

For PRC use only

Date of approval:

Signature of Chair:

SMIS 3.0T Sequence Description

Sequence name:

Developer:

Date:

Filename:

Location: Full path

Other files: Full paths of other files needed for sequence compilation or execution.

Brief description: Purpose, general characteristics, main features and limitations.

Parent sequence: What sequence it is based upon (if any) and what are the main differences, especially in RF pulses and dB/dt.

RF safety: 1. List and describe all the RF pulses used. 2. Use the standard head phantom, register it with body weight 68kg (150 pounds) in the RF Monitor application window 3. Setup the parameters for the worst-case scenario with respect to SAR (maximum number of slices, maximum flip angle, minimum repetition time, fastest possible measurement repetition) 4. Run the sequence for at least 10 minutes. Select the "Show Data" option from the "Window Menu" of the RF monitor software. The peak forward should be less than 5000 (5KW) and the SAR should also be less than 500 (this value is calibrated to 3 W/Kg). If either is exceeded the RF monitor will disable the RF amplifier. Only the first three digits of the SAR should be reported.

Peak RF Amplitude:

SAR:

Gradient safety: Has the dB/dt protection software been included in the sequence ?
If not then please describe gradients with potentially high dB/dt.

Parameter meanings, limits and defaults:

- BW
- Matrix
- Alpha (what pulses it affects)
- TR, TI, TE
- FOV, RFOV
- Others if they are important for the sequence

Usage notes: Anything else that may be important for the users.

Appendices: 1. Complete sequence code listing. 2. Listing of all scripting code if there is any. 3. Sequence diagram.