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Accreditation No.: SCS 0108

Client **UL Korea**  
Gyeonggi-do, Republic of Korea

Certificate No. **MAGPy-8H3D-3071**

## CALIBRATION CERTIFICATE

Object **MAGPy-8H3D+E3DV2 SN:3071**  
**MAGPy-DASV2 SN:2050**

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

Calibration date **July 04, 2024**

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: 112135         | 25-Sep-23 (No. 17A1162175) | Sep-24                |
| Reference 20 dB Attenuator | SN: CC2552 (20x)   | 26-Mar-24 (No. 217-04046)  | Mar-25                |
| Type-N mismatch            | SN: 310982 / 06327 | 26-Mar-24 (No. 217-04047)  | Mar-25                |

| Secondary Standards     | ID             | Check Date (in house)  | Scheduled Check        |
|-------------------------|----------------|------------------------|------------------------|
| Network Analyzer E5061B | SN: MY49810822 | In house check: Nov-23 | In house check: Nov-24 |
| TEM Cell                | SN: S6029i     | In house check: Nov-23 | In house check: Nov-24 |
| Plate Capacitor         | SN: 6028i      | In house check: Nov-23 | In house check: Nov-24 |
| Resonator (160kHz)      | SN: 6030i      | In house check: Nov-23 | In house check: Nov-24 |

|               | Name               | Function            | Signature |
|---------------|--------------------|---------------------|-----------|
| Calibrated by | Aidonia Georgiadou | Laboratory Engineer |           |
| Approved by   | Sven Kühn          | Technical Manager   |           |

Issued: July 04, 2024

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



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## 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  $\vartheta$ , 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  $\vartheta$ , 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) | 3071          |
|                        | MAGPy-DASV2 (SE UMS 303 AD)      | 2050          |
|                        | MAGPy FPGA Board                 | WP000107      |
| Adjustment Date        | Last MAGPy Adjustment            | July 04, 2024 |
| 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     |                |
| 0.380                 | 0.360 | 0.350 | 0.390                 | 0.370 | 0.390 | 0.23            | 0.24  | 0.94  | ±1.00          |
| 0.510                 | 0.490 | 0.480 | 0.530                 | 0.510 | 0.500 | 0.33            | 0.35  | 0.35  | ±1.00          |
| 0.700                 | 0.670 | 0.650 | 0.700                 | 0.690 | 0.660 | 0.00            | 0.26  | 0.13  | ±1.00          |
| 0.910                 | 0.880 | 0.850 | 0.900                 | 0.880 | 0.870 | -0.10           | 0.00  | 0.20  | ±1.00          |
| 1.24                  | 1.19  | 1.16  | 1.22                  | 1.18  | 1.19  | -0.14           | -0.07 | 0.22  | ±1.00          |
| 1.70                  | 1.63  | 1.59  | 1.69                  | 1.63  | 1.62  | -0.05           | 0.00  | 0.16  | ±1.00          |
| 2.26                  | 2.17  | 2.11  | 2.28                  | 2.17  | 2.14  | 0.08            | 0.00  | 0.12  | ±0.20          |
| 3.02                  | 2.90  | 2.83  | 3.03                  | 2.91  | 2.84  | 0.03            | 0.03  | 0.03  | ±0.20          |
| 4.10                  | 3.94  | 3.84  | 4.11                  | 3.94  | 3.85  | 0.02            | 0.00  | 0.02  | ±0.20          |
| 5.54                  | 5.34  | 5.19  | 5.54                  | 5.36  | 5.20  | 0.00            | 0.03  | 0.02  | ±0.20          |
| 7.47                  | 7.19  | 6.98  | 7.49                  | 7.23  | 7.00  | 0.02            | 0.05  | 0.02  | ±0.20          |
| 9.97                  | 9.60  | 9.33  | 9.97                  | 9.68  | 9.32  | 0.00            | 0.07  | -0.01 | ±0.20          |
| 13.5                  | 13.0  | 12.6  | 13.5                  | 13.1  | 12.6  | 0.00            | 0.07  | 0.00  | ±0.20          |
| 18.1                  | 17.5  | 17.0  | 18.2                  | 17.6  | 17.0  | 0.05            | 0.05  | 0.00  | ±0.20          |
| 24.5                  | 23.6  | 22.9  | 24.6                  | 23.7  | 23.0  | 0.04            | 0.04  | 0.04  | ±0.20          |
| 32.7                  | 31.5  | 30.6  | 32.9                  | 31.7  | 30.8  | 0.05            | 0.05  | 0.06  | ±0.20          |
| 44.1                  | 42.6  | 41.3  | 44.4                  | 42.8  | 41.5  | 0.06            | 0.04  | 0.04  | ±0.20          |
| 59.9                  | 57.7  | 55.9  | 60.2                  | 58.1  | 56.3  | 0.04            | 0.06  | 0.06  | ±0.20          |
| 82.4                  | 79.4  | 77.0  | 82.0                  | 79.1  | 76.7  | -0.04           | -0.03 | -0.03 | ±0.20          |
| 108                   | 104   | 101   | 107                   | 104   | 100   | -0.08           | 0.00  | -0.09 | ±0.20          |
| 148                   | 143   | 139   | 148                   | 142   | 138   | 0.00            | -0.06 | -0.06 | ±0.20          |
| 206                   | 199   | 193   | 205                   | 198   | 192   | -0.04           | -0.04 | -0.05 | ±0.20          |
| 285                   | 275   | 267   | 286                   | 271   | 268   | 0.03            | -0.13 | 0.03  | ±0.20          |
| 423                   | 408   | 396   | 416                   | 403   | 389   | -0.14           | -0.11 | -0.15 | ±0.20          |
| 586                   | 565   | 548   | 579                   | 561   | 542   | -0.10           | -0.06 | -0.10 | ±0.20          |
| 878                   | 847   | 822   | 878                   | 850   | 821   | 0.00            | 0.03  | -0.01 | ±0.20          |
| 1340                  | 1290  | 1250  | 1350                  | 1310  | 1270  | 0.06            | 0.13  | 0.14  | ±0.30          |
| 1830                  | 1760  | 1710  | 1870                  | 1810  | 1750  | 0.19            | 0.24  | 0.20  | ±0.30          |
| 3010                  | 2900  | 2820  | 3110                  | 3010  | 2910  | 0.28            | 0.32  | 0.27  | ±0.50          |
| 3670                  | 3530  | 3440  | 3800                  | 3680  | 3560  | 0.30            | 0.36  | 0.30  | ±0.50          |

#### SPEAG H-field linearity tolerance criteria<sup>1</sup>:

- ±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

<sup>1</sup> Calibration 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     |                |
| 0.380                 | 0.370 | 0.360 | 0.410                 | 0.380 | 0.390 | 0.66            | 0.23  | 0.70  | ±1.00          |
| 0.510                 | 0.500 | 0.490 | 0.540                 | 0.520 | 0.520 | 0.50            | 0.34  | 0.52  | ±1.00          |
| 0.700                 | 0.680 | 0.670 | 0.720                 | 0.690 | 0.680 | 0.24            | 0.13  | 0.13  | ±1.00          |
| 0.920                 | 0.890 | 0.880 | 0.910                 | 0.880 | 0.890 | -0.09           | -0.10 | 0.10  | ±1.00          |
| 1.24                  | 1.21  | 1.18  | 1.25                  | 1.20  | 1.21  | 0.07            | -0.07 | 0.22  | ±1.00          |
| 1.70                  | 1.65  | 1.63  | 1.71                  | 1.66  | 1.64  | 0.05            | 0.05  | 0.05  | ±1.00          |
| 2.26                  | 2.20  | 2.17  | 2.28                  | 2.22  | 2.20  | 0.08            | 0.08  | 0.12  | ±0.20          |
| 3.03                  | 2.95  | 2.90  | 3.06                  | 2.97  | 2.91  | 0.09            | 0.06  | 0.03  | ±0.20          |
| 4.11                  | 4.00  | 3.93  | 4.14                  | 4.02  | 3.95  | 0.06            | 0.04  | 0.04  | ±0.20          |
| 5.56                  | 5.42  | 5.32  | 5.59                  | 5.46  | 5.33  | 0.05            | 0.06  | 0.02  | ±0.20          |
| 7.48                  | 7.30  | 7.16  | 7.52                  | 7.34  | 7.19  | 0.05            | 0.05  | 0.04  | ±0.20          |
| 9.99                  | 9.74  | 9.56  | 10.0                  | 9.79  | 9.61  | 0.01            | 0.04  | 0.05  | ±0.20          |
| 13.5                  | 13.2  | 12.9  | 13.5                  | 13.2  | 12.9  | 0.00            | 0.00  | 0.00  | ±0.20          |
| 18.2                  | 17.8  | 17.4  | 18.2                  | 17.8  | 17.5  | 0.00            | 0.00  | 0.05  | ±0.20          |
| 24.6                  | 24.0  | 23.5  | 24.6                  | 24.0  | 23.6  | 0.00            | 0.00  | 0.04  | ±0.20          |
| 32.8                  | 32.0  | 31.3  | 33.0                  | 32.2  | 31.5  | 0.05            | 0.05  | 0.06  | ±0.20          |
| 44.3                  | 43.2  | 42.4  | 44.5                  | 43.4  | 42.6  | 0.04            | 0.04  | 0.04  | ±0.20          |
| 60.0                  | 58.5  | 57.3  | 60.4                  | 58.9  | 57.7  | 0.06            | 0.06  | 0.06  | ±0.20          |
| 82.6                  | 80.6  | 79.0  | 82.2                  | 80.3  | 78.6  | -0.04           | -0.03 | -0.04 | ±0.20          |
| 108                   | 106   | 103   | 108                   | 105   | 103   | 0.00            | -0.08 | 0.00  | ±0.20          |
| 149                   | 145   | 142   | 148                   | 144   | 142   | -0.06           | -0.06 | 0.00  | ±0.20          |
| 206                   | 202   | 198   | 206                   | 201   | 197   | 0.00            | -0.04 | -0.04 | ±0.20          |
| 286                   | 280   | 274   | 287                   | 275   | 275   | 0.03            | -0.16 | 0.03  | ±0.20          |
| 424                   | 414   | 406   | 417                   | 409   | 399   | -0.14           | -0.11 | -0.15 | ±0.20          |
| 587                   | 574   | 562   | 581                   | 570   | 556   | -0.09           | -0.06 | -0.09 | ±0.20          |
| 881                   | 860   | 843   | 880                   | 863   | 843   | -0.01           | 0.03  | 0.00  | ±0.20          |
| 1340                  | 1310  | 1280  | 1360                  | 1330  | 1300  | 0.13            | 0.13  | 0.13  | ±0.30          |
| 1830                  | 1790  | 1750  | 1870                  | 1840  | 1790  | 0.19            | 0.24  | 0.20  | ±0.30          |
| 3020                  | 2950  | 2890  | 3120                  | 3060  | 2990  | 0.28            | 0.32  | 0.30  | ±0.50          |
| 3670                  | 3580  | 3520  | 3810                  | 3740  | 3660  | 0.33            | 0.38  | 0.34  | ±0.50          |

### SPEAG H-field linearity tolerance criteria<sup>1</sup>:

- ±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

<sup>1</sup> 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     |                |
| 0.370                 | 0.370 | 0.360 | 0.400                 | 0.390 | 0.380 | 0.68            | 0.46  | 0.47  | ±1.00          |
| 0.500                 | 0.500 | 0.490 | 0.530                 | 0.510 | 0.520 | 0.51            | 0.17  | 0.52  | ±1.00          |
| 0.690                 | 0.690 | 0.680 | 0.690                 | 0.670 | 0.710 | 0.00            | -0.26 | 0.37  | ±1.00          |
| 0.900                 | 0.900 | 0.890 | 0.890                 | 0.890 | 0.880 | -0.10           | -0.10 | -0.10 | ±1.00          |
| 1.22                  | 1.21  | 1.20  | 1.22                  | 1.22  | 1.19  | 0.00            | 0.07  | -0.07 | ±1.00          |
| 1.67                  | 1.67  | 1.64  | 1.70                  | 1.66  | 1.65  | 0.15            | -0.05 | 0.05  | ±1.00          |
| 2.22                  | 2.22  | 2.19  | 2.27                  | 2.22  | 2.21  | 0.19            | 0.00  | 0.08  | ±0.20          |
| 2.97                  | 2.97  | 2.93  | 3.01                  | 2.97  | 2.94  | 0.12            | 0.00  | 0.03  | ±0.20          |
| 4.04                  | 4.03  | 3.98  | 4.09                  | 4.03  | 3.98  | 0.11            | 0.00  | 0.00  | ±0.20          |
| 5.46                  | 5.45  | 5.39  | 5.49                  | 5.46  | 5.37  | 0.05            | 0.02  | -0.03 | ±0.20          |
| 7.35                  | 7.34  | 7.24  | 7.38                  | 7.37  | 7.24  | 0.04            | 0.04  | 0.00  | ±0.20          |
| 9.81                  | 9.80  | 9.68  | 9.85                  | 9.87  | 9.68  | 0.04            | 0.06  | 0.00  | ±0.20          |
| 13.2                  | 13.2  | 13.1  | 13.3                  | 13.3  | 13.1  | 0.07            | 0.07  | 0.00  | ±0.20          |
| 17.9                  | 17.9  | 17.6  | 17.9                  | 17.9  | 17.7  | 0.00            | 0.00  | 0.05  | ±0.20          |
| 24.1                  | 24.1  | 23.8  | 24.2                  | 24.2  | 23.9  | 0.04            | 0.04  | 0.04  | ±0.20          |
| 32.2                  | 32.2  | 31.7  | 32.4                  | 32.4  | 31.9  | 0.05            | 0.05  | 0.05  | ±0.20          |
| 43.5                  | 43.5  | 42.9  | 43.8                  | 43.8  | 43.1  | 0.06            | 0.06  | 0.04  | ±0.20          |
| 58.9                  | 58.9  | 58.0  | 59.2                  | 59.3  | 58.4  | 0.04            | 0.06  | 0.06  | ±0.20          |
| 81.1                  | 81.1  | 79.9  | 80.7                  | 80.7  | 79.5  | -0.04           | -0.04 | -0.04 | ±0.20          |
| 106                   | 106   | 105   | 106                   | 106   | 104   | 0.00            | 0.00  | -0.08 | ±0.20          |
| 146                   | 146   | 144   | 145                   | 145   | 143   | -0.06           | -0.06 | -0.06 | ±0.20          |
| 203                   | 203   | 200   | 202                   | 202   | 199   | -0.04           | -0.04 | -0.04 | ±0.20          |
| 281                   | 281   | 277   | 282                   | 276   | 278   | 0.03            | -0.16 | 0.03  | ±0.20          |
| 416                   | 417   | 411   | 409                   | 411   | 404   | -0.15           | -0.13 | -0.15 | ±0.20          |
| 576                   | 577   | 569   | 570                   | 573   | 563   | -0.09           | -0.06 | -0.09 | ±0.20          |
| 865                   | 865   | 853   | 864                   | 868   | 852   | -0.01           | 0.03  | -0.01 | ±0.20          |
| 1310                  | 1320  | 1300  | 1330                  | 1340  | 1310  | 0.13            | 0.13  | 0.07  | ±0.30          |
| 1800                  | 1800  | 1780  | 1840                  | 1850  | 1820  | 0.19            | 0.24  | 0.19  | ±0.30          |
| 2960                  | 2960  | 2920  | 3060                  | 3070  | 3020  | 0.29            | 0.32  | 0.29  | ±0.40          |
| 3610                  | 3610  | 3560  | 3740                  | 3760  | 3700  | 0.31            | 0.35  | 0.34  | ±0.50          |

