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Test report

Anisotropic performance

RadiSense models RSS2010I and RSS2010S

Issued by	Raditeq B.V. Vijzelmolenlaan 3 3447GX, Woerden The Netherlands
Product description	Electrical Field probe
Brand	Raditeq BV
Model	RS2010I
Serial number	2201038
Measurement date	29-02-2024

Measurement procedure

The anisotropy calibration is carried out in accordance to IEEE-std 1309 (2013). In the frequency range of 1 GHz to 12 GHz, measurements are performed in an anechoic chamber.

To measure the anisotropy of the RSS2010 probe, the probe is rotated over its orthogonal axis with a probe rotator. As a result, the X-axis is in line with the applied E-field at 0 degrees, the Y-axis is in line with the applied E-field at 120 degrees and the Z-axis is in line with the applied E-field at 240 degrees. For all tests, a step resolution of one (1) degree is used.

During the tests, a nominal fieldstrength of 20 V/m is applied. The reported fieldstrength values are corrected (scaled) for an indication of 20 V/m at an angle of zero (0) degrees (X-axis on top).

The anisotropy [A] is defined as:

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Environmental conditions

Temperature	23°C ± 3°C
Relative humidity	50% ± 25%

Uncertainty

The measurement uncertainty of the anisotropic measurements is ± 0.59 dB. This reported expanded uncertainty of measurement results is stated as the standard uncertainty of the measurement multiplied by a coverage factor (k = 2), which, for a normal distribution corresponds to a coverage probability of approximately 95 %. The standard uncertainty of measurement has been determined in accordance with EAL publication EA-4/02 (2022).

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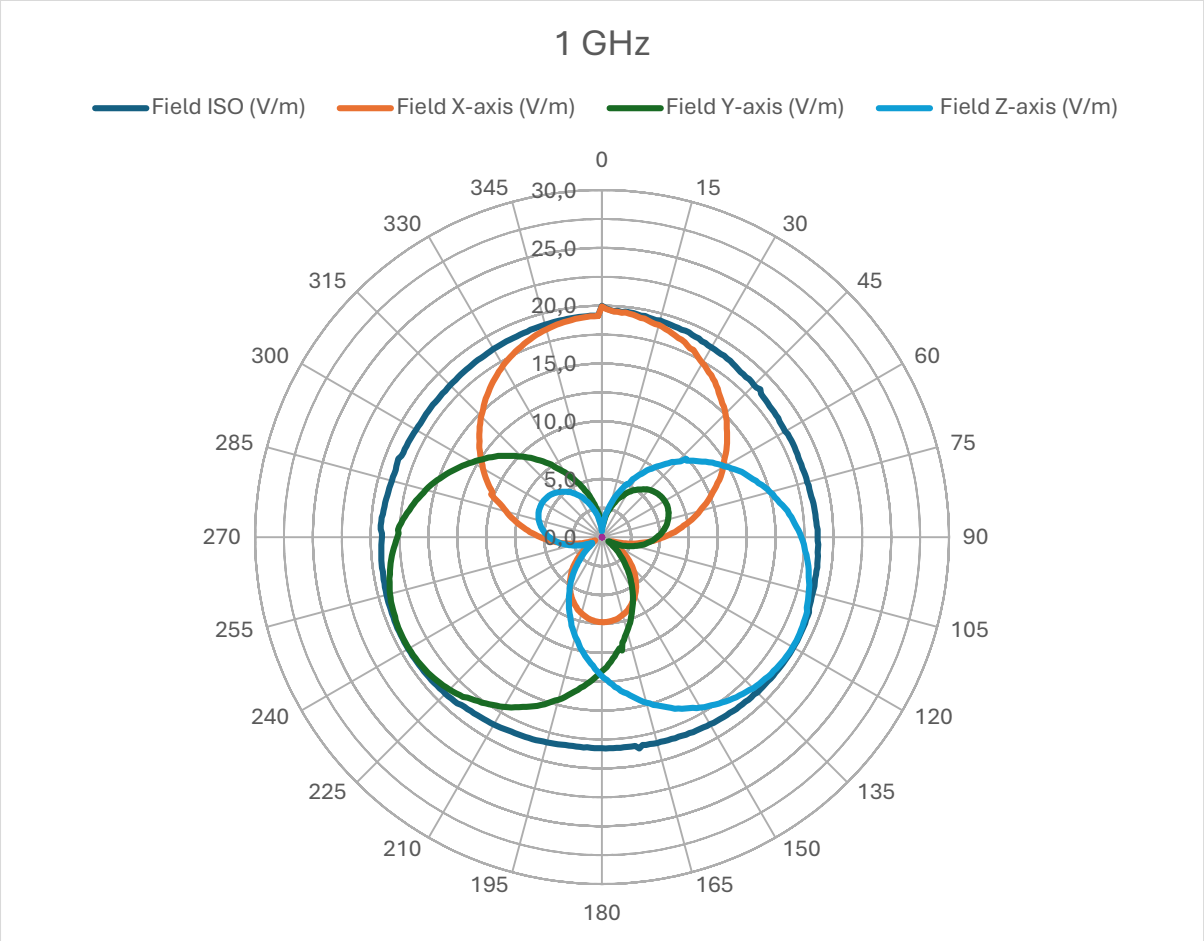

