[Accept]		

(lowest window)

[Save Series]

Note 1: You must select proper *Coil/Sample* value as follows: **2** = O/N (original sst coil/NiCl₂ sample), **3** = U/N (universal sst coil/NiCl₂ sample).

(lowest window)

[Save Series]

COIL CHOICES

CTL TOP

[For coil channels 2, 3, 4, 5]

CTL BOT

[For coil channels 6, 7]

o.26.4 SST Solid-state Driver Mode

<u>SCAN OPTION</u>	<u>INPUT</u>		
<u>PATIENT REGISTER</u>	[New Pt]		
<u>PATIENT INFORMATION</u>			
Patient Id	geservice		
Patient Name	sst ss drvr		
Weight (Lb)	111		
	[Landmark]		
Landmark	[>] [Sternal Notch]		
<u>PATIENT PROTOCOLS</u>	[Patient Position]		
<u>PATIENT POSITION</u>			
Patient Position	[>] [Supine]		
Patient Entry	[>] [Head First]		
Coil	[...] [Body] [Accept]		
<u>IMAGING PARAMETERS</u>			
Plane	[>] [Axial]		
Mode	[>] [2D]		
Pulse Seq	[...] [Spin Echo] [Accept]		
Imaging Options	none (default)		
Psd Name	sst		
Protocol	no entry		
<u>ADDITIONAL PARAMETERS [USER CVs]</u>			
<u>USER CONTROL VARIABLES</u>			
Stab: -1=RF, <1,2,3>=<x,y,z>w, w/o Grad, 4=all	[4]		[-1 to 4]
RF S/N: 1=on, -1=Noise only	[1]		[-1 to 1]
RF Linearity: 1=on, 0=off	[1]		[0 or 1]
Grad Bits: 1=on	[0]		[0 or 1]
RF Bits: 1=on	[0]		[0 or 1]
Coil/Sample: 2=O/N, 3=U/N	[3]		[2 or 3]
Rcv Coil: 1=h, 2=b, 3=s, 4=t	[1]		[1 to 4]
Configcode:	[2]		[-3.40282e+38 to 3.40282e+38]
ASC Analysis: 0=off, 1=immediate, 2=queued	[0]		[0 to 2]
Auto GradAmp Ctrl: 1=on 0=off	[0]		[0 or 1]
	[Accept]		
<u>(lowest window)</u>	[Save Series]		

o.26.5 SST True Head Mode

<u>SCAN OPTION</u>	<u>INPUT</u>		
<u>PATIENT REGISTER</u>	[New Pt]		
<u>PATIENT INFORMATION</u>			
Patient Id	geservice		
Patient Name	sst true head		
Weight (Lb)	111		
	[Landmark]		
Landmark	[>] [Sternal Notch]		
<u>PATIENT PROTOCOLS</u>	[Patient Position]		
<u>PATIENT POSITION</u>			
Patient Position	[>] [Supine]		
Patient Entry	[>] [Head First]		
Coil	[...] [Head] [Accept]		
<u>IMAGING PARAMETERS</u>			
Plane	[>] [Axial]		
Mode	[>] [2D]		
Pulse Seq	[...] [Spin Echo] [Accept]		
Imaging Options	none (default)		
Psd Name	sst		
Protocol	no entry		
<u>ADDITIONAL PARAMETERS [USER CVs]</u>			
<u>USER CONTROL VARIABLES</u>			
Stab: -1=RF, <1,2,3>=<x,y,z>w, w/o Grad, 4=all	[4]		[-1 to 4]
RF S/N: 1=on, -1=Noise only	[1]		[-1 to 1]
RF Linearity: 1=on, 0=off	[1]		[0 or 1]
Grad Bits: 1=on	[0]		[0 or 1]
RF Bits: 1=on	[0]		[0 or 1]
Coil/Sample: 2=O/N, 3=U/N	[3]		[2 or 3]
Rcv Coil: 1=h, 2=b, 3=s, 4=t	[1]		[1 to 4]
Configcode:	[0]		[-3.40282e+38 to 3.40282e+38]
ASC Analysis: 0=off, 1=immediate, 2=queued	[0]		[0 to 2]
Auto GradAmp Ctrl: 1=on 0=off	[0]		[0 or 1]
	[Accept]		
<u>(lowest window)</u>	[Save Series]		

o.27.1 RFS Head

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	rfs
Weight (Lb)	300
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	pcal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[500]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	0
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[256]
NEX	[2] (1:43)
Freq Dir	[>] [A/P]
Auto Center Freq.	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.27.2 RFS Body