### SPEAG H-field linearity tolerance criteria<sup>1</sup>:

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

<sup>1</sup> Calibration 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     |                |
| 0.370                 | 0.360 | 0.360 | 0.400                 | 0.380 | 0.380 | 0.68            | 0.47  | 0.47  | ±1.00          |
| 0.500                 | 0.490 | 0.490 | 0.530                 | 0.520 | 0.500 | 0.51            | 0.52  | 0.18  | ±1.00          |
| 0.690                 | 0.680 | 0.670 | 0.680                 | 0.690 | 0.670 | -0.13           | 0.13  | 0.00  | ±1.00          |
| 0.900                 | 0.880 | 0.870 | 0.890                 | 0.870 | 0.880 | -0.10           | -0.10 | 0.10  | ±1.00          |
| 1.22                  | 1.20  | 1.18  | 1.23                  | 1.19  | 1.20  | 0.07            | -0.07 | 0.15  | ±1.00          |
| 1.67                  | 1.64  | 1.62  | 1.68                  | 1.66  | 1.63  | 0.05            | 0.11  | 0.05  | ±1.00          |
| 2.23                  | 2.19  | 2.16  | 2.25                  | 2.22  | 2.17  | 0.08            | 0.12  | 0.04  | ±0.20          |
| 2.98                  | 2.92  | 2.89  | 2.99                  | 2.94  | 2.90  | 0.03            | 0.06  | 0.03  | ±0.20          |
| 4.05                  | 3.97  | 3.93  | 4.06                  | 3.98  | 3.92  | 0.02            | 0.02  | -0.02 | ±0.20          |
| 5.47                  | 5.37  | 5.31  | 5.49                  | 5.39  | 5.30  | 0.03            | 0.03  | -0.02 | ±0.20          |
| 7.37                  | 7.24  | 7.15  | 7.38                  | 7.25  | 7.13  | 0.01            | 0.01  | -0.02 | ±0.20          |
| 9.84                  | 9.67  | 9.54  | 9.85                  | 9.68  | 9.53  | 0.01            | 0.01  | -0.01 | ±0.20          |
| 13.3                  | 13.1  | 12.9  | 13.3                  | 13.1  | 12.9  | 0.00            | 0.00  | 0.00  | ±0.20          |
| 17.9                  | 17.6  | 17.4  | 18.0                  | 17.6  | 17.4  | 0.05            | 0.00  | 0.00  | ±0.20          |
| 24.2                  | 23.8  | 23.4  | 24.3                  | 23.8  | 23.5  | 0.04            | 0.00  | 0.04  | ±0.20          |
| 32.2                  | 31.7  | 31.3  | 32.5                  | 31.9  | 31.5  | 0.08            | 0.05  | 0.06  | ±0.20          |
| 43.6                  | 42.9  | 42.3  | 43.8                  | 43.1  | 42.5  | 0.04            | 0.04  | 0.04  | ±0.20          |
| 59.0                  | 58.0  | 57.2  | 59.4                  | 58.5  | 57.7  | 0.06            | 0.07  | 0.08  | ±0.20          |
| 81.3                  | 80.0  | 78.8  | 80.9                  | 79.6  | 78.4  | -0.04           | -0.04 | -0.04 | ±0.20          |
| 106                   | 105   | 103   | 106                   | 104   | 103   | 0.00            | -0.08 | 0.00  | ±0.20          |
| 146                   | 144   | 142   | 146                   | 143   | 141   | 0.00            | -0.06 | -0.06 | ±0.20          |
| 203                   | 200   | 197   | 203                   | 199   | 196   | 0.00            | -0.04 | -0.04 | ±0.20          |
| 282                   | 277   | 273   | 283                   | 273   | 274   | 0.03            | -0.13 | 0.03  | ±0.20          |
| 417                   | 411   | 405   | 410                   | 405   | 398   | -0.15           | -0.13 | -0.15 | ±0.20          |
| 578                   | 569   | 561   | 571                   | 564   | 555   | -0.11           | -0.08 | -0.09 | ±0.20          |
| 867                   | 853   | 841   | 866                   | 854   | 840   | -0.01           | 0.01  | -0.01 | ±0.20          |
| 1320                  | 1300  | 1280  | 1330                  | 1320  | 1290  | 0.07            | 0.13  | 0.07  | ±0.30          |
| 1800                  | 1770  | 1750  | 1840                  | 1820  | 1790  | 0.19            | 0.24  | 0.20  | ±0.30          |
| 2970                  | 2920  | 2880  | 3070                  | 3010  | 2980  | 0.29            | 0.26  | 0.30  | ±0.40          |
| 3620                  | 3560  | 3520  | 3750                  | 3670  | 3650  | 0.31            | 0.26  | 0.32  | ±0.50          |

SPEAG H-field linearity tolerance criteria<sup>1</sup>:

- ±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

<sup>1</sup> 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     |                |
| 0.370                 | 0.370 | 0.360 | 0.400                 | 0.390 | 0.380 | 0.68            | 0.46  | 0.47  | ±1.00          |
| 0.510                 | 0.510 | 0.490 | 0.530                 | 0.530 | 0.510 | 0.33            | 0.33  | 0.35  | ±1.00          |
| 0.690                 | 0.690 | 0.680 | 0.700                 | 0.680 | 0.680 | 0.12            | -0.13 | 0.00  | ±1.00          |
| 0.900                 | 0.900 | 0.880 | 0.910                 | 0.900 | 0.890 | 0.10            | 0.00  | 0.10  | ±1.00          |
| 1.22                  | 1.22  | 1.19  | 1.24                  | 1.24  | 1.20  | 0.14            | 0.14  | 0.07  | ±1.00          |
| 1.68                  | 1.68  | 1.64  | 1.69                  | 1.69  | 1.64  | 0.05            | 0.05  | 0.00  | ±1.00          |
| 2.23                  | 2.24  | 2.18  | 2.24                  | 2.24  | 2.20  | 0.04            | 0.00  | 0.08  | ±0.20          |
| 2.99                  | 2.99  | 2.92  | 3.00                  | 2.99  | 2.94  | 0.03            | 0.00  | 0.06  | ±0.20          |
| 4.05                  | 4.06  | 3.96  | 4.07                  | 4.06  | 3.99  | 0.04            | 0.00  | 0.07  | ±0.20          |
| 5.48                  | 5.50  | 5.36  | 5.51                  | 5.51  | 5.37  | 0.05            | 0.02  | 0.02  | ±0.20          |
| 7.38                  | 7.40  | 7.21  | 7.41                  | 7.41  | 7.24  | 0.04            | 0.01  | 0.04  | ±0.20          |
| 9.86                  | 9.89  | 9.63  | 9.88                  | 9.89  | 9.64  | 0.02            | 0.00  | 0.01  | ±0.20          |
| 13.3                  | 13.3  | 13.0  | 13.3                  | 13.4  | 13.0  | 0.00            | 0.07  | 0.00  | ±0.20          |
| 17.9                  | 18.0  | 17.5  | 18.0                  | 18.0  | 17.6  | 0.05            | 0.00  | 0.05  | ±0.20          |
| 24.2                  | 24.3  | 23.7  | 24.3                  | 24.4  | 23.7  | 0.04            | 0.04  | 0.00  | ±0.20          |
| 32.3                  | 32.5  | 31.6  | 32.5                  | 32.6  | 31.8  | 0.05            | 0.03  | 0.05  | ±0.20          |
| 43.7                  | 43.9  | 42.7  | 44.0                  | 44.1  | 42.9  | 0.06            | 0.04  | 0.04  | ±0.20          |
| 59.2                  | 59.4  | 57.7  | 59.5                  | 59.8  | 58.2  | 0.04            | 0.06  | 0.07  | ±0.20          |
| 81.5                  | 81.8  | 79.6  | 81.0                  | 81.4  | 79.2  | -0.05           | -0.04 | -0.04 | ±0.20          |
| 107                   | 107   | 104   | 106                   | 107   | 104   | -0.08           | 0.00  | 0.00  | ±0.20          |
| 147                   | 147   | 143   | 146                   | 147   | 143   | -0.06           | 0.00  | 0.00  | ±0.20          |
| 204                   | 205   | 199   | 203                   | 204   | 198   | -0.04           | -0.04 | -0.04 | ±0.20          |
| 282                   | 284   | 276   | 283                   | 279   | 277   | 0.03            | -0.15 | 0.03  | ±0.20          |
| 418                   | 420   | 409   | 411                   | 415   | 402   | -0.15           | -0.10 | -0.15 | ±0.20          |
| 579                   | 582   | 566   | 572                   | 578   | 560   | -0.11           | -0.06 | -0.09 | ±0.20          |
| 869                   | 873   | 849   | 867                   | 876   | 849   | -0.02           | 0.03  | 0.00  | ±0.20          |
| 1320                  | 1330  | 1290  | 1340                  | 1350  | 1310  | 0.13            | 0.13  | 0.13  | ±0.30          |
| 1810                  | 1820  | 1770  | 1850                  | 1860  | 1810  | 0.19            | 0.19  | 0.19  | ±0.30          |
| 2980                  | 2990  | 2910  | 3080                  | 3100  | 3010  | 0.29            | 0.31  | 0.29  | ±0.40          |
| 3620                  | 3640  | 3550  | 3760                  | 3790  | 3680  | 0.33            | 0.35  | 0.31  | ±0.50          |

SPEAG H-field linearity tolerance criteria<sup>1</sup>:

- ±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

<sup>1</sup> 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     |                |
| 0.370                 | 0.370 | 0.370 | 0.380                 | 0.400 | 0.380 | 0.23            | 0.68  | 0.23  | ±1.00          |
| 0.510                 | 0.510 | 0.510 | 0.520                 | 0.520 | 0.520 | 0.17            | 0.17  | 0.17  | ±1.00          |
| 0.700                 | 0.700 | 0.700 | 0.680                 | 0.710 | 0.710 | -0.25           | 0.12  | 0.12  | ±1.00          |
| 0.910                 | 0.910 | 0.910 | 0.900                 | 0.910 | 0.920 | -0.10           | 0.00  | 0.09  | ±1.00          |
| 1.23                  | 1.23  | 1.23  | 1.23                  | 1.24  | 1.24  | 0.00            | 0.07  | 0.07  | ±1.00          |
| 1.68                  | 1.69  | 1.69  | 1.68                  | 1.70  | 1.69  | 0.00            | 0.05  | 0.00  | ±1.00          |
| 2.24                  | 2.25  | 2.25  | 2.25                  | 2.28  | 2.26  | 0.04            | 0.12  | 0.04  | ±0.20          |
| 3.00                  | 3.01  | 3.01  | 3.01                  | 3.04  | 3.01  | 0.03            | 0.09  | 0.00  | ±0.20          |
| 4.07                  | 4.09  | 4.08  | 4.10                  | 4.13  | 4.08  | 0.06            | 0.08  | 0.00  | ±0.20          |
| 5.51                  | 5.53  | 5.52  | 5.54                  | 5.58  | 5.53  | 0.05            | 0.08  | 0.02  | ±0.20          |
| 7.41                  | 7.45  | 7.43  | 7.45                  | 7.48  | 7.48  | 0.05            | 0.03  | 0.06  | ±0.20          |
| 9.90                  | 9.95  | 9.92  | 9.94                  | 9.98  | 9.98  | 0.04            | 0.03  | 0.05  | ±0.20          |
| 13.4                  | 13.4  | 13.4  | 13.4                  | 13.5  | 13.5  | 0.00            | 0.06  | 0.06  | ±0.20          |
| 18.0                  | 18.1  | 18.1  | 18.1                  | 18.2  | 18.1  | 0.05            | 0.05  | 0.00  | ±0.20          |
| 24.4                  | 24.5  | 24.4  | 24.4                  | 24.6  | 24.5  | 0.00            | 0.04  | 0.04  | ±0.20          |
| 32.5                  | 32.7  | 32.5  | 32.7                  | 32.9  | 32.8  | 0.05            | 0.05  | 0.08  | ±0.20          |
| 43.8                  | 44.1  | 44.0  | 44.1                  | 44.4  | 44.2  | 0.06            | 0.06  | 0.04  | ±0.20          |
| 59.4                  | 59.8  | 59.5  | 59.8                  | 60.2  | 59.9  | 0.06            | 0.06  | 0.06  | ±0.20          |
| 81.8                  | 82.3  | 81.9  | 81.4                  | 81.9  | 81.5  | -0.04           | -0.04 | -0.04 | ±0.20          |
| 107                   | 108   | 107   | 107                   | 107   | 107   | 0.00            | -0.08 | 0.00  | ±0.20          |
| 147                   | 148   | 148   | 147                   | 148   | 147   | 0.00            | 0.00  | -0.06 | ±0.20          |
| 205                   | 206   | 205   | 204                   | 205   | 204   | -0.04           | -0.04 | -0.04 | ±0.20          |
| 283                   | 286   | 284   | 285                   | 281   | 285   | 0.06            | -0.15 | 0.03  | ±0.20          |
| 420                   | 423   | 421   | 413                   | 418   | 414   | -0.15           | -0.10 | -0.15 | ±0.20          |
| 582                   | 586   | 583   | 575                   | 581   | 577   | -0.11           | -0.07 | -0.09 | ±0.20          |
| 872                   | 878   | 874   | 872                   | 881   | 874   | 0.00            | 0.03  | 0.00  | ±0.20          |
| 1330                  | 1340  | 1330  | 1340                  | 1360  | 1350  | 0.07            | 0.13  | 0.13  | ±0.30          |
| 1810                  | 1830  | 1820  | 1860                  | 1880  | 1860  | 0.24            | 0.23  | 0.19  | ±0.30          |
| 2990                  | 3010  | 3000  | 3090                  | 3120  | 3100  | 0.29            | 0.31  | 0.28  | ±0.50          |
| 3640                  | 3660  | 3650  | 3780                  | 3810  | 3790  | 0.33            | 0.35  | 0.33  | ±0.50          |

