

MAGPy-8H3D+E3DV2 SN:3075
MAGPy-DASV2 SN:3111

May 05, 2026

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	3.23	3.23	3.23	3.23	3.24	3.23	0.00	0.03	0.00	±0.3
3200	3.25	3.25	3.25	3.27	3.26	3.27	0.05	0.03	0.05	±0.3
4000	3.25	3.25	3.25	3.25	3.26	3.25	0.00	0.03	0.00	±0.3
5200	3.23	3.23	3.23	3.24	3.21	3.23	0.03	-0.05	0.00	±0.3
6600	3.20	3.20	3.20	3.21	3.21	3.21	0.03	0.03	0.03	±0.3
8200	3.16	3.16	3.16	3.18	3.18	3.17	0.05	0.05	0.03	±0.3
9000	3.15	3.15	3.15	3.15	3.15	3.15	0.00	0.00	0.00	±0.3
10600	4.37	4.29	4.28	4.39	4.31	4.29	0.04	0.04	0.02	±0.3
13400	4.37	4.31	4.30	4.36	4.32	4.32	-0.02	0.02	0.04	±0.3
17000	4.37	4.31	4.31	4.39	4.32	4.31	0.04	0.02	0.00	±0.3
21400	4.40	4.34	4.33	4.40	4.36	4.33	0.00	0.04	0.00	±0.3
27200	4.40	4.34	4.33	4.40	4.35	4.33	0.00	0.02	0.00	±0.3
34400	4.40	4.36	4.34	4.41	4.36	4.35	0.02	0.00	0.02	±0.3
40000	4.39	4.34	4.34	4.41	4.36	4.34	0.04	0.04	0.00	±0.3
43600	4.39	4.34	4.33	4.40	4.35	4.34	0.02	0.02	0.02	±0.3
55400	4.38	4.34	4.33	4.38	4.34	4.33	0.00	0.00	0.00	±0.3
70000	4.37	4.32	4.31	4.37	4.33	4.32	0.00	0.02	0.02	±0.3
88800	4.35	4.31	4.30	4.35	4.32	4.31	0.00	0.02	0.02	±0.3
112400	4.33	4.30	4.29	4.33	4.30	4.29	0.00	0.00	0.00	±0.3
142400	4.31	4.27	4.27	4.31	4.28	4.27	0.00	0.02	0.00	±0.3
161750	4.30	4.26	4.26	4.31	4.27	4.26	0.02	0.02	0.00	±0.3
180400	4.29	4.25	4.24	4.29	4.25	4.24	0.00	0.00	0.00	±0.3
228400	4.26	4.22	4.21	4.25	4.22	4.21	-0.02	0.00	0.00	±0.3
289400	4.21	4.18	4.17	4.21	4.18	4.17	0.00	0.00	0.00	±0.3
366400	4.17	4.14	4.13	4.17	4.14	4.13	0.00	0.00	0.00	±0.3
400000	4.15	4.12	4.11	4.15	4.12	4.11	0.00	0.00	0.00	±0.3
464000	4.12	4.09	4.08	4.12	4.10	4.09	0.00	0.02	0.02	±0.3
587800	4.07	4.04	4.04	4.07	4.05	4.04	0.00	0.02	0.00	±0.3
744200	4.02	4.00	4.00	4.03	4.00	4.00	0.02	0.00	0.00	±0.3
942600	4.00	3.98	3.98	4.00	3.99	3.98	0.00	0.02	0.00	±0.3
1193600	3.98	3.96	3.95	3.98	3.96	3.95	0.00	0.00	0.00	±0.3
1511600	3.97	3.96	3.95	3.98	3.96	3.95	0.02	0.00	0.00	±0.3
1914400	3.96	3.94	3.93	3.96	3.94	3.93	0.00	0.00	0.00	±0.3
2424400	3.93	3.91	3.90	3.93	3.91	3.90	0.00	0.00	0.00	±0.3
3070200	3.89	3.87	3.87	3.89	3.88	3.87	0.00	0.02	0.00	±0.3
3888000	3.83	3.82	3.81	3.84	3.82	3.81	0.02	0.00	0.00	±0.3
4000000	3.82	3.81	3.80	3.82	3.81	3.80	0.00	0.00	0.00	±0.3
4923800	3.75	3.73	3.72	3.75	3.73	3.73	0.00	0.00	0.02	±0.3
6235400	3.64	3.63	3.62	3.64	3.63	3.62	0.00	0.00	0.00	±0.3
7896400	3.50	3.49	3.48	3.50	3.50	3.48	0.00	0.02	0.00	±0.3
10000000	3.35	3.34	3.33	3.35	3.34	3.37	0.00	0.00	0.10	±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%).

