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\USER

Brain

HARP\_Prisma\_VE11C

HARP\_20190617

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\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\AAHead\_Scout

TA: 0:14 PM: REF Voxel size: 1.6×1.6×1.6 mmPAT: 3 Rel. SNR: 1.00 : fl

**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               | On                 |
| Auto open inline display                      | Off                |
| Auto close inline display                     | Off                |
| Start measurement without further preparation | On                 |
| Wait for user to start                        | Off                |
| Start measurements                            | Single measurement |

**Routine**

|                    |  |
|--------------------|--|
| Slab group         | 1  |
| Slabs              | 1  |
| Dist. factor       | 20 %                                       |
| Position           | Isocenter                                  |
| Orientation        | Sagittal                                   |
| Phase enc. dir.    | A >> P                                     |
| Phase oversampling | 0 %  |
| Slice oversampling | 0.0 %                                      |
| Slices per slab    | 128  |
| FoV read           | 260 mm                                     |
| FoV phase          | 100.0 %                                    |
| Slice thickness    | 1.6 mm                                     |
| TR                 | 3.15 ms                                    |
| TE                 | 1.37 ms                                    |
| Averages           | 1  |
| Concatenations     | 1  |
| Filter             | Distortion Corr.(2D),<br>Prescan Normalize |
| Coil elements      | HEA;HEP                                    |

**Contrast - Common**

|            |         |
|------------|---------|
| TR         | 3.15 ms |
| TE         | 1.37 ms |
| Flip angle | 8 deg   |

**Contrast - Dynamic**

|                |            |
|----------------|------------|
| Averages       | 1          |
| Averaging mode | Short term |
| Reconstruction | Magnitude  |
| Measurements   | 1          |

**Resolution - Common**

|                       |           |
|-----------------------|-----------|
| FoV read              | 260 mm    |
| FoV phase             | 100.0 %   |
| Slice thickness       | 1.6 mm    |
| Base resolution       | 160       |
| Phase resolution      | 100 %     |
| Slice resolution      | 69 %      |
| Phase partial Fourier | 6/8       |
| Slice partial Fourier | 6/8       |
| Trajectory            | Cartesian |

**Resolution - iPAT**

|                  |        |
|------------------|--------|
| PAT mode         | GRAPPA |
| Accel. factor PE | 3      |
| Ref. lines PE    | 24     |

**Resolution - iPAT**

|                     |            |
|---------------------|------------|
| Accel. factor 3D    | 1          |
| Reference scan mode | Integrated |

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Image Filter      | Off |
| Distortion Corr.  | On  |
| Mode              | 2D  |
| Unfiltered images | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |
| Normalize         | Off |
| B1 filter         | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                    |            |
|--------------------|------------|
| Slab group         | 1          |
| Slabs              | 1          |
| Dist. factor       | 20 %       |
| Position           | Isocenter  |
| Orientation        | Sagittal   |
| Phase enc. dir.    | A >> P     |
| Slice oversampling | 0.0 %      |
| Slices per slab    | 128        |
| FoV read           | 260 mm     |
| FoV phase          | 100.0 %    |
| Slice thickness    | 1.6 mm     |
| TR                 | 3.15 ms    |
| Multi-slice mode   | Sequential |
| Series             | Ascending  |
| Concatenations     | 1          |

**Geometry - AutoAlign**

|                     |             |
|---------------------|-------------|
| Slab group          | 1           |
| Position            | Isocenter   |
| Orientation         | Sagittal    |
| Phase enc. dir.     | A >> P      |
| Initial Position    | Isocenter   |
| L                   | 0.0 mm      |
| P                   | 0.0 mm      |
| H                   | 0.0 mm      |
| Initial Rotation    | 0.00 deg    |
| Initial Orientation | Transversal |

**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   | Adaptive Combine |
| Save uncombined     | Off              |
| Matrix Optimization | Off              |
| Coil Select Mode    | Off - All        |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Tune up  |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |
| Assume Dominant Fat      | Off      |
| Assume Silicone          | Off      |
| Adjustment Tolerance     | Auto     |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | 0.00 deg    |
| A >> P      | 263 mm      |
| R >> L      | 350 mm      |
| F >> H      | 350 mm      |
| Reset       | Off         |

**System - pTx Volumes**

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

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | Low            |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - PACE**

|                |     |
|----------------|-----|
| Resp. control  | Off |
| Concatenations | 1   |

**Inline - Common**

|                |       |
|----------------|-------|
| Flip angle     | 8 deg |
| Measurements   | 1     |
| Time to center | 6.2 s |

**Inline - Inline**

|                      |     |
|----------------------|-----|
| Subtract             | Off |
| Measurements         | 1   |
| StdDev               | Off |
| Save original images | On  |

**Inline - MIP**

|                      |     |
|----------------------|-----|
| MIP-Sag              | Off |
| MIP-Cor              | Off |
| MIP-Tra              | Off |
| MIP-Time             | Off |
| Save original images | On  |

**Inline - Composing**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | On  |
| Mode              | 2D  |
| Unfiltered images | Off |

**Inline - Maplt**

|                      |         |
|----------------------|---------|
| Save original images | On      |
| Maplt                | None    |
| Flip angle           | 8 deg   |
| Measurements         | 1       |
| Contrasts            | 1       |
| TR                   | 3.15 ms |

**Inline - Maplt**

|    |         |
|----|---------|
| TE | 1.37 ms |
|----|---------|

**Sequence - Part 1**

|                  |            |
|------------------|------------|
| Introduction     | On         |
| Dimension        | 3D         |
| Asymmetric echo  | Weak       |
| Contrasts        | 1          |
| Multi-slice mode | Sequential |
| Bandwidth        | 540 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| RF pulse type | Fast     |
| Gradient mode | Normal   |
| Excitation    | Non-sel. |
| RF spoiling   | On       |

**Sequence - Assistant**

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

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\AC-PC\_setup

TA: 6.1 s PM: REF Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField1\_AP

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\BOLD\_REST1\_AP

TA: 5:08 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : efpid

**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                        | On                 |
| Start measurements                            | Single measurement |

**Routine**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 800 ms            |
| TE                       | 34.40 ms          |
| Multi-band accel. factor | 6                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 800 ms   |
| TE                | 34.40 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 52 deg   |
| Fat suppr.        | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 375       |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Resolution - Filter Image**

|                   |    |
|-------------------|----|
| Prescan Normalize | On |
|-------------------|----|

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 800 ms      |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 6           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

