

Appendix A. Measured Test Result

Test Result are shown below.

DASY8 Module WPT Measurement Report

Device under test

Info:
P25120250

Serial number:
P01_Front Face_with Headset_0mm

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, WP000225, 2025/08/06

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: -120.00 μm, y: 550.00 μm, z: 259.65 mm

Dimensions:
x: 257.0 mm, y: 256.0 mm, z: 37.0 mm

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

Completed on:
2025/12/30

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 25.69 A/m
x: 9.67 A/m, y: 2.58 A/m, z: 23.66 A/m

Maximum H-field location relative to DUT:
x: 11.00 mm, y: 3.67 mm, z: 8.50 mm

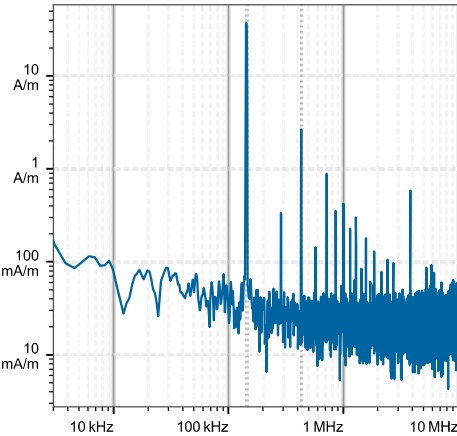
Maximum E-field [RMS]:
MAGNITUDE: 13.34 V/m
x: 2.11 V/m, y: 1.81 V/m, z: 13.05 V/m

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

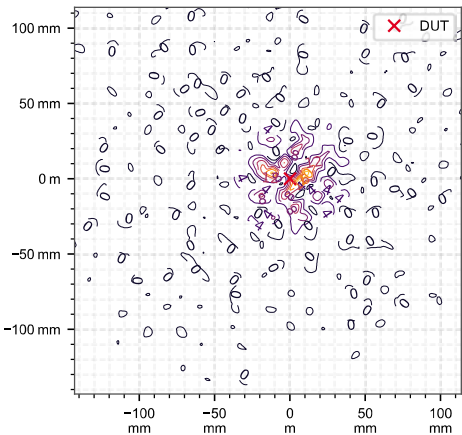
Distance to -20.0 dB boundary:
7.33 mm

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 homogeneous phantom at the peak frequency (f = 144.54 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	34.3	13.3	0.135	0.141	0.140	0.0792	5.36e-3	2.27e-3	36.4	40%	99%	27%

Compliance evaluation (Field values at the peak frequency) (f=144.54 kHz, total field evaluation, coverage 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]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]
0.00	34.3	13.3	0.725	2.27e-3	34.3	13.3	0.0796	2.27e-3	34.3	13.3	0.412	2.27e-3	34.3	13.3	N/A	5.36e-3	34.3	13.3	1.07	5.36e-3

Coverage factors: $w_{E_{ind, cube avg.}} = [5.35]$, $w_{E_{ind, local}} = [7.55]$, $w_{E_{ind, line avg.}} = [2.93]$

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	RL	BR	RL	BR	RL	BR	RL	BR	RL	BR
0.00	1.63	1.01	0.16	<0.01	0.04	<0.01	6.85	0.15	0.28	<0.01	0.21	0.14	0.02	<0.01	0.01	<0.01	12.0	0.02	N/A	<0.01

Coverage factors: $w_{E_{ind, cube avg.}} = [5.35]$, $w_{E_{ind, local}} = [7.55]$, $w_{E_{ind, line avg.}} = [2.93]$

DASY8 Module WPT Measurement Report

Device under test

Info:
P25120250

Serial number:
P02_Rear Face_with Headset_0mm

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, WP000225, 2025/08/06

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: -4.28 mm, y: 31.08 mm, z: 263.61 mm

Dimensions:
x: 168.4 mm, y: 168.9 mm, z: 37.0 mm

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

Completed on:
2025/12/30

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 57.89 mA/m
x: 57.39 mA/m, y: 4.34 mA/m, z: 6.23 mA/m

Maximum H-field location relative to DUT:
x: 40.33 mm, y: 33.00 mm, z: 45.17 mm

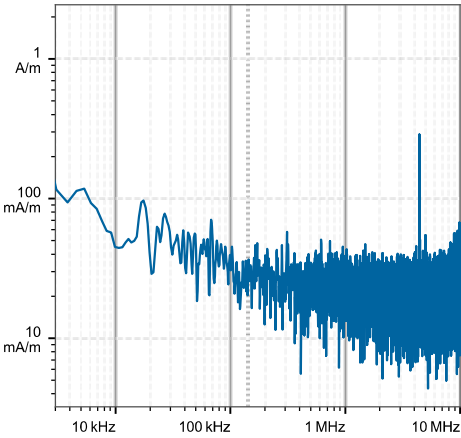
Maximum E-field [RMS]:
MAGNITUDE: 421.15 mV/m
x: 33.00 mV/m, y: 27.27 mV/m, z: 418.97 mV/m

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

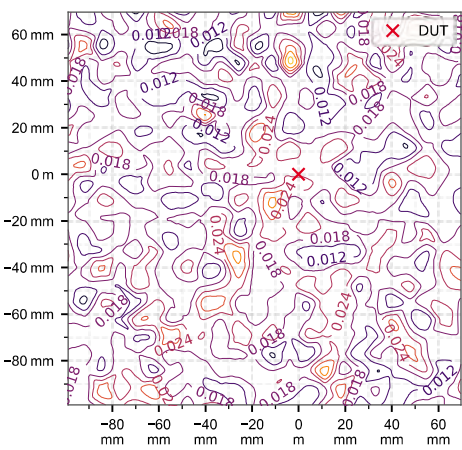
Distance to -20.0 dB boundary:
59.12 mm

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 homogeneous phantom at the peak frequency (f = 143.63 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	0.103	0.421	6.09e-4	6.97e-4	6.82e-4	2.05e-4	6.58e-8	2.83e-8	92.8	99%	561%	78%

Compliance evaluation (Field values at the peak frequency) (f=143.63 kHz, total field evaluation, coverage 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]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]
0.00	0.103	0.421	3.79e-3	2.85e-8	0.103	0.421	2.18e-4	2.85e-8	0.103	0.421	2.26e-3	2.85e-8	0.103	0.421	N/A	6.61e-8	0.103	0.421	6.11e-3	6.61e-8

Coverage factors: $w_{E_{ind, cube avg.}} = [6.19]$, $w_{E_{ind, local}} = [8.75]$, $w_{E_{ind, line avg.}} = [3.30]$

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	RL	BR	RL	BR	RL	BR	RL	BR	RL	BR
0.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Coverage factors: $w_{E_{ind, cube avg.}} = [6.19]$, $w_{E_{ind, local}} = [8.75]$, $w_{E_{ind, line avg.}} = [3.30]$

DASY8 Module WPT Measurement Report

Device under test

Info:
P25120250

Serial number:
P03_Left Side_with Headset_0mm

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, WP000225, 2025/08/06

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: 43.04 mm, y: 141.53 mm, z: 139.59 mm

Dimensions:
x: 169.0 mm, y: 168.5 mm, z: 37.0 mm

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

Completed on:
2025/12/30

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 436.71 mA/m
x: 79.87 mA/m, y: 299.63 mA/m, z: 307.50 mA/m

Maximum H-field location relative to DUT:
x: -18.33 mm, y: -25.67 mm, z: 15.83 mm

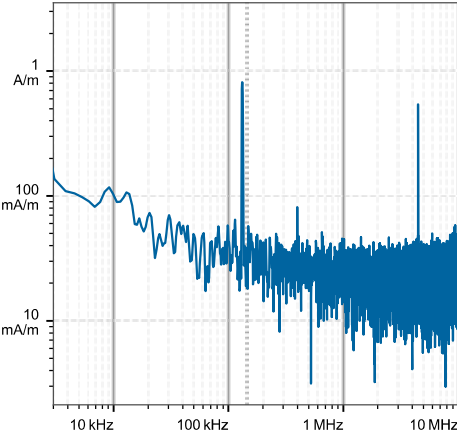
Maximum E-field [RMS]:
MAGNITUDE: 2.94 V/m
x: 154.76 mV/m, y: 1.01 V/m, z: 2.76 V/m

Maximum E-field location relative to DUT:
x: -29.33 mm, y: -36.67 mm, z: 7.33 mm

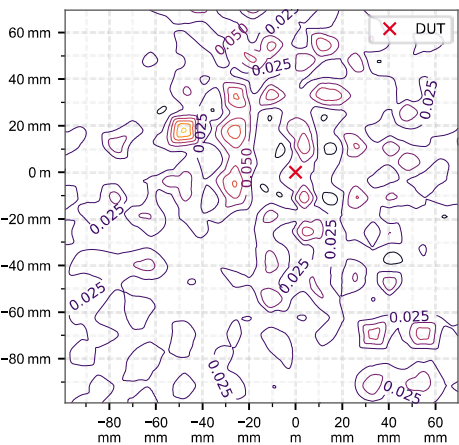
Distance to -20.0 dB boundary:
10.37 mm

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 homogeneous phantom at the peak frequency (f = 143.02 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	0.462	0.583	1.14e-3	1.24e-3	1.12e-3	5.43e-4	3.57e-7	1.72e-7	57.4	86%	307%	95%

Compliance evaluation (Field values at the peak frequency) (f=143.02 kHz, total field evaluation, coverage 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]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]
0.00	0.462	0.583	6.48e-3	1.72e-7	0.462	0.583	5.61e-4	1.72e-7	0.462	0.583	3.46e-3	1.72e-7	0.462	0.583	N/A	3.58e-7	0.462	0.583	9.98e-3	3.58e-7

Coverage factors: w_{E_{ind}, cube avg.} = [5.66], w_{E_{ind}, local} = [8.00], w_{E_{ind}, line avg.} = [3.07]

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	
	P _H inc		P _E inc	P _E ind	psSAR	P _H inc	P _E inc	P _J ind	psSAR	P _H inc	P _E inc	P _E ind	psSAR	P _H inc	P _E inc	P _E ind	psSAR	P _H inc	P _E inc	P _E ind	psSAR	
	NS	TH	NS	TH	NS	TH	N/A	N/A	NS	TH	NS	TH	NS	TH	N/A	N/A	N/A	TH	NS	TH	NS	TH
0.00	0.02	0.01	<0.01	<0.01	<0.01	<0.01	10.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	10.28	<0.01	N/A	<0.01	<0.01	<0.01	<0.01

Coverage factors: w_{E_{ind}, cube avg.} = [5.66], w_{E_{ind}, local} = [8.00], w_{E_{ind}, line avg.} = [3.07]

DASY8 Module WPT Measurement Report

Device under test

Info:
P25120250

Serial number:
P04_Right Side_with Headset_0mm

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, WP000225, 2025/08/06

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: -3.27 mm, y: 15.41 mm, z: 183.82 mm

Dimensions:
x: 168.4 mm, y: 168.7 mm, z: 37.0 mm

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

Completed on:
2025/12/30

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 433.06 mA/m
x: 70.21 mA/m, y: 419.10 mA/m, z: 83.43 mA/m

Maximum H-field location relative to DUT:
x: -3.67 mm, y: 25.67 mm, z: 15.83 mm

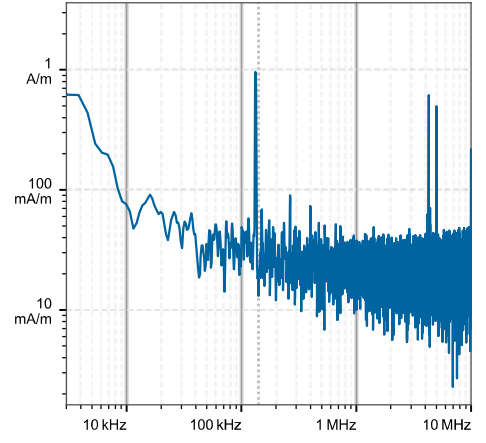
Maximum E-field [RMS]:
MAGNITUDE: 1.79 V/m
x: 407.85 mV/m, y: 197.47 mV/m, z: 1.73 V/m

Maximum E-field location relative to DUT:
x: 7.33 mm, y: 14.67 mm, z: 7.33 mm

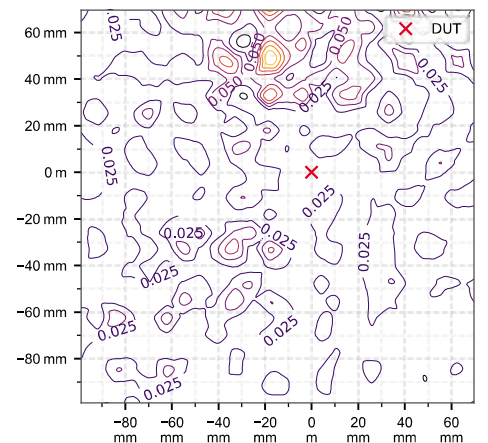
Distance to -20.0 dB boundary:
10.37 mm

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 homogeneous phantom at the peak frequency (f = 144.49 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	0.491	0.732	1.04e-3	1.12e-3	1.06e-3	6.19e-4	3.80e-7	1.96e-7	51.2	71%	231%	79%

Compliance evaluation (Field values at the peak frequency) (f=144.49 kHz, total field evaluation, coverage 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]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]
0.00	0.491	0.732	5.81e-3	1.97e-7	0.491	0.732	6.41e-4	1.97e-7	0.491	0.732	3.25e-3	1.97e-7	0.491	0.732	N/A	3.81e-7	0.491	0.732	8.88e-3	3.81e-7

Coverage factors: w_{E_{ind}, cube avg.} = [5.57], w_{E_{ind}, local} = [7.86], w_{E_{ind}, line avg.} = [3.03]

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	RL	BR	RL	BR	RL	BR	RL	BR	RL	BR
0.00	0.02	0.01	<0.01	<0.01	<0.01	<0.01	0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.10	<0.01	<0.01	<0.01	<0.01	<0.01

Coverage factors: w_{E_{ind}, cube avg.} = [5.57], w_{E_{ind}, local} = [7.86], w_{E_{ind}, line avg.} = [3.03]

DASY8 Module WPT Measurement Report

Device under test

Info:
P25120250

Serial number:
P05_Top Side_with Headset_0mm

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, WP000225, 2025/08/06

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: 130.00 μm , y: 20.71 mm, z: 105.52 mm

Dimensions:
x: 168.7 mm, y: 168.7 mm, z: 37.0 mm

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

Completed on:
2025/12/30

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 1.48 A/m
x: 888.82 mA/m, y: 638.36 mA/m, z: 991.53 mA/m

Maximum H-field location relative to DUT:
x: 40.33 mm, y: -25.67 mm, z: 23.17 mm

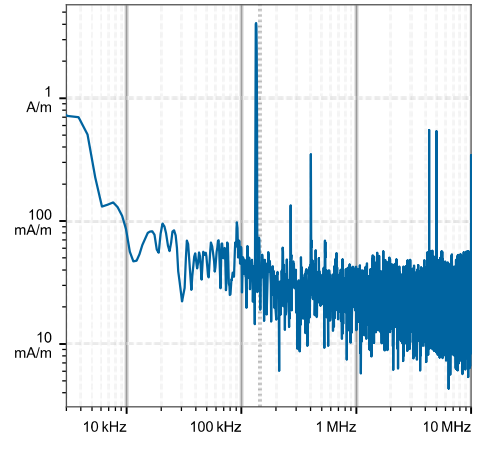
Maximum E-field [RMS]:
MAGNITUDE: 3.67 V/m
x: 505.48 mV/m, y: 192.45 mV/m, z: 3.63 V/m

