

# APPENDIX A: RF EXPOSURE TEST PLOTS

## Plot A-1 Verification Test Data

### cDASY6 Module WPT Measurement Report

| Device under test               | Tool info                                                                                 | Scan info                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Info:<br>85kHz Verification     | DASY software version:<br>cDASY6 Module WPT 2.8.0.5184                                    | Center location:<br>x: 698.57 mm, y: 37.97 mm, z: 267.92 mm |
| Serial number:<br>1031          | Probe model, serial no. and configuration date:<br>MAGPy-8H3D+E3Dv2, WP000261, 2024/08/14 | Dimensions:<br>x: 388.0 mm, y: 477.0 mm, z: 37.0 mm         |
| Scenario:<br>85kHz Verification | Software version:<br>2.8.8, backend: 2.2.36                                               | Resolution:<br>x: 7.33 mm, y: 7.33 mm, z: 7.33 mm           |
|                                 |                                                                                           | Completed on:<br>2025/04/07 10:05:11                        |

#### Measurement results

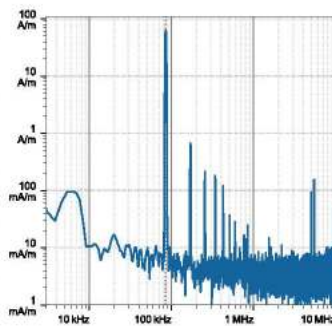
Maximum H-field [rms]:  
MAGNITUDE: 130.91 A/m  
x: 8.14 A/m, y: 108.50 A/m, z: 72.79 A/m  
Maximum H-field location relative to DUT:  
x: 62.33 mm, y: 143.00 mm, z: 8.50 mm

Maximum E-field [rms]:  
MAGNITUDE: 116.49 V/m  
x: 10.67 V/m, y: 7.32 V/m, z: 115.77 V/m  
Maximum E-field location relative to DUT:  
x: 102.67 mm, y: -88.00 mm, z: 0.00 mm

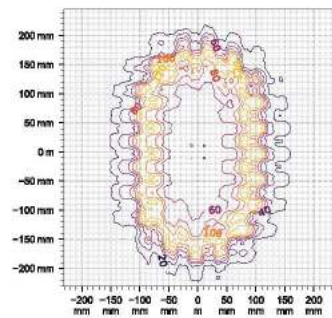
Distance to -20.0 dB boundary:  
52.88 mm

Offset relative to DUT:  
x: 0.00 m, y: 0.00 m, z: 1.00 mm

#### H-field magnitude [rms] at center location



#### H-field magnitude [rms] at lowest plane



#### Incident fields and induced fields in the homogeneous phantom at the peak frequency (f = 85.00 kHz, $\sigma = 0.750$ S/m, tissue density = 1,000 kg/m<sup>3</sup>)

| Distance [mm] | Peak incident fields [rms] |                        | Peak E <sub>ind</sub> [V/m, rms] |       |           | Peak J <sub>ind</sub> [A/m <sup>2</sup> , rms] |         | psSAR [mW/kg] |                    | H-field extent |  | Sign | Vector potential | Warnings<br>Boundary effect |
|---------------|----------------------------|------------------------|----------------------------------|-------|-----------|------------------------------------------------|---------|---------------|--------------------|----------------|--|------|------------------|-----------------------------|
|               | H <sub>inc</sub> [A/m]     | E <sub>inc</sub> [V/m] | Cube avg.                        | Local | Line avg. | Surface avg.                                   | 1g avg. | 10g avg.      | -20 dB radius [mm] |                |  |      |                  |                             |
| 0.00          | 238                        | 116                    | 3.09                             | 3.14  | 3.13      | 2.16                                           | 5.57    | 4.36          | 180                |                |  | 1%   | 133%             | 44%                         |
| 2.00          | 205                        | 106                    | 2.93                             | 2.97  | 2.97      | 2.09                                           | 5.28    | 4.09          | 183                |                |  | 1%   | 133%             | 44%                         |