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



**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |        |
|--------------------------|--------|
| 1st Signal/Mode          | None   |
| TR                       | 800 ms |
| Multi-band accel. factor | 6      |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 375      |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Flow comp.        | No          |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 86           |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                       |         |
|-----------------------|---------|
| Excite pulse duration | 6600 us |
| Single-band images    | On      |
| MB LeakBlock kernel   | On      |
| MB dual kernel        | Off     |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| MB RF phase scramble     | Off      |
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField1\_PA

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\BOLD\_REST1\_PA

TA: 5:08 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : efpid

**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                        | On                 |
| Start measurements                            | Single measurement |

**Routine**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 800 ms            |
| TE                       | 34.40 ms          |
| Multi-band accel. factor | 6                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 800 ms   |
| TE                | 34.40 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 52 deg   |
| Fat suppr.        | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 375       |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Resolution - Filter Image**

|                   |    |
|-------------------|----|
| Prescan Normalize | On |
|-------------------|----|

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 800 ms      |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 6           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |        |
|--------------------------|--------|
| 1st Signal/Mode          | None   |
| TR                       | 800 ms |
| Multi-band accel. factor | 6      |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 375      |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Flow comp.        | No          |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 86           |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                       |         |
|-----------------------|---------|
| Excite pulse duration | 6600 us |
| Single-band images    | On      |
| MB LeakBlock kernel   | On      |
| MB dual kernel        | Off     |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| MB RF phase scramble     | Off      |
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\T1\_MPR

TA: 5:22 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 2 Rel. SNR: 1.00 : tfl

**Properties**

|   |                    |
|---|--------------------|
| Prio recon                                    | Off                |
| Load images to viewer                         | On                 |
| Inline movie                                  | Off                |
| Auto store images                             | On                 |
| Load images to stamp segments                 | On                 |
| Load images to graphic segments               | On                 |
| 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                 |
| Dist. factor       | 50 %              |
| Position           | Isocenter         |
| Orientation        | Sagittal          |
| Phase enc. dir.    | A >> P            |
| AutoAlign          | Head > Brain      |
| Phase oversampling | 0 %               |
| Slice oversampling | 7.1 %             |
| Slices per slab    | 224               |
| FoV read           | 256 mm            |
| FoV phase          | 93.8 %            |
| Slice thickness    | 0.80 mm           |
| TR                 | 2500.0 ms         |
| TE                 | 2.18 ms           |
| Averages           | 1                 |
| Concatenations     | 1                 |
| Filter             | Prescan Normalize |
| Coil elements      | HEA;HEP           |

**Contrast - Common**

|                   |                   |
|-------------------|-------------------|
| TR                | 2500.0 ms         |
| TE                | 2.18 ms           |
| Magn. preparation | Non-sel. IR       |
| T1                | 1000 ms           |
| Flip angle        | 8 deg             |
| Fat suppr.        | Water excit. fast |
| Water suppr.      | None              |

**Contrast - Dynamic**

|                 |                  |
|-----------------|------------------|
| Averages        | 1                |
| Averaging mode  | Long term        |
| Reconstruction  | Magnitude        |
| Measurements    | 1                |
| Multiple series | Each measurement |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 256 mm  |
| FoV phase             | 93.8 %  |
| Slice thickness       | 0.80 mm |
| Base resolution       | 320     |
| Phase resolution      | 100 %   |
| Slice resolution      | 100 %   |
| Phase partial Fourier | 6/8     |
| Slice partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|                     |            |
|---------------------|------------|
| PAT mode            | GRAPPA     |
| Accel. factor PE    | 2          |
| Ref. lines PE       | 32         |
| Accel. factor 3D    | 1          |
| Reference scan mode | Integrated |

**Resolution - Filter Image**

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

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                    |             |
|--------------------|-------------|
| Slab group         | 1           |
| Slabs              | 1           |
| Dist. factor       | 50 %        |
| Position           | Isocenter   |
| Orientation        | Sagittal    |
| Phase enc. dir.    | A >> P      |
| Slice oversampling | 7.1 %       |
| Slices per slab    | 224         |
| FoV read           | 256 mm      |
| FoV phase          | 93.8 %      |
| Slice thickness    | 0.80 mm     |
| TR                 | 2500.0 ms   |
| Multi-slice mode   | Single shot |
| Series             | Interleaved |
| Concatenations     | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slab group          | 1            |
| Position            | Isocenter    |
| Orientation         | Sagittal     |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -0.80 deg    |
| Initial Orientation | Sagittal     |

**Geometry - Navigator****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 | Adaptive Combine |
| Save uncombined   | Off              |

**System - Miscellaneous**

|                     |              |
|---------------------|--------------|
| Matrix Optimization | Off          |
| AutoAlign           | Head > Brain |
| Coil Select Mode    | Off - All    |

**System - Adjustments**

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

**System - Adjust Volume**

|             |           |
|-------------|-----------|
| Position    | Isocenter |
| Orientation | Sagittal  |
| Rotation    | -0.80 deg |
| A >> P      | 240 mm    |
| F >> H      | 256 mm    |
| R >> L      | 180 mm    |
| Reset       | Off       |

**System - pTx Volumes**

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

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | Low            |
| Img. Scale Cor.     | 5.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                 |           |
|-----------------|-----------|
| 1st Signal/Mode | None      |
| TR              | 2500.0 ms |
| Concatenations  | 1         |

**Physio - Cardiac**

|                   |                   |
|-------------------|-------------------|
| Magn. preparation | Non-sel. IR       |
| TI                | 1000 ms           |
| Fat suppr.        | Water excit. fast |
| Dark blood        | Off               |
| FoV read          | 256 mm            |
| FoV phase         | 93.8 %            |
| Phase resolution  | 100 %             |

**Physio - PACE**

|                |     |
|----------------|-----|
| Resp. control  | Off |
| Concatenations | 1   |

**Inline - Common**

|                      |     |
|----------------------|-----|
| Subtract             | Off |
| Measurements         | 1   |
| StdDev               | Off |
| Save original images | On  |

**Inline - MIP**

|          |     |
|----------|-----|
| MIP-Sag  | Off |
| MIP-Cor  | Off |
| MIP-Tra  | Off |
| MIP-Time | Off |

**Inline - MIP**

|                      |    |
|----------------------|----|
| Save original images | On |
|----------------------|----|

**Inline - Composing**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Inline - MapIt**

|                      |           |
|----------------------|-----------|
| Save original images | On        |
| MapIt                | None      |
| Flip angle           | 8 deg     |
| Measurements         | 1         |
| TR                   | 2500.0 ms |
| TE                   | 2.18 ms   |

