```
ADNI ,   ADNI_SH ,    SURVEY


Geometry
Coil selection            = SENSE-head
      coil mode           = SENSE
      connection          = d
Multi coil                = no
Homogeneity correction    = none
CLEAR                     = no
FOV (mm)                  = 250.00
RFOV (%)                  = 100.00
Foldover suppression      = no
Matrix scan               = 256
        reconstruction    = 256
Scan percentage (%)       = 50.00
SENSE                     = no
Stacks                    = 3
    current               = A
    type                  = parallel
    slices                = 3
    slice thickness (mm)  = 10.00
    slice gap             = user defined
        gap (mm)          = 10.00
    slice orientation     = sagittal
    foldover direction    = AP
    fat shift direction   = F
    use geometry          = none
Slice scan order          = default
Stack scan order          = ascend
Move table per stack      = no
Stack alignment           = no
Stack display order       = no
PlanAlign                 = no
REST slabs                = 0
Catheter tracking         = no
Interactive positioning   = no
Allow table movement      = no
Patient position          = head first
        orientation       = supine


Contrast
Scan mode                 = M2D
    technique             = FFE
Contrast enhancement      = T1
Acquisition mode          = cartesian
Fast Imaging mode         = TFE
    shot mode             = multi-shot
TFE factor                = 42
    startup echoes        = default
    shot interval         = shortest
    profile order         = linear
Echoes                    = 1
    partial echo          = no
    shifted echo          = no
TE                        = shortest
Flip angle (deg)          = 20.00
TR                        = user defined
```

```
       (ms)                     = 15.00
Half Scan                       = no
Water fat shift                 = maximum
Shim                            = no
SPIR                            = no
SPAIR                           = no
TFE prepulse                    = invert
     slice selection            = no
     shared                     = no
     delay                      = shortest
ProSet                          = no
MTC                             = no
T2prep                          = no
Research prepulse               = no
diffusion mode                  = no
SAR mode                        = high
B1 mode                         = default
gradient mode                   = regular
SofTone mode                    = no

Motion
Cardiac synchronisation         = no
Respiratory compensation        = no
Navigator respiratory comp      = no
Flow compensation               = no
fMRI echo stabilisation         = no
NSA                             = 1

Dyn/ang
Angio                           = no
Quantitative flow               = no
Manual start                    = no
Dynamic study                   = no
Flow labelling                  = none

Postproc
Preparation phases              = auto
B0 field map                    = no
MIP/MPR                         = no
Images                          =
       0: M  no   no   no
Autoview image                  = M
Reference tissue                = White matter
Preset window contrast          = soft
Reconstruction mode             = immediate
Save raw data                   = no
Push to workstation             = no
Hardcopy protocol               = no
Ringing filtering               = no

Offc/ang
Stacks                          = 3
     current                    = A
Stack Offc. AP (P=+mm)          = -20.00
           RL (L=+mm)           = 0.00
           FH (H=+mm)           = 0.00
     Ang.  AP (deg)             = 0.00
```

```
            RL (deg)             = 0.00
            FH (deg)             = 0.00

Info
SAR (W/kg) / SAR level       = 0.3 / 0
Total scan duration          = 00:17.4
Measured voxel size       M / P / S (mm) = 0.98 / 1.98 / 10.0
Reconstructed voxel size  M / P / S (mm) = 0.98 / 0.98 / 10.0
Actual scan percentage (%)   = 49.2
TFE shots                    = 3
TFE shot duration (ms) / TFE acq duration (ms) = 697.1 / 630.0
TFE shot interval (ms)       = 697.1
Minimum prepulse TI delay    = 372.8
Act. Water fat shift (pixels) / Act. BW per pixel (Hz) = 1.161 / 187.1
Min. Water fat shift (pixels) / Max. BW per pixel (Hz) = 0.522 / 415.8
Act. TR / TE (ms)            = 15 / 5.2
Min. TR / TE (ms)            = 10 / 5.2
Relative signal level RSL (%) = 100.0
```

```
ADNI ,   ADNI_SH ,   Ref/SHC


Geometry
Coil mode                    = SENSE
Coil connection              = d
Foldover suppression         = no
Stack Offc. AP (P=+mm)       = 0.00
           RL (L=+mm)        = 0.00
           FH (H=+mm)        = 0.00
Patient position             = head first
       orientation           = supine
Respiratory compensation     = no
NSA                          = 3
Manual start                 = no


Contrast
Coil mode                    = SENSE
Coil connection              = d
Foldover suppression         = no
Stack Offc. AP (P=+mm)       = 0.00
           RL (L=+mm)        = 0.00
           FH (H=+mm)        = 0.00
Patient position             = head first