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		18.34	V/m
Maximum		19.78	V/m
Anisotropy	±	0.35	dB

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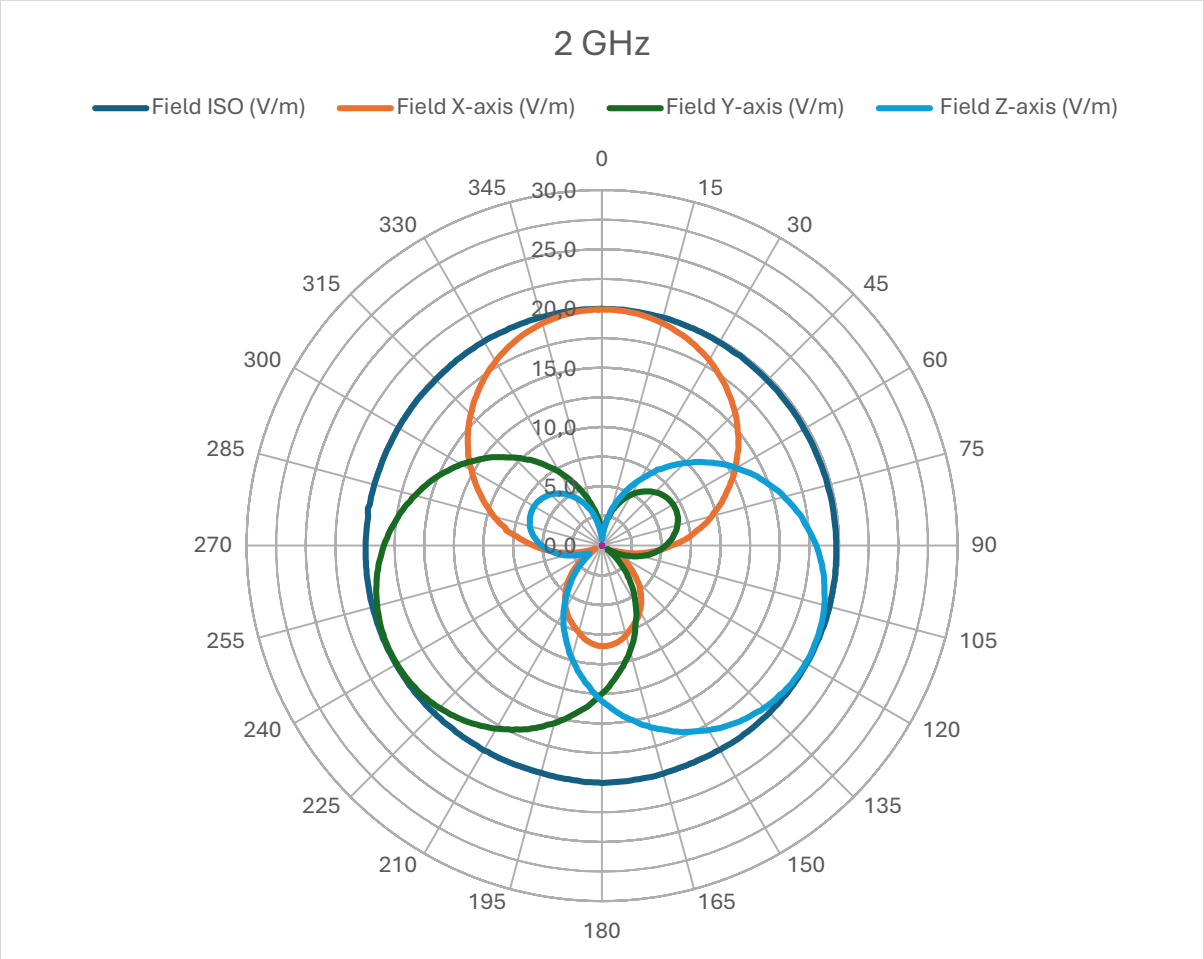