MAGPy-8H3D+E3DV2 SN:3075
MAGPy-DASV2 SN:3111

May 05, 2026

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	83.5	83.5	82.0	82.2	83.0	81.7	-0.14	-0.05	-0.03	±0.3
3200	83.5	83.5	82.0	82.1	84.1	81.0	-0.15	0.06	-0.11	±0.3
4000	83.5	83.5	82.0	82.6	83.1	81.8	-0.09	-0.04	-0.02	±0.3
5200	83.5	83.5	82.0	83.4	83.4	81.3	-0.01	-0.01	-0.07	±0.3
6600	83.5	83.5	82.0	82.9	83.0	82.0	-0.06	-0.05	0.00	±0.3
8200	83.5	83.5	82.0	83.1	83.0	82.2	-0.04	-0.05	0.02	±0.3
9000	83.5	83.5	82.0	83.3	83.5	82.0	-0.02	0.00	0.00	±0.3
10600	83.5	83.5	82.0	83.2	83.6	82.1	-0.03	0.01	0.01	±0.3
13400	83.5	83.5	82.0	83.5	83.4	82.0	0.00	-0.01	0.00	±0.3
17000	83.5	83.5	82.0	83.5	83.5	82.0	0.00	0.00	0.00	±0.3
21400	83.5	83.5	82.0	83.5	83.5	82.0	0.00	0.00	0.00	±0.3
27200	83.5	83.5	82.0	83.5	83.7	81.9	0.00	0.02	-0.01	±0.3
34400	83.5	83.5	82.0	83.5	83.6	82.0	0.00	0.01	0.00	±0.3
40000	83.5	83.5	82.0	83.6	83.6	82.0	0.01	0.01	0.00	±0.3
43600	83.5	83.5	82.0	83.6	83.6	82.0	0.01	0.01	0.00	±0.3
55400	83.5	83.5	82.0	83.6	83.5	82.0	0.01	0.00	0.00	±0.3
70000	83.5	83.5	82.0	83.6	83.6	82.0	0.01	0.01	0.00	±0.3
88800	83.5	83.5	82.0	83.6	83.6	82.0	0.01	0.01	0.00	±0.3
112400	83.5	83.5	82.0	83.6	83.6	82.0	0.01	0.01	0.00	±0.3
142400	83.5	83.5	82.0	83.6	83.6	82.0	0.01	0.01	0.00	±0.3
161750	83.5	83.5	82.0	83.6	83.5	82.0	0.01	0.00	0.00	±0.3
180400	83.5	83.5	82.0	83.6	83.6	82.0	0.01	0.01	0.00	±0.3
228400	83.5	83.5	82.0	83.6	83.6	82.0	0.01	0.01	0.00	±0.3
289400	83.5	83.5	82.0	83.6	83.5	82.0	0.01	0.00	0.00	±0.3
366400	83.5	83.5	82.0	83.5	83.5	82.0	0.00	0.00	0.00	±0.3
400000	83.5	83.5	82.0	83.6	83.5	82.0	0.01	0.00	0.00	±0.3
464000	83.5	83.5	82.0	83.5	83.5	82.0	0.00	0.00	0.00	±0.3
587800	83.5	83.5	82.0	83.5	83.5	82.0	0.00	0.00	0.00	±0.3
744200	83.5	83.5	82.0	83.5	83.5	82.0	0.00	0.00	0.00	±0.3
942600	83.5	83.5	82.0	83.5	83.5	82.0	0.00	0.00	0.00	±0.3
1193600	83.5	83.5	82.0	83.6	83.5	82.0	0.01	0.00	0.00	±0.3
1511600	83.5	83.5	82.0	83.5	83.5	82.0	0.00	0.00	0.00	±0.3
1914400	83.5	83.5	82.0	83.6	83.5	82.0	0.01	0.00	0.00	±0.3
2424400	82.8	82.8	81.2	82.8	82.8	81.2	0.00	0.00	0.00	±0.3
3070200	82.5	82.5	81.0	82.6	82.6	81.0	0.01	0.01	0.00	±0.3
3888000	82.6	82.6	81.1	82.7	82.7	81.1	0.01	0.01	0.00	±0.3
4000000	82.7	82.7	81.2	82.8	82.8	81.2	0.01	0.01	0.00	±0.3
4923800	83.1	83.1	81.6	83.1	83.1	81.6	0.00	0.00	0.00	±0.3
6235400	84.6	84.6	83.1	84.6	84.6	83.1	0.00	0.00	0.00	±0.3
7896400	88.3	88.3	86.8	88.4	88.3	86.8	0.01	0.00	0.00	±0.3
10000000	96.1	96.1	94.4	96.1	96.1	94.5	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