Maximum E-field location relative to DUT:
x: 58.67 mm, y: -29.33 mm, z: 7.33 mm

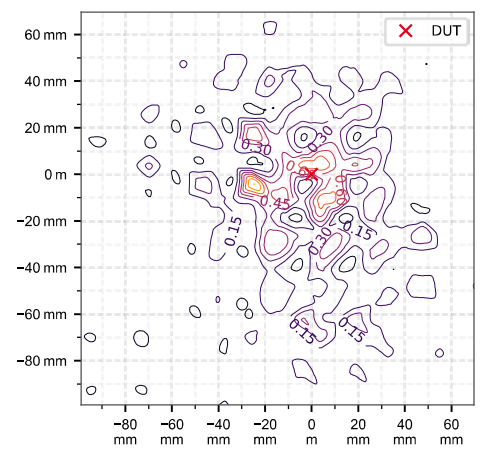
Distance to -20.0 dB boundary:
7.33 mm

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 homogeneous phantom at the peak frequency (f = 143.91 kHz, $\sigma = 0.750\text{ S/m}$, tissue density = $1,000\text{ kg/m}^3$)

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	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	1.45	1.20	7.24e-3	7.77e-3	7.68e-3	3.85e-3	1.22e-5	4.90e-6	60.7	82%	203%	55%

Compliance evaluation (Field values at the peak frequency) (f=143.91 kHz, total field evaluation, coverage 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]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]
0.00	1.45	1.20	0.0414	4.90e-6	1.45	1.20	3.89e-3	4.90e-6	1.45	1.20	0.0238	4.90e-6	1.45	1.20	N/A	1.22e-5	1.45	1.20	0.0628	1.22e-5

Coverage factors: $w_{E_{ind, cube avg.}} = [5.71]$, $w_{E_{ind, local}} = [8.07]$, $w_{E_{ind, line avg.}} = [3.09]$

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		
	P _H inc		P _E inc		P _E ind	psSAR	P _H inc		P _E inc		P _J ind	psSAR	P _H inc		P _E inc		P _E ind	psSAR	P _H inc		P _E inc		P _E ind	psSAR			
	NS	TH	NS	TH	NS	TH	N/A	N/A	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	N/A	N/A	N/A	TH	NS	TH	NS	TH	NS
0.00	0.07	0.04	0.01	<0.01	<0.01	<0.01	0.29	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.89	<0.01	N/A	<0.01	0.02	0.29	0.01	<0.01	<0.01	<0.01

Coverage factors: $w_{E_{ind, cube avg.}} = [5.71]$, $w_{E_{ind, local}} = [8.07]$, $w_{E_{ind, line avg.}} = [3.09]$

DASY8 Module WPT Measurement Report

Device under test

Info:
P25120250

Serial number:
P06_Bottom Side_with Headset_0mm

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, WP000225, 2025/08/06

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: 320.00 μm, y: 27.01 mm, z: 107.38 mm

Dimensions:
x: 168.7 mm, y: 168.7 mm, z: 37.0 mm

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

Completed on:
2025/12/30

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 705.06 mA/m
x: 338.53 mA/m, y: 330.13 mA/m, z: 522.99 mA/m

Maximum H-field location relative to DUT:
x: -25.67 mm, y: 40.33 mm, z: 8.50 mm

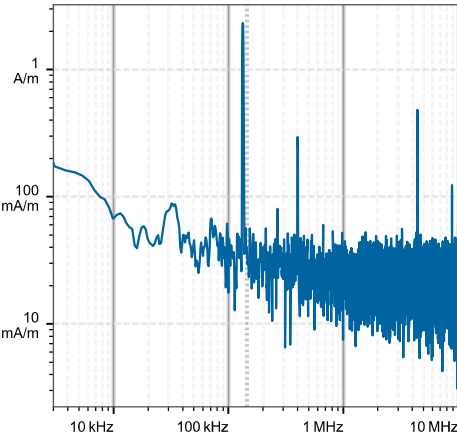
Maximum E-field [RMS]:
MAGNITUDE: 1.50 V/m
x: 63.86 mV/m, y: 306.28 mV/m, z: 1.47 V/m

Maximum E-field location relative to DUT:
x: -73.33 mm, y: -80.67 mm, z: 0.00 m

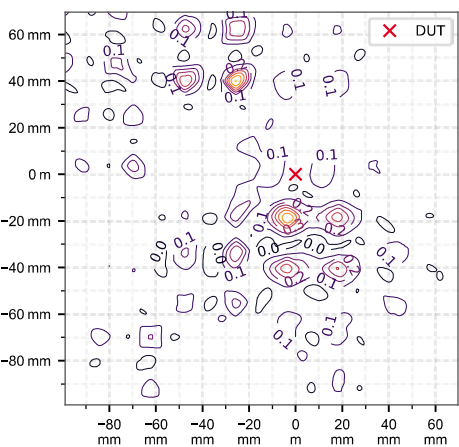
Distance to -20.0 dB boundary:
7.33 mm

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 homogeneous phantom at the peak frequency (f = 143.91 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	0.799	1.50	4.52e-3	4.71e-3	4.72e-3	2.55e-3	5.63e-6	2.64e-6	62.9	85%	220%	50%

Compliance evaluation (Field values at the peak frequency) (f=143.91 kHz, total field evaluation, coverage 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]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]
0.00	0.799	1.50	0.0260	2.64e-6	0.799	1.50	2.6e-3	2.64e-6	0.799	1.50	0.0147	2.64e-6	0.799	1.50	N/A	5.64e-6	0.799	1.50	0.0383	5.64e-6

Coverage factors: $w_{E_{ind, cube avg.}} = [5.74]$, $w_{E_{ind, local}} = [8.11]$, $w_{E_{ind, line avg.}} = [3.10]$

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 [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	ERL [RMS]	DRL [RMS]	MPE [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]
0.00	0.04	0.02	0.02	<0.01	<0.01	<0.01	0.16	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.49	<0.01	N/A	<0.01	<0.01	<0.01

Coverage factors: $w_{E_{ind, cube avg.}} = [5.74]$, $w_{E_{ind, local}} = [8.11]$, $w_{E_{ind, line avg.}} = [3.10]$

Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client
B.V. ADT
Taoyuan City

Certificate No.
MAGPy-8H3D-3078_Aug25

CALIBRATION CERTIFICATE

Object
MAGPy-8H3D+E3DV2 SN:3078
MAGPy-DASV2 SN:3070

Calibration procedure(s)
QA CAL-46.v1
Calibration Procedure for MAGPy-8H3D+E3D
Near-field Electric and Magnetic Field Sensor System

Calibration date
August 06, 2025

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Oscilloscope	SN: 110918	03-Sep-24 (No. 4030A315008835)	Sep-25
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-25 (No. 217-04284)	Mar-26
Type-N mismatch	SN: L1119	26-Mar-25 (No. 217-04292)	Mar-26

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Network Analyzer E5061B	SN: MY49810822	In house check: Nov-24	In house check: Nov-25
TEM Cell	SN: S6029i	In house check: Nov-24	In house check: Nov-25
Plate Capacitor	SN: 6028i	In house check: Nov-24	In house check: Nov-25
Resonator (160kHz)	SN: 6030i	In house check: Nov-24	In house check: Nov-25

	Name	Function	Signature
Calibrated by	Krešimir Franjić	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	

Issued: August 06, 2025

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary

MAGPy-8H3D-E3D Magnetic Amplitude and Gradient Probe – Eight H-field Sensors, Single E-field sensor
MAGPy-DAS Magnetic Amplitude and Gradient Data Acquisition System

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1309-2013, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", November 2013

Methods Applied and Interpretation of Parameters

- Calibration has been performed after the adjustment of the device.
- *Linearity*: Calibration of the linearity of the field reading over the specified dynamic range at 161.75 kHz. Influence of offset voltage is included in this measurement.
- *Frequency response*: Calibration of the field reading over the specified frequency range from 3.0 kHz to 10.0 MHz.
- Receiving Pattern: Assessed for H-field polarizations ϑ , and $\phi = 0^\circ \dots 360^\circ$; $\vartheta = 90^\circ$, and $\phi = 0^\circ \dots 360^\circ$; for the XYZ sensors (in TEM-Cell at 4 kHz, 40 kHz, 400 kHz and 4 MHz).
- Receiving Pattern: Assessed for E-field polarizations ϑ , and $\phi = 0^\circ \dots 360^\circ$; $\vartheta = 90^\circ$, and $\phi = 0^\circ \dots 360^\circ$; for the XYZ sensor (in parallel plate capacitor at 4 kHz, 40 kHz, 400 kHz and 4 MHz).

Calibration Uncertainty

The calibration uncertainty is 0.7 dB for the H-field readings and 1.06 dB for the E-field readings. The calibration uncertainty is specified over the frequency range from 3.0 kHz to 10.0 MHz and a dynamic range from 0.1 A/m to 3200 A/m and from 0.08 V/m to 2000 V/m respectively.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

Unit Type	MAGPy-8H3D+E3DV2 (SP MGY 303 AA)	3078
	MAGPy-DASV2 (SE UMS 303 AE)	3070
	MAGPy FPGA Board	WP000225
Adjustment Date	Last MAGPy Adjustment	August 06, 2025
Firmware SW Version	MAGPy Firmware	Ver. 1.00
Backend SW Version	MAGPy Backend	Ver. 1.0.2
Calibration SW Version	MAGACAP	Ver. 1.0

Dynamic Range

Dynamic Range, H-field, Channel 0

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.400	0.380	0.370	0.410	0.390	0.380	0.21	0.23	0.23	±1.00
0.540	0.520	0.510	0.550	0.530	0.520	0.16	0.17	0.17	±1.00
0.750	0.720	0.700	0.730	0.710	0.700	-0.23	-0.12	0.00	±1.00
0.970	0.940	0.910	0.960	0.930	0.900	-0.09	-0.09	-0.10	±1.00
1.31	1.27	1.23	1.31	1.28	1.22	0.00	0.07	-0.07	±1.00
1.80	1.74	1.69	1.80	1.74	1.69	0.00	0.00	0.00	±1.00
2.40	2.33	2.25	2.39	2.32	2.24	-0.04	-0.04	-0.04	±0.20
3.20	3.11	3.00	3.19	3.10	3.01	-0.03	-0.03	0.03	±0.20
4.33	4.22	4.07	4.33	4.21	4.07	0.00	-0.02	0.00	±0.20
5.86	5.70	5.51	5.86	5.71	5.51	0.00	0.02	0.00	±0.20
7.87	7.67	7.41	7.88	7.68	7.41	0.01	0.01	0.00	±0.20
10.5	10.2	9.89	10.5	10.3	9.89	0.00	0.08	0.00	±0.20
14.2	13.8	13.4	14.2	13.8	13.4	0.00	0.00	0.00	±0.20
19.1	18.6	18.0	19.1	18.6	18.1	0.00	0.00	0.05	±0.20
25.8	25.2	24.4	25.8	25.2	24.4	0.00	0.00	0.00	±0.20
34.4	33.6	32.5	34.5	33.8	32.7	0.03	0.05	0.05	±0.20
46.4	45.3	44.0	46.6	45.6	44.2	0.04	0.06	0.04	±0.20
62.9	61.5	59.7	63.2	61.8	60.0	0.04	0.04	0.04	±0.20
86.4	84.5	82.1	86.0	84.1	81.8	-0.04	-0.04	-0.03	±0.20
113	110	107	113	110	107	0.00	0.00	0.00	±0.20
155	152	148	155	151	147	0.00	-0.06	-0.06	±0.20
215	210	205	215	209	204	0.00	-0.04	-0.04	±0.20
298	290	283	300	286	279	0.06	-0.12	-0.12	±0.20
440	428	418	434	423	413	-0.12	-0.10	-0.10	±0.20
606	588	576	603	586	573	-0.04	-0.03	-0.05	±0.20
905	878	858	909	883	863	0.04	0.05	0.05	±0.20
1370	1330	1300	1390	1350	1320	0.13	0.13	0.13	±0.30
1860	1810	1760	1920	1860	1820	0.28	0.24	0.29	±0.30
3030	2940	2860	3150	3050	2970	0.34	0.32	0.33	±0.50
3580	3470	3380	3740	3620	3530	0.38	0.37	0.38	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB for applied H-fields ≥ 3000 A/m

¹Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 1

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.410	0.390	0.380	0.420	0.410	0.400	0.21	0.43	0.45	±1.00
0.550	0.530	0.520	0.550	0.540	0.540	0.00	0.16	0.33	±1.00
0.760	0.730	0.720	0.750	0.720	0.740	-0.12	-0.12	0.24	±1.00
0.990	0.950	0.930	0.980	0.930	0.950	-0.09	-0.18	0.18	±1.00
1.34	1.28	1.27	1.32	1.27	1.25	-0.13	-0.07	-0.14	±1.00
1.83	1.76	1.74	1.82	1.76	1.73	-0.05	0.00	-0.05	±1.00
2.44	2.35	2.31	2.43	2.35	2.31	-0.04	0.00	0.00	±0.20
3.25	3.13	3.09	3.24	3.15	3.08	-0.03	0.06	-0.03	±0.20
4.41	4.25	4.19	4.41	4.27	4.18	0.00	0.04	-0.02	±0.20
5.96	5.75	5.67	5.96	5.77	5.66	0.00	0.03	-0.02	±0.20
8.00	7.73	7.62	8.03	7.76	7.62	0.03	0.03	0.00	±0.20
10.7	10.3	10.2	10.7	10.3	10.2	0.00	0.00	0.00	±0.20
14.4	13.9	13.8	14.5	13.9	13.8	0.06	0.00	0.00	±0.20
19.4	18.8	18.6	19.5	18.8	18.6	0.04	0.00	0.00	±0.20
26.2	25.4	25.1	26.3	25.4	25.2	0.03	0.00	0.03	±0.20
34.9	33.9	33.5	35.1	34.1	33.7	0.05	0.05	0.05	±0.20
47.1	45.7	45.3	47.4	45.9	45.5	0.06	0.04	0.04	±0.20
64.0	62.0	61.5	64.3	62.3	61.8	0.04	0.04	0.04	±0.20
87.8	85.2	84.5	87.4	84.8	84.2	-0.04	-0.04	-0.03	±0.20
115	111	111	115	111	110	0.00	0.00	-0.08	±0.20
158	153	152	157	152	152	-0.06	-0.06	0.00	±0.20
219	212	211	218	211	211	-0.04	-0.04	0.00	±0.20
303	293	292	304	288	287	0.03	-0.15	-0.15	±0.20
447	431	430	441	426	425	-0.12	-0.10	-0.10	±0.20
616	593	593	612	591	590	-0.06	-0.03	-0.04	±0.20
920	885	883	923	891	888	0.03	0.06	0.05	±0.20
1390	1340	1340	1410	1360	1360	0.12	0.13	0.13	±0.30
1900	1820	1820	1950	1880	1870	0.23	0.28	0.24	±0.30
3080	2960	2950	3200	3080	3060	0.33	0.35	0.32	±0.50
3640	3500	3480	3790	3660	3630	0.35	0.39	0.37	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0A/m
- ±0.2dB for applied H-fields ≥ 2.0A/m and < 1000A/m
- ±0.3dB for applied H-fields ≥ 1000A/m and < 2000A/m
- ±0.4dB for applied H-fields ≥ 2000A/m and < 3000A/m
- ±0.5dB for applied H-fields ≥ 3000A/m

