

Appendix C: System Check Plots

RF SAFETY LABORATORY

DASY8 Module WPT Measurement Report

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, 2024/10/10

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: 1.15 mm, y: 1.19 mm, z: 35.94 mm

Dimensions:
x: 389.0 mm, y: 477.0 mm, z: 36.7 mm

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

Completed on:
2025/07/30

Measurement results

Maximum H-field [rms]:
MAGNITUDE: 131.70 A/m
x: 15.36 A/m, y: 117.12 A/m, z: 58.24 A/m

Maximum H-field location relative to DUT:
x: -11.00 mm, y: -165.00 mm, z: 8.50 mm

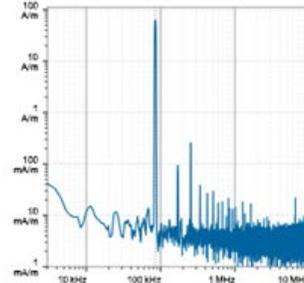
Maximum E-field [rms]:
MAGNITUDE: 163.21 V/m
x: 13.70 V/m, y: 4.30 V/m, z: 162.58 V/m

Maximum E-field location relative to DUT:
x: 51.33 mm, y: -161.33 mm, z: 0.00 mm

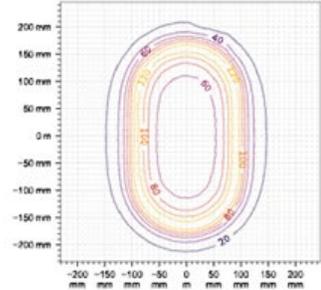
Distance to -20.0 dB boundary:
60.47 mm

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/m³)

Distance [mm]	Peak incident fields [rms]				Peak E _{inc} [V/m, rms]			Peak J _{ind} [A/m ² , rms]			psSAR [mW/kg]		H-field extent -20 dB radius [mm]	Sign	Vector potential	Warnings Boundary effect
	H _{inc} [A/m]	E _{inc} [V/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.								
0.00	204	163	3.29	3.31	3.32	2.32	6.35	4.75	182	1%	76%	37%				

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 [μVs]	BR [μVs]	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/m ²]	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]
0.00	204	163	24.7	4.75	204	163	2.32	4.75	204	163	12.9	4.75	204	163	N/A	6.35	204	163	35.2	6.35	

Coverage factors: $w_{E_{ind, 100\mu m}} = [7.53]$, $w_{E_{ind, 100\mu m}} = [10.63]$, $w_{E_{ind, 100\mu m}} = [3.87]$

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									
	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH				
0.00	19.7	N/A	18.7	N/A	6.67	N/A	32.2	17.0	22.7	N/A	1.94	N/A	-0.66	N/A	-2.81	N/A	7.1	11.0	N/A	N/A	7.1	N/A	18.7	N/A	9.75	N/A

Coverage factors: $w_{E_{ind, 100\mu m}} = [7.53]$, $w_{E_{ind, 100\mu m}} = [10.63]$, $w_{E_{ind, 100\mu m}} = [3.87]$

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Tool info

DASY software version:
DASY8 Module WPT 2.8.0.5184

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000267, 2024/10/10

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: -18.20 mm, y: 1.57 mm, z: 35.91 mm

Dimensions:
x: 388.0 mm, y: 476.0 mm, z: 36.7 mm

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

Completed on:
2025/08/25

Measurement results

Maximum H-field [rms]:
MAGNITUDE: 128.73 A/m
x: 463.85 mA/m, y: 112.18 A/m, z: 63.14 A/m

Maximum H-field location relative to DUT:
x: 3.67 mm, y: -165.00 mm, z: 8.50 mm

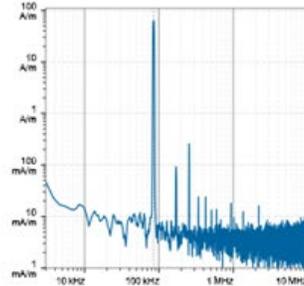
Maximum E-field [rms]:
MAGNITUDE: 167.30 V/m
x: 13.55 V/m, y: 5.14 V/m, z: 166.67 V/m