### SPEAG H-field linearity tolerance criteria<sup>1</sup>:

- ±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

<sup>1</sup> Calibration 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     |                |
| 0.380                 | 0.370 | 0.370 | 0.390                 | 0.390 | 0.380 | 0.23            | 0.46  | 0.23  | ±1.00          |
| 0.520                 | 0.510 | 0.500 | 0.530                 | 0.530 | 0.510 | 0.17            | 0.33  | 0.17  | ±1.00          |
| 0.710                 | 0.700 | 0.680 | 0.710                 | 0.720 | 0.680 | 0.00            | 0.24  | 0.00  | ±1.00          |
| 0.920                 | 0.910 | 0.890 | 0.900                 | 0.930 | 0.890 | -0.19           | 0.19  | 0.00  | ±1.00          |
| 1.25                  | 1.23  | 1.21  | 1.24                  | 1.25  | 1.21  | -0.07           | 0.14  | 0.00  | ±1.00          |
| 1.72                  | 1.69  | 1.66  | 1.72                  | 1.73  | 1.66  | 0.00            | 0.20  | 0.00  | ±1.00          |
| 2.29                  | 2.25  | 2.21  | 2.29                  | 2.28  | 2.23  | 0.00            | 0.12  | 0.08  | ±0.20          |
| 3.06                  | 3.01  | 2.96  | 3.06                  | 3.05  | 2.97  | 0.00            | 0.11  | 0.03  | ±0.20          |
| 4.15                  | 4.08  | 4.01  | 4.14                  | 4.11  | 4.03  | -0.02           | 0.06  | 0.04  | ±0.20          |
| 5.61                  | 5.53  | 5.43  | 5.61                  | 5.57  | 5.45  | 0.00            | 0.06  | 0.03  | ±0.20          |
| 7.56                  | 7.44  | 7.30  | 7.55                  | 7.47  | 7.33  | -0.01           | 0.03  | 0.04  | ±0.20          |
| 10.1                  | 9.94  | 9.76  | 10.1                  | 9.99  | 9.76  | 0.00            | 0.04  | 0.00  | ±0.20          |
| 13.6                  | 13.4  | 13.2  | 13.6                  | 13.5  | 13.2  | 0.00            | 0.06  | 0.00  | ±0.20          |
| 18.4                  | 18.1  | 17.8  | 18.4                  | 18.1  | 17.8  | 0.00            | 0.00  | 0.00  | ±0.20          |
| 24.8                  | 24.4  | 24.0  | 24.9                  | 24.5  | 24.1  | 0.03            | 0.04  | 0.04  | ±0.20          |
| 33.1                  | 32.6  | 32.0  | 33.3                  | 32.8  | 32.2  | 0.05            | 0.05  | 0.05  | ±0.20          |
| 44.7                  | 44.1  | 43.2  | 45.0                  | 44.4  | 43.5  | 0.06            | 0.06  | 0.06  | ±0.20          |
| 60.6                  | 59.7  | 58.5  | 61.0                  | 60.1  | 58.9  | 0.06            | 0.06  | 0.06  | ±0.20          |
| 83.4                  | 82.2  | 80.6  | 83.0                  | 81.8  | 80.2  | -0.04           | -0.04 | -0.04 | ±0.20          |
| 109                   | 108   | 105   | 109                   | 107   | 105   | 0.00            | -0.08 | 0.00  | ±0.20          |
| 150                   | 148   | 145   | 150                   | 147   | 144   | 0.00            | -0.06 | -0.06 | ±0.20          |
| 209                   | 206   | 202   | 208                   | 205   | 201   | -0.04           | -0.04 | -0.04 | ±0.20          |
| 289                   | 285   | 279   | 290                   | 280   | 280   | 0.03            | -0.15 | 0.03  | ±0.20          |
| 428                   | 423   | 414   | 421                   | 417   | 407   | -0.14           | -0.12 | -0.15 | ±0.20          |
| 593                   | 585   | 574   | 586                   | 581   | 567   | -0.10           | -0.06 | -0.11 | ±0.20          |
| 890                   | 877   | 860   | 888                   | 880   | 859   | -0.02           | 0.03  | -0.01 | ±0.20          |
| 1350                  | 1330  | 1310  | 1370                  | 1360  | 1320  | 0.13            | 0.19  | 0.07  | ±0.30          |
| 1850                  | 1830  | 1790  | 1890                  | 1870  | 1830  | 0.19            | 0.19  | 0.19  | ±0.30          |
| 3050                  | 3010  | 2950  | 3150                  | 3120  | 3050  | 0.28            | 0.31  | 0.29  | ±0.50          |
| 3710                  | 3660  | 3590  | 3850                  | 3810  | 3730  | 0.32            | 0.35  | 0.33  | ±0.50          |

### SPEAG H-field linearity tolerance criteria<sup>1</sup>:

- ±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

<sup>1</sup> Calibration 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     |                |
| 0.380                 | 0.370 | 0.360 | 0.380                 | 0.380 | 0.370 | 0.00            | 0.23  | 0.24  | ±1.00          |
| 0.510                 | 0.500 | 0.480 | 0.520                 | 0.490 | 0.510 | 0.17            | -0.18 | 0.53  | ±1.00          |
| 0.700                 | 0.690 | 0.660 | 0.720                 | 0.660 | 0.670 | 0.24            | -0.39 | 0.13  | ±1.00          |
| 0.910                 | 0.900 | 0.870 | 0.940                 | 0.890 | 0.870 | 0.28            | -0.10 | 0.00  | ±1.00          |
| 1.24                  | 1.22  | 1.17  | 1.25                  | 1.23  | 1.17  | 0.07            | 0.07  | 0.00  | ±1.00          |
| 1.70                  | 1.67  | 1.61  | 1.69                  | 1.70  | 1.61  | -0.05           | 0.15  | 0.00  | ±1.00          |
| 2.26                  | 2.23  | 2.14  | 2.26                  | 2.25  | 2.15  | 0.00            | 0.08  | 0.04  | ±0.20          |
| 3.02                  | 2.98  | 2.87  | 3.04                  | 2.99  | 2.86  | 0.06            | 0.03  | -0.03 | ±0.20          |
| 4.10                  | 4.04  | 3.89  | 4.11                  | 4.06  | 3.88  | 0.02            | 0.04  | -0.02 | ±0.20          |
| 5.54                  | 5.47  | 5.26  | 5.58                  | 5.50  | 5.26  | 0.06            | 0.05  | 0.00  | ±0.20          |
| 7.46                  | 7.37  | 7.08  | 7.49                  | 7.38  | 7.09  | 0.03            | 0.01  | 0.01  | ±0.20          |
| 9.97                  | 9.85  | 9.46  | 9.98                  | 9.86  | 9.46  | 0.01            | 0.01  | 0.00  | ±0.20          |
| 13.5                  | 13.3  | 12.8  | 13.5                  | 13.3  | 12.8  | 0.00            | 0.00  | 0.00  | ±0.20          |
| 18.1                  | 17.9  | 17.2  | 18.2                  | 17.9  | 17.2  | 0.05            | 0.00  | 0.00  | ±0.20          |
| 24.5                  | 24.2  | 23.2  | 24.6                  | 24.2  | 23.3  | 0.04            | 0.00  | 0.04  | ±0.20          |
| 32.7                  | 32.3  | 31.0  | 32.9                  | 32.5  | 31.2  | 0.05            | 0.05  | 0.06  | ±0.20          |
| 44.1                  | 43.7  | 41.9  | 44.4                  | 43.9  | 42.1  | 0.06            | 0.04  | 0.04  | ±0.20          |
| 59.9                  | 59.1  | 56.7  | 60.2                  | 59.5  | 57.1  | 0.04            | 0.06  | 0.06  | ±0.20          |
| 82.4                  | 81.5  | 78.1  | 82.0                  | 81.1  | 77.8  | -0.04           | -0.04 | -0.03 | ±0.20          |
| 108                   | 107   | 102   | 107                   | 106   | 102   | -0.08           | -0.08 | 0.00  | ±0.20          |
| 148                   | 147   | 141   | 148                   | 146   | 140   | 0.00            | -0.06 | -0.06 | ±0.20          |
| 206                   | 204   | 195   | 205                   | 203   | 194   | -0.04           | -0.04 | -0.04 | ±0.20          |
| 285                   | 282   | 271   | 286                   | 278   | 272   | 0.03            | -0.12 | 0.03  | ±0.20          |
| 423                   | 419   | 402   | 416                   | 414   | 395   | -0.14           | -0.10 | -0.15 | ±0.20          |
| 586                   | 580   | 556   | 579                   | 576   | 550   | -0.10           | -0.06 | -0.09 | ±0.20          |
| 878                   | 869   | 834   | 877                   | 874   | 833   | -0.01           | 0.05  | -0.01 | ±0.20          |
| 1340                  | 1320  | 1270  | 1350                  | 1350  | 1280  | 0.06            | 0.20  | 0.07  | ±0.30          |
| 1830                  | 1810  | 1740  | 1870                  | 1860  | 1770  | 0.19            | 0.24  | 0.15  | ±0.30          |
| 3010                  | 2980  | 2860  | 3110                  | 3100  | 2950  | 0.28            | 0.34  | 0.27  | ±0.50          |
| 3660                  | 3620  | 3480  | 3800                  | 3780  | 3620  | 0.33            | 0.38  | 0.34  | ±0.50          |

### SPEAG H-field linearity tolerance criteria<sup>1</sup>:

- ±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

<sup>1</sup> 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     |
| 0.320                 | 0.200 | 0.070 | 0.330                 | 0.210 | 0.060 | 0.27            | 0.42  | -1.34 | ±5.00          | ±5.00 | ±5.00 |
| 0.440                 | 0.270 | 0.090 | 0.460                 | 0.260 | 0.110 | 0.39            | -0.33 | 1.74  | ±5.00          | ±5.00 | ±5.00 |
| 0.600                 | 0.380 | 0.130 | 0.620                 | 0.380 | 0.140 | 0.28            | 0.00  | 0.64  | ±5.00          | ±5.00 | ±5.00 |
| 0.790                 | 0.490 | 0.170 | 0.800                 | 0.500 | 0.180 | 0.11            | 0.18  | 0.50  | ±5.00          | ±5.00 | ±5.00 |
| 1.07                  | 0.660 | 0.220 | 1.10                  | 0.660 | 0.240 | 0.24            | 0.00  | 0.76  | ±5.00          | ±5.00 | ±5.00 |
| 1.46                  | 0.910 | 0.310 | 1.48                  | 0.910 | 0.290 | 0.12            | 0.00  | -0.58 | ±5.00          | ±5.00 | ±5.00 |
| 1.95                  | 1.21  | 0.410 | 1.98                  | 1.22  | 0.380 | 0.13            | 0.07  | -0.66 | ±5.00          | ±5.00 | ±5.00 |
| 2.61                  | 1.62  | 0.550 | 2.63                  | 1.62  | 0.550 | 0.07            | 0.00  | 0.00  | ±1.00          | ±5.00 | ±5.00 |
| 3.54                  | 2.20  | 0.740 | 3.57                  | 2.19  | 0.760 | 0.07            | -0.04 | 0.23  | ±1.00          | ±1.00 | ±5.00 |
| 4.79                  | 2.98  | 1.00  | 4.82                  | 2.99  | 0.990 | 0.05            | 0.03  | -0.09 | ±1.00          | ±1.00 | ±5.00 |
| 6.45                  | 4.01  | 1.35  | 6.50                  | 4.01  | 1.32  | 0.07            | 0.00  | -0.20 | ±1.00          | ±1.00 | ±5.00 |
| 8.62                  | 5.36  | 1.81  | 8.69                  | 5.36  | 1.75  | 0.07            | 0.00  | -0.29 | ±1.00          | ±1.00 | ±5.00 |
| 11.6                  | 7.23  | 2.44  | 11.7                  | 7.22  | 2.37  | 0.07            | -0.01 | -0.25 | ±1.00          | ±1.00 | ±1.00 |
| 15.7                  | 9.76  | 3.29  | 15.8                  | 9.74  | 3.19  | 0.06            | -0.02 | -0.27 | ±1.00          | ±1.00 | ±1.00 |
| 21.2                  | 13.2  | 4.44  | 21.3                  | 13.1  | 4.32  | 0.04            | -0.07 | -0.24 | ±1.00          | ±1.00 | ±1.00 |
| 28.3                  | 17.6  | 5.92  | 28.6                  | 17.6  | 5.80  | 0.09            | 0.00  | -0.18 | ±1.00          | ±1.00 | ±1.00 |
| 38.2                  | 23.8  | 8.00  | 38.5                  | 23.8  | 7.83  | 0.07            | 0.00  | -0.19 | ±1.00          | ±1.00 | ±1.00 |
| 51.7                  | 32.2  | 10.8  | 52.3                  | 32.3  | 10.6  | 0.10            | 0.03  | -0.16 | ±1.00          | ±1.00 | ±1.00 |
| 71.3                  | 44.3  | 14.9  | 71.3                  | 44.0  | 14.5  | 0.00            | -0.06 | -0.24 | ±1.00          | ±1.00 | ±1.00 |
| 93.3                  | 58.0  | 19.5  | 93.3                  | 57.6  | 18.9  | 0.00            | -0.06 | -0.27 | ±1.00          | ±1.00 | ±1.00 |
| 128                   | 79.8  | 26.9  | 128                   | 79.2  | 26.1  | 0.00            | -0.07 | -0.26 | ±1.00          | ±1.00 | ±1.00 |
| 178                   | 111   | 37.3  | 178                   | 110   | 36.3  | 0.00            | -0.08 | -0.24 | ±1.00          | ±1.00 | ±1.00 |
| 247                   | 154   | 51.7  | 249                   | 154   | 50.6  | 0.07            | 0.00  | -0.19 | ±1.00          | ±1.00 | ±1.00 |
| 366                   | 228   | 76.7  | 353                   | 217   | 75.4  | -0.31           | -0.43 | -0.15 | ±1.00          | ±1.00 | ±1.00 |
| 507                   | 315   | 106   | 492                   | 303   | 105   | -0.26           | -0.34 | -0.08 | ±1.00          | ±1.00 | ±1.00 |
| 760                   | 473   | 159   | 746                   | 460   | 159   | -0.16           | -0.24 | 0.00  | ±1.00          | ±1.00 | ±1.00 |
| 1160                  | 719   | 242   | 1150                  | 709   | 246   | -0.08           | -0.12 | 0.14  | ±1.00          | ±1.00 | ±1.00 |
| 1580                  | 983   | 331   | 1590                  | 979   | 340   | 0.05            | -0.04 | 0.23  | ±1.00          | ±1.00 | ±1.00 |
| 2600                  | 1620  | 545   | 2650                  | 1630  | 538   | 0.17            | 0.05  | -0.11 | ±1.00          | ±1.00 | ±1.00 |
| 3170                  | 1970  | 664   | 3240                  | 1990  | 660   | 0.19            | 0.09  | -0.05 | ±1.00          | ±1.00 | ±1.00 |

