

Appendix C: System Check Plots

RF SAFETY LABORATORY

DASY8 Module WPT Measurement Report

Device under test	Tool info	Scan info
Info: 85 kHz System Verification	DASY software version: DASY8 Module WPT 2.8.0.5184	Center location: x: -12.02 mm, y: -3.91 mm, z: 36.22 mm
Serial number: 1025	Probe model, serial no. and configuration date: MAGPy-8H3D+E3Dv2, W/P000267, 2025/10/03	Dimensions: x: 389.0 mm, y: 477.0 mm, z: 36.7 mm
Scenario: not set	Software version: 2.8.8, backend: 2.2.36	Resolution: x: 7.33 mm, y: 7.33 mm, z: 7.33 mm
		Completed on: 2025/12/03

Measurement results

Maximum H-field [rms]:
MAGNITUDE: 126.88 A/m
x: 111.44 A/m, y: 28.74 A/m, z: 53.41 A/m

Maximum H-field location relative to DUT:
x: 84.33 mm, y: 91.67 mm, z: 8.50 mm

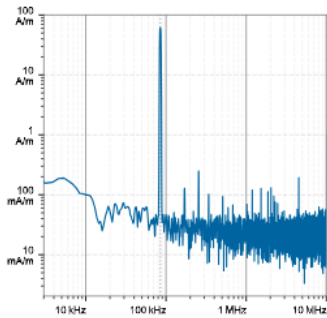
Maximum E-field [rms]:
MAGNITUDE: 169.58 V/m
x: 11.87 V/m, y: 4.06 V/m, z: 169.12 V/m

Maximum E-field location relative to DUT:
x: 88.00 mm, y: 146.67 mm, z: 0.00 m

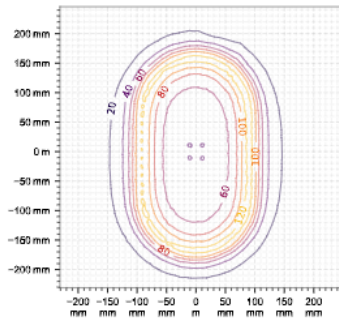
Distance to -20.0 dB boundary:
67.61 mm

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, σ=0.750 S/m, tissue density=1,000 kg/m³)

	Peak incident fields [μs]		Peak E _{ind} [V/m, μs]			Peak J _{ind} [A/m ² , μs]	psSAR [mW/kg]		H-field extent			Warnings
Distance [mm]	H _{inc} [A/m]	E _{inc} [V/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius [mm]	Sign	Vector potential	Boundary effect
0.00	196	170	3.22	3.25	3.25	2.27	6.07	4.54	182	1%	70%	40%

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

Distance [mm]	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6			
	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]
0.00	196	170	24.2	4.54	196	170	2.27	4.54	196	170	12.6	4.54	196	170	N/A	6.07	196	170	34.5	6.07

Coverage factors: w_{E_{ind}, cube avg.} = [7.53], w_{E_{ind}, total} = [10.64], w_{E_{ind}, line avg.} = [3.87]

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

Distance [mm]	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6			
	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]	RL [μs]	BR [μs]
0.00	19.4	N/A	16.4	N/A	6.5	N/A	31.9	17.2	22.5	N/A	1.82	N/A	-1.01	N/A	-2.99	N/A	6.78	10.9	N/A	N/A

Coverage factors: w_{E_{ind}, cube avg.} = [7.53], w_{E_{ind}, total} = [10.64], w_{E_{ind}, line avg.} = [3.87]

Device under test

Info:
85 kHz System Verification

Serial number:
1025

Scenario:
not set

Tool info

DASY software version:
DASY8 Module WPT 2.8.0.5184

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000267, 2025/10/03

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: -9.94 mm, y: -30.29 mm, z: 36.26 mm

Dimensions:
x: 389.0 mm, y: 476.0 mm, z: 36.6 mm

Resolution:
x: 7.33 mm, y: 7.33 mm, z: 7.33 mm

Completed on:
2025/12/08

Measurement results

Maximum H-field [rms]:
MAGNITUDE: 130.15 A/m
x: 111.34 A/m, y: 33.82 A/m, z: 58.32 A/m

Maximum H-field location relative to DUT:
x: 84.33 mm, y: 99.00 mm, z: 8.50 mm

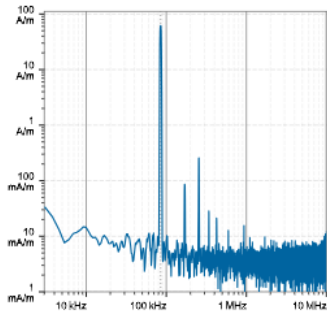
Maximum E-field [rms]:
MAGNITUDE: 165.45 V/m
x: 13.55 V/m, y: 5.98 V/m, z: 164.79 V/m

Maximum E-field location relative to DUT:
x: 88.00 mm, y: 146.67 mm, z: 0.00 m

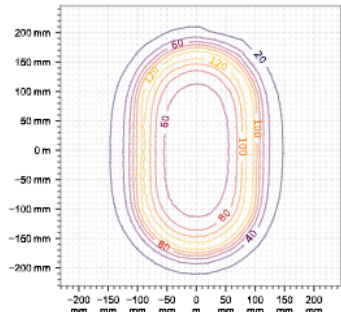
Distance to -20.0 dB boundary:
67.61 mm

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, σ=0.750 S/m, tissue density=1,000 kg/m³)

	Peak incident fields [μV]		Peak E _{ind} [V/m, μV]			Peak J _{ind} [A/m ² , μV]	psSAR [mW/kg]		H-field extent			Warnings
Distance [mm]	H _{inc} [A/m]	E _{inc} [V/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius [mm]	Sign	Vector potential	Boundary effect
0.00	198	165	3.27	3.30	3.31	2.30	6.25	4.67	183	1%	73%	36%

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

Distance [mm]	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6			
	RL [μV]		BR [μV]		RL [μV]		BR [μV]		ERL [μV]		DRL [μV]		MPE [μV]		BR [μV]		RL [μV]		BR [μV]	
	pH _{inc} [A/m]	pE _{inc} [V/m]	pE _{ind} [V/m]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pJ _{ind} [A/m²]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pE _{ind} [V/m]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pE _{ind} [V/m]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pE _{ind} [V/m]	psSAR [mW/kg]
0.00	198	165	24.6	4.67	198	165	2.31	4.67	198	165	12.8	4.67	198	165	N/A	6.25	198	165	35.1	6.25

Coverage factors: $w_{E_{ind, cube\ avg}} = [7.54]$, $w_{E_{ind, local}} = [10.65]$, $w_{E_{ind, line\ avg}} = [3.87]$

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

Distance [mm]	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6			
	RL		BR		RL		BR		ERL		DRL		MPE		BR		RL		BR	
	pH _{inc}	pE _{inc}	pE _{ind}	psSAR	pH _{inc}	pE _{inc}	pJ _{ind}	psSAR	pH _{inc}	pE _{inc}	pE _{ind}	psSAR	pH _{inc}	pE _{inc}	pE _{ind}	psSAR	pH _{inc}	pE _{inc}	pE _{ind}	psSAR
0.00	19.5	N/A	17.8	N/A	6.64	N/A	31.9	17.6	22.7	N/A	1.67	N/A	0.42	N/A	-2.85	N/A	6.83	11.2	N/A	N/A

Coverage factors: $w_{E_{ind, cube\ avg}} = [7.54]$, $w_{E_{ind, local}} = [10.65]$, $w_{E_{ind, line\ avg}} = [3.87]$