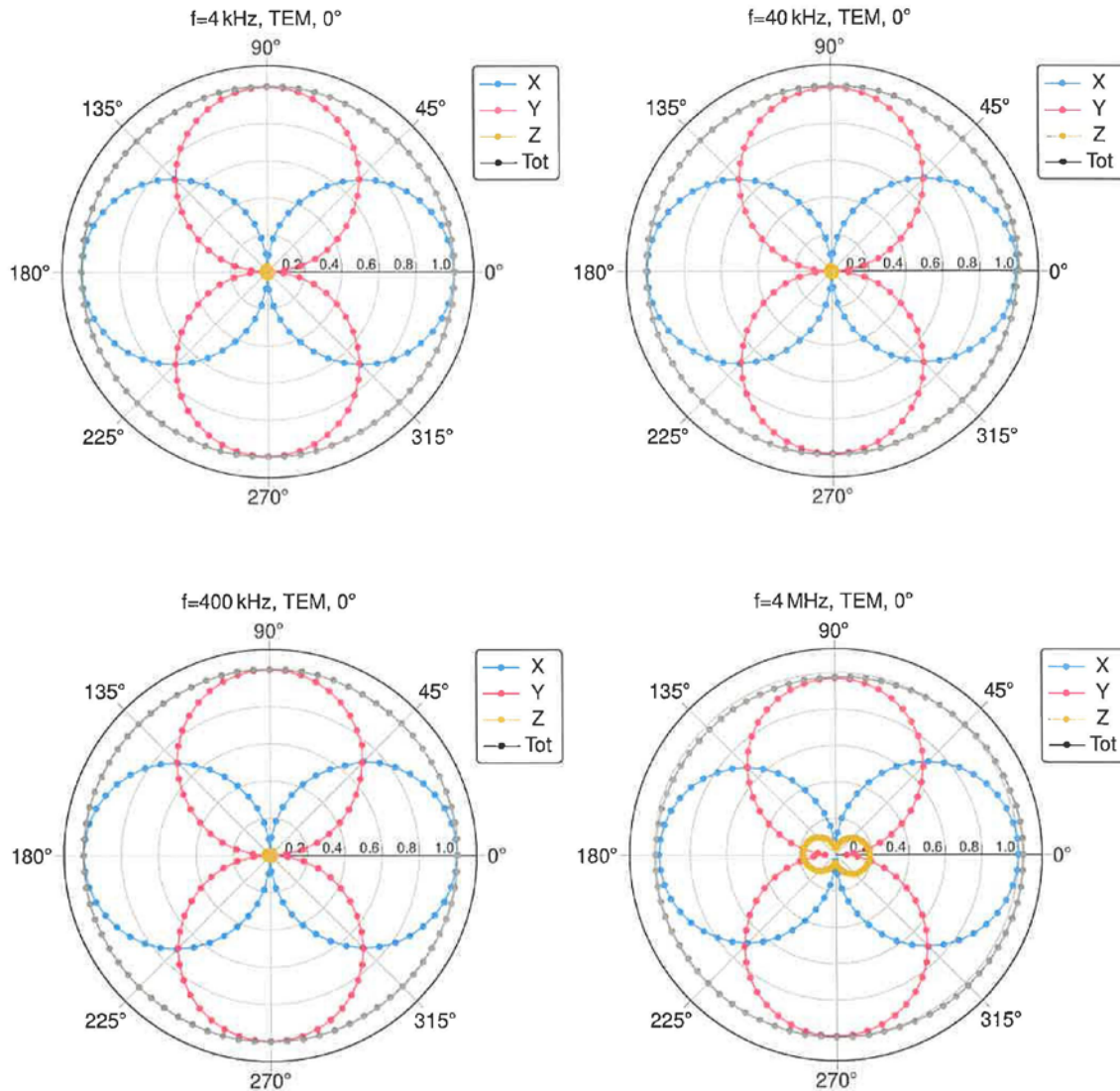
¹ Calibration uncertainty not taken into account (shared risk 50%).