**Sequence - Part 1**

|                     |             |
|---------------------|-------------|
| Introduction        | On          |
| Dimension           | 3D          |
| Elliptical scanning | Off         |
| Reordering          | Linear      |
| Asymmetric echo     | Allowed     |
| Flow comp.          | No          |
| Multi-slice mode    | Single shot |
| Echo spacing        | 7.9 ms      |
| Bandwidth           | 220 Hz/Px   |

**Sequence - Part 2**

|                         |          |
|-------------------------|----------|
| RF pulse type           | Fast     |
| Gradient mode           | Fast     |
| Excitation              | Non-sel. |
| RF spoiling             | On       |
| Incr. Gradient spoiling | Off      |
| Turbo factor            | 240      |

**Sequence - Assistant**

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

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\T2\_SPC

TA: 5:31 PM: FIX Voxel size: 0.8x0.8x0.8 mmPAT: 2 Rel. SNR: 1.00 : spc

**Properties**

|   |                    |
|---|--------------------|
| Prio recon                                    | Off                |
| Load images to viewer                         | On                 |
| Inline movie                                  | Off                |
| Auto store images                             | On                 |
| Load images to stamp segments                 | On                 |
| 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           | Isocenter                       |
| Orientation        | Sagittal                        |
| Phase enc. dir.    | A >> P                          |
| AutoAlign          | Head > Brain                    |
| Phase oversampling | 0 %                             |
| Slice oversampling | 7.1 %                           |
| Slices per slab    | 224                             |
| FoV read           | 256 mm                          |
| FoV phase          | 93.8 %                          |
| Slice thickness    | 0.80 mm                         |
| TR                 | 3200 ms                         |
| TE                 | 564 ms                          |
| Averages           | 1.0                             |
| Concatenations     | 1                               |
| Filter             | Prescan Normalize, Image Filter |
| Coil elements      | HEA;HEP                         |

**Contrast - Common**

|                   |         |
|-------------------|---------|
| TR                | 3200 ms |
| TE                | 564 ms  |
| MTC               | Off     |
| Magn. preparation | None    |
| Fat suppr.        | None    |
| Blood suppr.      | Off     |
| Restore magn.     | Off     |

**Contrast - Dynamic**

|                 |                  |
|-----------------|------------------|
| Averages        | 1.0              |
| Reconstruction  | Magnitude        |
| Measurements    | 1                |
| Multiple series | Each measurement |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 256 mm  |
| FoV phase             | 93.8 %  |
| Slice thickness       | 0.80 mm |
| Base resolution       | 320     |
| Phase resolution      | 100 %   |
| Slice resolution      | 100 %   |
| Phase partial Fourier | Allowed |
| Slice partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|                     |            |
|---------------------|------------|
| PAT mode            | GRAPPA     |
| Accel. factor PE    | 2          |
| Ref. lines PE       | 32         |
| Accel. factor 3D    | 1          |
| Reference scan mode | Integrated |

**Resolution - Filter Image**

|                   |       |
|-------------------|-------|
| Image Filter      | On    |
| Intensity         | Sharp |
| Edge Enhancement  | 3     |
| Smoothing         | 3     |
| Unfiltered images | Off   |
| Distortion Corr.  | Off   |
| Prescan Normalize | On    |
| Unfiltered images | Off   |
| Normalize         | Off   |
| B1 filter         | Off   |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                    |             |
|--------------------|-------------|
| Slab group         | 1           |
| Slabs              | 1           |
| Position           | Isocenter   |
| Orientation        | Sagittal    |
| Phase enc. dir.    | A >> P      |
| Slice oversampling | 7.1 %       |
| Slices per slab    | 224         |
| FoV read           | 256 mm      |
| FoV phase          | 93.8 %      |
| Slice thickness    | 0.80 mm     |
| TR                 | 3200 ms     |
| Series             | Interleaved |
| Concatenations     | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slab group          | 1            |
| Position            | Isocenter    |
| Orientation         | Sagittal     |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -0.80 deg    |
| Initial Orientation | Sagittal     |

**Geometry - Saturation**

|               |      |
|---------------|------|
| Fat suppr.    | None |
| Restore magn. | Off  |
| Special sat.  | None |

**Geometry - Navigator****System - Miscellaneous**

|                  |     |
|------------------|-----|
| Positioning mode | FIX |
| Table position   | H   |



**System - Miscellaneous**

|                     |                  |
|---------------------|------------------|
| Table position      | 0 mm             |
| MSMA                | S - C - T        |
| Sagittal            | R >> L           |
| Coronal             | A >> P           |
| Transversal         | F >> H           |
| Coil Combine Mode   | Adaptive Combine |
| Save uncombined     | Off              |
| Matrix Optimization | Off              |
| AutoAlign           | Head > Brain     |
| Coil Select Mode    | Off - All        |

**System - Adjustments**

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

**System - Adjust Volume**

|             |           |
|-------------|-----------|
| Position    | Isocenter |
| Orientation | Sagittal  |
| Rotation    | -0.80 deg |
| A >> P      | 240 mm    |
| F >> H      | 256 mm    |
| R >> L      | 180 mm    |
| Reset       | Off       |

**System - pTx Volumes**

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

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 5.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                 |         |
|-----------------|---------|
| 1st Signal/Mode | None    |
| Trigger delay   | 0 ms    |
| TR              | 3200 ms |
| Concatenations  | 1       |

**Physio - Cardiac**

|                   |        |
|-------------------|--------|
| Magn. preparation | None   |
| Fat suppr.        | None   |
| Dark blood        | Off    |
| FoV read          | 256 mm |
| FoV phase         | 93.8 % |
| Phase resolution  | 100 %  |

**Physio - PACE**

|                |     |
|----------------|-----|
| Resp. control  | Off |
| Concatenations | 1   |

**Inline - Common**

|              |     |
|--------------|-----|
| Subtract     | Off |
| Measurements | 1   |
| StdDev       | Off |

**Inline - Common**

|                      |    |
|----------------------|----|
| Save original images | On |
|----------------------|----|

**Inline - MIP**

|                      |     |
|----------------------|-----|
| MIP-Sag              | Off |
| MIP-Cor              | Off |
| MIP-Tra              | Off |
| MIP-Time             | Off |
| Save original images | On  |