#### Compliance evaluation (Field values at the peak frequency) (f = 85.00 kHz, total field evaluation)

| Distance [mm] | ICNIRP 2010/2020  |                   |                   |          | ICNIRP 1998       |                   |                     |          | IEEE 2019         |                   |                   |          | FCC               |                   |                   |          | HC Code 6         |                   |                   |          |
|---------------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|---------------------|----------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|-------------------|----------|
|               | RL [rms]          | BR [rms]          | RL [rms]          | BR [rms] | ERL [rms]         | DRL [rms]         | MPE [rms]           | BR [rms] | RL [rms]          | BR [rms]          | RL [rms]          | BR [rms] | RL [rms]          | BR [rms]          | RL [rms]          | BR [rms] | RL [rms]          | BR [rms]          | RL [rms]          | BR [rms] |
|               | pH <sub>inc</sub> | pE <sub>inc</sub> | pE <sub>ind</sub> | psSAR    | pH <sub>inc</sub> | pE <sub>inc</sub> | pJ <sub>ind</sub>   | psSAR    | pH <sub>inc</sub> | pE <sub>inc</sub> | pE <sub>ind</sub> | psSAR    | pH <sub>inc</sub> | pE <sub>inc</sub> | pE <sub>ind</sub> | psSAR    | pH <sub>inc</sub> | pE <sub>inc</sub> | pE <sub>ind</sub> | psSAR    |
|               | [A/m]             | [V/m]             | [V/m]             | [mW/kg]  | [A/m]             | [V/m]             | [A/m <sup>2</sup> ] | [mW/kg]  | [A/m]             | [V/m]             | [V/m]             | [mW/kg]  | [A/m]             | [V/m]             | [V/m]             | [mW/kg]  | [A/m]             | [V/m]             | [V/m]             | [mW/kg]  |
| 0.00          | 238               | 116               | 3.10              | 4.36     | 238               | 116               | 2.16                | 4.36     | 238               | 116               | 3.14              | 4.36     | 238               | 116               | N/A               | 5.57     | 238               | 116               | 3.14              | 5.57     |
| 2.00          | 205               | 106               | 2.93              | 4.09     | 205               | 106               | 2.09                | 4.09     | 205               | 106               | 2.97              | 4.09     | 205               | 106               | N/A               | 5.28     | 205               | 106               | 2.97              | 5.28     |

#### Compliance evaluation (Exposure ratios) (w/ multi-frequency enhancement, total field evaluation)

| Distance [mm] | ICNIRP 2010/2020  |                   |                   |       | ICNIRP 1998       |                   |                   |       | IEEE 2019         |                   |                   |       | FCC               |                   |                   |       | HC Code 6         |                   |                   |       |
|---------------|-------------------|-------------------|-------------------|-------|-------------------|-------------------|-------------------|-------|-------------------|-------------------|-------------------|-------|-------------------|-------------------|-------------------|-------|-------------------|-------------------|-------------------|-------|
|               | RL                | BR                | RL                | BR    | ERL               | DRL               | MPE               | BR    | RL                | BR                | RL                | BR    | RL                | BR                | RL                | BR    | RL                | BR                | RL                | BR    |
|               | pH <sub>inc</sub> | pE <sub>inc</sub> | pE <sub>ind</sub> | psSAR | pH <sub>inc</sub> | pE <sub>inc</sub> | pJ <sub>ind</sub> | psSAR | pH <sub>inc</sub> | pE <sub>inc</sub> | pE <sub>ind</sub> | psSAR | pH <sub>inc</sub> | pE <sub>inc</sub> | pE <sub>ind</sub> | psSAR | pH <sub>inc</sub> | pE <sub>inc</sub> | pE <sub>ind</sub> | psSAR |
|               | NS                | TH                | NS                | TH    | NS                | TH                | NS                | TH    | NS                | TH                | NS                | TH    | NS                | TH                | NS                | TH    | NS                | TH                | NS                | TH    |
| 0.00          | 11.3              | N/A               | 3.66              | N/A   | 0.27              | N/A               | 47.6              | 3.23  | 12.7              | N/A               | 1.46              | N/A   | 0.50              | N/A               | 0.18              | N/A   | 2.64              | 2.17              | N/A               | N/A   |
| 2.00          | 9.77              | N/A               | 3.35              | N/A   | 0.26              | N/A               | 41.0              | 2.95  | 12.3              | N/A               | 1.26              | N/A   | 0.45              | N/A               | 0.17              | N/A   | 2.28              | 1.98              | N/A               | N/A   |

Document generated at 2025/04/07 12:20:52, simulation performed at 2025/04/07 10:22:53 using Sim4Life version 8.0.1.15737