MAGPy-8H3D+E3DV2 SN:3075
MAGPy-DASV2 SN:3111

May 05, 2026

Isotropy H-Field

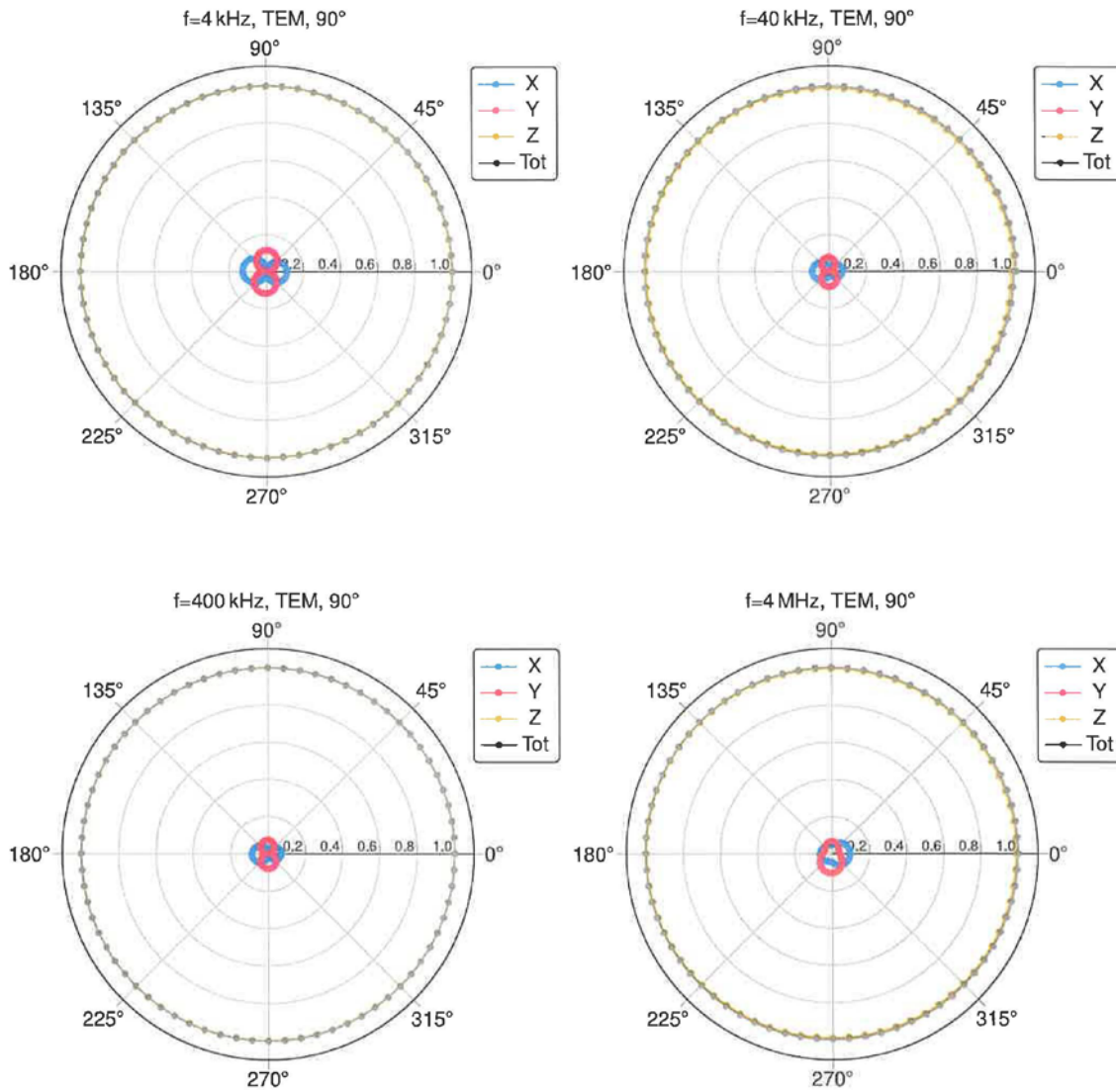
H-Field Receiving Pattern (ϕ), $\vartheta = 0^\circ$