SPEAG E-field linearity tolerance criteria<sup>1</sup>:

±5.0dB for applied E-field < 2V/m

±1.0dB for applied E-field ≥ 2V/m

<sup>1</sup> 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     | 1.54                  | 1.54 | 1.54 | 1.55                  | 1.55 | 1.54 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 3200     | 1.54                  | 1.54 | 1.54 | 1.55                  | 1.55 | 1.54 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 4000     | 1.53                  | 1.53 | 1.53 | 1.54                  | 1.54 | 1.53 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 5200     | 1.52                  | 1.52 | 1.52 | 1.53                  | 1.53 | 1.51 | 0.06            | 0.06  | -0.06 | ±0.3           |
| 6600     | 1.51                  | 1.51 | 1.51 | 1.51                  | 1.51 | 1.51 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 8200     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.49 | 0.00            | 0.00  | -0.06 | ±0.3           |
| 9000     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.49 | 0.00            | 0.00  | -0.06 | ±0.3           |
| 10600    | 4.34                  | 4.32 | 4.31 | 4.33                  | 4.30 | 4.29 | -0.02           | -0.04 | -0.04 | ±0.3           |
| 13400    | 4.36                  | 4.33 | 4.32 | 4.36                  | 4.33 | 4.31 | 0.00            | 0.00  | -0.02 | ±0.3           |
| 17000    | 4.36                  | 4.32 | 4.31 | 4.37                  | 4.34 | 4.31 | 0.02            | 0.04  | 0.00  | ±0.3           |
| 21400    | 4.38                  | 4.34 | 4.33 | 4.38                  | 4.37 | 4.34 | 0.00            | 0.06  | 0.02  | ±0.3           |
| 27200    | 4.38                  | 4.34 | 4.33 | 4.38                  | 4.34 | 4.33 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 34400    | 4.38                  | 4.35 | 4.34 | 4.39                  | 4.36 | 4.34 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 40000    | 4.37                  | 4.34 | 4.33 | 4.38                  | 4.35 | 4.33 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 43600    | 4.36                  | 4.33 | 4.33 | 4.37                  | 4.34 | 4.34 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 55400    | 4.35                  | 4.32 | 4.32 | 4.36                  | 4.33 | 4.33 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 70000    | 4.34                  | 4.31 | 4.31 | 4.36                  | 4.32 | 4.30 | 0.04            | 0.02  | -0.02 | ±0.3           |
| 88800    | 4.33                  | 4.30 | 4.29 | 4.33                  | 4.31 | 4.30 | 0.00            | 0.02  | 0.02  | ±0.3           |
| 112400   | 4.31                  | 4.29 | 4.28 | 4.32                  | 4.29 | 4.29 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 142400   | 4.30                  | 4.27 | 4.27 | 4.31                  | 4.27 | 4.28 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 161750   | 4.28                  | 4.25 | 4.25 | 4.29                  | 4.25 | 4.25 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 180400   | 4.27                  | 4.24 | 4.24 | 4.28                  | 4.26 | 4.24 | 0.02            | 0.04  | 0.00  | ±0.3           |
| 228400   | 4.24                  | 4.21 | 4.20 | 4.25                  | 4.21 | 4.21 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 289400   | 4.20                  | 4.17 | 4.17 | 4.21                  | 4.18 | 4.17 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 366400   | 4.16                  | 4.14 | 4.13 | 4.17                  | 4.15 | 4.14 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 400000   | 4.14                  | 4.12 | 4.12 | 4.15                  | 4.13 | 4.12 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 464000   | 4.11                  | 4.09 | 4.09 | 4.13                  | 4.10 | 4.09 | 0.04            | 0.02  | 0.00  | ±0.3           |
| 587800   | 4.07                  | 4.05 | 4.04 | 4.08                  | 4.06 | 4.05 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 744200   | 4.02                  | 4.00 | 4.00 | 4.03                  | 4.01 | 4.00 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 942600   | 4.00                  | 3.99 | 3.99 | 4.01                  | 4.00 | 3.99 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 1193600  | 3.98                  | 3.97 | 3.96 | 4.00                  | 3.98 | 3.97 | 0.04            | 0.02  | 0.02  | ±0.3           |
| 1511600  | 3.98                  | 3.96 | 3.96 | 3.99                  | 3.96 | 3.96 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 1914400  | 3.96                  | 3.95 | 3.94 | 3.97                  | 3.96 | 3.94 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 2424400  | 3.95                  | 3.93 | 3.93 | 3.95                  | 3.93 | 3.93 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 3070200  | 3.92                  | 3.90 | 3.90 | 3.92                  | 3.91 | 3.90 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 3888000  | 3.86                  | 3.85 | 3.84 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 4000000  | 3.86                  | 3.84 | 3.83 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 4923800  | 3.79                  | 3.78 | 3.77 | 3.80                  | 3.78 | 3.77 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 6235400  | 3.69                  | 3.67 | 3.67 | 3.69                  | 3.67 | 3.68 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 7896400  | 3.54                  | 3.53 | 3.52 | 3.55                  | 3.53 | 3.53 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 10000000 | 3.40                  | 3.38 | 3.38 | 3.41                  | 3.40 | 3.38 | 0.03            | 0.05  | 0.00  | ±0.3           |

SPEAG H-field frequency response tolerance criteria<sup>1</sup>:

±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

<sup>1</sup> 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     | 1.54                  | 1.54 | 1.54 | 1.55                  | 1.55 | 1.55 | 0.06            | 0.06  | 0.06  | ±0.3           |
| 3200     | 1.54                  | 1.54 | 1.54 | 1.56                  | 1.55 | 1.54 | 0.11            | 0.06  | 0.00  | ±0.3           |
| 4000     | 1.53                  | 1.53 | 1.53 | 1.53                  | 1.53 | 1.54 | 0.00            | 0.00  | 0.06  | ±0.3           |
| 5200     | 1.52                  | 1.52 | 1.52 | 1.53                  | 1.53 | 1.52 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 6600     | 1.51                  | 1.51 | 1.51 | 1.51                  | 1.51 | 1.51 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 8200     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 9000     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 10600    | 4.34                  | 4.32 | 4.31 | 4.32                  | 4.33 | 4.30 | -0.04           | 0.02  | -0.02 | ±0.3           |
| 13400    | 4.36                  | 4.33 | 4.32 | 4.37                  | 4.33 | 4.31 | 0.02            | 0.00  | -0.02 | ±0.3           |
| 17000    | 4.36                  | 4.32 | 4.31 | 4.37                  | 4.33 | 4.32 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 21400    | 4.38                  | 4.34 | 4.33 | 4.40                  | 4.35 | 4.36 | 0.04            | 0.02  | 0.06  | ±0.3           |
| 27200    | 4.38                  | 4.34 | 4.33 | 4.39                  | 4.34 | 4.33 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 34400    | 4.38                  | 4.35 | 4.34 | 4.38                  | 4.36 | 4.34 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 40000    | 4.37                  | 4.34 | 4.33 | 4.38                  | 4.35 | 4.34 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 43600    | 4.36                  | 4.33 | 4.33 | 4.36                  | 4.35 | 4.33 | 0.00            | 0.04  | 0.00  | ±0.3           |
| 55400    | 4.35                  | 4.32 | 4.32 | 4.36                  | 4.33 | 4.33 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 70000    | 4.34                  | 4.31 | 4.31 | 4.35                  | 4.32 | 4.31 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 88800    | 4.33                  | 4.30 | 4.29 | 4.33                  | 4.30 | 4.30 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 112400   | 4.31                  | 4.29 | 4.28 | 4.34                  | 4.29 | 4.29 | 0.06            | 0.00  | 0.02  | ±0.3           |
| 142400   | 4.30                  | 4.27 | 4.27 | 4.30                  | 4.28 | 4.27 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 161750   | 4.28                  | 4.25 | 4.25 | 4.29                  | 4.27 | 4.25 | 0.02            | 0.04  | 0.00  | ±0.3           |
| 180400   | 4.27                  | 4.24 | 4.24 | 4.27                  | 4.25 | 4.24 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 228400   | 4.24                  | 4.21 | 4.20 | 4.25                  | 4.21 | 4.21 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 289400   | 4.20                  | 4.17 | 4.17 | 4.20                  | 4.18 | 4.18 | 0.00            | 0.02  | 0.02  | ±0.3           |
| 366400   | 4.16                  | 4.14 | 4.13 | 4.17                  | 4.15 | 4.14 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 400000   | 4.14                  | 4.12 | 4.12 | 4.15                  | 4.13 | 4.12 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 464000   | 4.11                  | 4.09 | 4.09 | 4.13                  | 4.10 | 4.09 | 0.04            | 0.02  | 0.00  | ±0.3           |
| 587800   | 4.07                  | 4.05 | 4.04 | 4.08                  | 4.05 | 4.05 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 744200   | 4.02                  | 4.00 | 4.00 | 4.03                  | 4.01 | 4.00 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 942600   | 4.00                  | 3.99 | 3.99 | 4.01                  | 4.00 | 3.99 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 1193600  | 3.98                  | 3.97 | 3.96 | 3.99                  | 3.98 | 3.97 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 1511600  | 3.98                  | 3.96 | 3.96 | 3.98                  | 3.96 | 3.96 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 1914400  | 3.96                  | 3.95 | 3.94 | 3.97                  | 3.94 | 3.95 | 0.02            | -0.02 | 0.02  | ±0.3           |
| 2424400  | 3.95                  | 3.93 | 3.93 | 3.95                  | 3.94 | 3.93 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 3070200  | 3.92                  | 3.90 | 3.90 | 3.92                  | 3.91 | 3.90 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 3888000  | 3.86                  | 3.85 | 3.84 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 4000000  | 3.86                  | 3.84 | 3.83 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 4923800  | 3.79                  | 3.78 | 3.77 | 3.80                  | 3.78 | 3.78 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 6235400  | 3.69                  | 3.67 | 3.67 | 3.69                  | 3.67 | 3.67 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 7896400  | 3.54                  | 3.53 | 3.52 | 3.55                  | 3.53 | 3.54 | 0.02            | 0.00  | 0.05  | ±0.3           |
| 10000000 | 3.40                  | 3.38 | 3.38 | 3.40                  | 3.38 | 3.39 | 0.00            | 0.00  | 0.03  | ±0.3           |

SPEAG H-field frequency response tolerance criteria<sup>1</sup>:  
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

