**\\USER\SD\VASO\sub_orientations\sub-05_ses-01_run-01_VASO**

TA: 11:12 PM: REF Voxel size: 0.9×0.9×0.9 mmPAT: 3 Rel. SNR: 1.00 : 26dc5a59

### Properties

| | |
|---|---|
| Prio recon | Off |
| Load images to viewer | On |
| Inline movie | Off |
| Auto store images | On |
| Load images to stamp segments | Off |
| Load images to graphic segments | Off |
| Auto open inline display | Off |
| Auto close inline display | Off |
| Start measurement without further preparation | Off |
| Wait for user to start | Off |
| Start measurements | Single measurement |

### Routine

| | |
|---|---|
| Slab group | 1 |
| Slabs | 1 |
| Position | L1.5 P41.0 H19.4 mm |
| Orientation | C > T-42.1 > S-0.4 |
| Phase enc. dir. | H >> F |
| AutoAlign | Head > Brain |
| Slab Scale | -10 % |
| Slices per slab | 16 |
| FoV read | 133 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.90 mm |
| TR 1 | 42.0 ms |
| TR 2 | 3141 ms |
| TE 1 | 15.00 ms |
| Averages | 1 |
| Multi-echo Shots | 1 |
| Filter | None |
| Coil elements | AC |

### Contrast - Common

| | |
|---|---|
| TR 1 | 42.0 ms |
| TR 2 | 3141 ms |
| TE 1 | 15.00 ms |
| Multi-echo spacing | 38.38 ms |
| Magn. preparation | Non-sel. HSN IR |
| TI 1 | 1047 ms |
| TI 2 | 2462 ms |
| Flip angle | 33 deg |
| Fat suppr. | Fat sat. |
| Magn. Prep. Shots | 1 |

### Contrast - Dynamic

| | |
|---|---|
| Averages | 1 |
| Averaging mode | Long term |
| Reconstruction | Magn./Phase |
| Measurements | 213 |
| Pause after meas. | 0.0 s |

### Resolution - Common

| | |
|---|---|
| FoV read | 133 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.90 mm |
| Base resolution | 148 |
| Phase resolution | 100 % |
| Slice resolution | 100 % |
| Phase partial Fourier | 6/8 |

### Resolution - Common

| | |
|---|---|
| Slice partial Fourier | Off |
| Interpolation | Off |

### Resolution - iPAT

| | |
|---|---|
| PAT mode | CAIPIRINHA |
| Acc. factor PE | 1 |
| Ref. lines PE | 24 |
| Acc. factor 3D | 3 |
| Ref. lines 3D | 16 |
| CAIPI 3D Shift | 1 |
| Reference Scan Mode | GRE/separate |
| CAIPIRINHA mode | Free |

### Resolution - Filter Image

| | |
|---|---|
| Image Filter | Off |
| Distortion Corr. | Off |
| Prescan Normalize | Off |
| Normalize | Off |
| B1 filter | Off |

### Resolution - Filter Rawdata

| | |
|---|---|
| Raw filter | Off |
| Elliptical filter | Off |

### Geometry - Common

| | |
|---|---|
| Slab group | 1 |
| Slabs | 1 |
| Position | L1.5 P41.0 H19.4 mm |
| Orientation | C > T-42.1 > S-0.4 |
| Phase enc. dir. | H >> F |
| Slab Scale | -10 % |
| Slices per slab | 16 |
| FoV read | 133 mm |
| FoV phase | 100.0 % |
| Slice thickness | 0.90 mm |
| TR 1 | 42.0 ms |
| TR 2 | 3141 ms |
| Multi-slice mode | Interleaved |
| Series | Ascending |
| Multi-echo Shots | 1 |

### Geometry - AutoAlign

| | |
|---|---|
| Slab group | 1 |
| Position | L1.5 P41.0 H19.4 mm |
| Orientation | C > T-42.1 > S-0.4 |
| Phase enc. dir. | H >> F |
| AutoAlign | Head > Brain |
| Initial Position | L1.5 P41.0 H19.4 |
| L | 1.5 mm |
| P | 41.0 mm |
| H | 19.4 mm |
| Initial Rotation | -90.70 deg |
| Initial Orientation | C > T |
| C > T | -42.1 |
| > S | -0.4 |

### Geometry - Saturation

| | |
|---|---|
| Saturation mode | Standard |
| Fat suppr. | Fat sat. |

### Geometry - Tim Planning Suite

| | |
|---|---|
| Set-n-Go Protocol | Off |
| Table position | H |
| Table position | 0 mm |
| Inline Composing | Off |

### System - Miscellaneous

| | |
|---|---|
| Positioning mode | REF |
| Table position | H |
| Table position | 0 mm |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combine Mode | Sum of Squares |
| Save uncombined | Off |
| Matrix Optimization | Off |
| AutoAlign | Head > Brain |
| Coil Select Mode | Default |

### System - Adjustments

| | |
|---|---|
| B0 Shim mode | Standard |
| B1 Shim mode | TrueForm |
| Confirm freq. adjustment | Off |
| Assume Dominant Fat | Off |
| Assume Silicone | Off |
| Adjustment Tolerance | Auto |

### System - Adjust Volume

| | |
|---|---|
| ! Position | L0.3 P13.0 H0.2 mm |
| ! Orientation | C > T-42.1 > S-0.4 |
| ! Rotation | -3.34 deg |
| ! R >> L | 133 mm |
| ! F >> H | 133 mm |
| ! A >> P | 83 mm |
| Reset | Off |

### System - pTx Volumes

| | |
|---|---|
| B1 Shim mode | TrueForm |
| Excitation | Slab-sel. |

### System - Tx/Rx

| | |
|---|---|
| Frequency 1H | 297.192222 MHz |
| Correction factor | 1 |
| Gain | Low |
| Img. Scale Cor. | 1.000 |
| Reset | Off |
| ! Ref. amplitude 1H | 200.000 V |

### Sequence - Part 1

| | |
|---|---|
| Introduction | On |
| Dimension | 3D |
| Reordering | Linear |
| Asymmetric echo | Off |
| Contrasts | 1 |
| Multi-slice mode | Interleaved |
| Echo spacing | 1.01 ms |
| Bandwidth | 1126 Hz/Px |

### Sequence - Part 2

| | |
|---|---|
| EPI factor | 37 |
| Segmentation | 3 |
| RF pulse type | Normal |
| Gradient mode | Fast |

### Sequence - Part 2

| | |
|---|---|
| Excitation | Slab-sel. |
| RF spoiling | On |
| Turbo factor | 15 |

### Sequence - Special

| | |
|---|---|
| PATRef FA | 3 deg |
| RF duration | 1480 us |
| RF BWT product | 8 |
| Ernst T1 | 1200 ms |
| PATRef prep. shots | 10 |
| Volume dummy shots | 0 |
| Dummy Measurements | 0 |
| Invert PE | Off |
| Min. TE if PF | On |
| Echo Time Shift | On |
| Ramp Sampling | On |
| NORDIC | Off |
| SVDPC | On |
| Sym VASO | On |
| Alternate RO | Off |
| Invert RO | Off |
| Water Exc. | -none- |
| External PC | per Series |
| Saturation RF | per Shot |
| EPI rise time factor | 1.10 |
| Mosaic DICOMs | On |
| Modify Ice Config | Off |
| HSN RF power scale | 2.00 |
| Inversion Delay | 785 ms |
| Relaxation Delay | 0 ms |
| Var. FA /MAGEC | 4 |

### Sequence - Assistant

| | |
|---|---|
| Mode | Off |