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		19.67	V/m
Maximum		20.09	V/m
Anisotropy	±	0.09	dB

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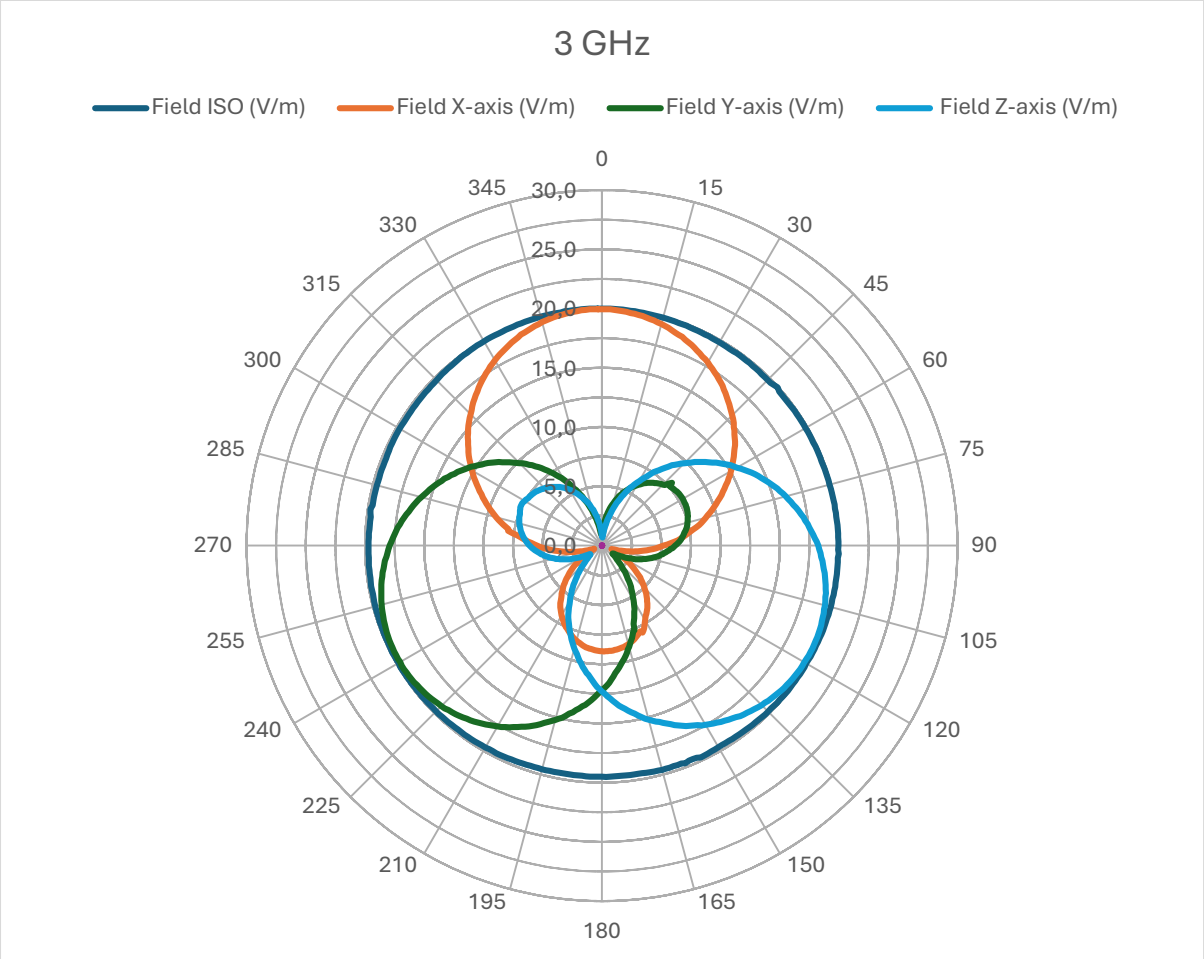