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	rfs
Weight (Lb)	300
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	pcal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[500]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	0
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[256]
NEX	[2] (1:43)
Freq Dir	[>] [R/L]
Auto Center Freq.	[>] [Peak]
(<u>lowest window</u>)	[Save Series]

o.28.1 Full Field Distortion (Sagittal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	ffd
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[25]
TR.	[300]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[20]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
P/A Center	0 (default)
I/S Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[256]
NEX	[1] (1:23)
Phase FOV	1:00 (default)
Freq Dir	[>] [S/I]
Auto Center Freq.	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.28.2 Full Field Distortion (Coronal Localizer)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	[New Series] (If this procedure is Being performed immediately after The Sagittal series, otherwise click [New Pt])
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[20]
TR.	[150]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[20]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
R/L Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[128]
NEX	[1] (0:24)
Phase FOV	1:00 (default)
Freq Dir	[>] [R/L]
Auto Center Freq.	[>] [Peak]

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

o.28.3 Full Field Distortion (Coronal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u>	[New Series]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Coronal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[25]
TR.	[300]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[20]
Spacing	[1.5]
Start	See procedure
End	See procedure
# of Slices	1 (default)
S/I Center	0 (default)
R/L Center	0 (default)
Table Delta	0.00 (default)
<u>ACQUISITION TIMING</u>	
Freq.	[256]
Phase	[256]
NEX	[1] (1:23)
Phase FOV	1:00 (default)
Freq Dir	[>] [S/I]
Auto Center Freq.	[>] [Peak]
<u>(lowest window)</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

o.29.1 Noise Floor (Head)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	noise floor
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Gradient Echo] [Accept]
Imaging Options	[...] [Sequential]
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[9]
TR.	[20]
Flip Angle	[10]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[256]
NEX	[1] (0:05)
Phase FOV	1:00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq.	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.29.2 Noise Floor (Body)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER .</u>	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series]. Double-click left mouse button On new series to activate it See Note
<u>PATIENT POSITION</u>	
Coil	[...] [Body] [Accept]
<u>(lowest window</u>	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.30.1 Carrier Leakage

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	carrier leak
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Gradient Echo] [Accept]
Imaging Options	[...] [Sequential]
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[16]
TR.	[35]
Flip Angle	[30]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[40]
Slice Thickness	[5]
Spacing	[2.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq.	[256]
Phase	[128]
NEX	[1] (0:05)
Phase FOV	1:00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq.	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.31.1 Respiratory Compensation

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	resp bellows
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [Respiratory Compensation] [Accept]
Psd Name	none
Protocol	no entry

It is not necessary to enter the remainder of scan protocol for this procedure.

o.32.1 Gradcal-X (DQA-III)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	gradcal
Weight (Lb)	111
Extra Description	dqa xfield cal (See Note 1) [Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Coronal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[25]
TR.	[300]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[3]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[512]
Phase	[256]
NEX	[1] (1:20)
Phase FOV	1 (default)
Freq Dir	[>] [R/L]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

Note 1: The Exam Description name must be exact because it is used by the automated analysis tool (Daily Quality).

o.32.2 Gradcal-Y (DQA-III)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	gradcal
Weight (Lb)	111
Exam Description	dqa yfield cal (See Note 1) [Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[25]
TR.	[300]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[3]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[512]
Phase	[256]
NEX	[1] (1:20)
Phase FOV	1 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

Note 1: The Exam Description name must be exact because it is used by the automated analysis tool (Daily Quality).

o.32.3 Gradcal-Z (DQA-III)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	gradcal
Weight (Lb)	111
Exam Description	dqa zfield cal (See Note 1) [Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Coronal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[25]
TR.	[300]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[3]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[512]
Phase	[256]
NEX	[1] (1:20)
Phase FOV	1.00 (default)
Freq Dir	[>] [S/I]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

Note 1: The Exam Description name must be exact because it is used by the automated analysis tool (Daily Quality).