**Inline - Composing**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Sequence - Part 1**

|                     |           |
|---------------------|-----------|
| Introduction        | On        |
| Dimension           | 3D        |
| Elliptical scanning | On        |
| Reordering          | Linear    |
| Flow comp.          | No        |
| Echo spacing        | 3.86 ms   |
| Adiabatic-mode      | Off       |
| Bandwidth           | 744 Hz/Px |

**Sequence - Part 2**

|                     |          |
|---------------------|----------|
| Echo train duration | 1166 ms  |
| RF pulse type       | Fast     |
| Gradient mode       | Fast     |
| Excitation          | Non-sel. |
| Flip angle mode     | T2 var   |
| Turbo factor        | 314      |

**Sequence - Assistant**

|               |     |
|---------------|-----|
| Allowed delay | 0 s |
|---------------|-----|

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\ASL\_ADNI

TA: 2:45 PM: FIX Voxel size: 3.0x3.0x4.0 mmRel. SNR: 1.00 : tgse

**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                 |
| Dist. factor       | 50 %              |
| Position           | Isocenter         |
| Orientation        | Transversal       |
| Phase enc. dir.    | A >> P            |
| AutoAlign          | Head > Brain      |
| Phase oversampling | 10 %              |
| Slice oversampling | 20.0 %            |
| Slices per slab    | 40                |
| FoV read           | 192 mm            |
| FoV phase          | 100.0 %           |
| Slice thickness    | 4.00 mm           |
| TR                 | 5000 ms           |
| TE                 | 16.02 ms          |
| Averages           | 1                 |
| Concatenations     | 1                 |
| Filter             | Prescan Normalize |
| Coil elements      | HEA;HEP           |

**Contrast - Common**

|            |          |
|------------|----------|
| TR         | 5000 ms  |
| TE         | 16.02 ms |
| Flip angle | 180 deg  |
| Fat suppr. | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averages        | 1         |
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Contrast - ASL**

|                      |            |
|----------------------|------------|
| Perfusion mode       | FAIR QII   |
| Suppression Mode     | GRAY-WHITE |
| Bolus Duration       | 800 ms     |
| Inversion Time       | 2000 ms    |
| Averaging mode       | CONSTANT   |
| Inversion Array Size | 1          |

**Resolution - Common**

|                 |         |
|-----------------|---------|
| FoV read        | 192 mm  |
| FoV phase       | 100.0 % |
| Slice thickness | 4.00 mm |

**Resolution - Common**

|                       |      |
|-----------------------|------|
| Base resolution       | 64   |
| Phase resolution      | 98 % |
| Phase partial Fourier | Off  |
| Slice partial Fourier | Off  |
| Interpolation         | Off  |

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                    |             |
|--------------------|-------------|
| Slab group         | 1           |
| Slabs              | 1           |
| Dist. factor       | 50 %        |
| Position           | Isocenter   |
| Orientation        | Transversal |
| Phase enc. dir.    | A >> P      |
| Slice oversampling | 20.0 %      |
| Slices per slab    | 40          |
| FoV read           | 192 mm      |
| FoV phase          | 100.0 %     |
| Slice thickness    | 4.00 mm     |
| TR                 | 5000 ms     |
| Multi-slice mode   | Interleaved |
| Series             | Ascending   |
| Concatenations     | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slab group          | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |

**System - Miscellaneous**

|                  |                      |
|------------------|----------------------|
| Coil Select Mode | Off - AutoCoilSelect |
|------------------|----------------------|

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 192 mm      |
| R >> L      | 192 mm      |
| F >> H      | 160 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
|--------------|----------|

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | Low            |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                 |         |
|-----------------|---------|
| 1st Signal/Mode | None    |
| TR              | 5000 ms |
| Concatenations  | 1       |
| Segments        | 16      |

**Sequence - Part 1**

|                  |             |
|------------------|-------------|
| Introduction     | Off         |
| Dimension        | 3D          |
| Reordering       | Centric     |
| Multi-slice mode | Interleaved |
| Echo spacing     | 0.51 ms     |
| Bandwidth        | 2604 Hz/Px  |

**Sequence - Part 2**

|               |        |
|---------------|--------|
| EPI factor    | 21     |
| Segments      | 16     |
| RF pulse type | Normal |
| Gradient mode | Fast   |
| Turbo factor  | 12     |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\QSM\_3D

TA: 5:03 PM: FIX Voxel size: 0.9×0.9×1.0 mmPAT: 2 Rel. SNR: 1.00 : fl

**Properties**

|   |                    |
|---|--------------------|
| Prio recon                                    | Off                |
| Load images to viewer                         | On                 |
| Inline movie                                  | Off                |
| Auto store images                             | On                 |
| Load images to stamp segments                 | On                 |
| Load images to graphic segments               | On                 |
| 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                 |
| Dist. factor       | 20 %              |
| Position           | Isocenter         |
| Orientation        | Transversal       |
| Phase enc. dir.    | R >> L            |
| AutoAlign          | Head > Brain      |
| Phase oversampling | 0 %               |
| Slice oversampling | 0.0 %             |
| Slices per slab    | 128               |
| FoV read           | 240 mm            |
| FoV phase          | 100.0 %           |
| Slice thickness    | 1.00 mm           |
| TR                 | 44.0 ms           |
| TE 1               | 3.60 ms           |
| TE 2               | 9.51 ms           |
| TE 3               | 15.43 ms          |
| TE 4               | 21.34 ms          |
| TE 5               | 27.26 ms          |
| TE 6               | 33.17 ms          |
| TE 7               | 39.09 ms          |
| Averages           | 1                 |
| Concatenations     | 1                 |
| Filter             | Prescan Normalize |
| Coil elements      | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 44.0 ms  |
| TE 1              | 3.60 ms  |
| TE 2              | 9.51 ms  |
| TE 3              | 15.43 ms |
| TE 4              | 21.34 ms |
| TE 5              | 27.26 ms |
| TE 6              | 33.17 ms |
| TE 7              | 39.09 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 15 deg   |
| Fat suppr.        | None     |
| Water suppr.      | None     |
| SWI               | Off      |

**Contrast - Dynamic**

|                |             |
|----------------|-------------|
| Averages       | 1           |
| Averaging mode | Short term  |
| Reconstruction | Magn./Phase |