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|                                      |                                       |                                   |                                   |
|--------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| FCC ID: A3LSMF966JPN                 |                                       | WPT RF EXPOSURE EVALUATION REPORT | Reviewed by:<br>Technical Manager |
| Test Dates:<br>3/27/2025 – 4/27/2025 | Apparatus/Device:<br>Portable Handset |                                   | APPENDIX A:<br>Page 1 of 2        |

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## Plot A-2 Worst Case Test Data

### cDASY6 Module WPT Measurement Report

| Device under test                               | Tool info                                                                                 | Scan info                                                    |
|-------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Info:<br>A3LSMF966U                             | DASY software version:<br>cDASY6 Module WPT 2.8.0.5184                                    | Center location:<br>x: -25.92 mm, y: -176.85 mm, z: 25.68 mm |
| Serial number:<br>1785M                         | Probe model, serial no. and configuration date:<br>MAGPy-8H3D+E3Dv2, WP000261, 2024/08/14 | Dimensions:<br>x: 168.7 mm, y: 256.8 mm, z: 36.6 mm          |
| Scenario:<br>Ping Signal Backside Folder Closed | Software version:<br>2.8.8, backend: 2.2.36                                               | Resolution:<br>x: 7.33 mm, y: 7.33 mm, z: 7.33 mm            |
|                                                 |                                                                                           | Completed on:<br>2025/04/07 12:59:35                         |

#### Measurement results

Maximum H-field [rms]:

MAGNITUDE: 177.67 A/m

x: 41.76 A/m, y: 18.61 A/m, z: 171.69 A/m

Maximum H-field location relative to DUT:

x: -11.00 mm, y: 3.67 mm, z: 8.50 mm

Maximum E-field [rms]:

MAGNITUDE: 29.73 V/m

x: 7.23 V/m, y: 2.04 V/m, z: 28.77 V/m

Maximum E-field location relative to DUT:

x: -29.33 mm, y: 14.67 mm, z: 0.00 mm

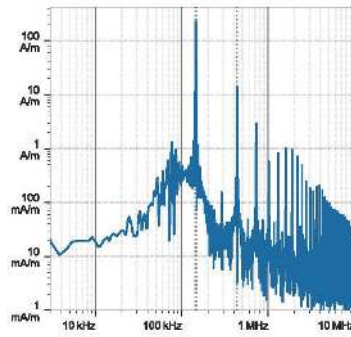
Distance to -20.0 dB boundary:

29.33 mm

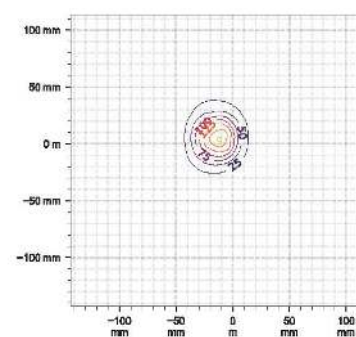
Offset relative to DUT:

x: 0.00 mm, y: 0.00 mm, z: 1.00 mm

#### H-field magnitude [rms] at center location



#### H-field magnitude [rms] at lowest plane



#### Incident fields and induced fields in the homogeneous phantom at the peak frequency (f=144.84 kHz, $\sigma=0.780\text{ S/m}$ , tissue density = 1,000 kg/m<sup>3</sup>)

| Distance [mm] | Peak incident fields [rms] |                        | Peak E <sub>ind</sub> [V/m, rms] |       |           | Peak J <sub>ind</sub> [A/m <sup>2</sup> , rms] |         | psSAR [mW/kg] |                    | H-field extent |                  | Warnings        |  |
|---------------|----------------------------|------------------------|----------------------------------|-------|-----------|------------------------------------------------|---------|---------------|--------------------|----------------|------------------|-----------------|--|
|               | H <sub>inc</sub> [A/m]     | E <sub>inc</sub> [V/m] | Cube avg.                        | Local | Line avg. | Surface avg.                                   | 1g avg. | 10g avg.      | -20 dB radius [mm] | Sign           | Vector potential | Boundary effect |  |
| 0.00          | 384                        | 29.7                   | 1.60                             | 1.65  | 1.65      | 0.974                                          | 0.886   | 0.392         | 32.6               | 6%             | 11%              | 7%              |  |
| 2.00          | 334                        | 28.1                   | 1.34                             | 1.39  | 1.39      | 0.799                                          | 0.605   | 0.271         | 32.8               | 6%             | 11%              | 8%              |  |