o.33.1 Body EPIWP Base Z

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	epiwp body z
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Coronal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [EPI]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Shots	[8]
TE.	[Min Full]
TR.	[6000]
Bandwidth	[62.50]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[10]
A/P Start	[P20]
A/P End	[A20]
# of Slices	3 (default)
S/I Center	0 (default)
R/L Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[128]
Phase	[64]
NEX	[1] (0:06)
Phase FOV	[1]
Freq Dir	[>] [S/I]
Auto Center Freq	[>] [Water]
 (<u>lowest window</u>)	 [Save Series]

o.34.1 Body EPIWP Base Y

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	epiwp body y
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [EPI]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Shots	[8]
TE.	[Min Full]
TR.	[6000]
Bandwidth	[62.50]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[10]
R/L Start	[L20]
R/L End	[R20]
# of Slices	3 (default)
P/A Center	0 (default)
I/S Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[128]
Phase	[64]
NEX	[1] (0:06)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Water]

(lowest window) **[Save Series]**

o.35.1 Body EPIWP Base X

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	epiwp body x
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	[...] [EPI]
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Shots	[8]
TE.	[Min Full]
TR.	[6000]
Bandwidth	[62.50]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[10]
Spacing	[10]
S/I Start	[120]
S/I End	[S20]
# of Slices	3 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[128]
Phase	[64]
NEX	[1] (0:06)
Freq Dir	[>] [R/L]
Auto Center Freq	[>] [Water]
<u>(lowest window)</u>	[Save Series]

o.36.1 Correlated Noise (256 matrix)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	corr noise
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Gradient Echo] [Accept]
Imaging Options	[...] [Sequential]
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[10]
TR	[20]
Flip Angle	[10]
Bandwidth	[>] 15.63
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[1] (0:05)
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

[Research Operations]	[Setup Params]
R1	11
R2	15
TG	0
Number of Frames	[2]
	[Done]

o.36.2 Correlated Noise (512 matrix)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note
<u>SCAN TIMING</u>	
Bandwidth	[>] 31.25
<u>SCANNING RANGE</u>	
FOV	[20]
<u>ACQUISITION TIMING</u>	
Freq	[512]
<u>(lowest window)</u>	[Save Series]
<u>RX MANGER</u>	[Prepare to Scan]

Note: Only values different from previous series shown. All other values should be the same as the previous series.

o.36.3 Multicoil Correlated Noise

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	mc corr noise
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Phased Array] [CTLMID] or [Pelvic] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Gradient Echo] [Accept]
Imaging Options	[...] [Sequential]
Psd Name	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[10]
TR	[31]
Flip Angle	[10]
Bandwidth	[>] 31.25
<u>SCANNING RANGE</u>	
FOV	[20]
Slice Thickness	[5]
Spacing	[1.5]
Start	0
End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq [512]
 Phase [256]
 NEX [1] (0:06)
 Phase FOV 1.00 (default)
 Freq Dir [>] [A/P]
 Auto Center Freq [>] [Peak]

(lowest window) [Save Series]

[Research Operations] [Setup Params]

R1 11
 R2 15
 TG 0
 Number of Frames [2]

[Done]

[Research Operations] [Display CVs]

CV Name: saveinter <Enter>

Set value to: 1 <Enter> (Note 1)

[Accept]

Note 1: Setting this CV to 1 generates five images for each single multi-coil scan. Images 1 to 4 will correspond to data from Receivers 0 to 3. Therefore, Image 1 is reconstructed from Receiver 0 data. Image 5 is the combined and processed data from all 4 Receivers. This is the same image normally observed when saveinter = 0.

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[1] (0:02)
Phase FOV	1.00 (default)
Freq Dir	[>] [R/L]
Auto Center Freq	[>] [Peak]
Autoshim	no (Verify)
Phase Correct	no (Verify)
 (<u>lowest window</u>)	 [Save Series]

o.37.1 Body Slice Thickness (Sagittal, 3mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	body slice thick
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[300]
Bandwidth	[7.81]
<u>SCANNING RANGE</u>	
FOV	[20]
Slice Thickness	[3]
Spacing	[77]
R/L Start	[R80]
R/L End	[L80]
# of Slices	3 (default)
P/A Center	0 (default)
I/S Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[4]
Phase FOV	1.00 (default)
Freq Dir	[>] [A/P]
Auto Center Freq	[>] [Peak]
 (<u>lowest window</u>)	 [Save Series]

o.37.2 Body Slice Thickness (Sagittal, 5mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it See Note 1
<u>SCANNING RANGE</u>	
Slice Thickness	[5]
Spacing	[75]
<u>(lowest window)</u>	[Save Series]
<u>RX MANGER</u>	[Prepare to Scan]

