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: -6.69 mm, Y: -4.81 mm, z: 36.12 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:
2025/08/04

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 128.62 A/m
x: 109.41 A/m, Y: 35.42 A/m, z: 57.59 A/m

Maximum H-field location relative to DUT:
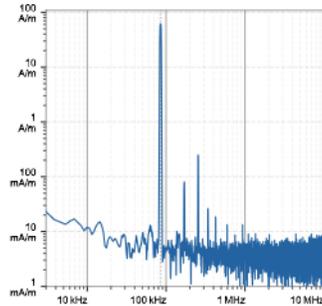x: -84.33 mm, Y: -106.33 mm, z: 8.50 mm

Maximum E-field [RMS]:
MAGNITUDE: 146.96 V/m
x: 11.85 V/m, Y: 4.68 V/m, z: 146.41 V/m

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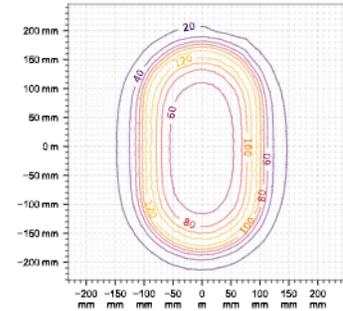x: 88.00 mm, Y: 146.67 mm, z: 0.00 m

Distance to -20.0 dB boundary:
65.59 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 homogeous phantom at the peak frequency
(f = 85.00 kHz, σ = 0.750 S/m, tissue density = 1,000 kg/m³)

Distance [mm]	Peak incident fields [RMS] H_{inc} [A/m]	Peak incident fields [RMS] E_{inc} [V/m]	Peak E_{ind} [V/m, RMS] Cube avg.	Peak E_{ind} [V/m, RMS] Local	Peak E_{ind} [V/m, RMS] Line avg.	Peak J_{ind} [A/m², RMS] Surface avg.	psSAR [mW/kg] 1g avg.	psSAR [mW/kg] 10g avg.	H-field extent -20 dB radius [mm]	Sign	Vector potential	Warnings Boundary effect
0.00	198	147	3.28	3.31	3.32	2.32	6.34	4.72	183	1%	81%	39%

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

Distance [mm]	ICNIRP 2010/2020 RL [RMS] pH_{inc} [A/m]	ICNIRP 2010/2020 RL [RMS] pE_{inc} [V/m]	ICNIRP 2010/2020 BR [RMS] pE_{ind} [V/m]	ICNIRP 2010/2020 BR [RMS] psSAR [mW/kg]	ICNIRP 1998 RL [RMS] pH_{inc} [A/m]	ICNIRP 1998 RL [RMS] pE_{inc} [V/m]	ICNIRP 1998 BR [RMS] pJ_{ind} [A/m²]	ICNIRP 1998 BR [RMS] psSAR [mW/kg]	IEEE 2019 ERL [RMS] pH_{inc} [A/m]	IEEE 2019 ERL [RMS] pE_{inc} [V/m]	IEEE 2019 DRL [RMS] pE_{ind} [V/m]	IEEE 2019 DRL [RMS] psSAR [mW/kg]	FCC MPE [RMS] pH_{inc} [A/m]	FCC MPE [RMS] pE_{inc} [V/m]	FCC BR [RMS] pE_{ind} [V/m]	FCC BR [RMS] psSAR [mW/kg]	HC Code 6 RL [RMS] pH_{inc} [A/m]	HC Code 6 RL [RMS] pE_{inc} [V/m]	HC Code 6 BR [RMS] pE_{ind} [V/m]	HC Code 6 BR [RMS] psSAR [mW/kg]
0.00	198	147	24.7	4.72	198	147	2.32	4.72	198	147	12.9	4.72	198	147	N/A	6.34	198	147	35.3	6.34

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 RL pH_{inc} NS	ICNIRP 2010/2020 RL pH_{inc} TH	ICNIRP 2010/2020 RL pE_{inc} NS	ICNIRP 2010/2020 RL pE_{inc} TH	ICNIRP 2010/2020 BR pE_{ind} NS	ICNIRP 2010/2020 BR pE_{ind} TH	ICNIRP 2010/2020 BR psSAR NS	ICNIRP 2010/2020 BR psSAR TH	ICNIRP 1998 RL pH_{inc} NS	ICNIRP 1998 RL pH_{inc} TH	ICNIRP 1998 RL pE_{inc} NS	ICNIRP 1998 RL pE_{inc} TH	ICNIRP 1998 BR pJ_{ind} NS	ICNIRP 1998 BR pJ_{ind} TH	ICNIRP 1998 BR psSAR NS	ICNIRP 1998 BR psSAR TH	IEEE 2019 ERL pH_{inc} NS	IEEE 2019 ERL pH_{inc} TH	IEEE 2019 ERL pE_{inc} NS	IEEE 2019 ERL pE_{inc} TH	IEEE 2019 DRL pE_{ind} NS	IEEE 2019 DRL pE_{ind} TH	IEEE 2019 DRL psSAR NS	IEEE 2019 DRL psSAR TH	FCC MPE pH_{inc} NS	FCC MPE pH_{inc} TH	FCC MPE pE_{inc} NS	FCC MPE pE_{inc} TH	FCC BR pE_{ind} NS	FCC BR pE_{ind} TH	FCC BR psSAR NS	FCC BR psSAR TH	HC Code 6 RL pH_{inc} NS	HC Code 6 RL pH_{inc} TH	HC Code 6 RL pE_{inc} NS	HC Code 6 RL pE_{inc} TH	HC Code 6 BR pE_{ind} NS	HC Code 6 BR pE_{ind} TH	HC Code 6 BR psSAR NS	HC Code 6 BR psSAR TH
0.00	19.5	N/A	14.6		6.68	N/A	32.0	14.2	22.7	N/A	1.7	N/A	-2.82	N/A	-2.81	N/A	6.86	9.25	N/A	N/A	N/A		6.86	N/A	14.6	N/A	9.75	N/A												

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