#### Compliance evaluation (Field values at the peak frequency) (f=144.84 kHz, total field evaluation, coverage evaluation)

| Distance [mm] | ICNIRP 2010/2020 |                         |                         |               | ICNIRP 1998             |                         |                                       |               | IEEE 2019               |                         |                         |               | FCC                     |                         |                         |               | HC Code 6               |                         |                         |               |
|---------------|------------------|-------------------------|-------------------------|---------------|-------------------------|-------------------------|---------------------------------------|---------------|-------------------------|-------------------------|-------------------------|---------------|-------------------------|-------------------------|-------------------------|---------------|-------------------------|-------------------------|-------------------------|---------------|
|               | RL [A/m]         | PE <sub>inc</sub> [V/m] | PE <sub>ind</sub> [V/m] | psSAR [mW/kg] | PH <sub>inc</sub> [A/m] | PE <sub>inc</sub> [V/m] | PJ <sub>ind</sub> [A/m <sup>2</sup> ] | psSAR [mW/kg] | PH <sub>inc</sub> [A/m] | PE <sub>inc</sub> [V/m] | PE <sub>ind</sub> [V/m] | psSAR [mW/kg] | PH <sub>inc</sub> [A/m] | PE <sub>inc</sub> [V/m] | PE <sub>ind</sub> [V/m] | psSAR [mW/kg] | PH <sub>inc</sub> [A/m] | PE <sub>inc</sub> [V/m] | PE <sub>ind</sub> [V/m] | psSAR [mW/kg] |
| 0.00          | 384              | 29.7                    | 8.46                    | 0.392         | 384                     | 29.7                    | 0.975                                 | 0.392         | 384                     | 29.7                    | 4.79                    | 0.392         | 384                     | 29.7                    | N/A                     | 0.886         | 384                     | 29.7                    | 12.3                    | 0.886         |
| 2.00          | 334              | 28.1                    | 7.10                    | 0.271         | 334                     | 28.1                    | 0.800                                 | 0.271         | 334                     | 28.1                    | 4.04                    | 0.271         | 334                     | 28.1                    | N/A                     | 0.605         | 334                     | 28.1                    | 10.4                    | 0.605         |

Coverage factors:  $\psi_{E_{ind}, cube avg} = [5.29, 5.79]$ ,  $\psi_{E_{ind}, local} = [0.47, 1.45]$ ,  $\psi_{E_{ind}, line avg} = [2.51, 2.91]$

#### Compliance evaluation (Exposure ratios) (with multi-frequency enhancement, total field evaluation, coverage evaluation)

| Distance [mm] | ICNIRP 2010/2020 |      |      |      | ICNIRP 1998 |       |      |      | IEEE 2019 |       |      |      | FCC  |      |      |       | HC Code 6 |      |     |       |
|---------------|------------------|------|------|------|-------------|-------|------|------|-----------|-------|------|------|------|------|------|-------|-----------|------|-----|-------|
|               | RL               | BR   | RL   | BR   | RL          | BR    | RL   | BR   | RL        | BR    | RL   | BR   | RL   | BR   | RL   | BR    | RL        | BR   | RL  | BR    |
|               | NS               | TH   | NS   | TH   | NS          | TH    | NS   | TH   | NS        | TH    | NS   | TH   | NS   | TH   | NS   | TH    | NS        | TH   | NS  | TH    |
| 0.00          | 19.5             | 11.8 | 1.08 | 0.10 | 0.46        | <0.01 | 79.7 | 1.22 | 3.59      | <0.01 | 2.51 | 1.59 | 0.15 | 0.04 | 0.17 | <0.01 | 237.0     | 0.19 | N/A | <0.01 |
| 2.00          | 16.9             | 10.3 | 1.02 | 0.09 | 0.39        | <0.01 | 69.3 | 1.16 | 2.95      | <0.01 | 2.18 | 1.38 | 0.14 | 0.04 | 0.14 | <0.01 | 208.0     | 0.18 | N/A | <0.01 |

Coverage factors:  $\psi_{E_{ind}, cube avg} = [5.29, 5.79]$ ,  $\psi_{E_{ind}, local} = [0.47, 1.45]$ ,  $\psi_{E_{ind}, line avg} = [2.51, 2.91]$

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|                                      |                                                                                     |                                   |                                   |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|
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| Test Dates:<br>3/27/2025 – 4/27/2025 | Apparatus/Device:<br>Portable Handset                                               |                                   | APPENDIX A:<br>Page 2 of 2        |

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