¹ Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 2

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.400	0.390	0.390	0.420	0.420	0.410	0.42	0.64	0.43	±1.00
0.540	0.530	0.530	0.560	0.540	0.550	0.32	0.16	0.32	±1.00
0.740	0.730	0.720	0.730	0.720	0.730	-0.12	-0.12	0.12	±1.00
0.960	0.950	0.940	0.940	0.940	0.930	-0.18	-0.09	-0.09	±1.00
1.30	1.29	1.28	1.29	1.29	1.26	-0.07	0.00	-0.14	±1.00
1.78	1.77	1.75	1.79	1.75	1.75	0.05	-0.10	0.00	±1.00
2.38	2.36	2.33	2.39	2.35	2.34	0.04	-0.04	0.04	±0.20
3.17	3.14	3.12	3.17	3.16	3.13	0.00	0.06	0.03	±0.20
4.30	4.27	4.23	4.30	4.27	4.23	0.00	0.00	0.00	±0.20
5.80	5.78	5.72	5.81	5.79	5.71	0.01	0.02	-0.02	±0.20
7.80	7.76	7.70	7.85	7.78	7.69	0.06	0.02	-0.01	±0.20
10.4	10.4	10.3	10.5	10.4	10.3	0.08	0.00	0.00	±0.20
14.0	14.0	13.9	14.1	14.0	13.9	0.06	0.00	0.00	±0.20
18.9	18.9	18.7	19.0	18.9	18.8	0.05	0.00	0.05	±0.20
25.5	25.5	25.3	25.6	25.5	25.4	0.03	0.00	0.03	±0.20
34.0	34.0	33.8	34.3	34.2	34.0	0.08	0.05	0.05	±0.20
46.0	45.9	45.7	46.2	46.1	45.9	0.04	0.04	0.04	±0.20
62.3	62.2	62.1	62.7	62.5	62.4	0.06	0.04	0.04	±0.20
85.6	85.5	85.3	85.2	85.2	85.0	-0.04	-0.03	-0.03	±0.20
112	112	112	112	111	111	0.00	-0.08	-0.08	±0.20
154	154	153	153	153	153	-0.06	-0.06	0.00	±0.20
213	213	213	213	212	213	0.00	-0.04	0.00	±0.20
295	294	294	297	289	289	0.06	-0.15	-0.15	±0.20
436	433	434	430	428	429	-0.12	-0.10	-0.10	±0.20
601	596	598	597	593	595	-0.06	-0.04	-0.04	±0.20
897	889	892	899	894	897	0.02	0.05	0.05	±0.20
1360	1340	1350	1380	1370	1370	0.13	0.19	0.13	±0.30
1850	1830	1830	1900	1880	1890	0.23	0.23	0.28	±0.30
3000	2970	2970	3120	3090	3090	0.34	0.34	0.34	±0.50
3550	3510	3510	3700	3670	3670	0.36	0.39	0.39	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB for applied H-fields ≥ 3000 A/m

¹Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 3

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.390	0.390	0.380	0.420	0.410	0.390	0.64	0.43	0.23	±1.00
0.530	0.530	0.520	0.560	0.540	0.520	0.48	0.16	0.00	±1.00
0.740	0.720	0.710	0.730	0.710	0.690	-0.12	-0.12	-0.25	±1.00
0.960	0.940	0.930	0.960	0.930	0.910	0.00	-0.09	-0.19	±1.00
1.30	1.28	1.25	1.30	1.27	1.25	0.00	-0.07	0.00	±1.00
1.78	1.76	1.72	1.76	1.76	1.73	-0.10	0.00	0.05	±1.00
2.37	2.34	2.29	2.37	2.32	2.29	0.00	-0.07	0.00	±0.20
3.15	3.13	3.06	3.15	3.11	3.05	0.00	-0.06	-0.03	±0.20
4.28	4.24	4.16	4.27	4.24	4.15	-0.02	0.00	-0.02	±0.20
5.78	5.74	5.62	5.76	5.73	5.62	-0.03	-0.02	0.00	±0.20
7.77	7.72	7.56	7.76	7.71	7.60	-0.01	-0.01	0.05	±0.20
10.4	10.3	10.1	10.4	10.3	10.2	0.00	0.00	0.09	±0.20
14.0	13.9	13.6	14.0	13.9	13.7	0.00	0.00	0.06	±0.20
18.9	18.8	18.4	18.9	18.8	18.5	0.00	0.00	0.05	±0.20
25.4	25.3	24.9	25.5	25.4	24.9	0.03	0.03	0.00	±0.20
33.9	33.8	33.2	34.1	34.0	33.4	0.05	0.05	0.05	±0.20
45.8	45.6	44.9	46.0	45.9	45.1	0.04	0.06	0.04	±0.20
62.1	61.9	61.0	62.5	62.2	61.3	0.06	0.04	0.04	±0.20
85.3	85.0	83.8	84.9	84.7	83.5	-0.04	-0.03	-0.03	±0.20
112	111	110	111	111	109	-0.08	0.00	-0.08	±0.20
153	153	151	153	152	150	0.00	-0.06	-0.06	±0.20
213	211	209	212	211	209	-0.04	0.00	0.00	±0.20
294	292	289	296	287	284	0.06	-0.15	-0.15	±0.20
434	431	426	428	425	422	-0.12	-0.12	-0.08	±0.20
599	592	588	595	589	585	-0.06	-0.04	-0.04	±0.20
894	884	876	897	888	881	0.03	0.04	0.05	±0.20
1350	1340	1320	1370	1360	1350	0.13	0.13	0.20	±0.30
1840	1820	1800	1890	1870	1850	0.23	0.24	0.24	±0.30
2990	2950	2920	3110	3050	3040	0.34	0.29	0.35	±0.40
3540	3490	3450	3690	3610	3610	0.36	0.29	0.39	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0 dB for applied H-fields < 2.0 A/m
- ±0.2 dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3 dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4 dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5 dB for applied H-fields ≥ 3000 A/m

¹ Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 4

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.390	0.390	0.390	0.410	0.400	0.400	0.43	0.22	0.22	±1.00
0.530	0.540	0.520	0.560	0.520	0.530	0.48	-0.33	0.17	±1.00
0.730	0.740	0.720	0.740	0.730	0.730	0.12	-0.12	0.12	±1.00
0.950	0.960	0.940	0.960	0.970	0.950	0.09	0.09	0.09	±1.00
1.29	1.30	1.27	1.31	1.31	1.29	0.13	0.07	0.14	±1.00
1.76	1.79	1.75	1.77	1.80	1.76	0.05	0.05	0.05	±1.00
2.35	2.39	2.33	2.37	2.39	2.34	0.07	0.00	0.04	±0.20
3.13	3.19	3.11	3.15	3.19	3.12	0.06	0.00	0.03	±0.20
4.24	4.32	4.22	4.26	4.32	4.22	0.04	0.00	0.00	±0.20
5.74	5.85	5.71	5.76	5.86	5.71	0.03	0.01	0.00	±0.20
7.70	7.86	7.67	7.73	7.87	7.68	0.03	0.01	0.01	±0.20
10.3	10.5	10.2	10.3	10.5	10.2	0.00	0.00	0.00	±0.20
13.9	14.2	13.8	13.9	14.2	13.8	0.00	0.00	0.00	±0.20
18.7	19.1	18.7	18.7	19.1	18.7	0.00	0.00	0.00	±0.20
25.2	25.8	25.2	25.3	25.8	25.3	0.03	0.00	0.03	±0.20
33.6	34.5	33.7	33.8	34.6	33.9	0.05	0.03	0.05	±0.20
45.4	46.5	45.5	45.6	46.7	45.8	0.04	0.04	0.06	±0.20
61.6	63.0	61.9	61.9	63.3	62.1	0.04	0.04	0.03	±0.20
84.6	86.6	85.1	84.2	86.3	84.7	-0.04	-0.03	-0.04	±0.20
111	113	111	110	113	111	-0.08	0.00	0.00	±0.20
152	156	153	152	155	153	0.00	-0.06	0.00	±0.20
211	215	212	210	215	212	-0.04	0.00	0.00	±0.20
292	298	294	293	293	288	0.03	-0.15	-0.18	±0.20
430	439	433	425	433	428	-0.10	-0.12	-0.10	±0.20
593	604	596	590	601	593	-0.04	-0.04	-0.04	±0.20
886	900	889	889	905	895	0.03	0.05	0.06	±0.20
1340	1360	1340	1360	1390	1370	0.13	0.19	0.19	±0.30
1820	1850	1830	1880	1910	1880	0.28	0.28	0.23	±0.30
2970	3010	2970	3080	3130	3080	0.32	0.34	0.32	±0.50
3510	3560	3500	3660	3720	3660	0.36	0.38	0.39	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0 dB for applied H-fields < 2.0 A/m
- ±0.2 dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3 dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4 dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5 dB for applied H-fields ≥ 3000 A/m

¹ Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 5

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.400	0.400	0.400	0.390	0.420	0.410	-0.22	0.42	0.21	±1.00
0.540	0.540	0.540	0.530	0.540	0.550	-0.16	0.00	0.16	±1.00
0.740	0.750	0.740	0.740	0.730	0.750	0.00	-0.23	0.12	±1.00
0.970	0.970	0.970	0.980	0.960	0.960	0.09	-0.09	-0.09	±1.00
1.31	1.32	1.31	1.32	1.32	1.30	0.07	0.00	-0.07	±1.00
1.80	1.81	1.80	1.81	1.80	1.80	0.05	-0.05	0.00	±1.00
2.40	2.41	2.39	2.41	2.41	2.39	0.04	0.00	0.00	±0.20
3.19	3.22	3.20	3.20	3.21	3.20	0.03	-0.03	0.00	±0.20
4.33	4.37	4.34	4.34	4.37	4.34	0.02	0.00	0.00	±0.20
5.85	5.91	5.87	5.87	5.94	5.88	0.03	0.04	0.01	±0.20
7.86	7.95	7.90	7.88	7.98	7.91	0.02	0.03	0.01	±0.20
10.5	10.6	10.6	10.5	10.7	10.6	0.00	0.08	0.00	±0.20
14.2	14.3	14.2	14.2	14.4	14.3	0.00	0.06	0.06	±0.20
19.1	19.3	19.2	19.1	19.3	19.3	0.00	0.00	0.05	±0.20
25.7	26.1	26.0	25.8	26.1	26.0	0.03	0.00	0.00	±0.20
34.3	34.8	34.7	34.5	35.0	34.9	0.05	0.05	0.05	±0.20
46.3	47.0	46.9	46.6	47.2	47.1	0.06	0.04	0.04	±0.20
62.9	63.7	63.7	63.2	64.0	64.0	0.04	0.04	0.04	±0.20
86.3	87.5	87.5	86.0	87.2	87.2	-0.03	-0.03	-0.03	±0.20
113	114	115	113	114	114	0.00	0.00	-0.08	±0.20
155	157	157	155	157	157	0.00	0.00	0.00	±0.20
215	218	218	215	217	218	0.00	-0.04	0.00	±0.20
298	301	302	299	296	297	0.03	-0.15	-0.15	±0.20
439	443	445	434	439	441	-0.10	-0.08	-0.08	±0.20
606	610	614	602	608	612	-0.06	-0.03	-0.03	±0.20
904	910	915	907	916	921	0.03	0.06	0.06	±0.20
1370	1380	1380	1390	1400	1410	0.13	0.12	0.19	±0.30
1860	1870	1880	1920	1930	1940	0.28	0.27	0.27	±0.30
3030	3040	3050	3140	3160	3170	0.31	0.34	0.34	±0.50
3580	3600	3600	3730	3760	3770	0.36	0.38	0.40	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB for applied H-fields ≥ 3000 A/m

¹Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 6

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.400	0.400	0.390	0.410	0.420	0.390	0.21	0.42	0.00	±1.00
0.550	0.540	0.530	0.540	0.560	0.530	-0.16	0.32	0.00	±1.00
0.760	0.740	0.730	0.740	0.750	0.730	-0.23	0.12	0.00	±1.00
0.980	0.970	0.960	0.990	0.980	0.940	0.09	0.09	-0.18	±1.00
1.33	1.31	1.29	1.35	1.34	1.28	0.13	0.20	-0.07	±1.00
1.82	1.80	1.77	1.83	1.81	1.76	0.05	0.05	-0.05	±1.00
2.43	2.40	2.36	2.43	2.42	2.36	0.00	0.07	0.00	±0.20
3.24	3.21	3.16	3.24	3.23	3.15	0.00	0.05	-0.03	±0.20
4.39	4.35	4.29	4.40	4.36	4.28	0.02	0.02	-0.02	±0.20
5.94	5.89	5.80	5.97	5.91	5.79	0.04	0.03	-0.01	±0.20
7.98	7.92	7.80	8.05	7.93	7.79	0.08	0.01	-0.01	±0.20
10.6	10.6	10.4	10.7	10.6	10.4	0.08	0.00	0.00	±0.20
14.3	14.3	14.1	14.4	14.3	14.1	0.06	0.00	0.00	±0.20
19.4	19.2	19.0	19.4	19.3	19.0	0.00	0.05	0.00	±0.20
26.1	26.0	25.7	26.2	26.0	25.7	0.03	0.00	0.00	±0.20
34.8	34.7	34.3	35.0	34.9	34.4	0.05	0.05	0.03	±0.20
47.0	46.8	46.3	47.3	47.0	46.6	0.06	0.04	0.06	±0.20
63.8	63.5	62.9	64.1	63.7	63.2	0.04	0.03	0.04	±0.20
87.5	87.2	86.4	87.2	86.9	86.1	-0.03	-0.03	-0.03	±0.20
115	114	113	114	114	113	-0.08	0.00	0.00	±0.20
157	157	155	157	156	155	0.00	-0.06	0.00	±0.20
218	217	216	218	216	215	0.00	-0.04	-0.04	±0.20
302	300	298	304	295	293	0.06	-0.15	-0.15	±0.20
446	442	440	440	436	435	-0.12	-0.12	-0.10	±0.20
614	608	606	611	605	603	-0.04	-0.04	-0.04	±0.20
917	906	903	921	911	908	0.04	0.05	0.05	±0.20
1390	1370	1370	1410	1400	1390	0.12	0.19	0.13	±0.30
1890	1860	1860	1940	1920	1910	0.23	0.28	0.23	±0.30
3070	3030	3010	3190	3150	3130	0.33	0.34	0.34	±0.50
3630	3580	3560	3790	3740	3720	0.37	0.38	0.38	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB for applied H-fields ≥ 3000 A/m