<sup>1</sup> 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     | 1.54                  | 1.54 | 1.54 | 1.54                  | 1.55 | 1.55 | 0.00            | 0.06  | 0.06  | ±0.3           |
| 3200     | 1.54                  | 1.54 | 1.54 | 1.56                  | 1.55 | 1.55 | 0.11            | 0.06  | 0.06  | ±0.3           |
| 4000     | 1.53                  | 1.53 | 1.53 | 1.54                  | 1.54 | 1.53 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 5200     | 1.52                  | 1.52 | 1.52 | 1.53                  | 1.53 | 1.52 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 6600     | 1.51                  | 1.51 | 1.51 | 1.51                  | 1.51 | 1.51 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 8200     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 9000     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 10600    | 4.34                  | 4.32 | 4.31 | 4.34                  | 4.30 | 4.31 | 0.00            | -0.04 | 0.00  | ±0.3           |
| 13400    | 4.36                  | 4.33 | 4.32 | 4.38                  | 4.34 | 4.30 | 0.04            | 0.02  | -0.04 | ±0.3           |
| 17000    | 4.36                  | 4.32 | 4.31 | 4.37                  | 4.32 | 4.32 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 21400    | 4.38                  | 4.34 | 4.33 | 4.38                  | 4.35 | 4.33 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 27200    | 4.38                  | 4.34 | 4.33 | 4.39                  | 4.35 | 4.32 | 0.02            | 0.02  | -0.02 | ±0.3           |
| 34400    | 4.38                  | 4.35 | 4.34 | 4.38                  | 4.36 | 4.34 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 40000    | 4.37                  | 4.34 | 4.33 | 4.38                  | 4.35 | 4.33 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 43600    | 4.36                  | 4.33 | 4.33 | 4.38                  | 4.35 | 4.33 | 0.04            | 0.04  | 0.00  | ±0.3           |
| 55400    | 4.35                  | 4.32 | 4.32 | 4.36                  | 4.33 | 4.32 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 70000    | 4.34                  | 4.31 | 4.31 | 4.34                  | 4.31 | 4.32 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 88800    | 4.33                  | 4.30 | 4.29 | 4.34                  | 4.31 | 4.30 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 112400   | 4.31                  | 4.29 | 4.28 | 4.32                  | 4.30 | 4.29 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 142400   | 4.30                  | 4.27 | 4.27 | 4.30                  | 4.29 | 4.27 | 0.00            | 0.04  | 0.00  | ±0.3           |
| 161750   | 4.28                  | 4.25 | 4.25 | 4.29                  | 4.27 | 4.25 | 0.02            | 0.04  | 0.00  | ±0.3           |
| 180400   | 4.27                  | 4.24 | 4.24 | 4.27                  | 4.24 | 4.24 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 228400   | 4.24                  | 4.21 | 4.20 | 4.26                  | 4.22 | 4.21 | 0.04            | 0.02  | 0.02  | ±0.3           |
| 289400   | 4.20                  | 4.17 | 4.17 | 4.21                  | 4.18 | 4.17 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 366400   | 4.16                  | 4.14 | 4.13 | 4.17                  | 4.15 | 4.14 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 400000   | 4.14                  | 4.12 | 4.12 | 4.15                  | 4.13 | 4.12 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 464000   | 4.11                  | 4.09 | 4.09 | 4.12                  | 4.10 | 4.09 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 587800   | 4.07                  | 4.05 | 4.04 | 4.08                  | 4.06 | 4.05 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 744200   | 4.02                  | 4.00 | 4.00 | 4.03                  | 4.01 | 4.00 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 942600   | 4.00                  | 3.99 | 3.99 | 4.02                  | 4.00 | 3.99 | 0.04            | 0.02  | 0.00  | ±0.3           |
| 1193600  | 3.98                  | 3.97 | 3.96 | 3.99                  | 3.98 | 3.97 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 1511600  | 3.98                  | 3.96 | 3.96 | 3.99                  | 3.97 | 3.96 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 1914400  | 3.96                  | 3.95 | 3.94 | 3.97                  | 3.95 | 3.94 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 2424400  | 3.95                  | 3.93 | 3.93 | 3.96                  | 3.94 | 3.94 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 3070200  | 3.92                  | 3.90 | 3.90 | 3.93                  | 3.91 | 3.90 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 3888000  | 3.86                  | 3.85 | 3.84 | 3.87                  | 3.86 | 3.85 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 4000000  | 3.86                  | 3.84 | 3.83 | 3.85                  | 3.84 | 3.84 | -0.02           | 0.00  | 0.02  | ±0.3           |
| 4923800  | 3.79                  | 3.78 | 3.77 | 3.80                  | 3.78 | 3.77 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 6235400  | 3.69                  | 3.67 | 3.67 | 3.69                  | 3.68 | 3.67 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 7896400  | 3.54                  | 3.53 | 3.52 | 3.55                  | 3.53 | 3.52 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 10000000 | 3.40                  | 3.38 | 3.38 | 3.40                  | 3.37 | 3.39 | 0.00            | -0.03 | 0.03  | ±0.3           |

SPEAG H-field frequency response tolerance criteria<sup>1</sup>:  
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

<sup>1</sup> 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     | 1.54                  | 1.54 | 1.54 | 1.55                  | 1.55 | 1.55 | 0.06            | 0.06  | 0.06  | ±0.3           |
| 3200     | 1.54                  | 1.54 | 1.54 | 1.55                  | 1.56 | 1.54 | 0.06            | 0.11  | 0.00  | ±0.3           |
| 4000     | 1.53                  | 1.53 | 1.53 | 1.54                  | 1.54 | 1.53 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 5200     | 1.52                  | 1.52 | 1.52 | 1.53                  | 1.53 | 1.52 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 6600     | 1.51                  | 1.51 | 1.51 | 1.51                  | 1.51 | 1.52 | 0.00            | 0.00  | 0.06  | ±0.3           |
| 8200     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.49 | 1.50 | 0.00            | -0.06 | 0.00  | ±0.3           |
| 9000     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 10600    | 4.34                  | 4.32 | 4.31 | 4.36                  | 4.30 | 4.31 | 0.04            | -0.04 | 0.00  | ±0.3           |
| 13400    | 4.36                  | 4.33 | 4.32 | 4.37                  | 4.32 | 4.34 | 0.02            | -0.02 | 0.04  | ±0.3           |
| 17000    | 4.36                  | 4.32 | 4.31 | 4.36                  | 4.33 | 4.33 | 0.00            | 0.02  | 0.04  | ±0.3           |
| 21400    | 4.38                  | 4.34 | 4.33 | 4.40                  | 4.35 | 4.34 | 0.04            | 0.02  | 0.02  | ±0.3           |
| 27200    | 4.38                  | 4.34 | 4.33 | 4.38                  | 4.34 | 4.33 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 34400    | 4.38                  | 4.35 | 4.34 | 4.39                  | 4.35 | 4.34 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 40000    | 4.37                  | 4.34 | 4.33 | 4.38                  | 4.35 | 4.34 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 43600    | 4.36                  | 4.33 | 4.33 | 4.37                  | 4.35 | 4.32 | 0.02            | 0.04  | -0.02 | ±0.3           |
| 55400    | 4.35                  | 4.32 | 4.32 | 4.36                  | 4.33 | 4.32 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 70000    | 4.34                  | 4.31 | 4.31 | 4.35                  | 4.32 | 4.32 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 88800    | 4.33                  | 4.30 | 4.29 | 4.34                  | 4.32 | 4.30 | 0.02            | 0.04  | 0.02  | ±0.3           |
| 112400   | 4.31                  | 4.29 | 4.28 | 4.33                  | 4.33 | 4.29 | 0.04            | 0.08  | 0.02  | ±0.3           |
| 142400   | 4.30                  | 4.27 | 4.27 | 4.31                  | 4.27 | 4.27 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 161750   | 4.28                  | 4.25 | 4.25 | 4.29                  | 4.25 | 4.25 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 180400   | 4.27                  | 4.24 | 4.24 | 4.28                  | 4.23 | 4.24 | 0.02            | -0.02 | 0.00  | ±0.3           |
| 228400   | 4.24                  | 4.21 | 4.20 | 4.25                  | 4.22 | 4.21 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 289400   | 4.20                  | 4.17 | 4.17 | 4.20                  | 4.18 | 4.17 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 366400   | 4.16                  | 4.14 | 4.13 | 4.17                  | 4.15 | 4.14 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 400000   | 4.14                  | 4.12 | 4.12 | 4.15                  | 4.13 | 4.12 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 464000   | 4.11                  | 4.09 | 4.09 | 4.13                  | 4.10 | 4.09 | 0.04            | 0.02  | 0.00  | ±0.3           |
| 587800   | 4.07                  | 4.05 | 4.04 | 4.08                  | 4.06 | 4.06 | 0.02            | 0.02  | 0.04  | ±0.3           |
| 744200   | 4.02                  | 4.00 | 4.00 | 4.03                  | 4.01 | 4.01 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 942600   | 4.00                  | 3.99 | 3.99 | 4.01                  | 4.00 | 3.99 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 1193600  | 3.98                  | 3.97 | 3.96 | 3.99                  | 3.98 | 3.97 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 1511600  | 3.98                  | 3.96 | 3.96 | 3.98                  | 3.97 | 3.96 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 1914400  | 3.96                  | 3.95 | 3.94 | 3.97                  | 3.95 | 3.95 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 2424400  | 3.95                  | 3.93 | 3.93 | 3.96                  | 3.94 | 3.94 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 3070200  | 3.92                  | 3.90 | 3.90 | 3.93                  | 3.91 | 3.90 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 3888000  | 3.86                  | 3.85 | 3.84 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 4000000  | 3.86                  | 3.84 | 3.83 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 4923800  | 3.79                  | 3.78 | 3.77 | 3.80                  | 3.78 | 3.78 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 6235400  | 3.69                  | 3.67 | 3.67 | 3.69                  | 3.67 | 3.67 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 7896400  | 3.54                  | 3.53 | 3.52 | 3.55                  | 3.53 | 3.53 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 10000000 | 3.40                  | 3.38 | 3.38 | 3.40                  | 3.40 | 3.38 | 0.00            | 0.05  | 0.00  | ±0.3           |

SPEAG H-field frequency response tolerance criteria<sup>1</sup>:  
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

<sup>1</sup> 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     | 1.54                  | 1.54 | 1.54 | 1.54                  | 1.55 | 1.53 | 0.00            | 0.06  | -0.06 | ±0.3           |
| 3200     | 1.54                  | 1.54 | 1.54 | 1.56                  | 1.55 | 1.53 | 0.11            | 0.06  | -0.06 | ±0.3           |
| 4000     | 1.53                  | 1.53 | 1.53 | 1.53                  | 1.54 | 1.52 | 0.00            | 0.06  | -0.06 | ±0.3           |
| 5200     | 1.52                  | 1.52 | 1.52 | 1.53                  | 1.53 | 1.53 | 0.06            | 0.06  | 0.06  | ±0.3           |
| 6600     | 1.51                  | 1.51 | 1.51 | 1.51                  | 1.52 | 1.50 | 0.00            | 0.06  | -0.06 | ±0.3           |
| 8200     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 9000     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 10600    | 4.34                  | 4.32 | 4.31 | 4.33                  | 4.31 | 4.34 | -0.02           | -0.02 | 0.06  | ±0.3           |
| 13400    | 4.36                  | 4.33 | 4.32 | 4.37                  | 4.34 | 4.33 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 17000    | 4.36                  | 4.32 | 4.31 | 4.36                  | 4.33 | 4.32 | 0.00            | 0.02  | 0.02  | ±0.3           |
| 21400    | 4.38                  | 4.34 | 4.33 | 4.38                  | 4.34 | 4.34 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 27200    | 4.38                  | 4.34 | 4.33 | 4.40                  | 4.34 | 4.34 | 0.04            | 0.00  | 0.02  | ±0.3           |
| 34400    | 4.38                  | 4.35 | 4.34 | 4.39                  | 4.36 | 4.34 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 40000    | 4.37                  | 4.34 | 4.33 | 4.38                  | 4.36 | 4.33 | 0.02            | 0.04  | 0.00  | ±0.3           |
| 43600    | 4.36                  | 4.33 | 4.33 | 4.38                  | 4.33 | 4.34 | 0.04            | 0.00  | 0.02  | ±0.3           |
| 55400    | 4.35                  | 4.32 | 4.32 | 4.36                  | 4.34 | 4.32 | 0.02            | 0.04  | 0.00  | ±0.3           |
| 70000    | 4.34                  | 4.31 | 4.31 | 4.35                  | 4.32 | 4.32 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 88800    | 4.33                  | 4.30 | 4.29 | 4.34                  | 4.30 | 4.30 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 112400   | 4.31                  | 4.29 | 4.28 | 4.32                  | 4.28 | 4.29 | 0.02            | -0.02 | 0.02  | ±0.3           |
| 142400   | 4.30                  | 4.27 | 4.27 | 4.31                  | 4.28 | 4.28 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 161750   | 4.28                  | 4.25 | 4.25 | 4.29                  | 4.26 | 4.25 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 180400   | 4.27                  | 4.24 | 4.24 | 4.28                  | 4.29 | 4.24 | 0.02            | 0.10  | 0.00  | ±0.3           |
| 228400   | 4.24                  | 4.21 | 4.20 | 4.25                  | 4.21 | 4.21 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 289400   | 4.20                  | 4.17 | 4.17 | 4.21                  | 4.18 | 4.17 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 366400   | 4.16                  | 4.14 | 4.13 | 4.17                  | 4.15 | 4.13 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 400000   | 4.14                  | 4.12 | 4.12 | 4.15                  | 4.13 | 4.12 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 464000   | 4.11                  | 4.09 | 4.09 | 4.12                  | 4.10 | 4.09 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 587800   | 4.07                  | 4.05 | 4.04 | 4.09                  | 4.06 | 4.05 | 0.04            | 0.02  | 0.02  | ±0.3           |
| 744200   | 4.02                  | 4.00 | 4.00 | 4.03                  | 4.01 | 4.00 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 942600   | 4.00                  | 3.99 | 3.99 | 4.02                  | 4.00 | 3.99 | 0.04            | 0.02  | 0.00  | ±0.3           |
| 1193600  | 3.98                  | 3.97 | 3.96 | 3.99                  | 3.97 | 3.97 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 1511600  | 3.98                  | 3.96 | 3.96 | 3.98                  | 3.96 | 3.96 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 1914400  | 3.96                  | 3.95 | 3.94 | 3.97                  | 3.95 | 3.95 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 2424400  | 3.95                  | 3.93 | 3.93 | 3.96                  | 3.94 | 3.93 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 3070200  | 3.92                  | 3.90 | 3.90 | 3.92                  | 3.91 | 3.91 | 0.00            | 0.02  | 0.02  | ±0.3           |
| 3888000  | 3.86                  | 3.85 | 3.84 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 4000000  | 3.86                  | 3.84 | 3.83 | 3.86                  | 3.84 | 3.84 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 4923800  | 3.79                  | 3.78 | 3.77 | 3.79                  | 3.78 | 3.77 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 6235400  | 3.69                  | 3.67 | 3.67 | 3.69                  | 3.67 | 3.67 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 7896400  | 3.54                  | 3.53 | 3.52 | 3.55                  | 3.53 | 3.52 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 10000000 | 3.40                  | 3.38 | 3.38 | 3.39                  | 3.39 | 3.39 | -0.03           | 0.03  | 0.03  | ±0.3           |

SPEAG H-field frequency response tolerance criteria<sup>1</sup>:  
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