Note: 1. Only values different from previous series are shown. All other values Should be the same as the previous series.

o.37.3 Body Slice Thickness (Sagittal, 10mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button On new series to activate it See Note 1
<u>SCANNING RANGE</u>	
Slice Thickness	[10]
Spacing	[70]
<u>(lowest window)</u>	[Save Series]
<u>RX MANGER</u>	[Prepare to Scan]

Note: 1. Only values different from previous series are shown. All other values Should be the same as the previous series.

o.37.4 Body Slice Thickness (Localizer)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note

SCANNING RANGE

Slice Thickness	[3]
Spacing	[1.5]
Start	0
End	0
# of Slices	1

AQUISTION TIMING

Freq	[256]
Phase	[128]
NEX	[1]
Phase FOV	1.00 (default)
Freq Dir	[>] [S/I]

(lowest window)	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series are shown. All other values should be the same as the previous series.

o.37.5 Body Slice Thickness (Coronal, 3mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note.

IMAGING PARAMETERS

Plane **[>] [Coronal]**

SCANNING RANGE

Spacing **[77]**

AQUITION TIMING

Freq **[256]**

Phase **[256]**

NEX **[4]**

Phase FOV 1.00 (default)

Freq Dir **[>] [S/I]**

Auto Center Freq **[>] {Peak}**

(lowest window) **[Save Series]**

RX MANAGER **[Prepare to Scan]**

Note: Only values different from previous series are shown. All other values
 Should be the same as the previous series.

o.37.6 Body Slice Thickness (Coronal, 5mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note1.
<u>SCANNING RANGE</u>	
Slice Thickness	[5]
Spacing	[75]
(lowest window)	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note 1: Only values different from previous series are shown. All other values Should be the same as the previous series.

o.37.7 Body Slice Thickness (Coronal, 10 mm)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it See note 1.
<u>SCANNING RANGE</u>	
Slice Thickness	[10]
Spacing	[70]
(lowest window) <u>RX MANAGER</u>	[Save Series] [Prepare to Scan]

Note 1: Only values different from previous series are shown. All other values Should be the same as the previous series.

o.38.1 Geometry Verification (Coronal)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	gradient polarity (See Note 1)
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Coronal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE.	[20]
TR.	[300]
Bandwidth	15.63
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[10]
Spacing	[1.5]
A/P Start	0
A/P End	0
# of Slices	1 (default)
S/I Center	0 (default)
R/L Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[1]
Phase FOV	1:00 (default)
Freq Dir	[>] [S/I]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

Note 1: The Exam Description name must be exact because it is used by the automated analysis tool (Daily Quality).

o.38.2 Geometry Verification (Axial)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>RX MANAGER</u> .	Place cursor in Series list area. Press right mouse button, then [Copy Series], [Paste Series] . Double-click left mouse button on new series to activate it. See Note 1.
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
<u>SCANNING RANGE</u>	
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
<u>ACQUISITION TIMING</u>	
Freq Dir	[>] [R/L]
(lowest window)	[Save Series]
<u>RX MANAGER</u>	[Prepare to Scan]

Note: Only values different from previous series are shown. All other values should be the same as the previous series.

o.39.1 FID Tuning

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	fid
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	4
TE	[20]
TR	[250]
Band Width	[15.63]
Band Width 2	[15.63]
<u>SCANNING RANGE</u>	
FOV	[40]
Slice Thickness	[15]
Spacing	[1.5]
R/L Start	0
R/L End	0
# of Slices	1 (default)
P/A Center	0 (default)
I/S Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[2]
Phase FOV	1.00 (default)
Freq Dir	[>] [S/I]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.40.1 Gradient Waveforms