¹Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 7

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.400	0.390	0.370	0.430	0.410	0.390	0.63	0.43	0.46	±1.00
0.540	0.540	0.510	0.560	0.530	0.530	0.32	-0.16	0.33	±1.00
0.750	0.740	0.700	0.760	0.740	0.710	0.12	0.00	0.12	±1.00
0.970	0.960	0.910	0.980	0.970	0.920	0.09	0.09	0.09	±1.00
1.32	1.30	1.24	1.31	1.30	1.24	-0.07	0.00	0.00	±1.00
1.80	1.79	1.69	1.81	1.79	1.70	0.05	0.00	0.05	±1.00
2.40	2.39	2.26	2.42	2.38	2.28	0.07	-0.04	0.08	±0.20
3.20	3.19	3.02	3.21	3.19	3.02	0.03	0.00	0.00	±0.20
4.34	4.33	4.09	4.35	4.32	4.09	0.02	-0.02	0.00	±0.20
5.87	5.86	5.54	5.87	5.87	5.54	0.00	0.01	0.00	±0.20
7.88	7.87	7.45	7.88	7.90	7.44	0.00	0.03	-0.01	±0.20
10.5	10.5	9.95	10.5	10.6	9.95	0.00	0.08	0.00	±0.20
14.2	14.2	13.4	14.2	14.2	13.5	0.00	0.00	0.06	±0.20
19.1	19.1	18.1	19.1	19.2	18.2	0.00	0.05	0.05	±0.20
25.8	25.8	24.5	25.9	25.9	24.6	0.03	0.03	0.04	±0.20
34.4	34.5	32.7	34.6	34.7	32.9	0.05	0.05	0.05	±0.20
46.4	46.5	44.2	46.7	46.8	44.5	0.06	0.06	0.06	±0.20
63.0	63.1	60.0	63.3	63.4	60.4	0.04	0.04	0.06	±0.20
86.5	86.7	82.5	86.1	86.4	82.2	-0.04	-0.03	-0.03	±0.20
113	113	108	113	113	108	0.00	0.00	0.00	±0.20
156	156	148	155	155	148	-0.06	-0.06	0.00	±0.20
216	215	206	215	215	206	-0.04	0.00	0.00	±0.20
298	298	285	300	293	280	0.06	-0.15	-0.15	±0.20
440	439	420	434	434	415	-0.12	-0.10	-0.10	±0.20
607	604	579	603	602	576	-0.06	-0.03	-0.05	±0.20
906	901	863	909	907	867	0.03	0.06	0.04	±0.20
1370	1360	1300	1390	1390	1330	0.13	0.19	0.20	±0.30
1870	1850	1770	1920	1910	1830	0.23	0.28	0.29	±0.30
3040	3010	2880	3150	3130	2990	0.31	0.34	0.33	±0.50
3590	3560	3400	3740	3720	3550	0.36	0.38	0.37	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB for applied H-fields ≥ 3000 A/m

¹ Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, E-field, Channel 0

E-field/(V/m) Applied			E-field/(V/m) Reading			Difference/(dB)			Tolerance/(dB)		
x	y	z	x	y	z	x	y	z	x	y	z
0.350	0.220	0.080	0.370	0.230	0.080	0.48	0.39	0.00	±5.00	±5.00	±5.00
0.480	0.300	0.110	0.480	0.300	0.110	0.00	0.00	0.00	±5.00	±5.00	±5.00
0.660	0.410	0.160	0.640	0.410	0.160	-0.27	0.00	0.00	±5.00	±5.00	±5.00
0.860	0.530	0.200	0.860	0.530	0.180	0.00	0.00	-0.92	±5.00	±5.00	±5.00
1.16	0.720	0.270	1.17	0.720	0.280	0.07	0.00	0.32	±5.00	±5.00	±5.00
1.59	0.990	0.380	1.60	0.970	0.410	0.05	-0.18	0.66	±5.00	±5.00	±5.00
2.13	1.32	0.500	2.13	1.32	0.470	0.00	0.00	-0.54	±1.00	±5.00	±5.00
2.84	1.76	0.670	2.84	1.76	0.630	0.00	0.00	-0.53	±1.00	±5.00	±5.00
3.85	2.39	0.910	3.87	2.38	0.890	0.05	-0.04	-0.19	±1.00	±1.00	±5.00
5.21	3.24	1.23	5.24	3.21	1.20	0.05	-0.08	-0.21	±1.00	±1.00	±5.00
7.01	4.35	1.65	7.04	4.32	1.62	0.04	-0.06	-0.16	±1.00	±1.00	±5.00
9.35	5.80	2.20	9.39	5.78	2.16	0.04	-0.03	-0.16	±1.00	±1.00	±1.00
12.6	7.85	2.96	12.7	7.81	2.90	0.07	-0.04	-0.18	±1.00	±1.00	±1.00
17.0	10.6	3.99	17.1	10.5	3.93	0.05	-0.08	-0.13	±1.00	±1.00	±1.00
23.0	14.3	5.39	23.1	14.2	5.28	0.04	-0.06	-0.18	±1.00	±1.00	±1.00
30.7	19.1	7.19	31.0	19.0	7.09	0.08	-0.05	-0.12	±1.00	±1.00	±1.00
41.4	25.7	9.70	41.8	25.7	9.56	0.08	0.00	-0.13	±1.00	±1.00	±1.00
56.2	34.9	13.2	56.6	34.9	13.0	0.06	0.00	-0.13	±1.00	±1.00	±1.00
77.2	47.9	18.1	77.1	47.5	17.7	-0.01	-0.07	-0.19	±1.00	±1.00	±1.00
101	62.6	23.7	101	62.1	23.2	0.00	-0.07	-0.19	±1.00	±1.00	±1.00
139	86.0	32.5	139	85.3	31.9	0.00	-0.07	-0.16	±1.00	±1.00	±1.00
192	119	45.1	192	118	44.2	0.00	-0.07	-0.18	±1.00	±1.00	±1.00
265	165	62.4	268	165	61.6	0.10	0.00	-0.11	±1.00	±1.00	±1.00
391	243	92.0	382	234	91.4	-0.20	-0.33	-0.06	±1.00	±1.00	±1.00
538	334	127	530	324	127	-0.13	-0.26	0.00	±1.00	±1.00	±1.00
803	498	189	799	489	191	-0.04	-0.16	0.09	±1.00	±1.00	±1.00
1210	753	286	1230	748	293	0.14	-0.06	0.21	±1.00	±1.00	±1.00
1650	1020	390	1690	1030	404	0.21	0.08	0.31	±1.00	±1.00	±1.00
2680	1670	634	2770	1690	634	0.29	0.10	0.00	±1.00	±1.00	±1.00
3170	1970	750	3300	2010	754	0.35	0.17	0.05	±1.00	±1.00	±1.00

SPEAG E-field linearity tolerance criteria¹:

±5.0dB for applied E-field < 2V/m

±1.0dB for applied E-field ≥ 2V/m

¹ Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response

Frequency Response, H-field, Channel 0

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.53	1.53	1.53	1.53	1.53	1.52	0.00	0.00	-0.06	±0.3
3200	1.52	1.52	1.52	1.51	1.55	1.50	-0.06	0.17	-0.12	±0.3
4000	1.52	1.52	1.52	1.52	1.51	1.52	0.00	-0.06	0.00	±0.3
5200	1.51	1.51	1.51	1.52	1.51	1.50	0.06	0.00	-0.06	±0.3
6600	1.51	1.51	1.51	1.52	1.50	1.50	0.06	-0.06	-0.06	±0.3
8200	1.50	1.50	1.50	1.51	1.50	1.50	0.06	0.00	0.00	±0.3
9000	1.50	1.49	1.49	1.50	1.50	1.49	0.00	0.06	0.00	±0.3
10600	4.33	4.27	4.26	4.35	4.27	4.26	0.04	0.00	0.00	±0.3
13400	4.37	4.30	4.29	4.37	4.30	4.29	0.00	0.00	0.00	±0.3
17000	4.37	4.33	4.32	4.38	4.33	4.32	0.02	0.00	0.00	±0.3
21400	4.40	4.33	4.33	4.42	4.35	4.33	0.04	0.04	0.00	±0.3
27200	4.40	4.36	4.34	4.42	4.36	4.36	0.04	0.00	0.04	±0.3
34400	4.40	4.37	4.36	4.40	4.37	4.36	0.00	0.00	0.00	±0.3
40000	4.39	4.36	4.35	4.40	4.36	4.35	0.02	0.00	0.00	±0.3
43600	4.39	4.36	4.35	4.39	4.37	4.36	0.00	0.02	0.02	±0.3
55400	4.38	4.35	4.34	4.38	4.35	4.34	0.00	0.00	0.00	±0.3
70000	4.37	4.34	4.33	4.37	4.34	4.33	0.00	0.00	0.00	±0.3
88800	4.35	4.32	4.32	4.35	4.33	4.33	0.00	0.02	0.02	±0.3
112400	4.33	4.31	4.31	4.34	4.31	4.31	0.02	0.00	0.00	±0.3
142400	4.32	4.29	4.29	4.32	4.29	4.29	0.00	0.00	0.00	±0.3
161750	4.30	4.28	4.27	4.30	4.29	4.27	0.00	0.02	0.00	±0.3
180400	4.28	4.26	4.26	4.28	4.26	4.26	0.00	0.00	0.00	±0.3
228400	4.25	4.23	4.22	4.25	4.24	4.23	0.00	0.02	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.20	4.19	0.00	0.02	0.00	±0.3
366400	4.16	4.15	4.14	4.15	4.15	4.14	-0.02	0.00	0.00	±0.3
400000	4.14	4.13	4.12	4.14	4.13	4.13	0.00	0.00	0.02	±0.3
464000	4.12	4.11	4.10	4.12	4.12	4.11	0.00	0.02	0.02	±0.3
587800	4.06	4.05	4.05	4.05	4.06	4.05	-0.02	0.02	0.00	±0.3
744200	4.01	4.01	4.00	4.01	4.01	4.00	0.00	0.00	0.00	±0.3
942600	4.00	3.99	3.99	3.99	4.00	3.99	-0.02	0.02	0.00	±0.3
1193600	3.96	3.96	3.96	3.97	3.97	3.96	0.02	0.02	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.96	3.95	0.00	0.00	0.00	±0.3
1914400	3.94	3.94	3.93	3.96	3.94	3.93	0.04	0.00	0.00	±0.3
2424400	3.92	3.92	3.91	3.94	3.94	3.92	0.04	0.04	0.02	±0.3
3070200	3.89	3.89	3.88	3.89	3.90	3.88	0.00	0.02	0.00	±0.3
3888000	3.83	3.83	3.82	3.83	3.84	3.82	0.00	0.02	0.00	±0.3
4000000	3.82	3.82	3.81	3.82	3.82	3.81	0.00	0.00	0.00	±0.3
4923800	3.75	3.75	3.73	3.75	3.75	3.74	0.00	0.00	0.02	±0.3
6235400	3.64	3.64	3.63	3.65	3.64	3.63	0.02	0.00	0.00	±0.3
7896400	3.50	3.50	3.48	3.51	3.50	3.48	0.02	0.00	0.00	±0.3
10000000	3.33	3.33	3.32	3.35	3.34	3.31	0.05	0.03	-0.03	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹ Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 1

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.53	1.53	1.53	1.53	1.53	1.52	0.00	0.00	-0.06	±0.3
3200	1.52	1.52	1.52	1.51	1.55	1.50	-0.06	0.17	-0.12	±0.3
4000	1.52	1.52	1.52	1.52	1.52	1.52	0.00	0.00	0.00	±0.3
5200	1.51	1.51	1.51	1.52	1.51	1.50	0.06	0.00	-0.06	±0.3
6600	1.51	1.51	1.51	1.52	1.50	1.50	0.06	-0.06	-0.06	±0.3
8200	1.50	1.50	1.50	1.51	1.50	1.50	0.06	0.00	0.00	±0.3
9000	1.50	1.49	1.49	1.50	1.50	1.50	0.00	0.06	0.06	±0.3
10600	4.33	4.27	4.26	4.36	4.25	4.27	0.06	-0.04	0.02	±0.3
13400	4.37	4.30	4.29	4.38	4.32	4.29	0.02	0.04	0.00	±0.3
17000	4.37	4.33	4.32	4.39	4.32	4.33	0.04	-0.02	0.02	±0.3
21400	4.40	4.33	4.33	4.42	4.34	4.32	0.04	0.02	-0.02	±0.3
27200	4.40	4.36	4.34	4.42	4.36	4.35	0.04	0.00	0.02	±0.3
34400	4.40	4.37	4.36	4.40	4.37	4.37	0.00	0.00	0.02	±0.3
40000	4.39	4.36	4.35	4.41	4.37	4.36	0.04	0.02	0.02	±0.3
43600	4.39	4.36	4.35	4.39	4.36	4.35	0.00	0.00	0.00	±0.3
55400	4.38	4.35	4.34	4.38	4.34	4.34	0.00	-0.02	0.00	±0.3
70000	4.37	4.34	4.33	4.37	4.34	4.33	0.00	0.00	0.00	±0.3
88800	4.35	4.32	4.32	4.36	4.33	4.33	0.02	0.02	0.02	±0.3
112400	4.33	4.31	4.31	4.34	4.31	4.31	0.02	0.00	0.00	±0.3
142400	4.32	4.29	4.29	4.32	4.29	4.29	0.00	0.00	0.00	±0.3
161750	4.30	4.28	4.27	4.30	4.28	4.28	0.00	0.00	0.02	±0.3
180400	4.28	4.26	4.26	4.29	4.26	4.26	0.02	0.00	0.00	±0.3
228400	4.25	4.23	4.22	4.25	4.23	4.22	0.00	0.00	0.00	±0.3
289400	4.21	4.19	4.19	4.21	4.19	4.18	0.00	0.00	-0.02	±0.3
366400	4.16	4.15	4.14	4.17	4.15	4.15	0.02	0.00	0.02	±0.3
400000	4.14	4.13	4.12	4.15	4.13	4.13	0.02	0.00	0.02	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.10	0.00	0.00	0.00	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.05	0.00	0.00	0.00	±0.3
744200	4.01	4.01	4.00	4.01	4.01	4.01	0.00	0.00	0.02	±0.3
942600	4.00	3.99	3.99	4.00	4.00	4.00	0.00	0.02	0.02	±0.3
1193600	3.96	3.96	3.96	3.97	3.97	3.96	0.02	0.02	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.96	3.94	0.00	0.00	-0.02	±0.3
1914400	3.94	3.94	3.93	3.95	3.94	3.93	0.02	0.00	0.00	±0.3
2424400	3.92	3.92	3.91	3.92	3.92	3.91	0.00	0.00	0.00	±0.3
3070200	3.89	3.89	3.88	3.90	3.89	3.88	0.02	0.00	0.00	±0.3
3888000	3.83	3.83	3.82	3.84	3.84	3.83	0.02	0.02	0.02	±0.3
4000000	3.82	3.82	3.81	3.83	3.81	3.81	0.02	-0.02	0.00	±0.3
4923800	3.75	3.75	3.73	3.75	3.76	3.73	0.00	0.02	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.63	3.62	0.00	-0.02	-0.02	±0.3
7896400	3.50	3.50	3.48	3.50	3.51	3.49	0.00	0.02	0.02	±0.3
10000000	3.33	3.33	3.32	3.34	3.38	3.32	0.03	0.13	0.00	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹ Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 2