<sup>1</sup> 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     | 1.54                  | 1.54 | 1.54 | 1.54                  | 1.54 | 1.55 | 0.00            | 0.00  | 0.06  | ±0.3           |
| 3200     | 1.54                  | 1.54 | 1.54 | 1.55                  | 1.56 | 1.54 | 0.06            | 0.11  | 0.00  | ±0.3           |
| 4000     | 1.53                  | 1.53 | 1.53 | 1.54                  | 1.53 | 1.53 | 0.06            | 0.00  | 0.00  | ±0.3           |
| 5200     | 1.52                  | 1.52 | 1.52 | 1.53                  | 1.52 | 1.52 | 0.06            | 0.00  | 0.00  | ±0.3           |
| 6600     | 1.51                  | 1.51 | 1.51 | 1.51                  | 1.51 | 1.51 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 8200     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 9000     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.49 | 1.50 | 0.00            | -0.06 | 0.00  | ±0.3           |
| 10600    | 4.34                  | 4.32 | 4.31 | 4.33                  | 4.35 | 4.33 | -0.02           | 0.06  | 0.04  | ±0.3           |
| 13400    | 4.36                  | 4.33 | 4.32 | 4.39                  | 4.34 | 4.31 | 0.06            | 0.02  | -0.02 | ±0.3           |
| 17000    | 4.36                  | 4.32 | 4.31 | 4.37                  | 4.33 | 4.31 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 21400    | 4.38                  | 4.34 | 4.33 | 4.40                  | 4.35 | 4.35 | 0.04            | 0.02  | 0.04  | ±0.3           |
| 27200    | 4.38                  | 4.34 | 4.33 | 4.39                  | 4.34 | 4.34 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 34400    | 4.38                  | 4.35 | 4.34 | 4.39                  | 4.36 | 4.34 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 40000    | 4.37                  | 4.34 | 4.33 | 4.38                  | 4.35 | 4.34 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 43600    | 4.36                  | 4.33 | 4.33 | 4.37                  | 4.34 | 4.34 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 55400    | 4.35                  | 4.32 | 4.32 | 4.36                  | 4.33 | 4.32 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 70000    | 4.34                  | 4.31 | 4.31 | 4.35                  | 4.33 | 4.32 | 0.02            | 0.04  | 0.02  | ±0.3           |
| 88800    | 4.33                  | 4.30 | 4.29 | 4.34                  | 4.31 | 4.30 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 112400   | 4.31                  | 4.29 | 4.28 | 4.33                  | 4.29 | 4.29 | 0.04            | 0.00  | 0.02  | ±0.3           |
| 142400   | 4.30                  | 4.27 | 4.27 | 4.31                  | 4.27 | 4.27 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 161750   | 4.28                  | 4.25 | 4.25 | 4.29                  | 4.26 | 4.25 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 180400   | 4.27                  | 4.24 | 4.24 | 4.27                  | 4.27 | 4.24 | 0.00            | 0.06  | 0.00  | ±0.3           |
| 228400   | 4.24                  | 4.21 | 4.20 | 4.25                  | 4.21 | 4.21 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 289400   | 4.20                  | 4.17 | 4.17 | 4.21                  | 4.18 | 4.17 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 366400   | 4.16                  | 4.14 | 4.13 | 4.17                  | 4.15 | 4.14 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 400000   | 4.14                  | 4.12 | 4.12 | 4.15                  | 4.13 | 4.12 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 464000   | 4.11                  | 4.09 | 4.09 | 4.13                  | 4.10 | 4.09 | 0.04            | 0.02  | 0.00  | ±0.3           |
| 587800   | 4.07                  | 4.05 | 4.04 | 4.08                  | 4.05 | 4.05 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 744200   | 4.02                  | 4.00 | 4.00 | 4.02                  | 4.01 | 4.00 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 942600   | 4.00                  | 3.99 | 3.99 | 4.02                  | 4.00 | 3.99 | 0.04            | 0.02  | 0.00  | ±0.3           |
| 1193600  | 3.98                  | 3.97 | 3.96 | 3.99                  | 3.98 | 3.97 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 1511600  | 3.98                  | 3.96 | 3.96 | 3.99                  | 3.97 | 3.96 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 1914400  | 3.96                  | 3.95 | 3.94 | 3.97                  | 3.95 | 3.94 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 2424400  | 3.95                  | 3.93 | 3.93 | 3.96                  | 3.94 | 3.93 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 3070200  | 3.92                  | 3.90 | 3.90 | 3.92                  | 3.91 | 3.90 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 3888000  | 3.86                  | 3.85 | 3.84 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 4000000  | 3.86                  | 3.84 | 3.83 | 3.87                  | 3.84 | 3.84 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 4923800  | 3.79                  | 3.78 | 3.77 | 3.80                  | 3.78 | 3.77 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 6235400  | 3.69                  | 3.67 | 3.67 | 3.69                  | 3.67 | 3.66 | 0.00            | 0.00  | -0.02 | ±0.3           |
| 7896400  | 3.54                  | 3.53 | 3.52 | 3.54                  | 3.53 | 3.53 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 10000000 | 3.40                  | 3.38 | 3.38 | 3.40                  | 3.39 | 3.40 | 0.00            | 0.03  | 0.05  | ±0.3           |

SPEAG H-field frequency response tolerance criteria<sup>1</sup>:  
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

<sup>1</sup> 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     | 1.54                  | 1.54 | 1.54 | 1.54                  | 1.55 | 1.53 | 0.00            | 0.06  | -0.06 | ±0.3           |
| 3200     | 1.54                  | 1.54 | 1.54 | 1.56                  | 1.55 | 1.55 | 0.11            | 0.06  | 0.06  | ±0.3           |
| 4000     | 1.53                  | 1.53 | 1.53 | 1.54                  | 1.53 | 1.53 | 0.06            | 0.00  | 0.00  | ±0.3           |
| 5200     | 1.52                  | 1.52 | 1.52 | 1.53                  | 1.53 | 1.51 | 0.06            | 0.06  | -0.06 | ±0.3           |
| 6600     | 1.51                  | 1.51 | 1.51 | 1.50                  | 1.51 | 1.51 | -0.06           | 0.00  | 0.00  | ±0.3           |
| 8200     | 1.50                  | 1.50 | 1.50 | 1.49                  | 1.50 | 1.50 | -0.06           | 0.00  | 0.00  | ±0.3           |
| 9000     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 10600    | 4.34                  | 4.32 | 4.31 | 4.37                  | 4.34 | 4.28 | 0.06            | 0.04  | -0.06 | ±0.3           |
| 13400    | 4.36                  | 4.33 | 4.32 | 4.35                  | 4.33 | 4.31 | -0.02           | 0.00  | -0.02 | ±0.3           |
| 17000    | 4.36                  | 4.32 | 4.31 | 4.36                  | 4.33 | 4.31 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 21400    | 4.38                  | 4.34 | 4.33 | 4.39                  | 4.34 | 4.33 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 27200    | 4.38                  | 4.34 | 4.33 | 4.39                  | 4.33 | 4.34 | 0.02            | -0.02 | 0.02  | ±0.3           |
| 34400    | 4.38                  | 4.35 | 4.34 | 4.39                  | 4.36 | 4.35 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 40000    | 4.37                  | 4.34 | 4.33 | 4.39                  | 4.34 | 4.34 | 0.04            | 0.00  | 0.02  | ±0.3           |
| 43600    | 4.36                  | 4.33 | 4.33 | 4.37                  | 4.35 | 4.33 | 0.02            | 0.04  | 0.00  | ±0.3           |
| 55400    | 4.35                  | 4.32 | 4.32 | 4.36                  | 4.33 | 4.32 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 70000    | 4.34                  | 4.31 | 4.31 | 4.36                  | 4.30 | 4.30 | 0.04            | -0.02 | -0.02 | ±0.3           |
| 88800    | 4.33                  | 4.30 | 4.29 | 4.33                  | 4.29 | 4.30 | 0.00            | -0.02 | 0.02  | ±0.3           |
| 112400   | 4.31                  | 4.29 | 4.28 | 4.33                  | 4.30 | 4.29 | 0.04            | 0.02  | 0.02  | ±0.3           |
| 142400   | 4.30                  | 4.27 | 4.27 | 4.31                  | 4.30 | 4.28 | 0.02            | 0.06  | 0.02  | ±0.3           |
| 161750   | 4.28                  | 4.25 | 4.25 | 4.29                  | 4.29 | 4.25 | 0.02            | 0.08  | 0.00  | ±0.3           |
| 180400   | 4.27                  | 4.24 | 4.24 | 4.27                  | 4.21 | 4.24 | 0.00            | -0.06 | 0.00  | ±0.3           |
| 228400   | 4.24                  | 4.21 | 4.20 | 4.25                  | 4.21 | 4.21 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 289400   | 4.20                  | 4.17 | 4.17 | 4.21                  | 4.18 | 4.17 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 366400   | 4.16                  | 4.14 | 4.13 | 4.17                  | 4.14 | 4.14 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 400000   | 4.14                  | 4.12 | 4.12 | 4.15                  | 4.13 | 4.12 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 464000   | 4.11                  | 4.09 | 4.09 | 4.12                  | 4.09 | 4.09 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 587800   | 4.07                  | 4.05 | 4.04 | 4.08                  | 4.05 | 4.05 | 0.02            | 0.00  | 0.02  | ±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                  | 3.99 | 3.99 | 4.01                  | 4.00 | 3.99 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 1193600  | 3.98                  | 3.97 | 3.96 | 3.99                  | 3.98 | 3.97 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 1511600  | 3.98                  | 3.96 | 3.96 | 3.98                  | 3.96 | 3.96 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 1914400  | 3.96                  | 3.95 | 3.94 | 3.97                  | 3.95 | 3.94 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 2424400  | 3.95                  | 3.93 | 3.93 | 3.95                  | 3.94 | 3.93 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 3070200  | 3.92                  | 3.90 | 3.90 | 3.92                  | 3.91 | 3.91 | 0.00            | 0.02  | 0.02  | ±0.3           |
| 3888000  | 3.86                  | 3.85 | 3.84 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 4000000  | 3.86                  | 3.84 | 3.83 | 3.86                  | 3.84 | 3.84 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 4923800  | 3.79                  | 3.78 | 3.77 | 3.79                  | 3.78 | 3.77 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 6235400  | 3.69                  | 3.67 | 3.67 | 3.69                  | 3.68 | 3.67 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 7896400  | 3.54                  | 3.53 | 3.52 | 3.55                  | 3.53 | 3.52 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 10000000 | 3.40                  | 3.38 | 3.38 | 3.39                  | 3.38 | 3.38 | -0.03           | 0.00  | 0.00  | ±0.3           |

SPEAG H-field frequency response tolerance criteria<sup>1</sup>:  
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

<sup>1</sup> Calibration 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     | 1.54                  | 1.54 | 1.54 | 1.54                  | 1.54 | 1.54 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 3200     | 1.54                  | 1.54 | 1.54 | 1.55                  | 1.55 | 1.54 | 0.06            | 0.06  | 0.00  | ±0.3           |
| 4000     | 1.53                  | 1.53 | 1.53 | 1.54                  | 1.52 | 1.54 | 0.06            | -0.06 | 0.06  | ±0.3           |
| 5200     | 1.52                  | 1.52 | 1.52 | 1.52                  | 1.53 | 1.51 | 0.00            | 0.06  | -0.06 | ±0.3           |
| 6600     | 1.51                  | 1.51 | 1.51 | 1.51                  | 1.51 | 1.51 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 8200     | 1.50                  | 1.50 | 1.50 | 1.50                  | 1.50 | 1.50 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 9000     | 1.50                  | 1.50 | 1.50 | 1.49                  | 1.49 | 1.49 | -0.06           | -0.06 | -0.06 | ±0.3           |
| 10600    | 4.34                  | 4.32 | 4.31 | 4.32                  | 4.32 | 4.32 | -0.04           | 0.00  | 0.02  | ±0.3           |
| 13400    | 4.36                  | 4.33 | 4.32 | 4.37                  | 4.34 | 4.33 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 17000    | 4.36                  | 4.32 | 4.31 | 4.36                  | 4.33 | 4.32 | 0.00            | 0.02  | 0.02  | ±0.3           |
| 21400    | 4.38                  | 4.34 | 4.33 | 4.39                  | 4.35 | 4.34 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 27200    | 4.38                  | 4.34 | 4.33 | 4.39                  | 4.34 | 4.33 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 34400    | 4.38                  | 4.35 | 4.34 | 4.39                  | 4.36 | 4.34 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 40000    | 4.37                  | 4.34 | 4.33 | 4.37                  | 4.35 | 4.34 | 0.00            | 0.02  | 0.02  | ±0.3           |
| 43600    | 4.36                  | 4.33 | 4.33 | 4.37                  | 4.34 | 4.34 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 55400    | 4.35                  | 4.32 | 4.32 | 4.36                  | 4.33 | 4.32 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 70000    | 4.34                  | 4.31 | 4.31 | 4.35                  | 4.32 | 4.31 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 88800    | 4.33                  | 4.30 | 4.29 | 4.33                  | 4.30 | 4.30 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 112400   | 4.31                  | 4.29 | 4.28 | 4.33                  | 4.30 | 4.29 | 0.04            | 0.02  | 0.02  | ±0.3           |
| 142400   | 4.30                  | 4.27 | 4.27 | 4.30                  | 4.28 | 4.27 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 161750   | 4.28                  | 4.25 | 4.25 | 4.29                  | 4.27 | 4.25 | 0.02            | 0.04  | 0.00  | ±0.3           |
| 180400   | 4.27                  | 4.24 | 4.24 | 4.27                  | 4.24 | 4.24 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 228400   | 4.24                  | 4.21 | 4.20 | 4.25                  | 4.21 | 4.21 | 0.02            | 0.00  | 0.02  | ±0.3           |
| 289400   | 4.20                  | 4.17 | 4.17 | 4.20                  | 4.18 | 4.17 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 366400   | 4.16                  | 4.14 | 4.13 | 4.17                  | 4.15 | 4.14 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 400000   | 4.14                  | 4.12 | 4.12 | 4.15                  | 4.13 | 4.12 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 464000   | 4.11                  | 4.09 | 4.09 | 4.13                  | 4.09 | 4.09 | 0.04            | 0.00  | 0.00  | ±0.3           |
| 587800   | 4.07                  | 4.05 | 4.04 | 4.08                  | 4.06 | 4.05 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 744200   | 4.02                  | 4.00 | 4.00 | 4.02                  | 4.01 | 4.00 | 0.00            | 0.02  | 0.00  | ±0.3           |
| 942600   | 4.00                  | 3.99 | 3.99 | 4.01                  | 4.00 | 3.99 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 1193600  | 3.98                  | 3.97 | 3.96 | 3.99                  | 3.98 | 3.97 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 1511600  | 3.98                  | 3.96 | 3.96 | 3.98                  | 3.96 | 3.96 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 1914400  | 3.96                  | 3.95 | 3.94 | 3.97                  | 3.95 | 3.94 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 2424400  | 3.95                  | 3.93 | 3.93 | 3.96                  | 3.94 | 3.93 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 3070200  | 3.92                  | 3.90 | 3.90 | 3.93                  | 3.91 | 3.91 | 0.02            | 0.02  | 0.02  | ±0.3           |
| 3888000  | 3.86                  | 3.85 | 3.84 | 3.87                  | 3.85 | 3.84 | 0.02            | 0.00  | 0.00  | ±0.3           |
| 4000000  | 3.86                  | 3.84 | 3.83 | 3.87                  | 3.85 | 3.83 | 0.02            | 0.02  | 0.00  | ±0.3           |
| 4923800  | 3.79                  | 3.78 | 3.77 | 3.79                  | 3.78 | 3.77 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 6235400  | 3.69                  | 3.67 | 3.67 | 3.69                  | 3.67 | 3.66 | 0.00            | 0.00  | -0.02 | ±0.3           |
| 7896400  | 3.54                  | 3.53 | 3.52 | 3.54                  | 3.53 | 3.53 | 0.00            | 0.00  | 0.02  | ±0.3           |
| 10000000 | 3.40                  | 3.38 | 3.38 | 3.40                  | 3.39 | 3.39 | 0.00            | 0.03  | 0.03  | ±0.3           |

SPEAG H-field frequency response tolerance criteria<sup>1</sup>:  
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

<sup>1</sup>Calibration uncertainty not taken into account (shared risk 50%).