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

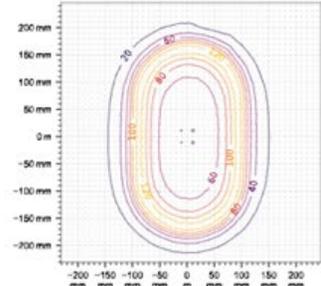
Distance to -20.0 dB boundary:
66.00 mm

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, $\sigma = 0.750 \text{ S/m}$, tissue density = 1,000 kg/m³)

Distance [mm]	Peak incident fields [rms]				Peak E _{ind} [V/m, rms]			Peak J _{ind} [A/m ² , rms]		psSAR [mW/kg]		H-field extent		Sign	Vector potential	Warnings
	H _{inc} [A/m]	E _{inc} [V/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius [mm]		Boundary effect					
0.00	200	167	3.29	3.32	3.32	2.31	6.29	4.70	183	1%	68%	39%				

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 [rms]	BR [rms]	ERL [rms]	DRL [rms]	pH _{inc} [A/m]	pE _{inc} [V/m]	pJ _{ind} [A/m ²]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pJ _{ind} [A/m ²]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pJ _{ind} [A/m ²]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pJ _{ind} [A/m ²]	psSAR [mW/kg]
0.00	200	167	24.8	4.70	200	167	2.32	4.70	200	167	12.9	4.70	200	167	N/A	6.29	200	167	35.3	6.29

Coverage factors: $w_{pH_{inc}, 100\mu W/kg} = [7.54]$, $w_{pE_{inc}, 100\mu W/kg} = [10.65]$, $w_{pJ_{ind}, 100\mu W/kg} = [3.88]$

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									
	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH						
0.00	19.6	N/A	16.5	N/A	6.09	N/A	32.0	16.8	22.7	N/A	1.76	N/A	-0.92	N/A	-2.79	N/A	6.92	11.0	N/A	N/A	6.92	N/A	16.5	N/A	9.77	N/A

Coverage factors: $w_{pH_{inc}, 100\mu W/kg} = [7.54]$, $w_{pE_{inc}, 100\mu W/kg} = [10.65]$, $w_{pJ_{ind}, 100\mu W/kg} = [3.88]$

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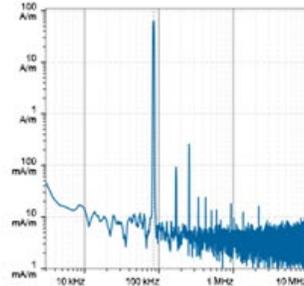
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MAGNITUDE: 167.30 V/m
x: 13.55 V/m, y: 5.14 V/m, z: 166.67 V/m

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

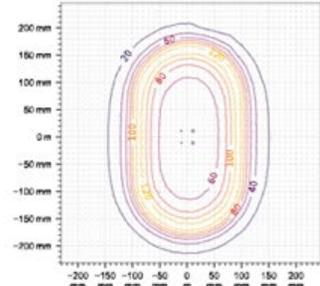
Distance to -20.0 dB boundary:
66.00 mm

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



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	H _{inc} [A/m]	E _{inc} [V/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius [mm]		Boundary effect					
0.00	200	167	3.29	3.32	3.32	2.31	6.29	4.70	183	1%	66%	39%				

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 [rms]	BR [rms]	psSAR	psSAR	RL [rms]	BR [rms]	psSAR	psSAR	ERL [rms]	DRL [rms]	psSAR	psSAR	MPE [rms]	BR [rms]	psSAR	psSAR	RL [rms]	BR [rms]	psSAR	psSAR
0.00	200	167	24.8	4.70	200	167	2.32	4.70	200	167	12.9	4.70	200	167	N/A	6.29	200	167	35.3	6.29

Coverage factors: $w_{E_{ind, total}} = [7.54]$, $w_{E_{ind, local}} = [10.65]$, $w_{E_{ind, line avg}} = [3.88]$

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Distance [mm]	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6									
	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH						
0.00	19.6	N/A	16.5	N/A	6.69	N/A	32.0	16.8	22.7	N/A	1.76	N/A	-0.92	N/A	-2.79	N/A	6.92	11.0	N/A	N/A	6.92	N/A	16.5	N/A	9.77	N/A

Coverage factors: $w_{E_{ind, total}} = [7.54]$, $w_{E_{ind, local}} = [10.65]$, $w_{E_{ind, line avg}} = [3.88]$