       orientation           = supine
Respiratory compensation     = no
NSA                          = 3
Manual start                 = no


Motion
Coil mode                    = SENSE
Coil connection              = d
Foldover suppression         = no
Stack Offc. AP (P=+mm)       = 0.00
           RL (L=+mm)        = 0.00
           FH (H=+mm)        = 0.00
Patient position             = head first
       orientation           = supine
Respiratory compensation     = no
NSA                          = 3
Manual start                 = no


Dyn/ang
Coil mode                    = SENSE
Coil connection              = d
Foldover suppression         = no
Stack Offc. AP (P=+mm)       = 0.00
           RL (L=+mm)        = 0.00
           FH (H=+mm)        = 0.00
Patient position             = head first
       orientation           = supine
Respiratory compensation     = no
NSA                          = 3
Manual start                 = no


Postproc
Coil mode                    = SENSE
Coil connection              = d
```

```
Foldover suppression        = no
Stack Offc. AP (P=+mm)       = 0.00
           RL (L=+mm)        = 0.00
           FH (H=+mm)        = 0.00
Patient position            = head first
       orientation          = supine
Respiratory compensation    = no
NSA                         = 3
Manual start                = no

Offc/ang
Coil mode                   = SENSE
Coil connection             = d
Foldover suppression        = no
Stack Offc. AP (P=+mm)       = 0.00
           RL (L=+mm)        = 0.00
           FH (H=+mm)        = 0.00
Patient position            = head first
       orientation          = supine
Respiratory compensation    = no
NSA                         = 3
Manual start                = no

Info
SAR (W/kg) / SAR level       = 0.3 / 0
Total scan duration          = 00:50.6
Measured voxel size      M / P / S (mm) = 4.69 / 6.00 / 6.00
Reconstructed voxel size  M / P / S (mm) = 4.69 / 4.69 / 3.00
Actual scan percentage (%)  = 78.1
Number of packages          = 1
Act. Water fat shift (pixels) / Act. BW per pixel (Hz) = 0.110 / 1973.9
Min. Water fat shift (pixels) / Max. BW per pixel (Hz) = 0.083 / 2604.2
Act. TR / TE (ms)           = 8.0 / 0.81
Relative signal level RSL (%) = 100.0
```

```
ADNI ,   ADNI_SH ,    MPRAGE_ASO (and MPRAGE_ASO_repeat)


Geometry
Coil selection                = SENSE-head
     coil mode                = SENSE
     connection               = d
FOV (mm)                      = 240.00
RFOV (%)                      = 100.00
Foldover suppression          = no
Matrix scan                   = 192
       reconstruction         = 256
Scan percentage (%)           = 100.00
SENSE                         = yes
    P reduction (AP)          = 1.00
    S reduction (RL)          = 1.00
Overcontiguous slices         = no
Stacks                        = 1
    slices                    = 170
    slice thickness (mm)      = 1.20
    slice orientation         = sagittal
    foldover direction        = AP
    fat shift direction       = F
    use geometry              = none
Chunks                        = 1
PlanAlign                     = no
REST slabs                    = 0
Catheter tracking             = no
Interactive positioning       = no
Allow table movement          = no
Patient position              = head first
       orientation            = supine


Contrast
Scan mode                     = 3D
    technique                 = FFE
Contrast enhancement          = T1
Acquisition mode              = cartesian
Fast Imaging mode             = TFE
    shot mode                 = multi-shot
TFE factor                    = 192
    startup echoes            = default
    shot interval             = user defined
        (ms)                  = 2300.00
    profile order             = linear
    turbo direction           = Y
Echoes                        = 1
    partial echo              = no
    shifted echo              = no
TE                            = user defined
    (ms)                      = 4.00
Flip angle (deg)              = 8.00
TR                            = shortest
Half Scan                     = no
Water fat shift               = maximum
Shim                          = auto
SPIR                          = no
SPAIR                         = no
```

```
TFE prepulse            = invert
    slice selection     = no
    delay               = user defined
        (ms)            = 1000.00
ProSet                  = no
MTC                     = no
T2prep                  = no
Research prepulse       = no
diffusion mode          = no
SAR mode                = high
B1 mode                 = default
gradient mode           = default
SofTone mode            = no

Motion
Cardiac synchronisation = no
Respiratory compensation = no
Navigator respiratory comp = no
Flow compensation       = no
fMRI echo stabilisation = no
NSA                     = 1

Dyn/ang
Angio                   = no
Quantitative flow       = no
Manual start            = no
Dynamic study           = no
Flow labelling          = none

Postproc
Preparation phases      = auto
B0 field map            = no
MIP/MPR                 = no
Images                  =
      0: M  no   no   no