**Contrast - Dynamic**

|                 |                  |
|-----------------|------------------|
| Measurements    | 1                |
| Multiple series | Each measurement |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 240 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 1.00 mm |
| Base resolution       | 256     |
| Phase resolution      | 100 %   |
| Slice resolution      | 50 %    |
| Phase partial Fourier | 6/8     |
| Slice partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|                     |            |
|---------------------|------------|
| PAT mode            | GRAPPA     |
| Accel. factor PE    | 2          |
| Ref. lines PE       | 24         |
| Accel. factor 3D    | 1          |
| Reference scan mode | Integrated |

**Resolution - Filter Image**

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

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                    |             |
|--------------------|-------------|
| Slab group         | 1           |
| Slabs              | 1           |
| Dist. factor       | 20 %        |
| Position           | Isocenter   |
| Orientation        | Transversal |
| Phase enc. dir.    | R >> L      |
| Slice oversampling | 0.0 %       |
| Slices per slab    | 128         |
| FoV read           | 240 mm      |
| FoV phase          | 100.0 %     |
| Slice thickness    | 1.00 mm     |
| TR                 | 44.0 ms     |
| Multi-slice mode   | Interleaved |
| Series             | Ascending   |
| Concatenations     | 1           |

**Geometry - AutoAlign**

|                  |              |
|------------------|--------------|
| Slab group       | 1            |
| Position         | Isocenter    |
| Orientation      | Transversal  |
| Phase enc. dir.  | R >> L       |
| AutoAlign        | Head > Brain |
| Initial Position | Isocenter    |
| L                | 0.0 mm       |
| P                | 0.0 mm       |
| H                | 0.0 mm       |

**Geometry - AutoAlign**

|                     |             |
|---------------------|-------------|
| Initial Rotation    | 88.17 deg   |
| Initial Orientation | Transversal |

**Geometry - Saturation**

|                 |          |
|-----------------|----------|
| Saturation mode | Standard |
| Fat suppr.      | None     |
| Water suppr.    | None     |
| Special sat.    | None     |

**System - Miscellaneous**

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

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | 88.17 deg   |
| R >> L      | 240 mm      |
| A >> P      | 240 mm      |
| F >> H      | 128 mm      |
| Reset       | Off         |

**System - pTx Volumes**

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

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | Low            |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                 |         |
|-----------------|---------|
| 1st Signal/Mode | None    |
| TR              | 44.0 ms |
| Concatenations  | 1       |
| Segments        | 1       |

**Physio - Cardiac**

|                   |      |
|-------------------|------|
| Magn. preparation | None |
| Fat suppr.        | None |
| Dark blood        | Off  |

**Physio - Cardiac**

|                  |         |
|------------------|---------|
| FoV read         | 240 mm  |
| FoV phase        | 100.0 % |
| Phase resolution | 100 %   |

**Physio - PACE**

|                |     |
|----------------|-----|
| Resp. control  | Off |
| Concatenations | 1   |

**Inline - Common**

|                      |     |
|----------------------|-----|
| Subtract             | Off |
| Measurements         | 1   |
| StdDev               | Off |
| Liver registration   | Off |
| Save original images | On  |

**Inline - MIP**

|                      |     |
|----------------------|-----|
| MIP-Sag              | Off |
| MIP-Cor              | Off |
| MIP-Tra              | Off |
| MIP-Time             | Off |
| Save original images | On  |

**Inline - Soft Tissue**

|              |     |
|--------------|-----|
| Wash - In    | Off |
| Wash - Out   | Off |
| TTP          | Off |
| PEI          | Off |
| MIP - time   | Off |
| Measurements | 1   |

**Inline - Composing**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Inline - MapIt**

|                      |          |
|----------------------|----------|
| Noise threshold      | 25       |
| Save original images | On       |
| MapIt                | T2* map  |
| Flip angle           | 15 deg   |
| Measurements         | 1        |
| Contrasts            | 7        |
| TR                   | 44.0 ms  |
| TE 1                 | 3.60 ms  |
| TE 2                 | 9.51 ms  |
| TE 3                 | 15.43 ms |
| TE 4                 | 21.34 ms |
| TE 5                 | 27.26 ms |
| TE 6                 | 33.17 ms |
| TE 7                 | 39.09 ms |

**Sequence - Part 1**

|                     |             |
|---------------------|-------------|
| Introduction        | On          |
| Dimension           | 3D          |
| Elliptical scanning | Off         |
| Phase stabilisation | Off         |
| Asymmetric echo     | Off         |
| Contrasts           | 7           |
| Flow comp. 1        | No          |
| Readout mode        | Monopolar   |
| Multi-slice mode    | Interleaved |
| Bandwidth 1         | 240 Hz/Px   |
| Bandwidth 2         | 240 Hz/Px   |
| Bandwidth 3         | 240 Hz/Px   |
| Bandwidth 4         | 240 Hz/Px   |

**Sequence - Part 1**

|             |           |
|-------------|-----------|
| Bandwidth 5 | 240 Hz/Px |
| Bandwidth 6 | 240 Hz/Px |
| Bandwidth 7 | 240 Hz/Px |

**Sequence - Part 2**

|                          |           |
|--------------------------|-----------|
| Segments                 | 1         |
| Acoustic noise reduction | None      |
| RF pulse type            | Fast      |
| Gradient mode            | Fast      |
| Excitation               | Slab-sel. |
| RF spoiling              | On        |

**Sequence - Assistant**

|               |     |
|---------------|-----|
| Mode          | Off |
| Allowed delay | 0 s |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\DWI\_AP

TA: 3:29 PM: FIX Voxel size: 1.7×1.7×1.7 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 84                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 204 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 1.70 mm           |
| TR                       | 3600 ms           |
| TE                       | 79.00 ms          |
| Multi-band accel. factor | 3                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 3600 ms  |
| TE                    | 79.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | None     |
| Grad. rev. fat suppr. | Enabled  |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 204 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 1.70 mm |
| Base resolution       | 120     |
| Phase resolution      | 100 %   |
| Phase partial Fourier | 6/8     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                     |     |
|---------------------|-----|
| Distortion Corr.    | Off |
| Prescan Normalize   | On  |
| Dynamic Field Corr. | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 84          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 204 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 1.70 mm     |
| TR                       | 3600 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 3           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |         |
|-----------------------|---------|
| Fat suppr.            | None    |
| Grad. rev. fat suppr. | Enabled |
| Special sat.          | None    |

**Geometry - Navigator****System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                       |          |
|-----------------------|----------|
| B0 Shim mode          | Standard |
| B1 Shim mode          | TrueForm |
| Adjust with body coil | Off      |