## Frequency Response, E-field, Channel 0

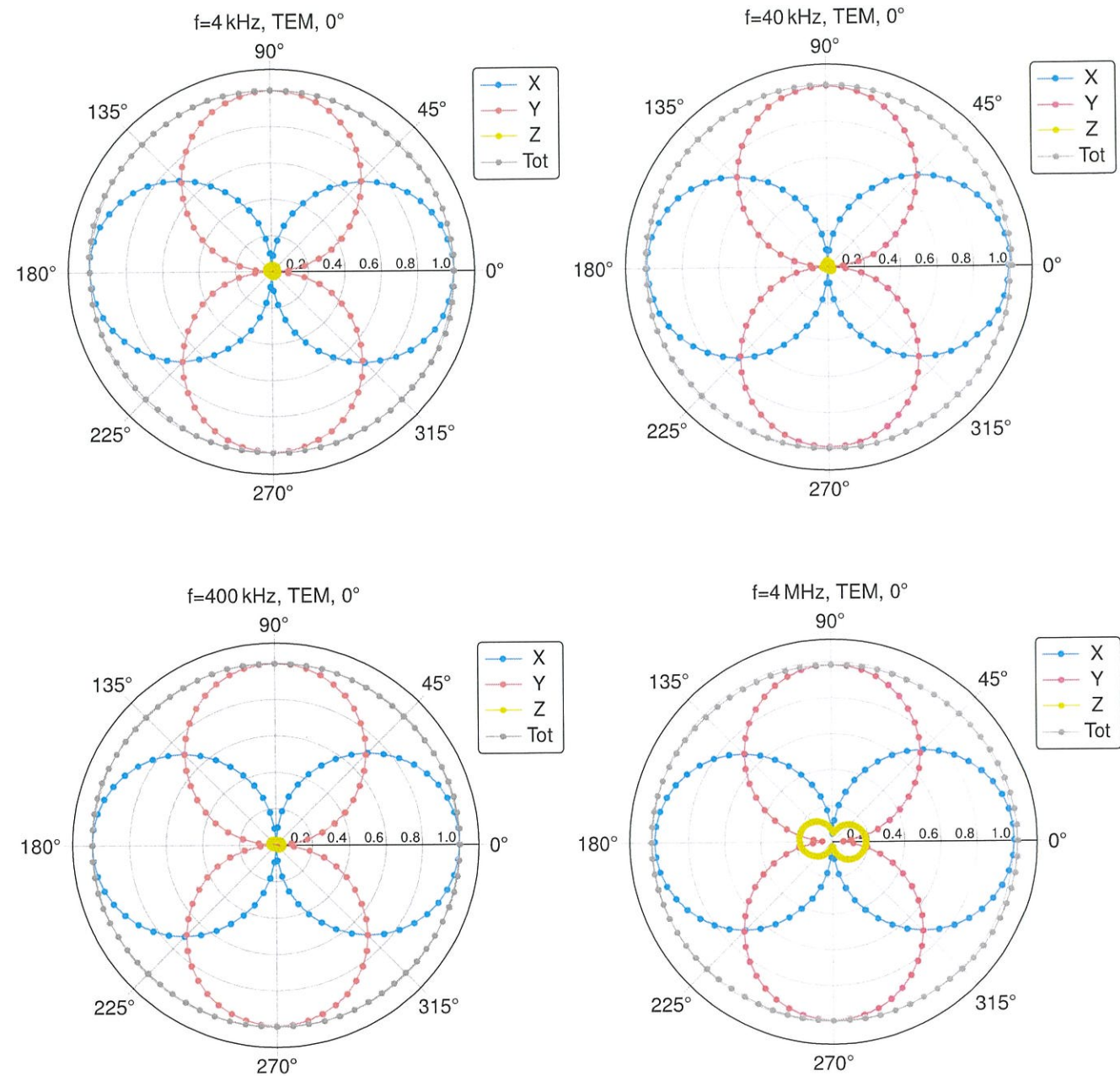
| f/(Hz)   | E-field/(V/m) Applied |     |     | E-field/(V/m) Reading |     |     | Difference/(dB) |       |       | Tolerance/(dB) |
|----------|-----------------------|-----|-----|-----------------------|-----|-----|-----------------|-------|-------|----------------|
|          | x                     | y   | z   | x                     | y   | z   | x               | y     | z     |                |
| 3000     | 169                   | 169 | 172 | 169                   | 169 | 172 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 3200     | 167                   | 167 | 162 | 169                   | 170 | 161 | 0.10            | 0.15  | -0.05 | ±0.3           |
| 4000     | 175                   | 175 | 170 | 175                   | 175 | 170 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 5200     | 165                   | 165 | 163 | 165                   | 165 | 164 | 0.00            | 0.00  | 0.05  | ±0.3           |
| 6600     | 163                   | 163 | 160 | 162                   | 162 | 160 | -0.05           | -0.05 | 0.00  | ±0.3           |
| 8200     | 162                   | 162 | 159 | 162                   | 162 | 158 | 0.00            | 0.00  | -0.05 | ±0.3           |
| 9000     | 163                   | 163 | 164 | 163                   | 163 | 163 | 0.00            | 0.00  | -0.05 | ±0.3           |
| 10600    | 166                   | 166 | 159 | 166                   | 166 | 159 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 13400    | 163                   | 163 | 162 | 163                   | 163 | 162 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 17000    | 161                   | 161 | 163 | 161                   | 161 | 163 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 21400    | 157                   | 157 | 158 | 157                   | 157 | 158 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 27200    | 158                   | 158 | 157 | 158                   | 158 | 157 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 34400    | 162                   | 162 | 159 | 162                   | 162 | 159 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 40000    | 161                   | 161 | 161 | 161                   | 161 | 161 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 43600    | 162                   | 162 | 160 | 162                   | 162 | 160 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 55400    | 161                   | 161 | 159 | 161                   | 161 | 158 | 0.00            | 0.00  | -0.05 | ±0.3           |
| 70000    | 162                   | 162 | 160 | 162                   | 162 | 160 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 88800    | 161                   | 161 | 160 | 161                   | 161 | 160 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 112400   | 161                   | 161 | 160 | 161                   | 161 | 160 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 142400   | 162                   | 162 | 160 | 162                   | 162 | 160 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 161750   | 163                   | 163 | 162 | 163                   | 163 | 162 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 180400   | 164                   | 164 | 162 | 164                   | 164 | 162 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 228400   | 165                   | 165 | 163 | 165                   | 165 | 163 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 289400   | 166                   | 166 | 164 | 166                   | 166 | 164 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 366400   | 166                   | 166 | 165 | 166                   | 166 | 164 | 0.00            | 0.00  | -0.05 | ±0.3           |
| 400000   | 167                   | 167 | 165 | 167                   | 167 | 165 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 464000   | 168                   | 168 | 166 | 168                   | 168 | 166 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 587800   | 169                   | 169 | 167 | 169                   | 169 | 167 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 744200   | 169                   | 169 | 167 | 169                   | 169 | 167 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 942600   | 170                   | 170 | 168 | 170                   | 170 | 168 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 1193600  | 171                   | 171 | 169 | 171                   | 171 | 169 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 1511600  | 170                   | 170 | 169 | 170                   | 170 | 169 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 1914400  | 170                   | 170 | 168 | 170                   | 170 | 168 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 2424400  | 170                   | 170 | 168 | 170                   | 170 | 168 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 3070200  | 171                   | 171 | 169 | 171                   | 170 | 169 | 0.00            | -0.05 | 0.00  | ±0.3           |
| 3888000  | 171                   | 171 | 169 | 171                   | 171 | 169 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 4000000  | 171                   | 171 | 169 | 171                   | 171 | 169 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 4923800  | 172                   | 172 | 170 | 172                   | 172 | 170 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 6235400  | 174                   | 174 | 172 | 174                   | 174 | 172 | 0.00            | 0.00  | 0.00  | ±0.3           |
| 7896400  | 180                   | 180 | 179 | 180                   | 180 | 178 | 0.00            | 0.00  | -0.05 | ±0.3           |
| 10000000 | 201                   | 201 | 199 | 201                   | 201 | 199 | 0.00            | 0.00  | 0.00  | ±0.3           |

SPEAG E-field frequency response tolerance criteria<sup>1</sup>:  
±0.3dB for applied E-fields at calibration points from 3kHz to 10MHz

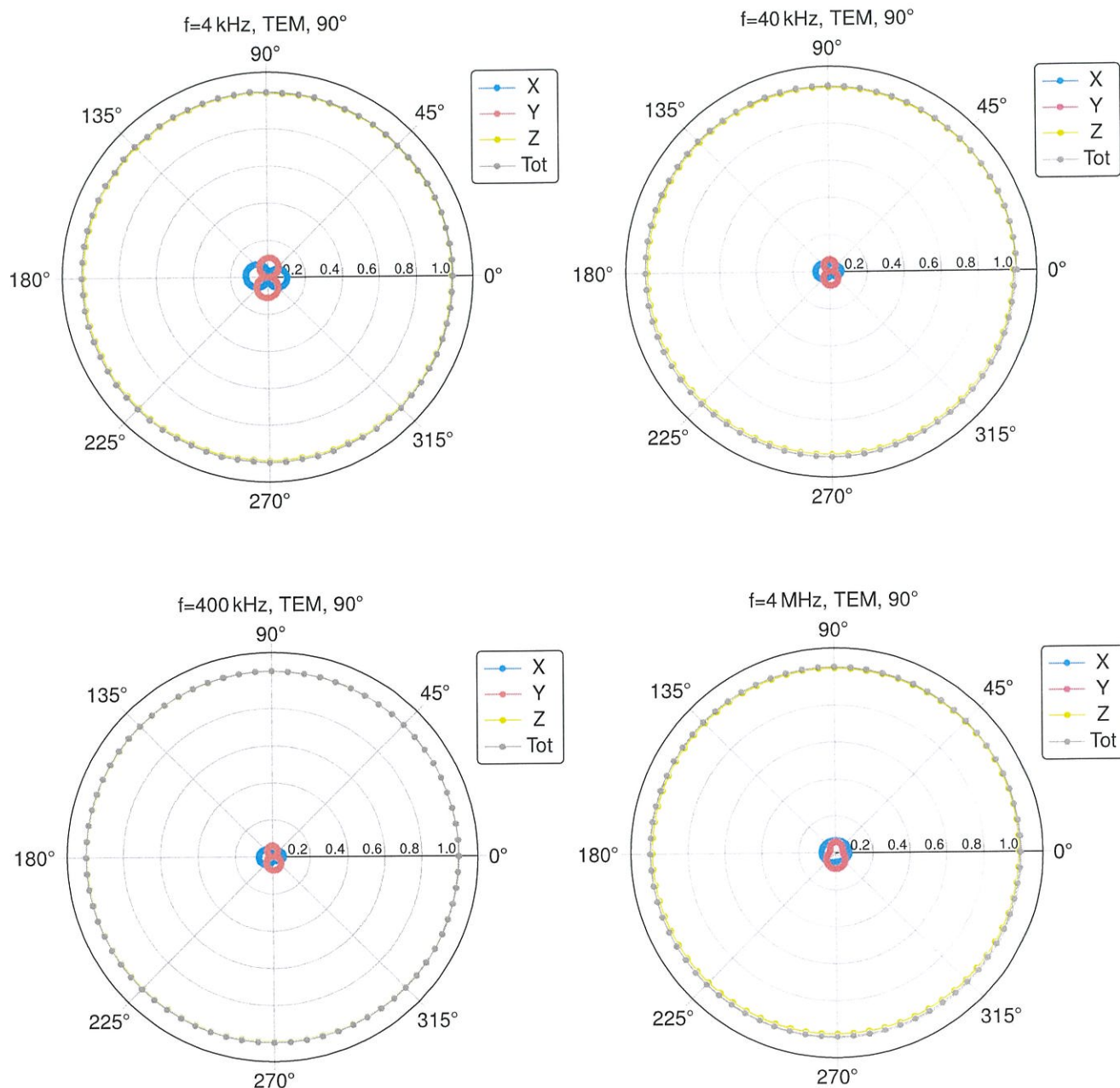
<sup>1</sup> Calibration uncertainty not taken into account (shared risk 50%).