MAGPy-8H3D+E3DV2 SN:3075
MAGPy-DASV2 SN:3111

May 05, 2026

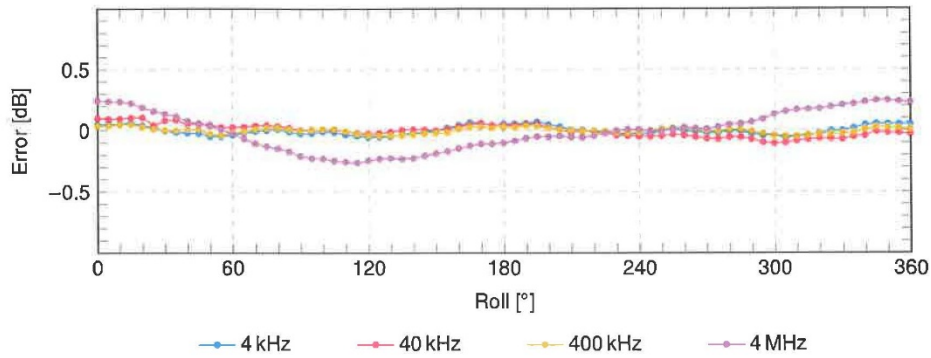
H-Field Receiving Pattern (ϕ), $\vartheta = 90^\circ$



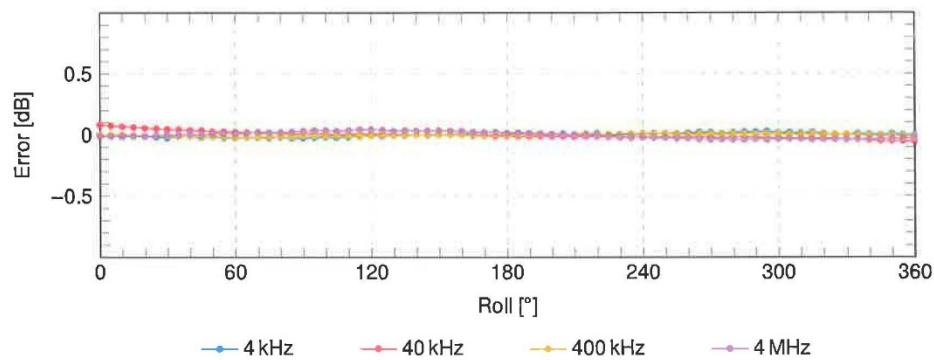
MAGPy-8H3D+E3DV2 SN:3075
MAGPy-DASV2 SN:3111