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.53	1.53	1.53	1.53	1.52	1.52	0.00	-0.06	-0.06	±0.3
3200	1.52	1.52	1.52	1.50	1.54	1.51	-0.12	0.11	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.51	1.52	0.00	-0.06	0.00	±0.3
5200	1.51	1.51	1.51	1.52	1.51	1.50	0.06	0.00	-0.06	±0.3
6600	1.51	1.51	1.51	1.52	1.50	1.51	0.06	-0.06	0.00	±0.3
8200	1.50	1.50	1.50	1.51	1.50	1.50	0.06	0.00	0.00	±0.3
9000	1.50	1.49	1.49	1.50	1.50	1.50	0.00	0.06	0.06	±0.3
10600	4.33	4.27	4.26	4.35	4.27	4.25	0.04	0.00	-0.02	±0.3
13400	4.37	4.30	4.29	4.38	4.29	4.29	0.02	-0.02	0.00	±0.3
17000	4.37	4.33	4.32	4.38	4.32	4.32	0.02	-0.02	0.00	±0.3
21400	4.40	4.33	4.33	4.39	4.32	4.32	-0.02	-0.02	-0.02	±0.3
27200	4.40	4.36	4.34	4.41	4.36	4.36	0.02	0.00	0.04	±0.3
34400	4.40	4.37	4.36	4.40	4.37	4.36	0.00	0.00	0.00	±0.3
40000	4.39	4.36	4.35	4.39	4.36	4.35	0.00	0.00	0.00	±0.3
43600	4.39	4.36	4.35	4.39	4.36	4.36	0.00	0.00	0.02	±0.3
55400	4.38	4.35	4.34	4.37	4.35	4.35	-0.02	0.00	0.02	±0.3
70000	4.37	4.34	4.33	4.37	4.34	4.34	0.00	0.00	0.02	±0.3
88800	4.35	4.32	4.32	4.35	4.33	4.32	0.00	0.02	0.00	±0.3
112400	4.33	4.31	4.31	4.34	4.31	4.31	0.02	0.00	0.00	±0.3
142400	4.32	4.29	4.29	4.31	4.29	4.29	-0.02	0.00	0.00	±0.3
161750	4.30	4.28	4.27	4.29	4.28	4.28	-0.02	0.00	0.02	±0.3
180400	4.28	4.26	4.26	4.28	4.27	4.26	0.00	0.02	0.00	±0.3
228400	4.25	4.23	4.22	4.25	4.23	4.23	0.00	0.00	0.02	±0.3
289400	4.21	4.19	4.19	4.20	4.20	4.19	-0.02	0.02	0.00	±0.3
366400	4.16	4.15	4.14	4.16	4.15	4.15	0.00	0.00	0.02	±0.3
400000	4.14	4.13	4.12	4.14	4.13	4.13	0.00	0.00	0.02	±0.3
464000	4.12	4.11	4.10	4.12	4.12	4.11	0.00	0.02	0.02	±0.3
587800	4.06	4.05	4.05	4.06	4.06	4.05	0.00	0.02	0.00	±0.3
744200	4.01	4.01	4.00	4.01	4.01	4.00	0.00	0.00	0.00	±0.3
942600	4.00	3.99	3.99	3.99	4.00	4.00	-0.02	0.02	0.02	±0.3
1193600	3.96	3.96	3.96	3.97	3.96	3.96	0.02	0.00	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.96	3.95	0.00	0.00	0.00	±0.3
1914400	3.94	3.94	3.93	3.94	3.94	3.93	0.00	0.00	0.00	±0.3
2424400	3.92	3.92	3.91	3.93	3.93	3.91	0.02	0.02	0.00	±0.3
3070200	3.89	3.89	3.88	3.89	3.90	3.88	0.00	0.02	0.00	±0.3
3888000	3.83	3.83	3.82	3.83	3.83	3.82	0.00	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.82	3.83	3.81	0.00	0.02	0.00	±0.3
4923800	3.75	3.75	3.73	3.75	3.74	3.74	0.00	-0.02	0.02	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.64	0.00	0.00	0.02	±0.3
7896400	3.50	3.50	3.48	3.50	3.52	3.48	0.00	0.05	0.00	±0.3
10000000	3.33	3.33	3.32	3.34	3.33	3.34	0.03	0.00	0.05	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹ Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 3

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.53	1.53	1.53	1.53	1.53	1.52	0.00	0.00	-0.06	±0.3
3200	1.52	1.52	1.52	1.51	1.55	1.51	-0.06	0.17	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.52	1.52	0.00	0.00	0.00	±0.3
5200	1.51	1.51	1.51	1.52	1.51	1.51	0.06	0.00	0.00	±0.3
6600	1.51	1.51	1.51	1.51	1.50	1.51	0.00	-0.06	0.00	±0.3
8200	1.50	1.50	1.50	1.51	1.51	1.50	0.06	0.06	0.00	±0.3
9000	1.50	1.49	1.49	1.50	1.49	1.50	0.00	0.00	0.06	±0.3
10600	4.33	4.27	4.26	4.35	4.23	4.23	0.04	-0.08	-0.06	±0.3
13400	4.37	4.30	4.29	4.36	4.30	4.29	-0.02	0.00	0.00	±0.3
17000	4.37	4.33	4.32	4.38	4.33	4.32	0.02	0.00	0.00	±0.3
21400	4.40	4.33	4.33	4.42	4.35	4.34	0.04	0.04	0.02	±0.3
27200	4.40	4.36	4.34	4.41	4.36	4.35	0.02	0.00	0.02	±0.3
34400	4.40	4.37	4.36	4.41	4.36	4.36	0.02	-0.02	0.00	±0.3
40000	4.39	4.36	4.35	4.41	4.36	4.35	0.04	0.00	0.00	±0.3
43600	4.39	4.36	4.35	4.41	4.36	4.35	0.04	0.00	0.00	±0.3
55400	4.38	4.35	4.34	4.38	4.35	4.35	0.00	0.00	0.02	±0.3
70000	4.37	4.34	4.33	4.37	4.34	4.35	0.00	0.00	0.04	±0.3
88800	4.35	4.32	4.32	4.36	4.33	4.32	0.02	0.02	0.00	±0.3
112400	4.33	4.31	4.31	4.35	4.31	4.32	0.04	0.00	0.02	±0.3
142400	4.32	4.29	4.29	4.32	4.29	4.29	0.00	0.00	0.00	±0.3
161750	4.30	4.28	4.27	4.31	4.28	4.27	0.02	0.00	0.00	±0.3
180400	4.28	4.26	4.26	4.28	4.26	4.26	0.00	0.00	0.00	±0.3
228400	4.25	4.23	4.22	4.25	4.23	4.23	0.00	0.00	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.19	4.19	0.00	0.00	0.00	±0.3
366400	4.16	4.15	4.14	4.16	4.16	4.15	0.00	0.02	0.02	±0.3
400000	4.14	4.13	4.12	4.14	4.13	4.13	0.00	0.00	0.02	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.11	0.00	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.05	0.00	0.00	0.00	±0.3
744200	4.01	4.01	4.00	4.00	4.01	4.00	-0.02	0.00	0.00	±0.3
942600	4.00	3.99	3.99	3.99	4.00	4.00	-0.02	0.02	0.02	±0.3
1193600	3.96	3.96	3.96	3.96	3.97	3.96	0.00	0.02	0.00	±0.3
1511600	3.96	3.96	3.95	3.95	3.96	3.95	-0.02	0.00	0.00	±0.3
1914400	3.94	3.94	3.93	3.95	3.94	3.93	0.02	0.00	0.00	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.91	0.02	0.00	0.00	±0.3
3070200	3.89	3.89	3.88	3.89	3.89	3.88	0.00	0.00	0.00	±0.3
3888000	3.83	3.83	3.82	3.83	3.84	3.82	0.00	0.02	0.00	±0.3
4000000	3.82	3.82	3.81	3.83	3.82	3.80	0.02	0.00	-0.02	±0.3
4923800	3.75	3.75	3.73	3.75	3.77	3.74	0.00	0.05	0.02	±0.3
6235400	3.64	3.64	3.63	3.63	3.65	3.63	-0.02	0.02	0.00	±0.3
7896400	3.50	3.50	3.48	3.51	3.50	3.49	0.02	0.00	0.02	±0.3
10000000	3.33	3.33	3.32	3.35	3.35	3.27	0.05	0.05	-0.13	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹ Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 4

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.53	1.53	1.53	1.54	1.53	1.55	0.06	0.00	0.11	±0.3
3200	1.52	1.52	1.52	1.51	1.55	1.50	-0.06	0.17	-0.12	±0.3
4000	1.52	1.52	1.52	1.52	1.52	1.52	0.00	0.00	0.00	±0.3
5200	1.51	1.51	1.51	1.52	1.49	1.51	0.06	-0.12	0.00	±0.3
6600	1.51	1.51	1.51	1.52	1.50	1.50	0.06	-0.06	-0.06	±0.3
8200	1.50	1.50	1.50	1.51	1.50	1.50	0.06	0.00	0.00	±0.3
9000	1.50	1.49	1.49	1.50	1.50	1.49	0.00	0.06	0.00	±0.3
10600	4.33	4.27	4.26	4.36	4.29	4.25	0.06	0.04	-0.02	±0.3
13400	4.37	4.30	4.29	4.38	4.31	4.30	0.02	0.02	0.02	±0.3
17000	4.37	4.33	4.32	4.39	4.33	4.33	0.04	0.00	0.02	±0.3
21400	4.40	4.33	4.33	4.41	4.35	4.32	0.02	0.04	-0.02	±0.3
27200	4.40	4.36	4.34	4.40	4.36	4.35	0.00	0.00	0.02	±0.3
34400	4.40	4.37	4.36	4.41	4.36	4.36	0.02	-0.02	0.00	±0.3
40000	4.39	4.36	4.35	4.40	4.36	4.35	0.02	0.00	0.00	±0.3
43600	4.39	4.36	4.35	4.38	4.37	4.35	-0.02	0.02	0.00	±0.3
55400	4.38	4.35	4.34	4.38	4.35	4.34	0.00	0.00	0.00	±0.3
70000	4.37	4.34	4.33	4.37	4.34	4.33	0.00	0.00	0.00	±0.3
88800	4.35	4.32	4.32	4.35	4.33	4.32	0.00	0.02	0.00	±0.3
112400	4.33	4.31	4.31	4.34	4.31	4.31	0.02	0.00	0.00	±0.3
142400	4.32	4.29	4.29	4.32	4.29	4.30	0.00	0.00	0.02	±0.3
161750	4.30	4.28	4.27	4.30	4.28	4.28	0.00	0.00	0.02	±0.3
180400	4.28	4.26	4.26	4.28	4.26	4.26	0.00	0.00	0.00	±0.3
228400	4.25	4.23	4.22	4.26	4.23	4.23	0.02	0.00	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.20	4.19	0.00	0.02	0.00	±0.3
366400	4.16	4.15	4.14	4.16	4.15	4.15	0.00	0.00	0.02	±0.3
400000	4.14	4.13	4.12	4.14	4.13	4.13	0.00	0.00	0.02	±0.3
464000	4.12	4.11	4.10	4.11	4.11	4.11	-0.02	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.05	4.06	4.05	-0.02	0.02	0.00	±0.3
744200	4.01	4.01	4.00	4.01	4.01	4.01	0.00	0.00	0.02	±0.3
942600	4.00	3.99	3.99	4.00	4.00	4.00	0.00	0.02	0.02	±0.3
1193600	3.96	3.96	3.96	3.96	3.97	3.96	0.00	0.02	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.96	3.97	0.00	0.00	0.04	±0.3
1914400	3.94	3.94	3.93	3.94	3.94	3.93	0.00	0.00	0.00	±0.3
2424400	3.92	3.92	3.91	3.92	3.93	3.92	0.00	0.02	0.02	±0.3
3070200	3.89	3.89	3.88	3.89	3.89	3.87	0.00	0.00	-0.02	±0.3
3888000	3.83	3.83	3.82	3.84	3.85	3.78	0.02	0.05	-0.09	±0.3
4000000	3.82	3.82	3.81	3.83	3.81	3.79	0.02	-0.02	-0.05	±0.3
4923800	3.75	3.75	3.73	3.76	3.76	3.74	0.02	0.02	0.02	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.60	0.00	0.00	-0.07	±0.3
7896400	3.50	3.50	3.48	3.48	3.51	3.48	-0.05	0.02	0.00	±0.3
10000000	3.33	3.33	3.32	3.35	3.34	3.33	0.05	0.03	0.03	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹ Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 5

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.53	1.53	1.53	1.53	1.52	1.54	0.00	-0.06	0.06	±0.3
3200	1.52	1.52	1.52	1.51	1.54	1.51	-0.06	0.11	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.52	1.53	0.00	0.00	0.06	±0.3
5200	1.51	1.51	1.51	1.52	1.50	1.51	0.06	-0.06	0.00	±0.3
6600	1.51	1.51	1.51	1.52	1.50	1.51	0.06	-0.06	0.00	±0.3
8200	1.50	1.50	1.50	1.51	1.50	1.50	0.06	0.00	0.00	±0.3
9000	1.50	1.49	1.49	1.50	1.49	1.50	0.00	0.00	0.06	±0.3
10600	4.33	4.27	4.26	4.36	4.29	4.26	0.06	0.04	0.00	±0.3
13400	4.37	4.30	4.29	4.36	4.32	4.29	-0.02	0.04	0.00	±0.3
17000	4.37	4.33	4.32	4.39	4.32	4.32	0.04	-0.02	0.00	±0.3
21400	4.40	4.33	4.33	4.41	4.33	4.34	0.02	0.00	0.02	±0.3
27200	4.40	4.36	4.34	4.40	4.36	4.36	0.00	0.00	0.04	±0.3
34400	4.40	4.37	4.36	4.41	4.37	4.36	0.02	0.00	0.00	±0.3
40000	4.39	4.36	4.35	4.39	4.35	4.35	0.00	-0.02	0.00	±0.3
43600	4.39	4.36	4.35	4.39	4.37	4.35	0.00	0.02	0.00	±0.3
55400	4.38	4.35	4.34	4.38	4.35	4.35	0.00	0.00	0.02	±0.3
70000	4.37	4.34	4.33	4.37	4.34	4.33	0.00	0.00	0.00	±0.3
88800	4.35	4.32	4.32	4.36	4.32	4.33	0.02	0.00	0.02	±0.3
112400	4.33	4.31	4.31	4.34	4.31	4.32	0.02	0.00	0.02	±0.3
142400	4.32	4.29	4.29	4.32	4.30	4.30	0.00	0.02	0.02	±0.3
161750	4.30	4.28	4.27	4.30	4.28	4.28	0.00	0.00	0.02	±0.3
180400	4.28	4.26	4.26	4.28	4.26	4.27	0.00	0.00	0.02	±0.3
228400	4.25	4.23	4.22	4.25	4.23	4.23	0.00	0.00	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.20	4.19	0.00	0.02	0.00	±0.3
366400	4.16	4.15	4.14	4.16	4.15	4.15	0.00	0.00	0.02	±0.3
400000	4.14	4.13	4.12	4.15	4.13	4.13	0.02	0.00	0.02	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.11	0.00	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.05	0.00	0.00	0.00	±0.3
744200	4.01	4.01	4.00	4.01	4.00	4.00	0.00	-0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.00	4.00	3.99	0.00	0.02	0.00	±0.3
1193600	3.96	3.96	3.96	3.96	3.96	3.95	0.00	0.00	-0.02	±0.3
1511600	3.96	3.96	3.95	3.95	3.96	3.95	-0.02	0.00	0.00	±0.3
1914400	3.94	3.94	3.93	3.94	3.94	3.93	0.00	0.00	0.00	±0.3
2424400	3.92	3.92	3.91	3.91	3.93	3.92	-0.02	0.02	0.02	±0.3
3070200	3.89	3.89	3.88	3.89	3.89	3.87	0.00	0.00	-0.02	±0.3
3888000	3.83	3.83	3.82	3.85	3.83	3.81	0.05	0.00	-0.02	±0.3
4000000	3.82	3.82	3.81	3.83	3.83	3.80	0.02	0.02	-0.02	±0.3
4923800	3.75	3.75	3.73	3.76	3.74	3.74	0.02	-0.02	0.02	±0.3
6235400	3.64	3.64	3.63	3.65	3.64	3.62	0.02	0.00	-0.02	±0.3
7896400	3.50	3.50	3.48	3.51	3.49	3.47	0.02	-0.02	-0.02	±0.3
10000000	3.33	3.33	3.32	3.31	3.34	3.31	-0.05	0.03	-0.03	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹ Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 6