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		19.49	V/m
Maximum		20.02	V/m
Anisotropy	±	0.12	dB

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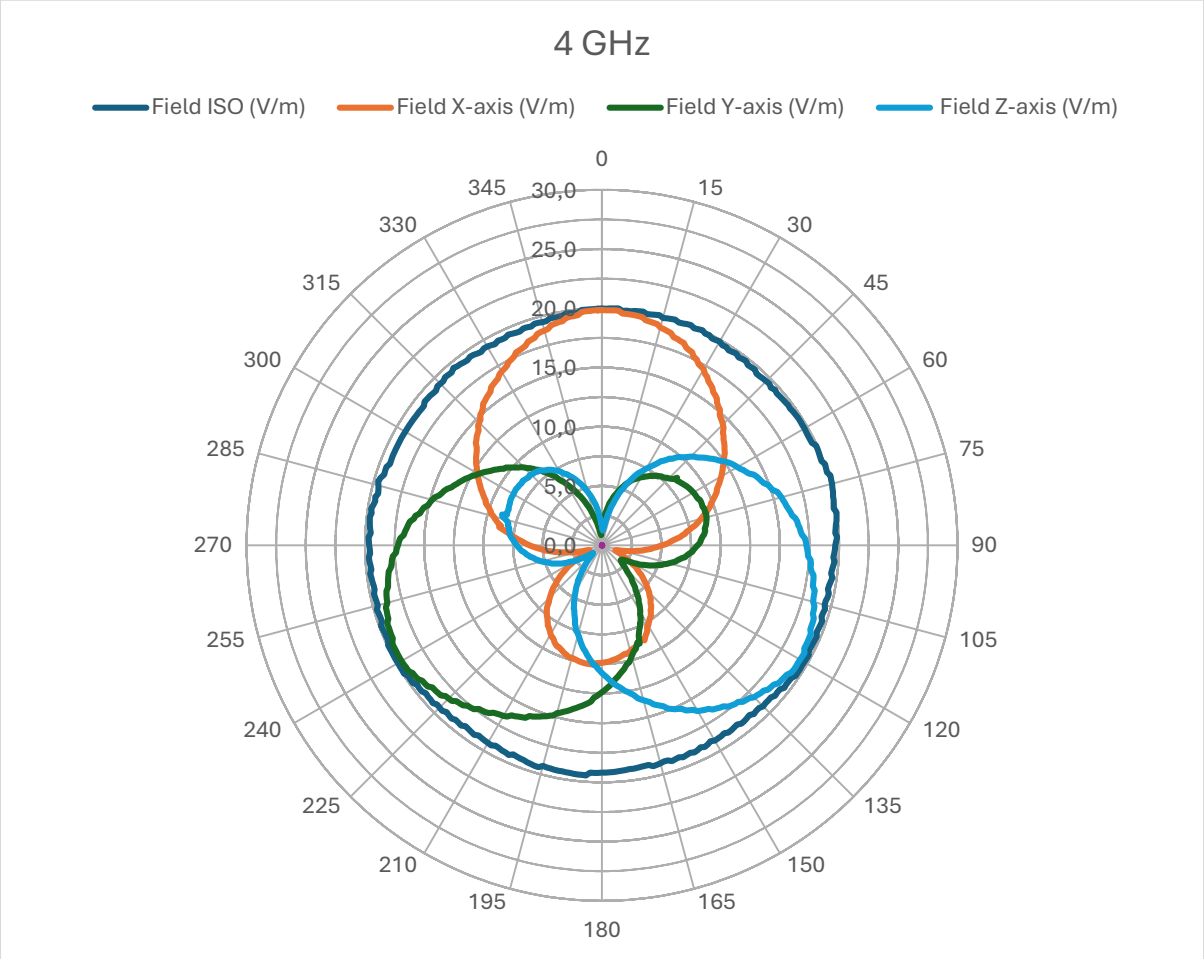

