cDASY6 Module WPT Measurement Report

Device under test

Info:
VCoil 50/400

Serial number:
1028

Scenario:
VCoil 50/400 System Check

Tool info

DASY software version:
cDASY6 Module WPT 2.6.0.5002

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000248, *2024/06/20*

Software version:
2.0.63, *backend: 2.2.22*

Scan info

Center location:
x: 860.00 µm, y: -63.80 mm, z: 35.79 mm

Dimensions:
x: 124.6 mm, y: 124.9 mm, z: 36.7 mm

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

Completed on:
2025/04/08 09:05:35

Measurement results

Maximum H-field [rms]:
MAGNITUDE: 127.42 A/m
x: 16.01 A/m, y: 9.92 A/m, z: 126.02 A/m

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

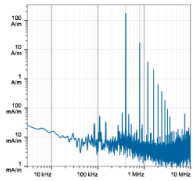
Maximum E-field [rms]:
MAGNITUDE: 53.46 V/m
x: 24.01 V/m, y: 12.85 V/m, z: 46.00 V/m

Maximum E-field location relative to DUT:
x: 7.33 mm, y: -29.33 mm, z: 0.00 m

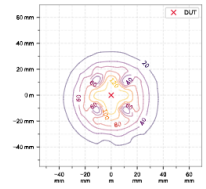
Distance to -20.0 dB boundary:
39.49 mm

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

H-field magnitude [rms] at maximum location



H-field magnitude [rms] at lowest plane



Incident fields and induced fields in the homogeous phantom at the peak frequency

(f = 400.00 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	247	53.5	4.14	4.27	4.27	2.56	6.30	3.18	39.5	8%	33%	35%
2.00	219	49.5	3.49	3.60	3.61	2.16	4.61	2.40	39.8	8%	33%	36%

Compliance evaluation (Field values at the peak frequency)

(f=400.00 kHz, total field 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	247	53.5	4.14	3.18	247	53.5	2.57	3.18	247	53.5	4.27	3.18	247	53.5	N/A	6.30	247	53.5	4.28	6.30
2.00	219	49.5	3.50	2.40	219	49.5	2.16	2.40	219	49.5	3.62	2.40	219	49.5	N/A	4.61	219	49.5	3.61	4.61

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	12.9	20.9	123.0	23.2	0.11	<0.01	140.0	224.0	4.58	<0.01	1.66	2.81	16.6	76.4	0.07	<0.01	153.0	127.0	N/A	<0.01	3.0	140.0	123.0	275.0	0.11	<0.01
2.00	11.4	18.5	114.0	21.5	0.09	<0.01	124.0	207.0	3.95	<0.01	1.47	2.49	15.4	70.8	0.06	<0.01	135.0	116.0	N/A	<0.01	2.66	124.0	114.0	255.0	0.09	<0.01

Document generated at 2025/04/08 09:20:26, simulation performed at 2025/04/08 09:13:21 using Sim4Life version 8.0.1.15446

Plot No. 1

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Device under test

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Serial number:
1028

Scenario:
VCoil 50/400 System Check

Tool info

DASY software version:
cDASY6 Module WPT 2.6.0.5002

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000248, *2024/08/20*

Software version:
2.0.63, *backend: 2.2.22*

Scan info

Center location:
x: -19.46 mm, y: -57.54 mm, z: 35.97 mm

Dimensions:
x: 124.7 mm, y: 125.1 mm, z: 36.6 mm

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

Completed on:
2025/04/14 08:17:36

Measurement results

Maximum H-field [axis]
MAGNITUDE: 124.61 A/m
x: 12.95 A/m, y: 24.97 A/m, z: 121.39 A/m

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

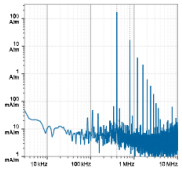
Maximum E-field [axis]
MAGNITUDE: 52.80 V/m
x: 22.84 V/m, y: 11.49 V/m, z: 46.20 V/m

Maximum E-field location relative to DUT:
x: 7.33 mm, y: -29.33 mm, z: 0.00 m

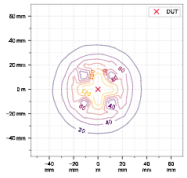
Distance to -20.0 dB boundary:
39.49 mm

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

H-field magnitude [axis] at maximum location



H-field magnitude [axis] at lowest plane



Incident fields and induced fields in the homogeous phantom at the peak frequency

(f = 400.00 kHz, σ = 0.750 S/m, tissue density = 1,000 kg/m³)

Distance [mm]	Peak incident fields [axis]		Peak E_{ind} [V/m, axis]			Peak J_{ind} [A/m², axis]	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	246	52.8	4.01	4.14	4.14	2.47	5.89	3.03	39.7	1%	30%	34%
2.00	217	48.9	3.37	3.48	3.49	2.09	4.36	2.28	39.9	1%	30%	34%

Compliance evaluation (Field values at the peak frequency)

(f=400.00 kHz, total field evaluation)

Distance [mm]	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6			
	RL [axis]			BR [axis]	RL [axis]			BR [axis]	ERL [axis]			DRL [axis]	MPE [axis]		BR [axis]		RL [axis]			BR [axis]
	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	246	52.8	4.02	3.03	246	52.8	2.47	3.03	246	52.8	4.14	3.03	246	52.8	N/A	5.89	246	52.8	4.15	5.89
2.00	217	48.9	3.38	2.28	217	48.9	2.10	2.28	217	48.9	3.49	2.28	217	48.9	N/A	4.36	217	48.9	3.48	4.36

Compliance evaluation (Exposure ratios)

(with multi-frequency enhancement, total field 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
	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	22.2	26.4	40.0	23.3	-20.1	-28.0	42.9	44.7	12.6	-28.0			4.37	8.96	22.6	32.8	-23.7	-28.0	43.7	38.9	N/A	-24.2			9.53	42.9	40.0	44.7	-19.9	-24.2
2.00	21.1	25.3	39.3	22.6	-21.5	-29.3	41.8	44.1	11.3	-29.3			3.28	7.86	22.0	32.2	-25.0	-29.3	42.6	38.2	N/A	-25.5			8.44	41.8	39.3	44.0	-21.3	-25.5

Plot No. 2