May 05, 2026

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



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



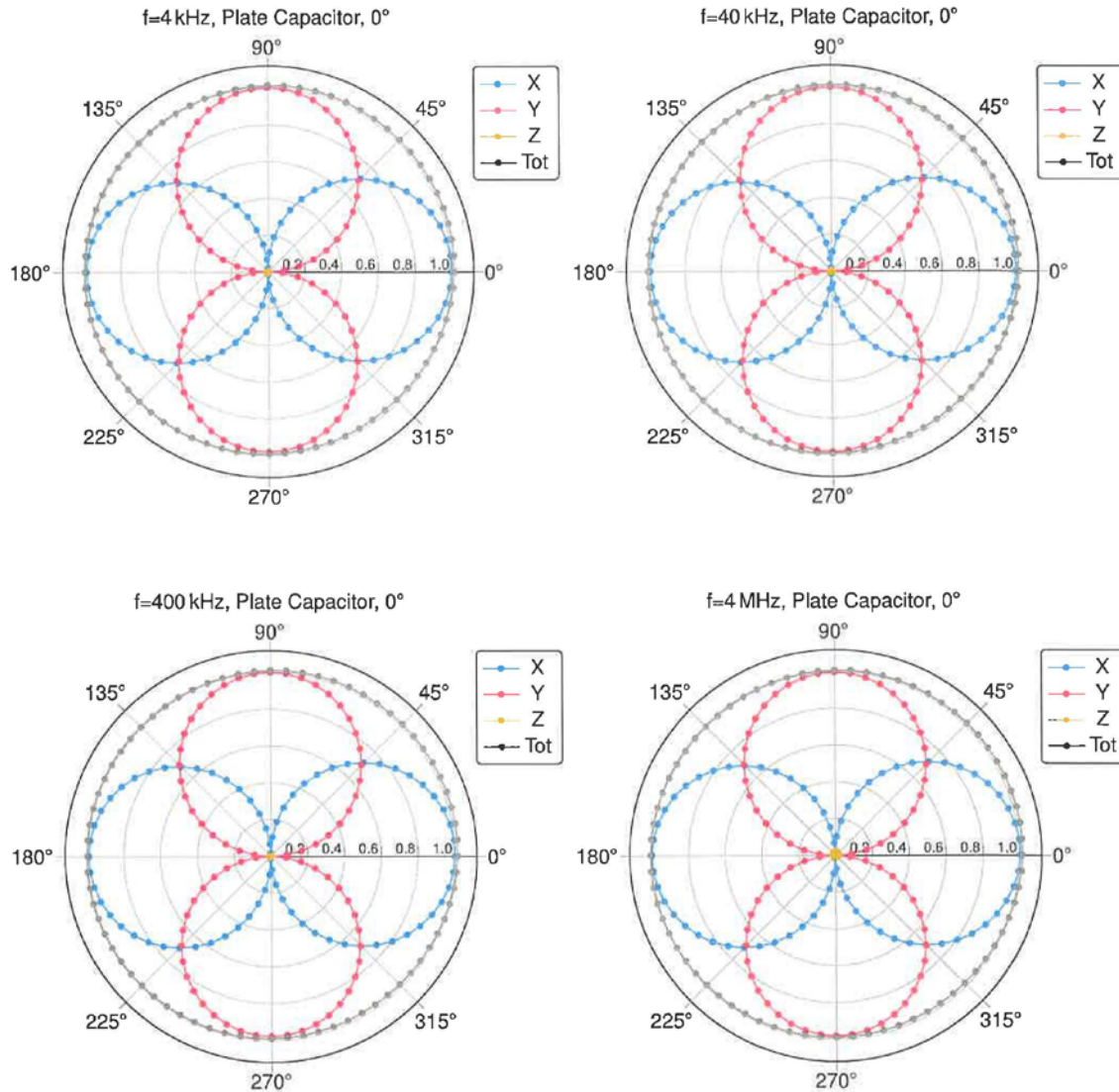
SPEAG axial deviation from the ideal response tolerance for H-field: ± 0.6 dB