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		18.90	V/m
Maximum		20.17	V/m
Anisotropy	±	0.28	dB

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$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		17.86	V/m
Maximum		21.37	V/m
Anisotropy	±	0.78	dB

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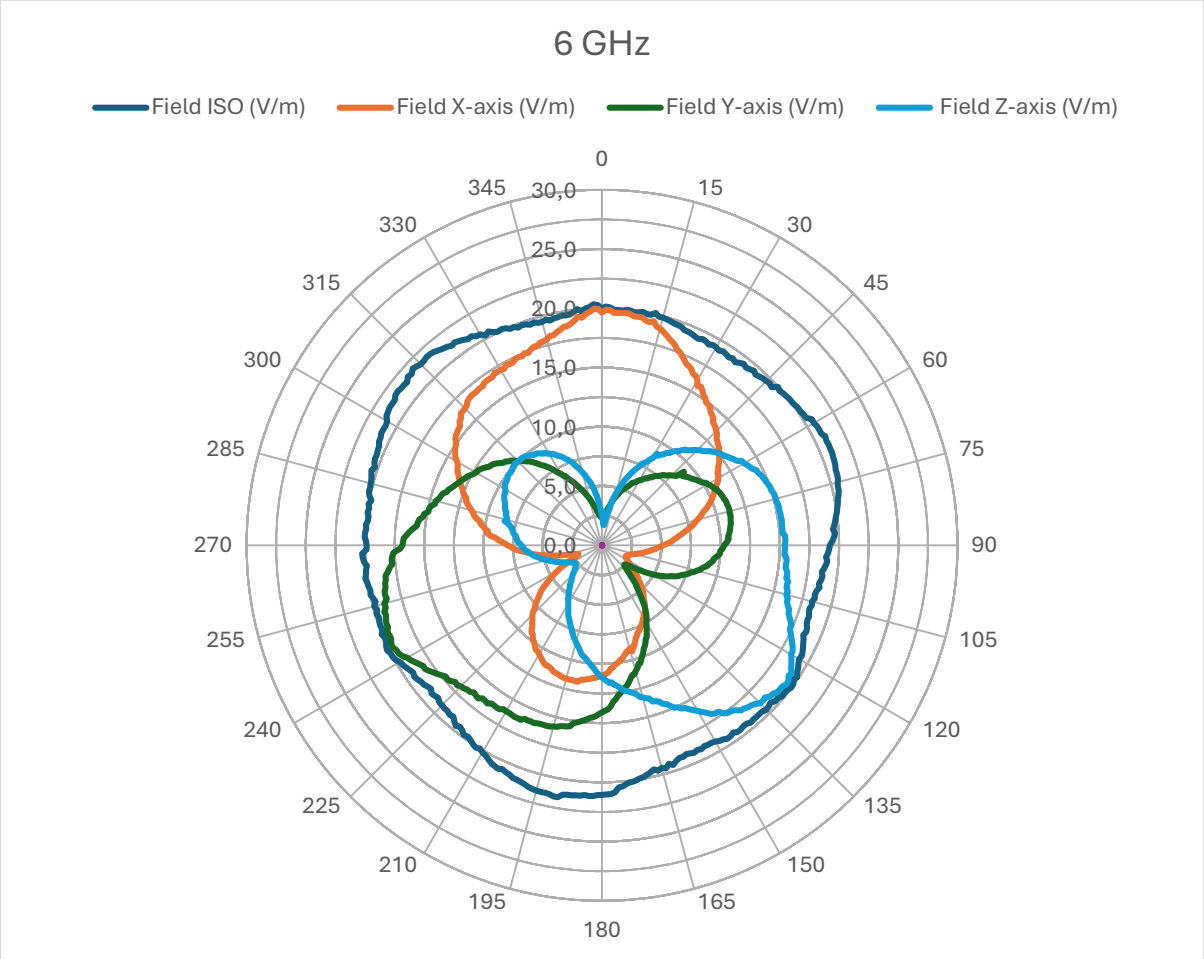