Isotropy H-Field

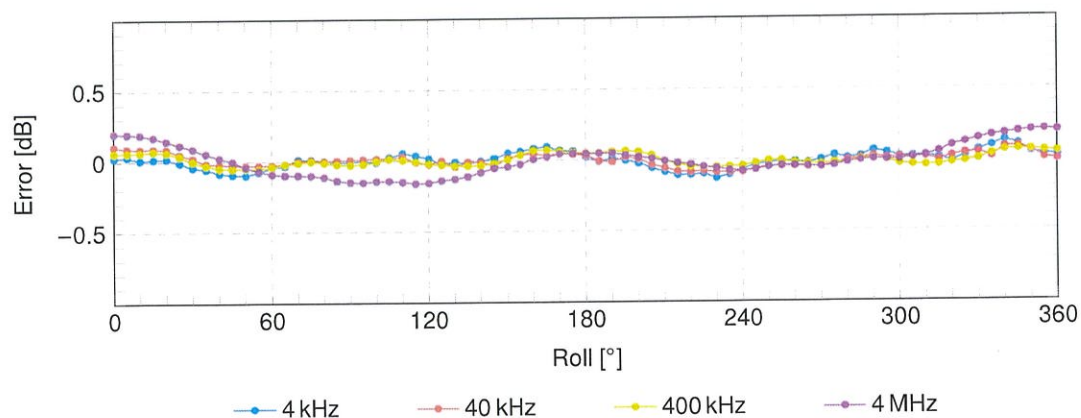
H-Field Receiving Pattern ( $\phi$ ),  $\vartheta = 0^\circ$



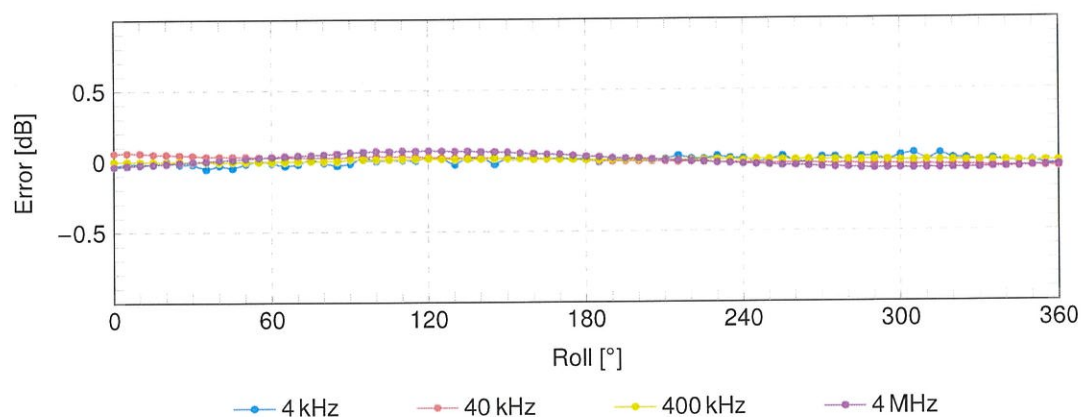
### H-Field Receiving Pattern ( $\phi$ ), $\vartheta = 90^\circ$



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



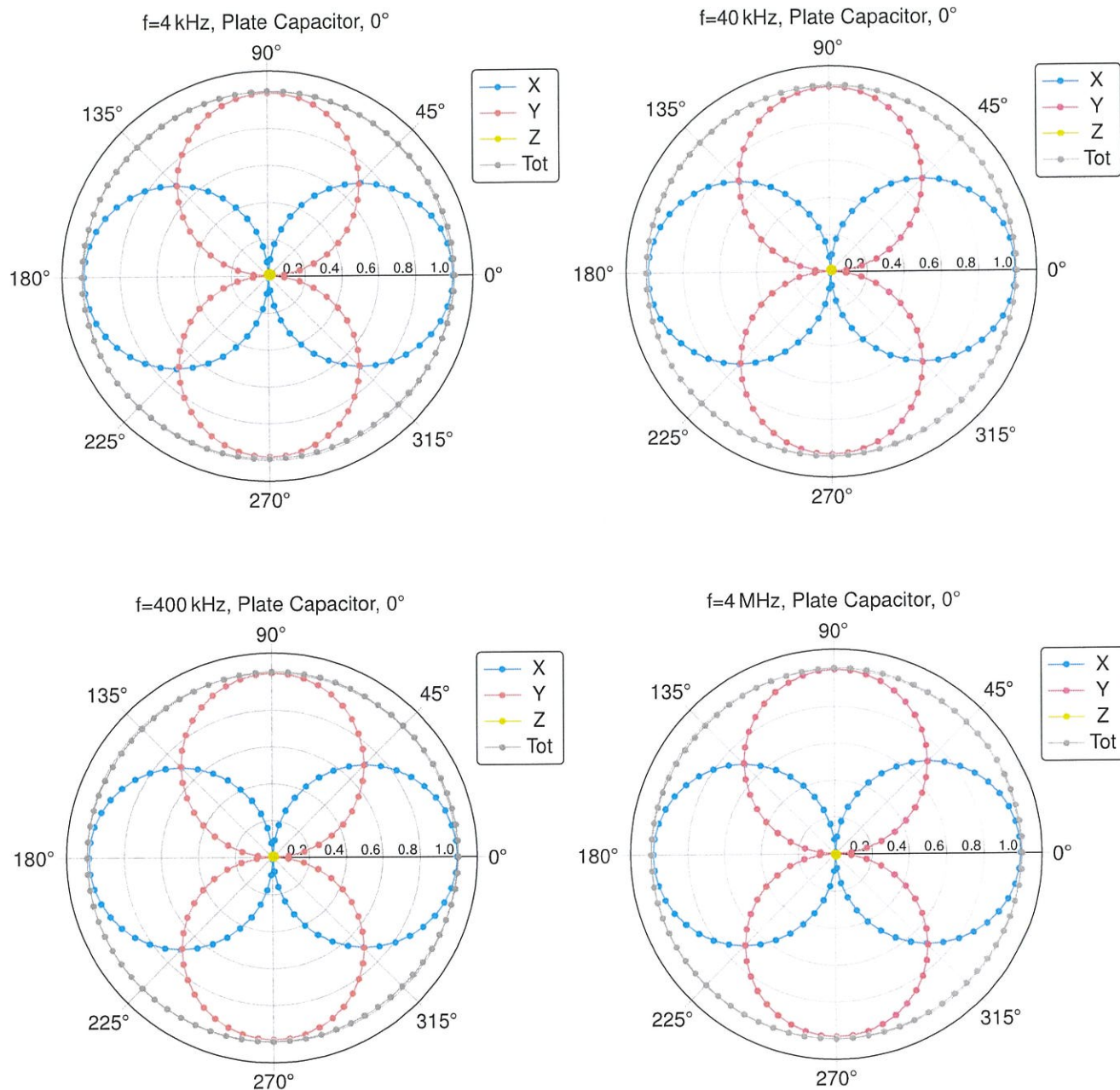
### H-Field Receiving Pattern ( $\phi$ ), $\vartheta = 90^\circ$



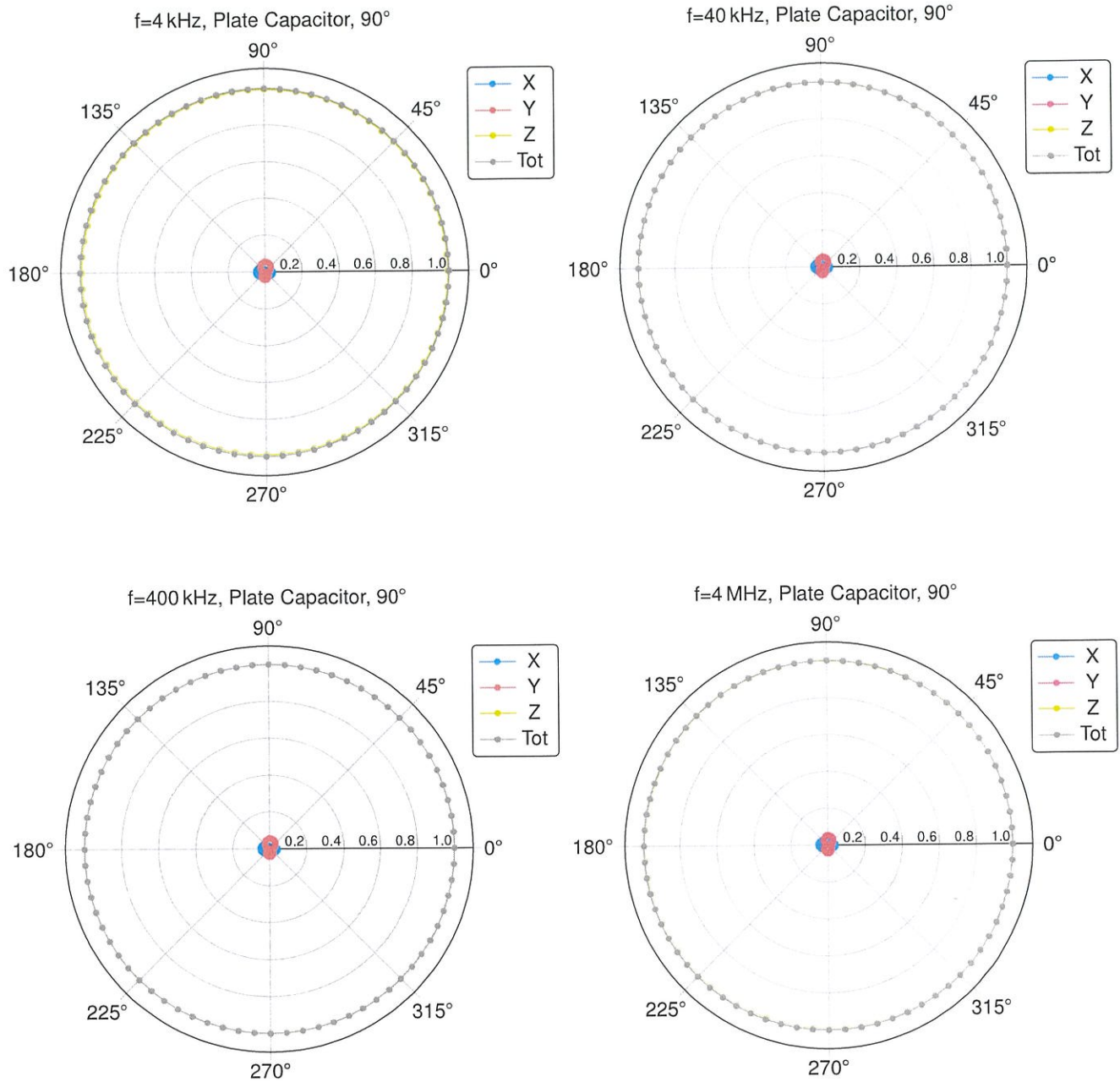
SPEAG axial deviation from the ideal response tolerance for H-field:  $\pm 0.6$  dB

## Isotropy E-Field

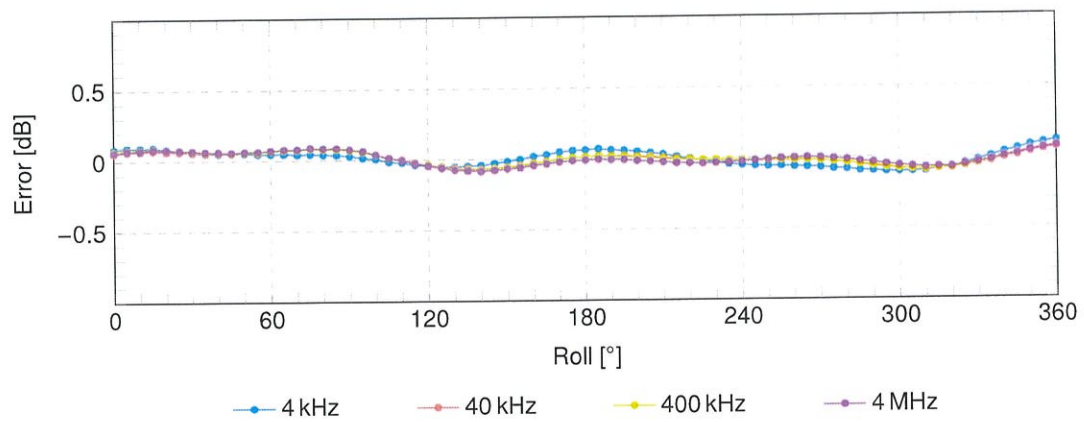
### E-Field Receiving Pattern ( $\phi$ ), $\vartheta = 0^\circ$



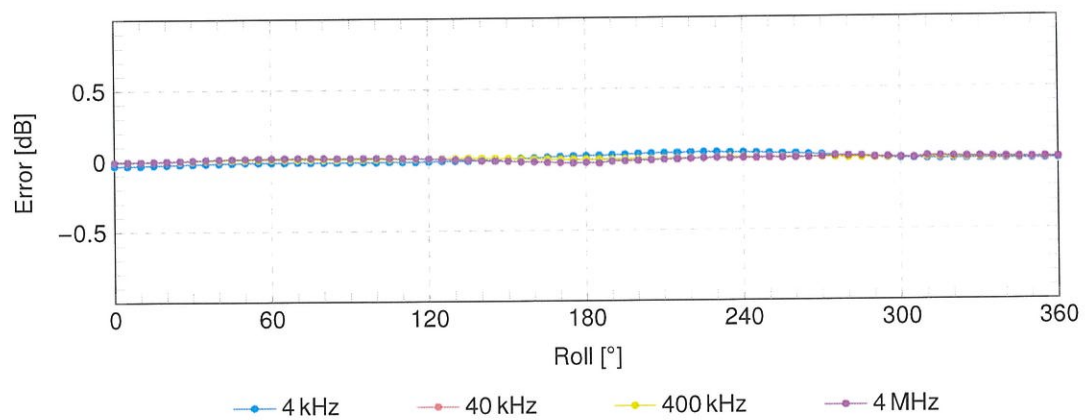
**E-Field Receiving Pattern ( $\phi$ ),  $\vartheta = 90^\circ$**



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



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



SPEAG axial deviation from the ideal response tolerance for E-field:  $\pm 0.8\text{dB}$