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.53	1.53	1.53	1.51	1.52	1.53	-0.11	-0.06	0.00	±0.3
3200	1.52	1.52	1.52	1.49	1.55	1.50	-0.17	0.17	-0.12	±0.3
4000	1.52	1.52	1.52	1.52	1.52	1.52	0.00	0.00	0.00	±0.3
5200	1.51	1.51	1.51	1.53	1.50	1.51	0.11	-0.06	0.00	±0.3
6600	1.51	1.51	1.51	1.52	1.50	1.51	0.06	-0.06	0.00	±0.3
8200	1.50	1.50	1.50	1.52	1.50	1.50	0.12	0.00	0.00	±0.3
9000	1.50	1.49	1.49	1.50	1.50	1.50	0.00	0.06	0.06	±0.3
10600	4.33	4.27	4.26	4.34	4.28	4.26	0.02	0.02	0.00	±0.3
13400	4.37	4.30	4.29	4.39	4.31	4.31	0.04	0.02	0.04	±0.3
17000	4.37	4.33	4.32	4.39	4.33	4.33	0.04	0.00	0.02	±0.3
21400	4.40	4.33	4.33	4.41	4.35	4.33	0.02	0.04	0.00	±0.3
27200	4.40	4.36	4.34	4.39	4.36	4.34	-0.02	0.00	0.00	±0.3
34400	4.40	4.37	4.36	4.41	4.37	4.37	0.02	0.00	0.02	±0.3
40000	4.39	4.36	4.35	4.40	4.36	4.35	0.02	0.00	0.00	±0.3
43600	4.39	4.36	4.35	4.39	4.37	4.36	0.00	0.02	0.02	±0.3
55400	4.38	4.35	4.34	4.38	4.35	4.34	0.00	0.00	0.00	±0.3
70000	4.37	4.34	4.33	4.37	4.34	4.34	0.00	0.00	0.02	±0.3
88800	4.35	4.32	4.32	4.35	4.33	4.33	0.00	0.02	0.02	±0.3
112400	4.33	4.31	4.31	4.34	4.31	4.32	0.02	0.00	0.02	±0.3
142400	4.32	4.29	4.29	4.32	4.29	4.29	0.00	0.00	0.00	±0.3
161750	4.30	4.28	4.27	4.30	4.28	4.27	0.00	0.00	0.00	±0.3
180400	4.28	4.26	4.26	4.29	4.26	4.26	0.02	0.00	0.00	±0.3
228400	4.25	4.23	4.22	4.26	4.24	4.23	0.02	0.02	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.20	4.20	0.00	0.02	0.02	±0.3
366400	4.16	4.15	4.14	4.16	4.14	4.15	0.00	-0.02	0.02	±0.3
400000	4.14	4.13	4.12	4.14	4.12	4.12	0.00	-0.02	0.00	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.11	0.00	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.06	4.06	4.05	0.00	0.02	0.00	±0.3
744200	4.01	4.01	4.00	4.00	4.01	4.01	-0.02	0.00	0.02	±0.3
942600	4.00	3.99	3.99	4.00	3.99	3.99	0.00	0.00	0.00	±0.3
1193600	3.96	3.96	3.96	3.96	3.96	3.96	0.00	0.00	0.00	±0.3
1511600	3.96	3.96	3.95	3.94	3.95	3.94	-0.04	-0.02	-0.02	±0.3
1914400	3.94	3.94	3.93	3.92	3.95	3.93	-0.04	0.02	0.00	±0.3
2424400	3.92	3.92	3.91	3.88	3.92	3.91	-0.09	0.00	0.00	±0.3
3070200	3.89	3.89	3.88	3.90	3.89	3.87	0.02	0.00	-0.02	±0.3
3888000	3.83	3.83	3.82	3.87	3.81	3.82	0.09	-0.05	0.00	±0.3
4000000	3.82	3.82	3.81	3.87	3.83	3.81	0.11	0.02	0.00	±0.3
4923800	3.75	3.75	3.73	3.75	3.74	3.74	0.00	-0.02	0.02	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.62	0.00	0.00	-0.02	±0.3
7896400	3.50	3.50	3.48	3.51	3.48	3.49	0.02	-0.05	0.02	±0.3
10000000	3.33	3.33	3.32	3.31	3.32	3.31	-0.05	-0.03	-0.03	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 7

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.53	1.53	1.53	1.53	1.54	1.52	0.00	0.06	-0.06	±0.3
3200	1.52	1.52	1.52	1.50	1.56	1.50	-0.12	0.23	-0.12	±0.3
4000	1.52	1.52	1.52	1.53	1.53	1.52	0.06	0.06	0.00	±0.3
5200	1.51	1.51	1.51	1.52	1.51	1.50	0.06	0.00	-0.06	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.50	0.00	0.00	-0.06	±0.3
8200	1.50	1.50	1.50	1.51	1.51	1.50	0.06	0.06	0.00	±0.3
9000	1.50	1.49	1.49	1.51	1.50	1.49	0.06	0.06	0.00	±0.3
10600	4.33	4.27	4.26	4.32	4.30	4.26	-0.02	0.06	0.00	±0.3
13400	4.37	4.30	4.29	4.37	4.33	4.29	0.00	0.06	0.00	±0.3
17000	4.37	4.33	4.32	4.38	4.32	4.33	0.02	-0.02	0.02	±0.3
21400	4.40	4.33	4.33	4.41	4.34	4.35	0.02	0.02	0.04	±0.3
27200	4.40	4.36	4.34	4.40	4.39	4.34	0.00	0.06	0.00	±0.3
34400	4.40	4.37	4.36	4.40	4.38	4.36	0.00	0.02	0.00	±0.3
40000	4.39	4.36	4.35	4.40	4.38	4.36	0.02	0.04	0.02	±0.3
43600	4.39	4.36	4.35	4.38	4.37	4.35	-0.02	0.02	0.00	±0.3
55400	4.38	4.35	4.34	4.38	4.36	4.34	0.00	0.02	0.00	±0.3
70000	4.37	4.34	4.33	4.37	4.35	4.32	0.00	0.02	-0.02	±0.3
88800	4.35	4.32	4.32	4.36	4.33	4.32	0.02	0.02	0.00	±0.3
112400	4.33	4.31	4.31	4.35	4.32	4.31	0.04	0.02	0.00	±0.3
142400	4.32	4.29	4.29	4.32	4.31	4.29	0.00	0.04	0.00	±0.3
161750	4.30	4.28	4.27	4.30	4.29	4.28	0.00	0.02	0.02	±0.3
180400	4.28	4.26	4.26	4.29	4.28	4.26	0.02	0.04	0.00	±0.3
228400	4.25	4.23	4.22	4.25	4.25	4.23	0.00	0.04	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.21	4.19	0.00	0.04	0.00	±0.3
366400	4.16	4.15	4.14	4.16	4.16	4.15	0.00	0.02	0.02	±0.3
400000	4.14	4.13	4.12	4.14	4.14	4.13	0.00	0.02	0.02	±0.3
464000	4.12	4.11	4.10	4.12	4.12	4.11	0.00	0.02	0.02	±0.3
587800	4.06	4.05	4.05	4.06	4.07	4.05	0.00	0.04	0.00	±0.3
744200	4.01	4.01	4.00	4.01	4.02	4.00	0.00	0.02	0.00	±0.3
942600	4.00	3.99	3.99	3.99	4.01	3.99	-0.02	0.04	0.00	±0.3
1193600	3.96	3.96	3.96	3.97	3.98	3.95	0.02	0.04	-0.02	±0.3
1511600	3.96	3.96	3.95	3.95	3.96	3.94	-0.02	0.00	-0.02	±0.3
1914400	3.94	3.94	3.93	3.94	3.94	3.91	0.00	0.00	-0.04	±0.3
2424400	3.92	3.92	3.91	3.92	3.93	3.91	0.00	0.02	0.00	±0.3
3070200	3.89	3.89	3.88	3.89	3.89	3.88	0.00	0.00	0.00	±0.3
3888000	3.83	3.83	3.82	3.84	3.83	3.82	0.02	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.84	3.82	3.81	0.05	0.00	0.00	±0.3
4923800	3.75	3.75	3.73	3.74	3.75	3.74	-0.02	0.00	0.02	±0.3
6235400	3.64	3.64	3.63	3.65	3.64	3.62	0.02	0.00	-0.02	±0.3
7896400	3.50	3.50	3.48	3.50	3.51	3.46	0.00	0.02	-0.05	±0.3
10000000	3.33	3.33	3.32	3.33	3.35	3.37	0.00	0.05	0.13	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹ Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, E-field, Channel 0

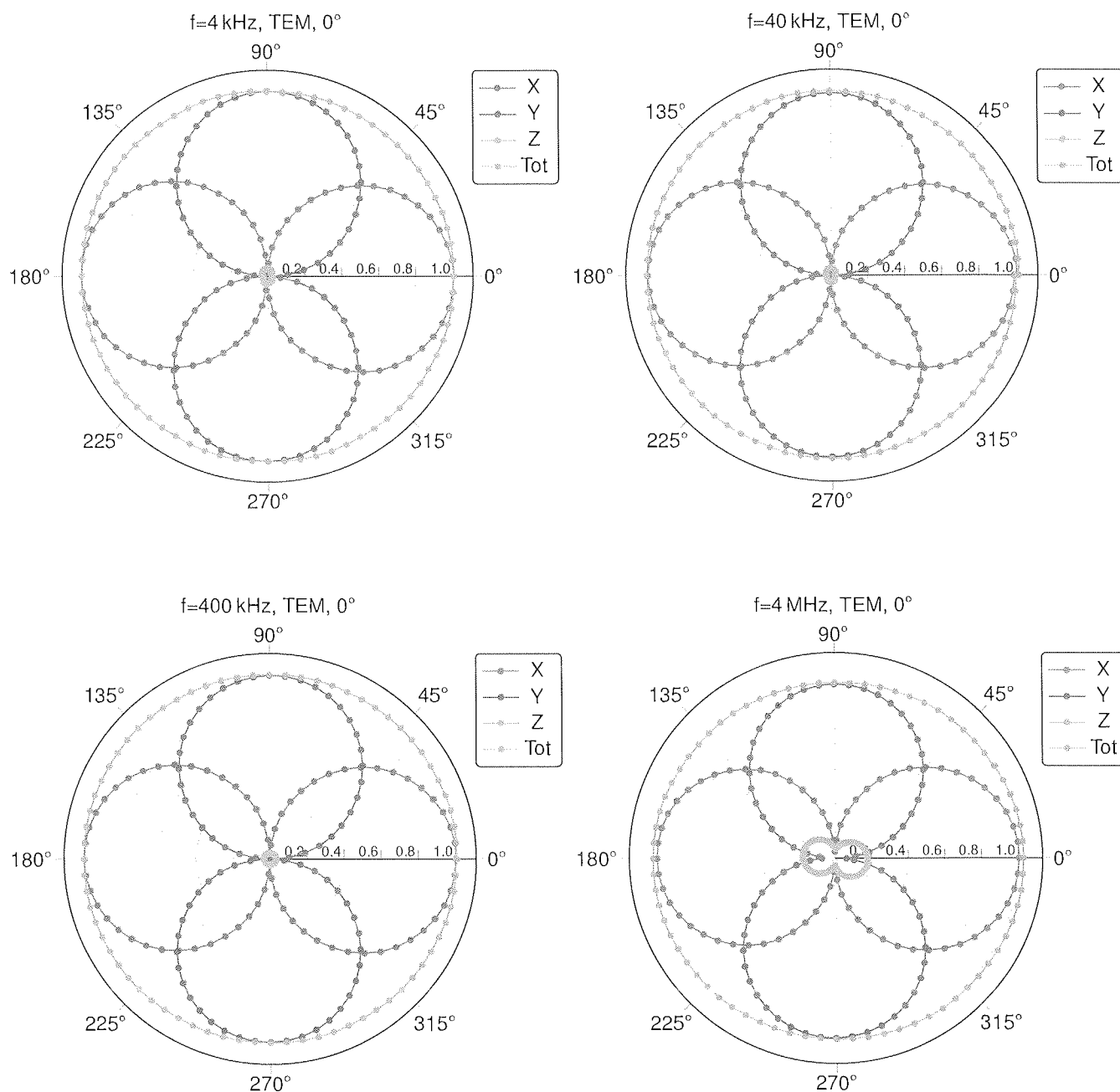
f/(Hz)	E-field/(V/m) Applied			E-field/(V/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	84.6	84.6	88.0	84.6	84.6	88.0	0.00	0.00	0.00	±0.3
3200	86.2	86.2	80.3	86.3	86.0	80.3	0.01	-0.02	0.00	±0.3
4000	83.9	83.9	88.0	83.9	84.0	88.0	0.00	0.01	0.00	±0.3
5200	81.8	81.8	85.0	81.8	82.5	85.1	0.00	0.07	0.01	±0.3
6600	81.9	81.9	82.1	82.2	81.9	82.5	0.03	0.00	0.04	±0.3
8200	78.0	78.0	82.1	78.1	78.2	82.2	0.01	0.02	0.01	±0.3
9000	83.4	83.4	83.5	83.4	83.5	83.6	0.00	0.01	0.01	±0.3
10600	82.6	82.6	81.7	82.6	82.6	81.9	0.00	0.00	0.02	±0.3
13400	85.7	85.7	79.6	85.7	85.8	79.7	0.00	0.01	0.01	±0.3
17000	84.9	84.9	78.2	84.9	85.0	78.3	0.00	0.01	0.01	±0.3
21400	83.1	83.1	82.6	83.2	83.3	82.6	0.01	0.02	0.00	±0.3
27200	83.9	83.9	80.4	83.9	84.1	80.5	0.00	0.02	0.01	±0.3
34400	82.5	82.5	79.4	82.5	82.6	79.5	0.00	0.01	0.01	±0.3
40000	83.2	83.2	82.1	83.2	83.2	82.2	0.00	0.00	0.01	±0.3
43600	82.5	82.5	81.3	82.5	82.6	81.4	0.00	0.01	0.01	±0.3
55400	82.3	82.3	81.3	82.3	82.4	81.4	0.00	0.01	0.01	±0.3
70000	83.1	83.1	81.4	83.1	83.2	81.4	0.00	0.01	0.00	±0.3
88800	82.2	82.2	82.1	82.2	82.3	82.2	0.00	0.01	0.01	±0.3
112400	82.6	82.6	81.7	82.7	82.7	81.7	0.01	0.01	0.00	±0.3
142400	82.6	82.6	82.1	82.6	82.7	82.1	0.00	0.01	0.00	±0.3
161750	82.7	82.7	82.1	82.7	82.7	82.1	0.00	0.00	0.00	±0.3
180400	83.0	83.0	82.1	83.0	83.1	82.1	0.00	0.01	0.00	±0.3
228400	83.1	83.1	82.2	83.1	83.1	82.2	0.00	0.00	0.00	±0.3
289400	83.3	83.3	82.6	83.3	83.4	82.7	0.00	0.01	0.01	±0.3
366400	83.5	83.5	82.7	83.5	83.5	82.8	0.00	0.00	0.01	±0.3
400000	83.8	83.8	82.7	83.8	83.8	82.8	0.00	0.00	0.01	±0.3
464000	84.0	84.0	83.0	84.0	84.1	83.0	0.00	0.01	0.00	±0.3
587800	84.0	84.0	83.0	84.0	84.1	83.1	0.00	0.01	0.01	±0.3
744200	84.1	84.1	83.0	84.1	84.2	83.0	0.00	0.01	0.00	±0.3
942600	84.1	84.1	83.1	84.1	84.1	83.2	0.00	0.00	0.01	±0.3
1193600	83.8	83.8	82.7	83.8	83.9	82.8	0.00	0.01	0.01	±0.3
1511600	83.3	83.3	82.3	83.3	83.4	82.4	0.00	0.01	0.01	±0.3
1914400	82.9	82.9	82.0	82.9	83.0	82.1	0.00	0.01	0.01	±0.3
2424400	82.6	82.6	81.8	82.6	82.7	81.8	0.00	0.01	0.00	±0.3
3070200	82.5	82.5	81.5	82.5	82.5	81.6	0.00	0.00	0.01	±0.3
3888000	82.6	82.6	81.8	82.6	82.7	81.8	0.00	0.01	0.00	±0.3
4000000	82.4	82.4	81.7	82.5	82.5	81.8	0.01	0.01	0.01	±0.3
4923800	83.0	83.0	82.5	83.1	83.1	82.6	0.01	0.01	0.01	±0.3
6235400	85.7	85.7	85.0	85.7	85.7	85.0	0.00	0.00	0.00	±0.3
7896400	88.5	88.5	88.0	88.5	88.5	88.1	0.00	0.00	0.01	±0.3
10000000	96.8	96.8	96.2	96.8	96.8	96.3	0.00	0.00	0.01	±0.3