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		18.29	V/m
Maximum		21.86	V/m
Anisotropy	±	0.77	dB

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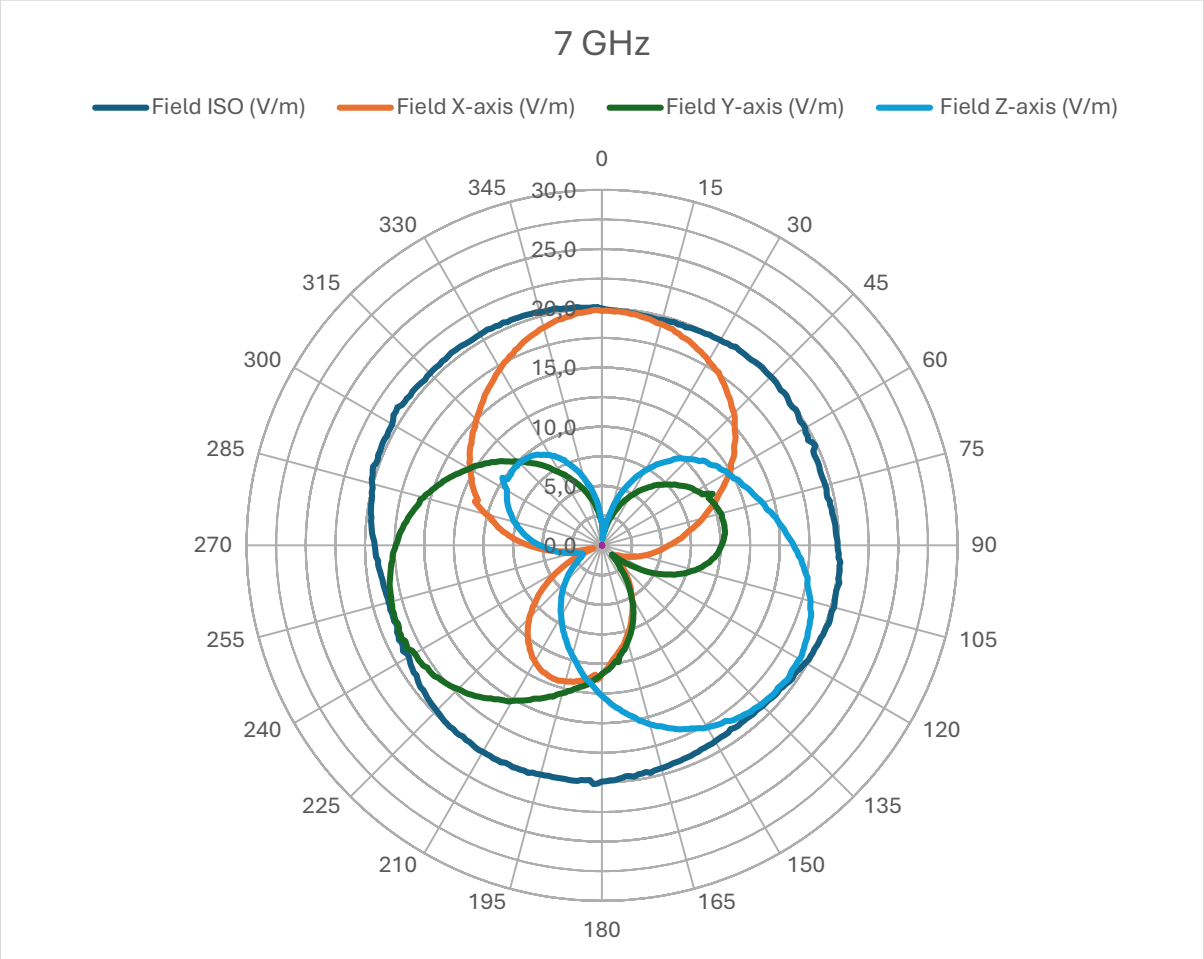