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	grad
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	[4]
TE	[25]
TR	[1000]
Bandwidth	[15.63]
Bandwidth 2	[15.63]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[5]
Spacing	[1.5]
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[1] (4:28)
Phase FOV	1.00 (default)
Freq Dir	[>] [R/L]
Auto Center Freq	[>] [Peak]
<u>(lowest window)</u>	[Save Series]

o.41.1 Body APB Cal

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	body apb check
Weight (Lb)	300 ← IMPORTANT
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	cal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[55]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	0
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq [256]
 Phase [128]
 NEX [2] (0:52)
 Freq Dir [>] [A/P]
 Auto Center Freq [>] [Peak]

(lowest window) [Save Series]

[Research Operations] [Display CVs]

Modify the following:

Calmode 5 (normal rf sinc normal)
 1a_rf1 32766 (sets 90° pulse full-scale)
 1a_rf2 0 (turns off 180° pulse)

[Accept]

[Research Operations] [Setup Params]

TG 50

[Done]

o.41.2 Head APB Cal

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	head apb check
Weight (Lb)	300 ← IMPORTANT
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Head] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	cal
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	1 (default)
TE	[25]
TR	[55]
<u>SCANNING RANGE</u>	
FOV	[24]
Slice Thickness	[5]
Spacing	0
S/I Start	0
S/I End	0
# of Slices	1 (default)
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq **[256]**
 Phase **[128]**
 NEX **[2]** (0:52)
 Freq Dir **[>] [A/P]**
 Auto Center Freq **[>] [Peak]**

(lowest window) **[Save Series]**

[Research Operations] [Display CVs]

Modify the following:

calmode **5** (normal rf sinc normal)
 1a_rf1 **32766** (sets 90° pulse full-scale)
 1a_rf2 **0** (sets 180° pulse to small-scale)

[Accept]

[Research Operations] [Setup Params]

TG **50**

[Done]

o.42.1 Bandpass Asymmetry Correction Compensation (BACC)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	bacc
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none (default)
Psd Name	bat
Protocol	no entry
<u>(lowest window)</u>	[Save Series]

o.43.1 Center Frequency

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	center frequency
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Sagittal]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none
Psd Name	none
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	[4]
TR	[250]
Bandwidth	[15.00]
Bandwidth2	no entry
<u>SCANNING RANGE</u>	
FOV	[40]
Slice Thickness	[15]
Spacing	[1.5]
R/L Start	0
R/L End	0
# of Slices	1 (default)
P/A Center	0 (default)
I/S Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[256]
NEX	[2]
Phase FOV	1 (default)
Freq Dir	[>] [S/I]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

o.46.1 Spike Noise (C Class)

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER .</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	spike noise
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Sternal Notch]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Body] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Gradient Echo] [Accept]
Imaging Options	[...] [Sequential] [Accept]
Psd Name	no entry
Protocol	no entry
<u>SCAN TIMING</u>	
# of Echoes	[1]
TE	[9]
TR	[33]
Flip Angle	[30]
Bandwidth	[15.63]
<u>SCANNING RANGE</u>	
FOV	[48]
Slice Thickness	[3]
Spacing	[1.5]
S/I Start	[I60]
S/I End	[S60]
# of Slices	[60]
L/R Center	0 (default)
P/A Center	0 (default)
Table Delta	0.00 (default)

ACQUISITION TIMING

Freq	[256]
Phase	[128]
NEX	[1]
Phase FOV	1 (default)
Freq Dir	[>] [R/L]
Auto Center Freq	[>] [Peak]

(lowest window) **[Save Series]**

o.47.1 ECMT

<u>SCAN OPTION</u>	<u>INPUT</u>
<u>PATIENT REGISTER</u>	[New Pt]
<u>PATIENT INFORMATION</u>	
Patient Id	geservice
Patient Name	ecmt
Weight (Lb)	111
	[Landmark]
Landmark	[>] [Nasion]
<u>PATIENT PROTOCOLS</u>	[Patient Position]
<u>PATIENT POSITION</u>	
Patient Position	[>] [Supine]
Patient Entry	[>] [Head First]
Coil	[...] [Surface] [geserviceRcv] [Accept]
<u>IMAGING PARAMETERS</u>	
Plane	[>] [Axial]
Mode	[>] [2D]
Pulse Seq	[...] [Spin Echo] [Accept]
Imaging Options	none
Psd Name	[ecmt1]
Protocol	no entry

It is not necessary to enter the remainder of scan protocol for this procedure.

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
0	August 9, 2000	R. Liu	Update protocols from 8x version to OpenSpeed per bay and target validation