SPEAG E-field frequency response tolerance criteria¹:
±0.3dB for applied E-fields at calibration points from 3kHz to 10MHz

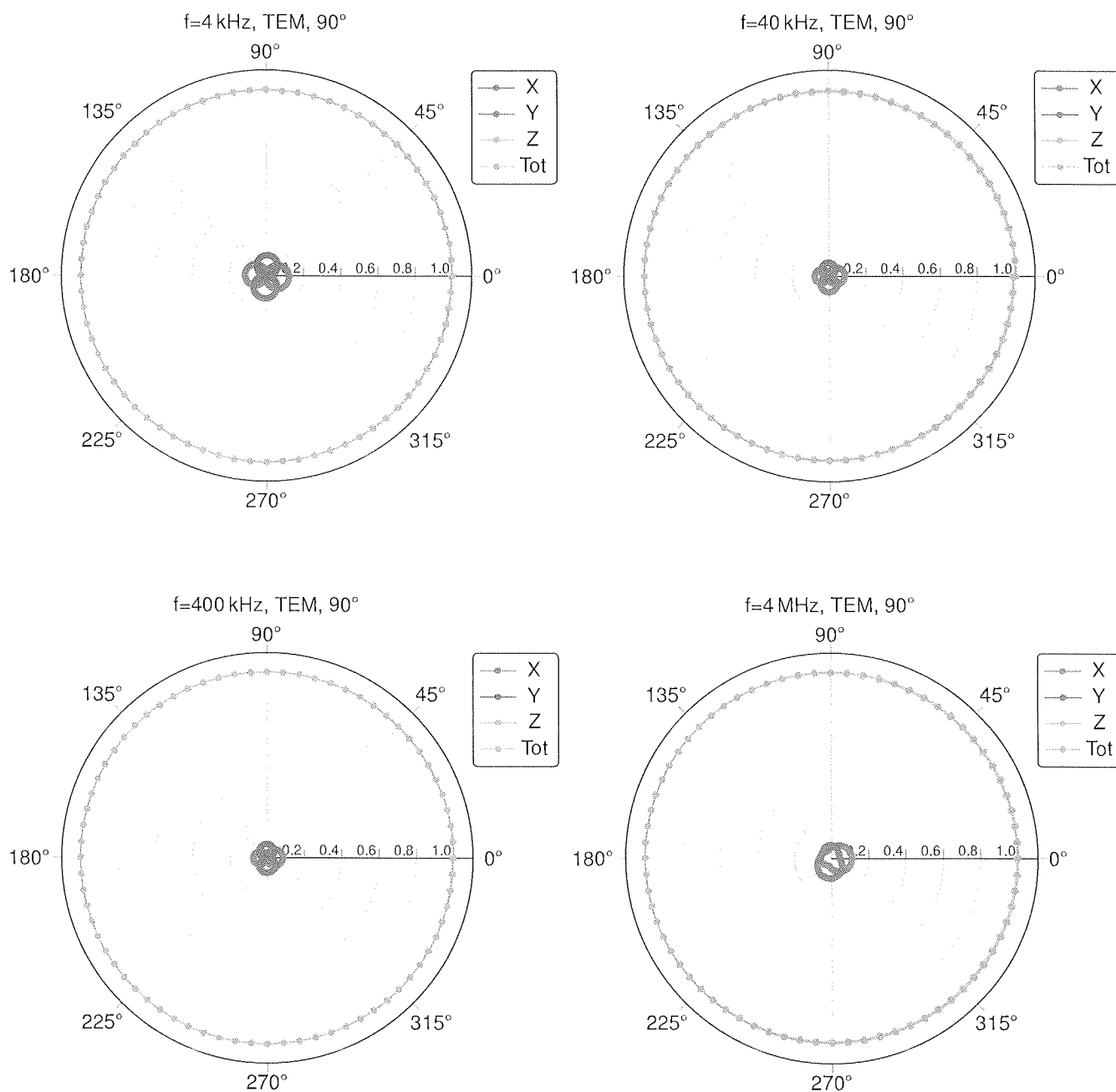
¹ Calibration uncertainty not taken into account (shared risk 50%).

Isotropy H-Field

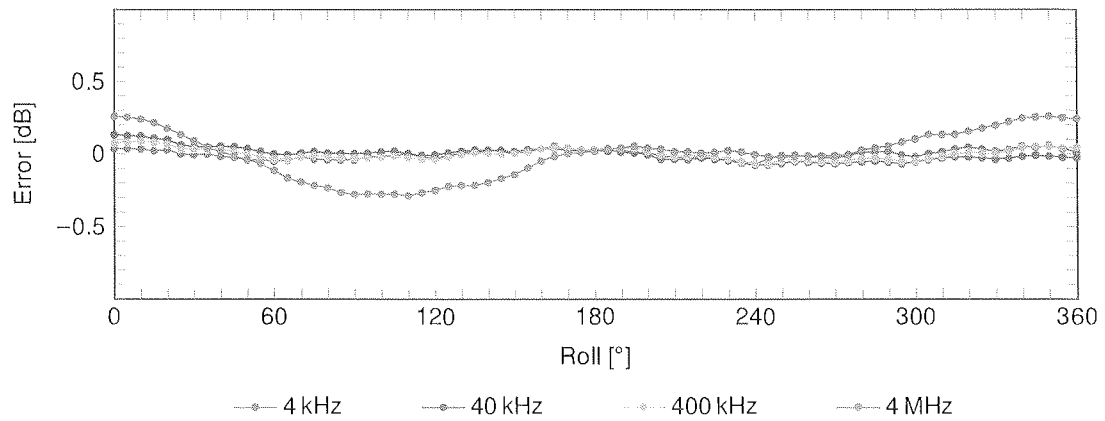
H-Field Receiving Pattern (ϕ), $\vartheta = 0^\circ$



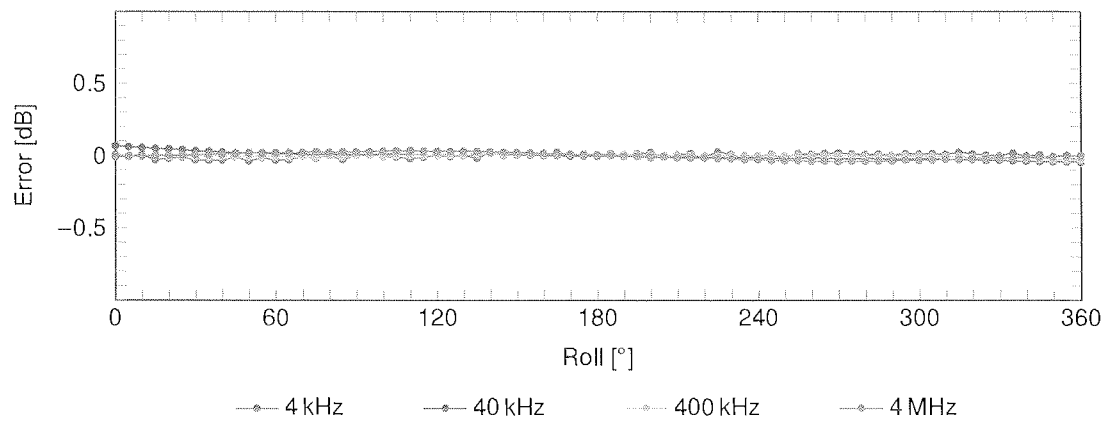
H-Field Receiving Pattern (ϕ), $\theta = 90^\circ$



H-Field Receiving Pattern (ϕ), $\vartheta = 0^\circ$



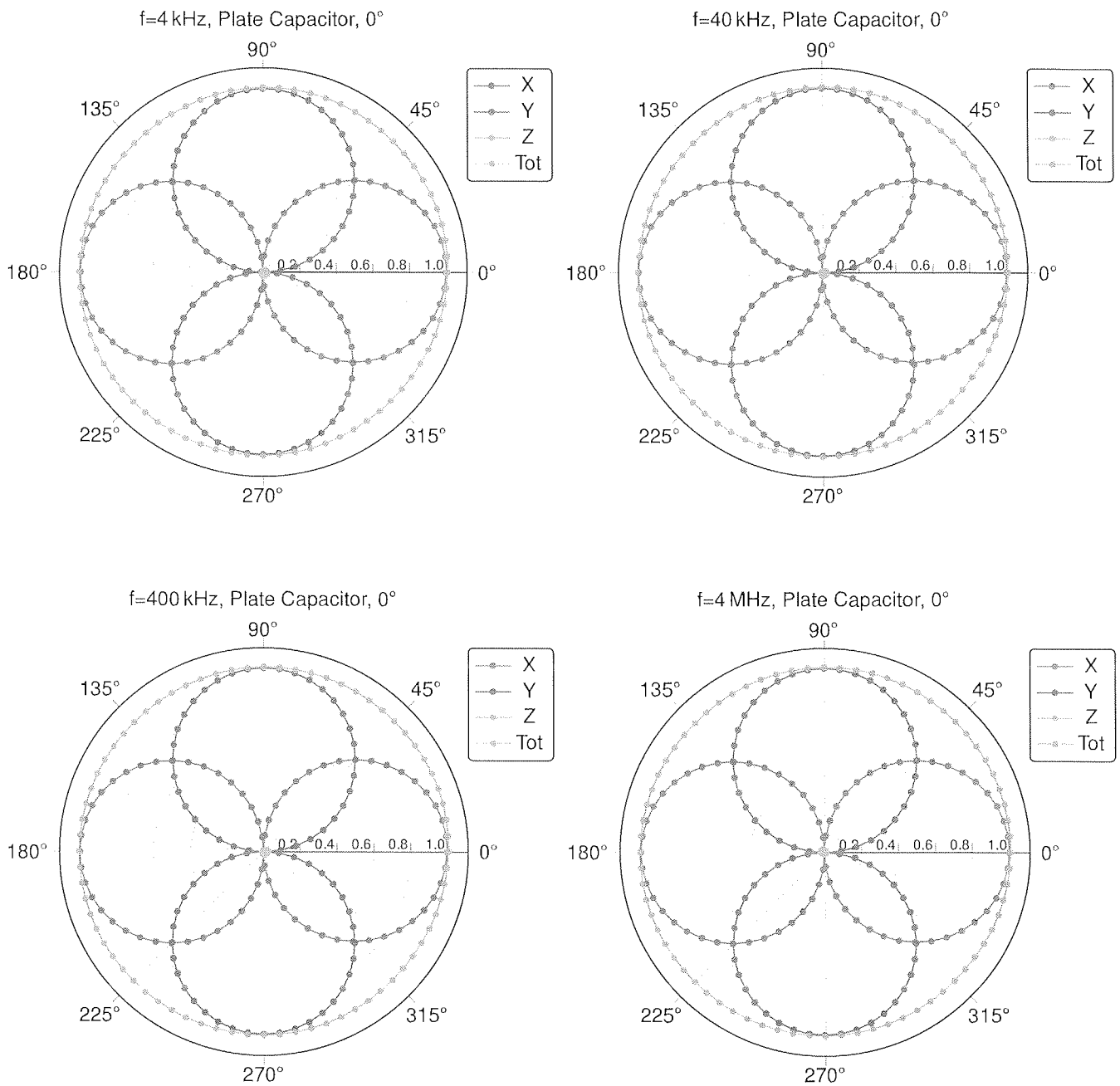
H-Field Receiving Pattern (ϕ), $\vartheta = 90^\circ$



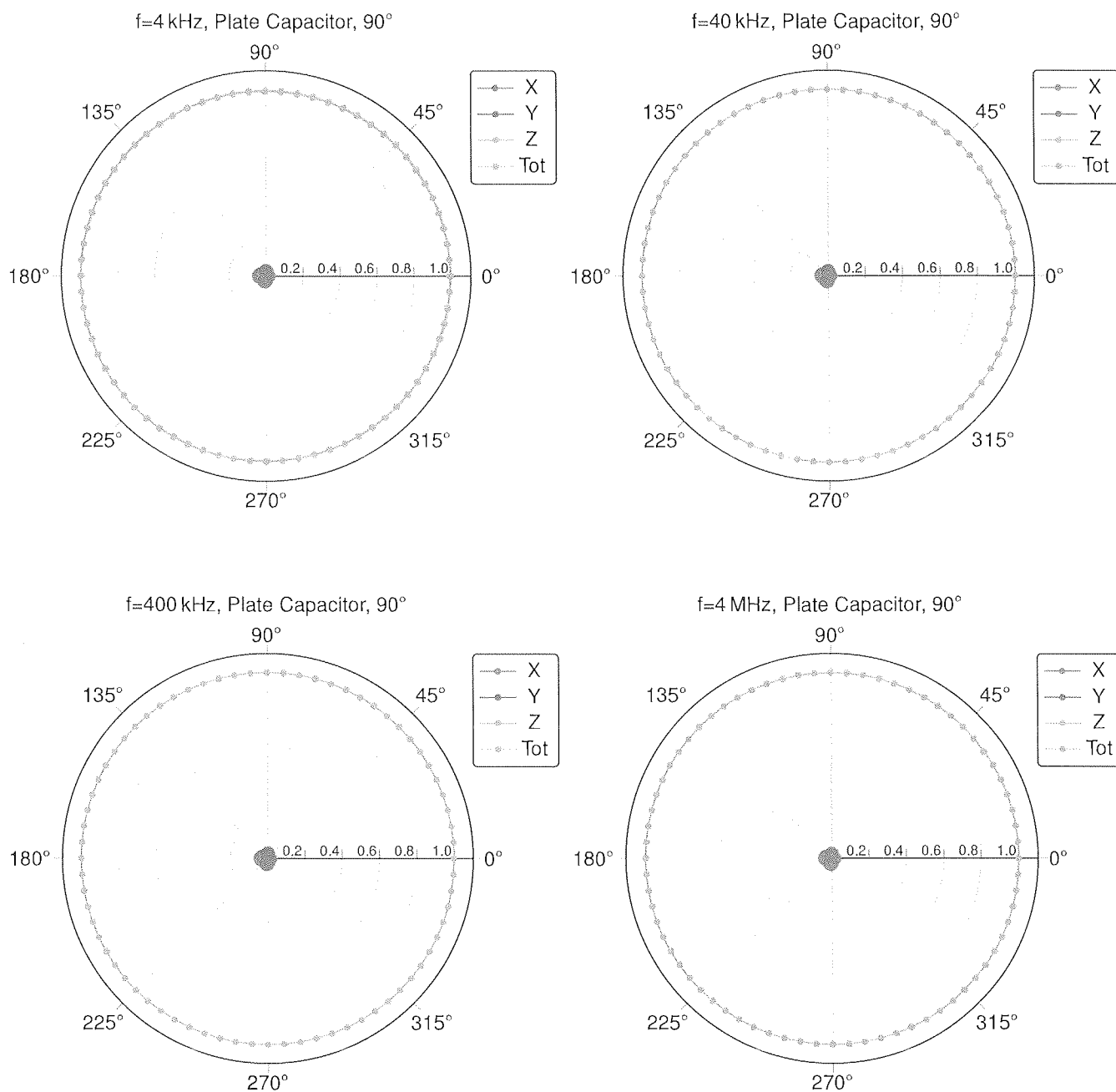
SPEAG axial deviation from the ideal response tolerance for H-field: ± 0.6 dB

