APPENDIX A: RF EXPOSURE TEST PLOTS

Plot A-1
Verification Test Data

cDASY6 Module WPT Measurement Report

Device under test

Info:
85kHz Verification

Serial number:
1031

Scenario:
85kHz Verification

Tool info

DASY software version:
cDASY6 Module WPT 2.8.0.5184

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000261, *2024/08/14*

Software version:
2.8.8, *backend: 2.2.36*

Scan info

Center location:
x: 698.57 mm, y: 37.97 mm, z: 267.92 mm

Dimensions:
x: 388.0 mm, y: 477.0 mm, z: 37.0 mm

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

Completed on:
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

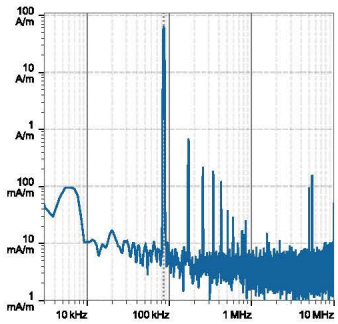
Maximum E-field [RMS]:
MAGNITUDE: 116.49 V/m
x: 10.67 V/m, y: 7.32 V/m, z: 115.77 V/m

Maximum E-field location relative to DUT:
x: 102.67 mm, y: -88.00 mm, z: 0.00 m

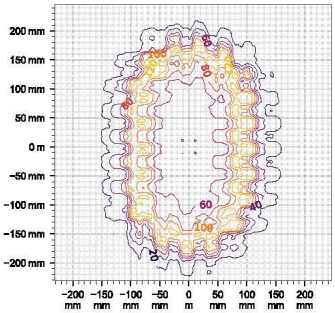
Distance to -20.0 dB boundary:
52.88 mm

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 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]		Peak E_{ind} [V/m, RMS]			Peak J_{ind} [A/m², RMS]	psSAR [mW/kg]		H-field extent	Warnings		
	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	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]	
	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	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) *(with 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	
	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
	NS	TH	NS	TH	NS	TH	N/A	N/A	NS	TH	NS	TH	NS	TH	NS	TH	N/A	N/A	N/A	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	2.64	N/A	3.66	N/A	0.27	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	2.28	N/A	3.35	N/A	0.26	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

1/1

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Plot A-2
Worst Case Test Data

cDASY6 Module WPT Measurement Report

Device under test

Info:
A3LSMF966U

Serial number:
1785M

Scenario:
Ping Signal Backside Folder Closed

Tool info

DASY software version:
cDASY6 Module WPT 2.8.0.5184

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000261, *2024/08/14*

Software version:
2.8.8, *backend: 2.2.36*

Scan info

Center location:
x: -25.92 mm, y: -176.85 mm, z: 25.68 mm

Dimensions:
x: 168.7 mm, y: 256.8 mm, z: 36.6 mm

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

Completed on:
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

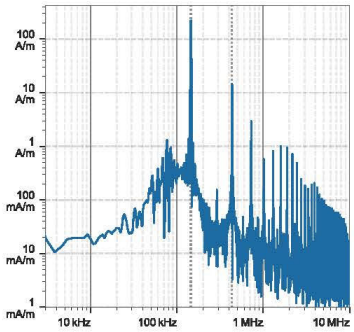
Maximum E-field [RMS]:
MAGNITUDE: 29.73 V/m
x: 7.23 V/m, y: 2.04 V/m, z: 28.77 V/m

Maximum E-field location relative to DUT:
x: -29.33 mm, y: 14.67 mm, z: 0.00 m

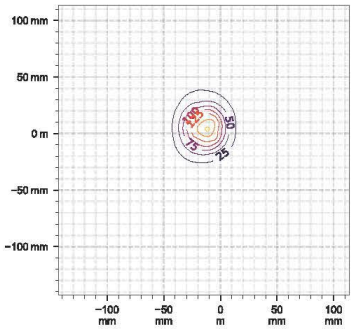
Distance to -20.0 dB boundary:
29.33 mm

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 = 144.84 kHz, σ = 0.750 S/m, tissue density = 1,000 kg/m³)

Distance [mm]	Peak incident fields [RMS]		Peak E_{ind} [V/m, RMS]			Peak J_{ind} [A/m², RMS]	psSAR [mW/kg]		H-field extent	Warnings		
	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	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	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]	
	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
[mm]	[A/m]	[V/m]	[V/m]	[mW/kg]	[A/m]	[V/m]	[A/m²]	[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	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: $w_{E_{ind,\,cube\,avg.}}$ = [5.29, 5.29], $w_{E_{ind,\,local}}$ = [7.47, 7.48], $w_{E_{ind,\,line\,avg.}}$ = [2.91, 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		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
	NS	TH	NS	TH	NS	TH	N/A	N/A	NS	TH	NS	TH	NS	TH	NS	TH	N/A	N/A	N/A	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	4.55	79.1	1.08	N/A	0.67	<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	206.0	0.18	N/A	<0.01	3.95	68.8	1.02	N/A	0.57	<0.01

Coverage factors: $w_{E_{ind,\,cube\,avg.}}$ = [5.29, 5.29], $w_{E_{ind,\,local}}$ = [7.47, 7.48], $w_{E_{ind,\,line\,avg.}}$ = [2.91, 2.91]

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