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		18.57	V/m
Maximum		20.82	V/m
Anisotropy	±	0.50	dB

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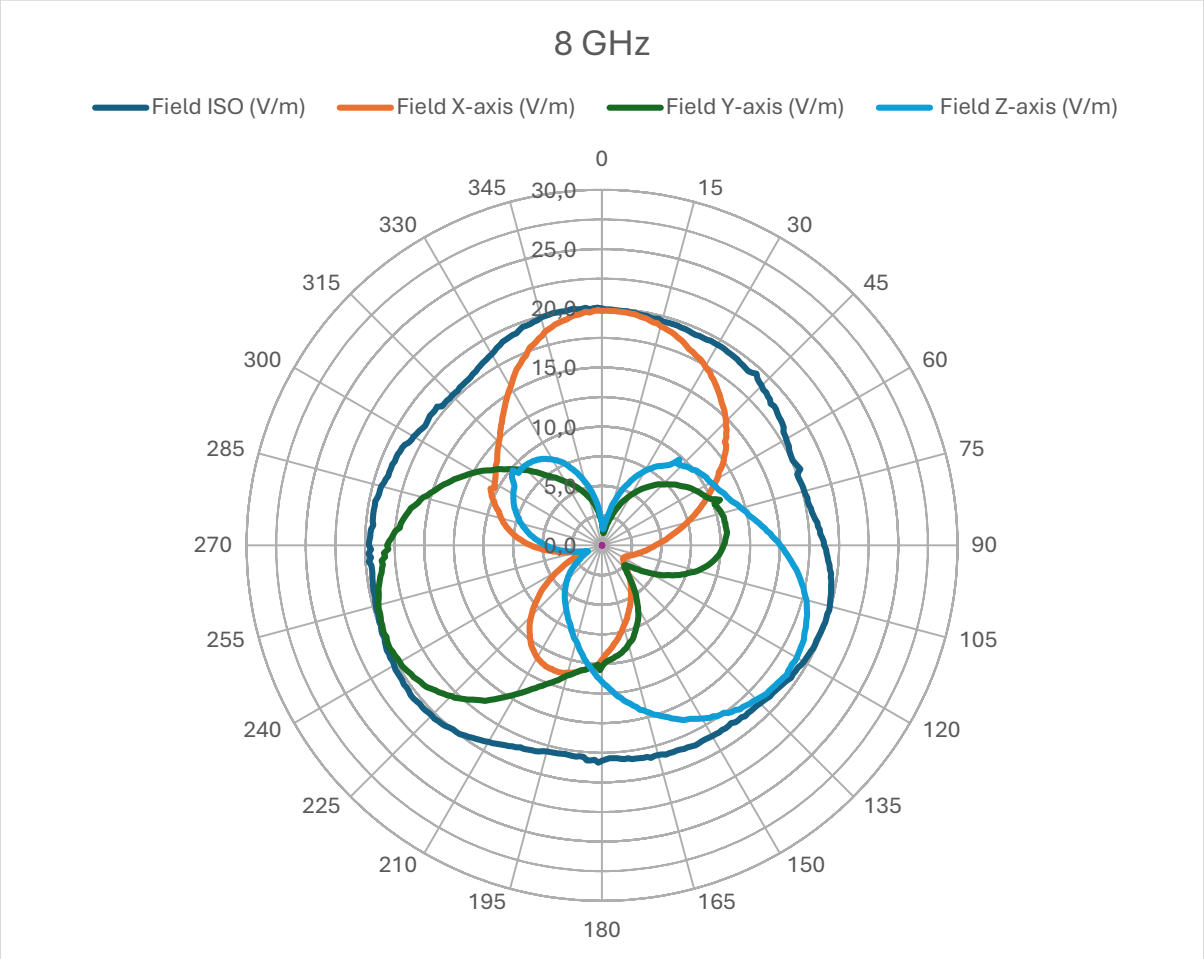