Isotropy E-Field

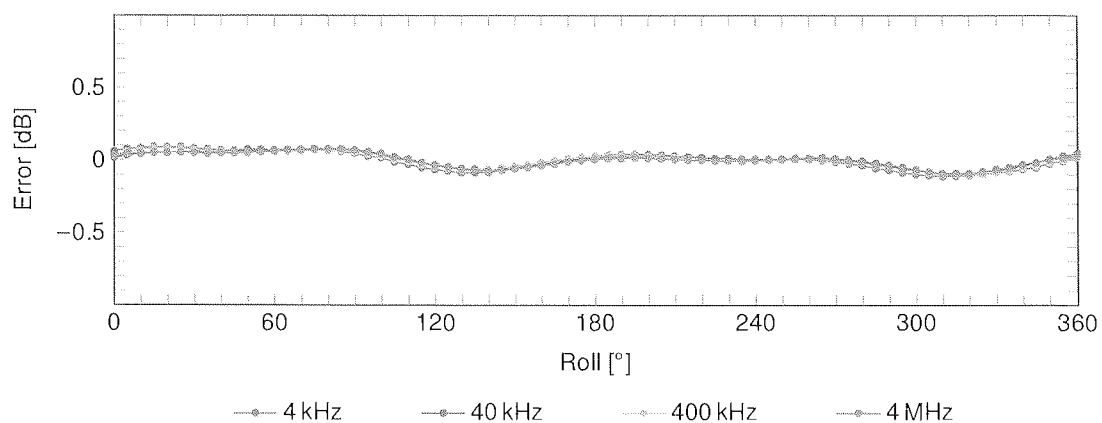
E-Field Receiving Pattern (ϕ), $\vartheta = 0^\circ$



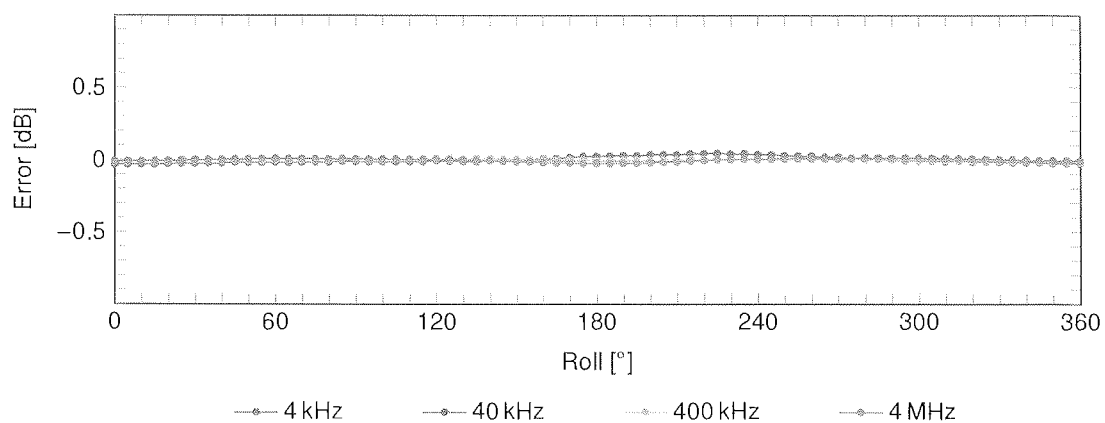
E-Field Receiving Pattern (ϕ), $\vartheta = 90^\circ$



E-Field Receiving Pattern (ϕ), $\vartheta = 0^\circ$



E-Field Receiving Pattern (ϕ), $\vartheta = 90^\circ$



SPEAG axial deviation from the ideal response tolerance for E-field: ± 0.8 dB



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **B.V. ADT**
Taoyuan City

Certificate No. **V-Coil350/85-1020_Jun25**

CALIBRATION CERTIFICATE

Object **V-Coil350/85V2 - SN: 1020**

Calibration procedure(s) **QA CAL-47.v13**
Calibration Procedure for WPT Verification & Validation Sources

Calibration date: **June 18, 2025**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
MAGPy-8H3D+E3D/DAS	SN: 3090/3078	22-Aug-24 (MAGPy-8H3D-3090_Aug24)	Aug-25

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
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Calibrated by: **Name**
Krešimir Franjić **Function**
Laboratory Technician

Signature

Approved by: **Sven Kühn** **Technical Manager**

i.A. A. Köhler

Issued: June 18, 2025

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

WPT wireless power transfer
V&V verification & validation

Calibration is Performed According to the Following Standards:

- Internal procedure QA CAL-47 Calibration procedure for WPT verification & validation sources from 3 kHz to 10 MHz
- IEC/IEEE 63164, "Assessment methods of the human exposure to electric and magnetic fields from wireless power transfer systems – Models, instrumentation, measurement and computational methods and procedures (Frequency range 3 kHz to 30 MHz)", draft standard, 2023

Additional Documentation:

- a) cDASY6/DASY8 Module WPT Manual

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* The V&V source is switched on for at least 30 minutes.
- *Source Positioning:* The V&V source is placed in the center of the UniPV1 phantom such that the source surface is parallel to phantom surface. The probe location used for DUT teaching is the top center of the coil (marked on the source casing). The probe distance is verified using mechanical gauges placed on the source surface.
- *H-field distribution:* H-field is measured in the volume above the V&V source in a rectilinear grid with a uniform grid step of 7.33 mm.

Calibrated Quantity

- Spatial peak of H-field (RMS value) at d mm from the DUT surface (extrapolated from measurements)

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

Software version	cDASY6 Module WPT	2.8.0.5184
	Notebook GUI	2.8.2.2
	Sim4Life	8.0.1
Scan setup	Grid dimensions	x: 477 mm, y: 389 mm, z: 36.7 mm
	Grid resolutions	dx, dy, dz: 7.33 mm
Nominal frequency	85 kHz	

Calibrated Quantities

Distance (relative to source surface) (mm)	Peak H-field (A/m)	Uncertainty (k=2) (dB)
0	207	1.13
2	189	1.13

Appendix (Additional assessments outside the scope of SCS 0108)

Peak values of induced fields¹

Distance (relative to source surface) (mm)	Induced peak current density, 1cm ² area avg. (A/m ²)	Induced peak E-field (V/m)			peak spatial SAR (mW/kg)	
		2mm cube avg.	Local	5mm line avg.	1g avg.	10g avg.
0	2.37	3.38	3.41	3.42	6.57	4.88
2	2.22	3.17	3.21	3.22	5.87	4.42

Voltage measurement

Total voltage (V)	Voltages at harmonics (dBc)
0.409	Highest harmonic: -47.4 2 nd highest harmonic: -48.2

¹ determined for a virtual half-space phantom with tissue properties $\epsilon_r = 55$, $\sigma = 0.75$ S/m, $\rho = 1000$ kg/m³ and a 2 mm thick phantom shell

Measurement report

cDASY6 Module WPT Measurement Report

Device under test

Info:
V-Coil350/85

Serial number:
1020

Scenario:
Source Calibration

Tool info

DASY software version:
cDASY6 Module WPT 2.8.0.5184

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000230, 2024/08/23

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: -48.07 mm, y: -119.84 mm, z: 36.60 mm

Dimensions:
x: 477.0 mm, y: 388.8 mm, z: 36.7 mm

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

Completed on:
2025/06/18 12:54:49

Measurement results

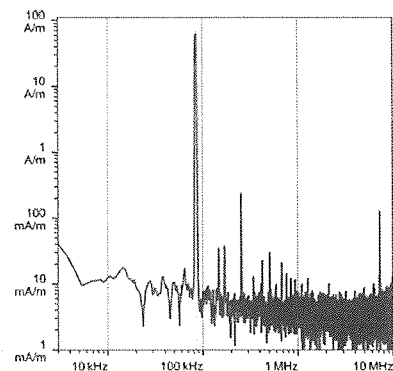
Maximum H-field [RMS]:
MAGNITUDE: 135.81 A/m
x: 118.69 A/m, y: 30.77 A/m, z: 58.40 A/m

Maximum H-field location relative to DUT:
x: 157.67 mm, y: 25.67 mm, z: 8.50 mm

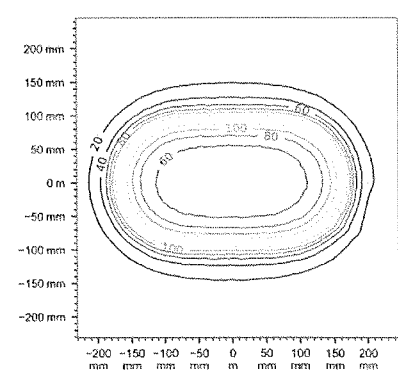
Distance to -20.0 dB boundary:
62.66 mm

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	Warnings		
	H _{inc} [A/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius [mm]	Sign	Vector potential	Boundary effect
0.00	207	3.38	3.41	3.42	2.37	6.57	4.88	182	1%	89%	38%
2.00	189	3.17	3.21	3.22	2.23	5.87	4.42	184	1%	89%	38%

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

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 _{ind} [V/m]	psSAR [mW/kg]	PH _{inc} [A/m]	PJ _{ind} [A/m ²]	psSAR [mW/kg]	PH _{inc} [A/m]	PE _{ind} [V/m]	psSAR [mW/kg]	PH _{inc} [A/m]	PE _{ind} [V/m]	psSAR [mW/kg]	PH _{inc} [A/m]	PE _{ind} [V/m]	psSAR [mW/kg]
0.00	207	3.38	4.88	207	2.37	4.88	207	3.42	4.88	207	N/A	6.57	207	3.41	6.57
2.00	189	3.17	4.42	189	2.23	4.42	189	3.22	4.42	189	N/A	5.87	189	3.21	5.87

Compliance evaluation (Exposure ratios) (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} NS TH	PE _{ind} NS TH	psSAR NS TH	PH _{inc} N/A NS TH	PJ _{ind} NS TH	psSAR N/A NS TH	PH _{inc} NS TH	PE _{ind} NS TH	psSAR NS TH	PH _{inc} N/A	PE _{ind} N/A TH	psSAR N/A TH	PH _{inc} NS TH	PE _{ind} NS TH	psSAR NS TH
0.00	19.9 N/A -10.6 N/A	32.3 22.9 N/A	2.09 N/A -14.3 N/A	7.24 N/A N/A	7.24 N/A -10.5 N/A										
2.00	19.1 N/A -11.2 N/A	31.5 22.4 N/A	1.28 N/A -14.9 N/A	6.44 N/A N/A	6.44 N/A -11.1 N/A										

Appendix D. System Verification

The measuring results for system check are shown as below.

DASY8 Module WPT Measurement Report

Device under test

Info:
V-Coi350/85

Serial number:
1020

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, WP000225, 2025/08/06

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: -40.04 mm, y: 950.00 µm, z: 36.55 mm

Dimensions:
x: 609.0 mm, y: 609.0 mm, z: 36.7 mm

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

Completed on:
2025/12/30

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 117.50 A/m
x: 57.23 A/m, y: 79.27 A/m, z: 65.17 A/m

Maximum H-field location relative to DUT:
x: 47.67 mm, y: -143.00 mm, z: 8.50 mm

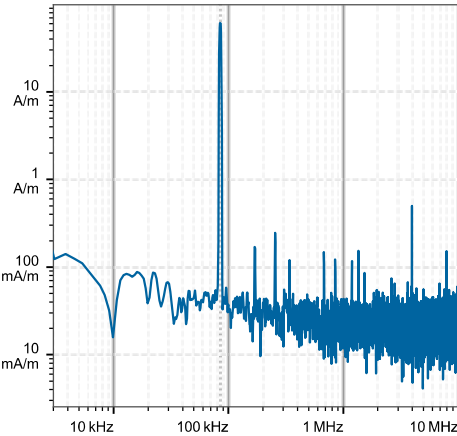
Maximum E-field [RMS]:
MAGNITUDE: 160.10 V/m
x: 5.28 V/m, y: 8.29 V/m, z: 159.80 V/m

Maximum E-field location relative to DUT:
x: 88.00 mm, y: 176.00 mm, z: 0.00 m

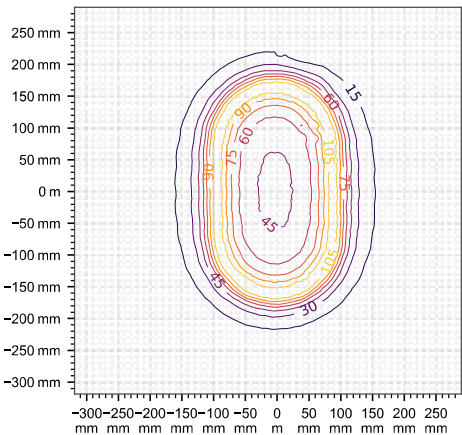
Distance to -20.0 dB boundary:
67.61 mm

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)

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	183	160	3.02	3.05	3.06	2.13	5.31	3.98	184	3%	74%	24%
2.00	166	149	2.85	2.88	2.88	2.01	4.77	3.62	187	3%	74%	25%

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]		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
0.00	183	160	22.9	3.98	183	160	2.13	3.98	183	160	11.9	3.98	183	160	N/A	5.31	183	160	32.6	5.31
2.00	166	149	21.7	3.62	166	149	2.01	3.62	166	149	11.3	3.62	166	149	N/A	4.77	166	149	30.9	4.77

Coverage factors: w_{E_{ind}, cube avg.} = [7.56, 7.60], w_{E_{ind}, local} = [10.69, 10.74], w_{E_{ind}, line avg.} = [3.88, 3.90]

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	
	P _H inc		P _E inc		P _E ind	psSAR	P _H inc	P _E inc	P _J ind	psSAR	P _H inc	P _E inc	P _E ind	psSAR	P _H inc	P _E inc	P _E ind	psSAR	P _H inc	P _E inc	P _E ind	psSAR	P _H inc	P _E inc	P _E 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	8.72	N/A	6.72	N/A	1.99	N/A	36.6	6.41	12.6	N/A	1.12	N/A	0.91	N/A	0.67	N/A	2.03	4.29	N/A	N/A	2.03	N/A	6.72	N/A	2.84	N/A
2.00	7.91	N/A	6.23	N/A	1.89	N/A	33.2	5.94	11.9	N/A	1.02	N/A	0.84	N/A	0.63	N/A	1.84	3.98	N/A	N/A	1.84	N/A	6.23	N/A	2.69	N/A

Coverage factors: w_{E_{ind}, cube avg.} = [7.56, 7.60], w_{E_{ind}, local} = [10.69, 10.74], w_{E_{ind}, line avg.} = [3.88, 3.90]