**System - Adjustments**

|                          |      |
|--------------------------|------|
| Confirm freq. adjustment | Off  |
| Assume Dominant Fat      | Off  |
| Assume Silicone          | Off  |
| Adjustment Tolerance     | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 204 mm      |
| R >> L      | 204 mm      |
| F >> H      | 143 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 3600 ms |
| Multi-band accel. factor | 3       |

**Physio - PACE**

|                          |     |
|--------------------------|-----|
| Resp. control            | Off |
| Multi-band accel. factor | 3   |

**Diff - Neuro**

|                       |                        |
|-----------------------|------------------------|
| Diffusion mode        | Free                   |
| Diff. directions      | 53                     |
| Diffusion Scheme      | Monopolar              |
| Diff. weightings      | 2                      |
| b-value 1             | 0 s/mm <sup>2</sup>    |
| b-value 2             | 2000 s/mm <sup>2</sup> |
| b-value 1             | 1                      |
| b-value 2             | 1                      |
| Diff. weighted images | On                     |
| Trace weighted images | Off                    |
| ADC maps              | Off                    |
| FA maps               | Off                    |
| Mosaic                | On                     |
| Tensor                | Off                    |
| Noise level           | 40                     |

**Diff - Body**

|                       |                        |
|-----------------------|------------------------|
| Diffusion mode        | Free                   |
| Diff. directions      | 53                     |
| Diffusion Scheme      | Monopolar              |
| Diff. weightings      | 2                      |
| b-value 1             | 0 s/mm <sup>2</sup>    |
| b-value 2             | 2000 s/mm <sup>2</sup> |
| b-value 1             | 1                      |
| b-value 2             | 1                      |
| Diff. weighted images | On                     |
| Trace weighted images | Off                    |

**Diff - Body**

|                      |                     |
|----------------------|---------------------|
| ADC maps             | Off                 |
| Exponential ADC Maps | Off                 |
| FA maps              | Off                 |
| Invert Gray Scale    | Off                 |
| Calculated Image     | Off                 |
| b-Value >=           | 0 s/mm <sup>2</sup> |
| Noise level          | 40                  |

**Diff - Composing**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.62 ms     |
| Bandwidth         | 1984 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 120          |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| Excite pulse duration    | 5120 us  |
| Refocus pulse duration   | 10240 us |
| Single-band images       | On       |
| MB LeakBlock kernel      | On       |
| MB dual kernel           | Off      |
| MB RF phase scramble     | Off      |
| Time-shifted MB RF       | Off      |
| SENSE1 coil combine      | On       |
| Invert RO/PE polarity    | Off      |
| PF omits higher k-space  | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |



\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\DWI\_PA

TA: 3:32 PM: FIX Voxel size: 1.7×1.7×1.7 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 84                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 204 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 1.70 mm           |
| TR                       | 3600 ms           |
| TE                       | 79.00 ms          |
| Multi-band accel. factor | 3                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 3600 ms  |
| TE                    | 79.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | None     |
| Grad. rev. fat suppr. | Enabled  |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 204 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 1.70 mm |
| Base resolution       | 120     |
| Phase resolution      | 100 %   |
| Phase partial Fourier | 6/8     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                     |     |
|---------------------|-----|
| Distortion Corr.    | Off |
| Prescan Normalize   | On  |
| Dynamic Field Corr. | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 84          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 204 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 1.70 mm     |
| TR                       | 3600 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 3           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |         |
|-----------------------|---------|
| Fat suppr.            | None    |
| Grad. rev. fat suppr. | Enabled |
| Special sat.          | None    |

**Geometry - Navigator****System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                       |          |
|-----------------------|----------|
| B0 Shim mode          | Standard |
| B1 Shim mode          | TrueForm |
| Adjust with body coil | Off      |

**System - Adjustments**

|                          |      |
|--------------------------|------|
| Confirm freq. adjustment | Off  |
| Assume Dominant Fat      | Off  |
| Assume Silicone          | Off  |
| Adjustment Tolerance     | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 204 mm      |
| R >> L      | 204 mm      |
| F >> H      | 143 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 3600 ms |
| Multi-band accel. factor | 3       |

**Physio - PACE**

|                          |     |
|--------------------------|-----|
| Resp. control            | Off |
| Multi-band accel. factor | 3   |

**Diff - Neuro**

|                       |                        |
|-----------------------|------------------------|
| Diffusion mode        | Free                   |
| Diff. directions      | 54                     |
| Diffusion Scheme      | Monopolar              |
| Diff. weightings      | 2                      |
| b-value 1             | 0 s/mm <sup>2</sup>    |
| b-value 2             | 2000 s/mm <sup>2</sup> |
| b-value 1             | 1                      |
| b-value 2             | 1                      |
| Diff. weighted images | On                     |
| Trace weighted images | Off                    |
| ADC maps              | Off                    |
| FA maps               | Off                    |
| Mosaic                | On                     |
| Tensor                | Off                    |
| Noise level           | 40                     |

**Diff - Body**

|                       |                        |
|-----------------------|------------------------|
| Diffusion mode        | Free                   |
| Diff. directions      | 54                     |
| Diffusion Scheme      | Monopolar              |
| Diff. weightings      | 2                      |
| b-value 1             | 0 s/mm <sup>2</sup>    |
| b-value 2             | 2000 s/mm <sup>2</sup> |
| b-value 1             | 1                      |
| b-value 2             | 1                      |
| Diff. weighted images | On                     |
| Trace weighted images | Off                    |

**Diff - Body**

|                      |                     |
|----------------------|---------------------|
| ADC maps             | Off                 |
| Exponential ADC Maps | Off                 |
| FA maps              | Off                 |
| Invert Gray Scale    | Off                 |
| Calculated Image     | Off                 |
| b-Value >=           | 0 s/mm <sup>2</sup> |
| Noise level          | 40                  |

**Diff - Composing**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.62 ms     |
| Bandwidth         | 1984 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 120          |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| Excite pulse duration    | 5120 us  |
| Refocus pulse duration   | 10240 us |
| Single-band images       | On       |
| MB LeakBlock kernel      | On       |
| MB dual kernel           | Off      |
| MB RF phase scramble     | Off      |
| Time-shifted MB RF       | Off      |
| SENSE1 coil combine      | On       |
| Invert RO/PE polarity    | On       |
| PF omits higher k-space  | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField2\_AP

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\BOLD\_REST2\_AP

TA: 5:08 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : efpid

**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                        | On                 |
| Start measurements                            | Single measurement |