MAGPy-8H3D+E3DV2 SN:3075
MAGPy-DASV2 SN:3111

May 05, 2026

Isotropy E-Field

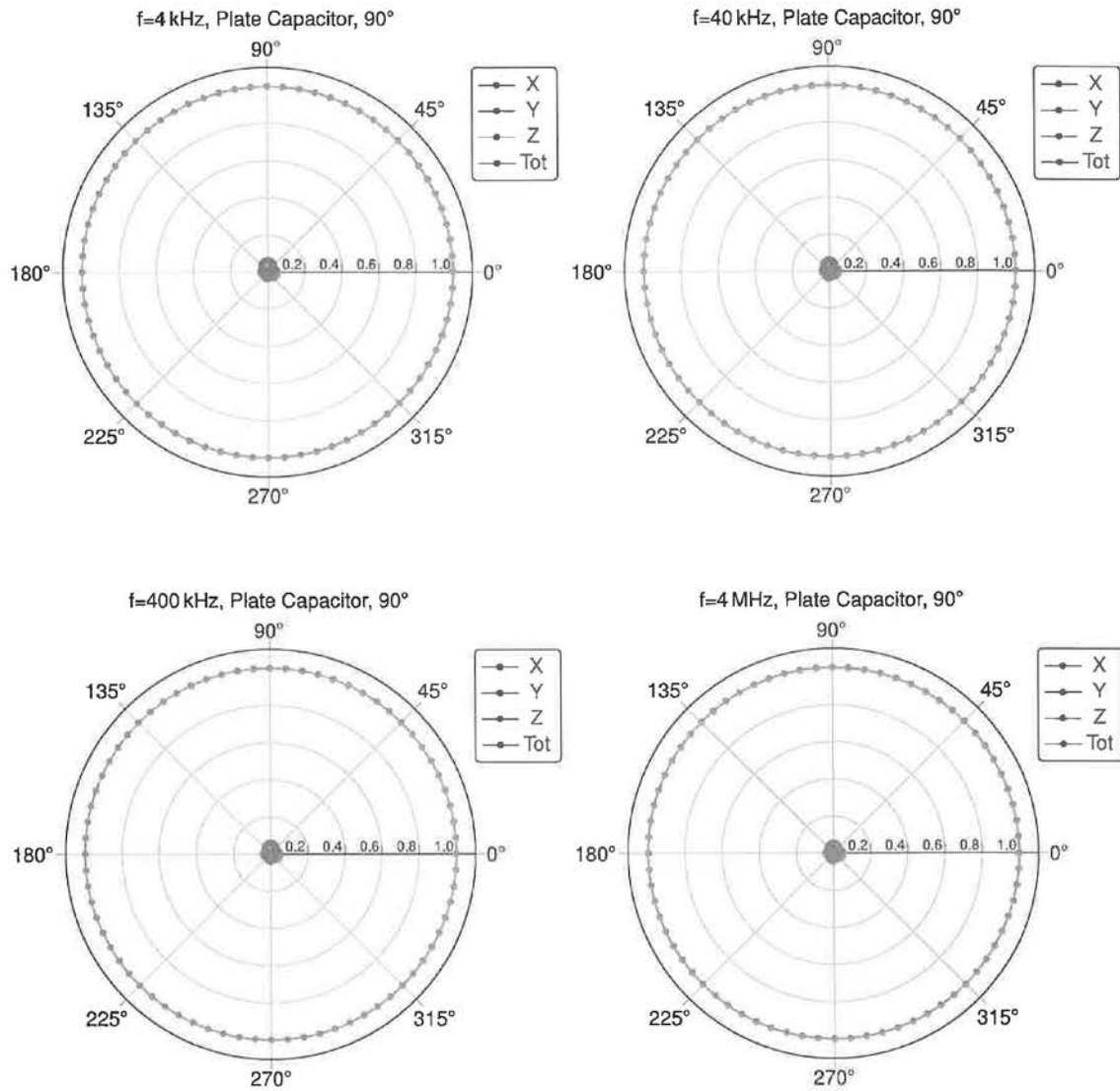
E-Field Receiving Pattern (ϕ), $\theta = 0^\circ$