Autoview image          = M
Reference tissue        = White matter
Preset window contrast  = soft
Reconstruction mode     = immediate
Save raw data           = no
Push to workstation     = no
Hardcopy protocol       = no
Ringing filtering       = yes

Offc/ang
Stacks                  = 1
Stack Offc. AP (P=+mm)  = 0.00
           RL (L=+mm)   = 0.00
           FH (H=+mm)   = 0.00
     Ang.  AP (deg)     = 0.00
           RL (deg)     = 0.00
           FH (deg)     = 0.00

Info
SAR (W/kg) / SAR level  = 0.1 / 0
Total scan duration     = 07:11.9
Measured voxel size     M / P / S (mm) = 1.25 / 1.25 / 1.20
```

```
Reconstructed voxel size  M / P / S (mm) = 0.94 / 0.94 / 1.20
Actual scan percentage (%)  = 100.0
TFE shots                   = 187
TFE shot duration (ms) / TFE acq duration (ms) = 1833.9 / 1654.5
Minimum prepulse TI delay   = 864.3
Act. Water fat shift (pixels) / Act. BW per pixel (Hz) = 1.322 / 164.2
Min. Water fat shift (pixels) / Max. BW per pixel (Hz) = 0.250 / 868.1
Act. TR / TE (ms)           = 8.6 / 4.0
Min. TR / TE (ms)           = 8.6 / 3.0
Relative signal level RSL (%) = 100.0
```

```
ADNI ,   ADNI_SH ,   Double_TSE


Geometry
Coil selection              = SENSE-head
     coil mode              = SENSE
     connection             = d
FOV (mm)                    = 240.00
RFOV (%)                    = 88.00
Foldover suppression        = no
Matrix scan                 = 256
       reconstruction       = 256
Scan percentage (%)         = 100.00
SENSE                       = yes
    P reduction (RL)        = 1.00
Stacks                      = 1
    type                    = parallel
    slices                  = 48
    slice thickness (mm)    = 3.00
    slice gap               = user defined
          gap (mm)          = 0.00
    slice orientation       = transverse
    foldover direction      = RL
    fat shift direction     = P
    use geometry            = none
Minimum number of packages  = 1
Slice scan order            = default
PlanAlign                   = no
REST slabs                  = 0
Catheter tracking           = no
Interactive positioning     = no
Allow table movement        = no
Patient position            = head first
        orientation         = supine


Contrast
Scan mode                   = MS
    technique               = SE
Modified SE                 = no
Acquisition mode            = cartesian
Fast Imaging mode           = TSE
TSE factor                  = 10
    startup echoes          = 0
    profile orders          = default
    DRIVE                   = no
    ultrashort              = no
Echoes                      = 2
    partial echo            = no
TE  first                   = user defined
          (ms)              = 12.00
    second (ms)             = 96.00
Flip angle (deg)            = 90.00
Refocusing control          = no
TR                          = user defined
    (ms)                    = 3000.00
Half Scan                   = no
Water fat shift             = maximum
Shim                        = auto
```

```
SPIR                           = no
SPAIR                          = no
BB pulse                       = no
ProSet                         = no
MTC                            = no
Research prepulse              = no
Zoom imaging                   = no
diffusion mode                 = no
SAR mode                       = low
B1 mode                        = default
gradient mode                  = regular
SofTone mode                   = no

Motion
Cardiac synchronisation        = no
Respiratory compensation       = no
Navigator respiratory comp     = no
Flow compensation              = no
Temporal slice spacing         = default
NSA                            = 1

Dyn/ang
Manual start                   = no
Dynamic study                  = no
Flow labelling                 = none

Postproc
Preparation phases             = auto
B0 field map                   = no
MIP/MPR                        = no
Images                         =
     0: M   no   no   no
Autoview image                 = M
Calculated images              =
     0: no   no   no   no
Reference tissue               = White matter
Preset window contrast         = soft
Reconstruction mode            = immediate
Save raw data                  = no
Push to workstation            = no
Hardcopy protocol              = no

Offc/ang
Stacks                         = 1
Stack Offc. AP (P=+mm)         = 0.00
           RL (L=+mm)          = 0.00
           FH (H=+mm)          = 0.00
     Ang.  AP (deg)            = 0.00
           RL (deg)            = 0.00
           FH (deg)            = 0.00

Info
SAR (W/kg) / SAR level         = 1.1 / 0
Total scan duration            = 06:45.0
Measured voxel size      M / P / S (mm) = 0.94 / 0.95 / 3.00
Reconstructed voxel size  M / P / S (mm) = 0.94 / 0.94 / 3.00
Actual scan percentage (%) = 98.2
```

```
Number of packages          = 3
Minimum slice gap           = 3.00
Optimal number of slices    = 42
Maximum number of slices    = 63
Water fat shift (pixels) / BW per pixel (Hz) = 1.323 / 164.1
TSE echo spacing / shot duration  (ms) = 12.0 / 120
Min. TR (ms)                = 2201
Relative signal level RSL (%) = 100.0
```