**Routine**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 800 ms            |
| TE                       | 34.40 ms          |
| Multi-band accel. factor | 6                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 800 ms   |
| TE                | 34.40 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 52 deg   |
| Fat suppr.        | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 375       |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Resolution - Filter Image**

|                   |    |
|-------------------|----|
| Prescan Normalize | On |
|-------------------|----|

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 800 ms      |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 6           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |        |
|--------------------------|--------|
| 1st Signal/Mode          | None   |
| TR                       | 800 ms |
| Multi-band accel. factor | 6      |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 375      |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Flow comp.        | No          |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 86           |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                       |         |
|-----------------------|---------|
| Excite pulse duration | 6600 us |
| Single-band images    | On      |
| MB LeakBlock kernel   | On      |
| MB dual kernel        | Off     |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| MB RF phase scramble     | Off      |
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField2\_PA

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |



\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\BOLD\_REST2\_PA

TA: 5:08 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : efpid

**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                        | On                 |
| Start measurements                            | Single measurement |

**Routine**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 800 ms            |
| TE                       | 34.40 ms          |
| Multi-band accel. factor | 6                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 800 ms   |
| TE                | 34.40 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 52 deg   |
| Fat suppr.        | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 375       |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Resolution - Filter Image**

|                   |    |
|-------------------|----|
| Prescan Normalize | On |
|-------------------|----|

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 800 ms      |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 6           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |        |
|--------------------------|--------|
| 1st Signal/Mode          | None   |
| TR                       | 800 ms |
| Multi-band accel. factor | 6      |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 375      |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Flow comp.        | No          |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 86           |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                       |         |
|-----------------------|---------|
| Excite pulse duration | 6600 us |
| Single-band images    | On      |
| MB LeakBlock kernel   | On      |
| MB dual kernel        | Off     |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| MB RF phase scramble     | Off      |
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField3\_AP

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\BOLD\_REST3\_AP

TA: 5:08 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : efpid

**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                        | On                 |
| Start measurements                            | Single measurement |

**Routine**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 800 ms            |
| TE                       | 34.40 ms          |
| Multi-band accel. factor | 6                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 800 ms   |
| TE                | 34.40 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 52 deg   |
| Fat suppr.        | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 375       |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Resolution - Filter Image**

|                   |    |
|-------------------|----|
| Prescan Normalize | On |
|-------------------|----|

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 800 ms      |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 6           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |        |
|--------------------------|--------|
| 1st Signal/Mode          | None   |
| TR                       | 800 ms |
| Multi-band accel. factor | 6      |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 375      |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Flow comp.        | No          |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 86           |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                       |         |
|-----------------------|---------|
| Excite pulse duration | 6600 us |
| Single-band images    | On      |
| MB LeakBlock kernel   | On      |
| MB dual kernel        | Off     |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| MB RF phase scramble     | Off      |
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField3\_PA

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |



\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\BOLD\_REST3\_PA

TA: 5:08 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : efpid

**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                        | On                 |
| Start measurements                            | Single measurement |

**Routine**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 800 ms            |
| TE                       | 34.40 ms          |
| Multi-band accel. factor | 6                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 800 ms   |
| TE                | 34.40 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 52 deg   |
| Fat suppr.        | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 375       |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Resolution - Filter Image**

|                   |    |
|-------------------|----|
| Prescan Normalize | On |
|-------------------|----|

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 800 ms      |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 6           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |        |
|--------------------------|--------|
| 1st Signal/Mode          | None   |
| TR                       | 800 ms |
| Multi-band accel. factor | 6      |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 375      |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Flow comp.        | No          |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 86           |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                       |         |
|-----------------------|---------|
| Excite pulse duration | 6600 us |
| Single-band images    | On      |
| MB LeakBlock kernel   | On      |
| MB dual kernel        | Off     |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| MB RF phase scramble     | Off      |
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField4\_AP

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField4\_PA

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\BOLD\_EMOTION\_PA

TA: 4:08 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : efpid

**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                        | On                 |
| Start measurements                            | Single measurement |

**Routine**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 800 ms            |
| TE                       | 34.40 ms          |
| Multi-band accel. factor | 6                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 800 ms   |
| TE                | 34.40 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 52 deg   |
| Fat suppr.        | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 300       |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Resolution - Filter Image**

|                   |    |
|-------------------|----|
| Prescan Normalize | On |
|-------------------|----|

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 800 ms      |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 6           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |        |
|--------------------------|--------|
| 1st Signal/Mode          | None   |
| TR                       | 800 ms |
| Multi-band accel. factor | 6      |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 300      |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Flow comp.        | No          |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 86           |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                       |         |
|-----------------------|---------|
| Excite pulse duration | 6600 us |
| Single-band images    | On      |
| MB LeakBlock kernel   | On      |
| MB dual kernel        | Off     |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| MB RF phase scramble     | Off      |
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |



\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField5\_AP

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | Off      |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\SEField5\_PA

TA: 6.1 s PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : epse

**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**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 6100 ms           |
| TE                       | 60.00 ms          |
| Multi-band accel. factor | 1                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                       |          |
|-----------------------|----------|
| TR                    | 6100 ms  |
| TE                    | 60.00 ms |
| MTC                   | Off      |
| Magn. preparation     | None     |
| Flip angle            | 90 deg   |
| Refocus flip angle    | 180 deg  |
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 1         |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                   |     |
|-------------------|-----|
| Distortion Corr.  | Off |
| Prescan Normalize | On  |
| Unfiltered images | Off |

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 6100 ms     |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 1           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|                       |          |
|-----------------------|----------|
| Fat suppr.            | Fat sat. |
| Grad. rev. fat suppr. | Disabled |
| Special sat.          | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

|                          |          |
|--------------------------|----------|
| B0 Shim mode             | Standard |
| B1 Shim mode             | TrueForm |
| Adjust with body coil    | Off      |
| Confirm freq. adjustment | Off      |

**System - Adjustments**

|                      |      |
|----------------------|------|
| Assume Dominant Fat  | Off  |
| Assume Silicone      | Off  |
| Adjustment Tolerance | Auto |

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |         |
|--------------------------|---------|
| 1st Signal/Mode          | None    |
| TR                       | 6100 ms |
| Multi-band accel. factor | 1       |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 1        |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Multi-slice mode  | Interleaved |
| Free echo spacing | On          |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |          |
|---------------|----------|
| EPI factor    | 86       |
| RF pulse type | Normal   |
| Gradient mode | Fast     |
| Excitation    | Standard |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |

\\USER\Brain\HARP\_Prisma\_VE11C\HARP\_20190617\BOLD\_CARIT\_PA

TA: 4:08 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : efpid

**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                        | On                 |
| Start measurements                            | Single measurement |

**Routine**

|                          |                   |
|--------------------------|-------------------|
| Slice group              | 1                 |
| Slices                   | 60                |
| Dist. factor             | 0 %               |
| Position                 | Isocenter         |
| Orientation              | Transversal       |
| Phase enc. dir.          | A >> P            |
| AutoAlign                | Head > Brain      |
| Phase oversampling       | 0 %               |
| FoV read                 | 206 mm            |
| FoV phase                | 100.0 %           |
| Slice thickness          | 2.40 mm           |
| TR                       | 800 ms            |
| TE                       | 34.40 ms          |
| Multi-band accel. factor | 6                 |
| Filter                   | Prescan Normalize |
| Coil elements            | HEA;HEP           |

**Contrast - Common**

|                   |          |
|-------------------|----------|
| TR                | 800 ms   |
| TE                | 34.40 ms |
| MTC               | Off      |
| Magn. preparation | None     |
| Flip angle        | 52 deg   |
| Fat suppr.        | Fat sat. |

**Contrast - Dynamic**

|                 |           |
|-----------------|-----------|
| Averaging mode  | Long term |
| Reconstruction  | Magnitude |
| Measurements    | 300       |
| Delay in TR     | 0 ms      |
| Multiple series | Off       |

**Resolution - Common**

|                       |         |
|-----------------------|---------|
| FoV read              | 206 mm  |
| FoV phase             | 100.0 % |
| Slice thickness       | 2.40 mm |
| Base resolution       | 86      |
| Phase resolution      | 100 %   |
| Phase partial Fourier | Off     |
| Interpolation         | Off     |

**Resolution - iPAT**

|          |      |
|----------|------|
| PAT mode | None |
|----------|------|

**Resolution - Filter Image**

|                  |     |
|------------------|-----|
| Distortion Corr. | Off |
|------------------|-----|

**Resolution - Filter Image**

|                   |    |
|-------------------|----|
| Prescan Normalize | On |
|-------------------|----|

**Resolution - Filter Rawdata**

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

**Geometry - Common**

|                          |             |
|--------------------------|-------------|
| Slice group              | 1           |
| Slices                   | 60          |
| Dist. factor             | 0 %         |
| Position                 | Isocenter   |
| Orientation              | Transversal |
| Phase enc. dir.          | A >> P      |
| FoV read                 | 206 mm      |
| FoV phase                | 100.0 %     |
| Slice thickness          | 2.40 mm     |
| TR                       | 800 ms      |
| Multi-slice mode         | Interleaved |
| Series                   | Interleaved |
| Multi-band accel. factor | 6           |

**Geometry - AutoAlign**

|                     |              |
|---------------------|--------------|
| Slice group         | 1            |
| Position            | Isocenter    |
| Orientation         | Transversal  |
| Phase enc. dir.     | A >> P       |
| AutoAlign           | Head > Brain |
| Initial Position    | Isocenter    |
| L                   | 0.0 mm       |
| P                   | 0.0 mm       |
| H                   | 0.0 mm       |
| Initial Rotation    | -1.83 deg    |
| Initial Orientation | Transversal  |

**Geometry - Saturation**

|              |          |
|--------------|----------|
| Fat suppr.   | Fat sat. |
| Special sat. | None     |

**System - Miscellaneous**

|                     |                |
|---------------------|----------------|
| Positioning mode    | FIX            |
| 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 |
| Matrix Optimization | Off            |
| AutoAlign           | Head > Brain   |
| Coil Select Mode    | Off - All      |

**System - Adjustments**

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

**System - Adjust Volume**

|             |             |
|-------------|-------------|
| Position    | Isocenter   |
| Orientation | Transversal |
| Rotation    | -1.83 deg   |
| A >> P      | 206 mm      |
| R >> L      | 206 mm      |
| F >> H      | 144 mm      |
| Reset       | Off         |

**System - pTx Volumes**

|              |          |
|--------------|----------|
| B1 Shim mode | TrueForm |
| Excitation   | Standard |

**System - Tx/Rx**

|                     |                |
|---------------------|----------------|
| Frequency 1H        | 123.256595 MHz |
| Correction factor   | 1              |
| Gain                | High           |
| Img. Scale Cor.     | 1.000          |
| Reset               | Off            |
| ? Ref. amplitude 1H | 0.000 V        |

**Physio - Signal1**

|                          |        |
|--------------------------|--------|
| 1st Signal/Mode          | None   |
| TR                       | 800 ms |
| Multi-band accel. factor | 6      |

**BOLD**

|                         |          |
|-------------------------|----------|
| GLM Statistics          | Off      |
| Dynamic t-maps          | Off      |
| Ignore meas. at start   | 0        |
| Ignore after transition | 0        |
| Model transition states | On       |
| Temp. highpass filter   | On       |
| Threshold               | 4.00     |
| Paradigm size           | 3        |
| Meas[1]                 | Baseline |
| Meas[2]                 | Baseline |
| Meas[3]                 | Active   |
| Motion correction       | Off      |
| Spatial filter          | Off      |
| Measurements            | 300      |
| Delay in TR             | 0 ms     |
| Multiple series         | Off      |

**Sequence - Part 1**

|                   |             |
|-------------------|-------------|
| Introduction      | Off         |
| Contrasts         | 1           |
| Flow comp.        | No          |
| Multi-slice mode  | Interleaved |
| Free echo spacing | Off         |
| Echo spacing      | 0.63 ms     |
| Bandwidth         | 2076 Hz/Px  |

**Sequence - Part 2**

|               |              |
|---------------|--------------|
| EPI factor    | 86           |
| Gradient mode | Performance* |
| Excitation    | Standard     |
| RF spoiling   | Off          |

**Sequence - Special**

|                       |         |
|-----------------------|---------|
| Excite pulse duration | 6600 us |
| Single-band images    | On      |
| MB LeakBlock kernel   | On      |
| MB dual kernel        | Off     |

**Sequence - Special**

|                          |          |
|--------------------------|----------|
| MB RF phase scramble     | Off      |
| SENSE1 coil combine      | Off      |
| Invert RO/PE polarity    | On       |
| Disable freq. update     | Off      |
| Force equal slice timing | Off      |
| Online multi-band recon. | Online   |
| FFT scale factor         | 1.00     |
| Physio recording         | Off      |
| Triggering scheme        | Standard |