MAGPy-8H3D+E3DV2 SN:3075
MAGPy-DASV2 SN:3111

May 05, 2026

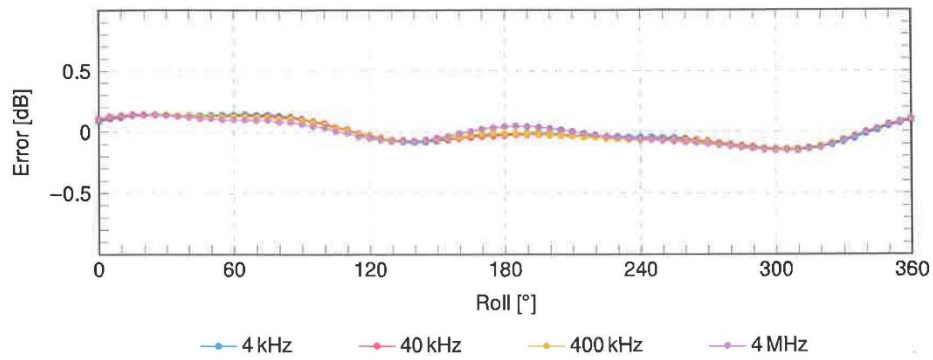
E-Field Receiving Pattern (ϕ), $\vartheta = 90^\circ$



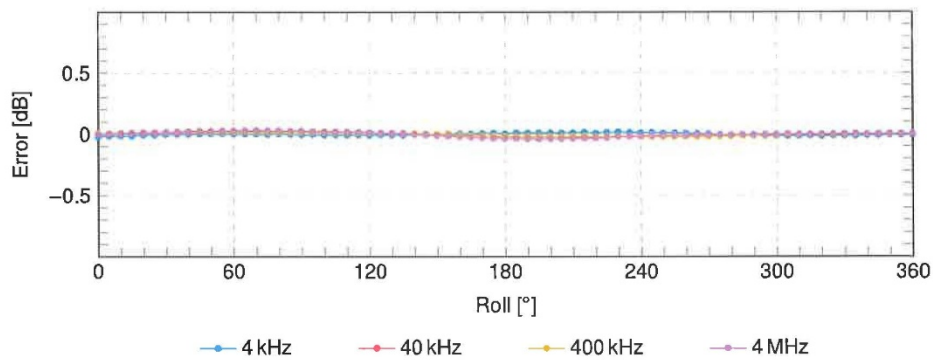
MAGPy-8H3D+E3DV2 SN:3075
MAGPy-DASV2 SN:3111

May 05, 2026

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: $\pm 0.8\text{dB}$

APPENDIX B. – Verification Source Calibration Data

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

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 **Dt&C**
Gyeonggi-do, Republic of Korea

Certificate No. **V-Coil350/85-1036_Nov25**

CALIBRATION CERTIFICATE

Object **V-Coil350/85V2 - SN: 1036**

Calibration procedure(s) **QA CAL-47.v14
Calibration Procedure for WPT Verification & Validation Sources**

Calibration date: **November 14, 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 $< 75\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
MAGPy-8H3D+E3D/DAS	SN: 3090/3078	10-Nov-25 (MAGPy-8H3D-3090_Nov25)	Nov-26

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
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Calibrated by:	Name	Function	Signature
	Krešimir Franjić	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	

Issued: November 14, 2025

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

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

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%.