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		17.53	V/m
Maximum		20.50	V/m
Anisotropy	±	0.68	dB

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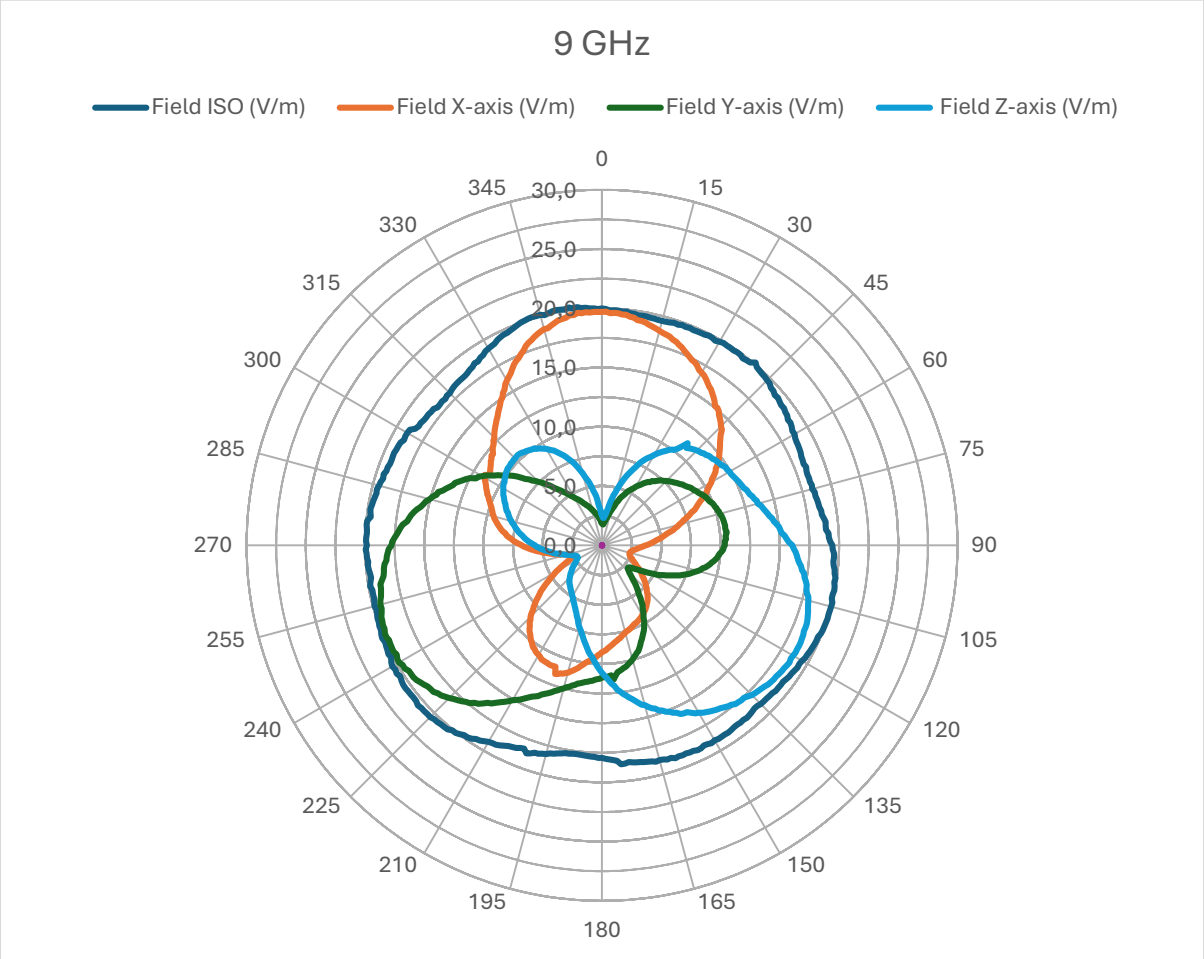

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		17.75	V/m
Maximum		20.59	V/m
Anisotropy	±	0.65	dB

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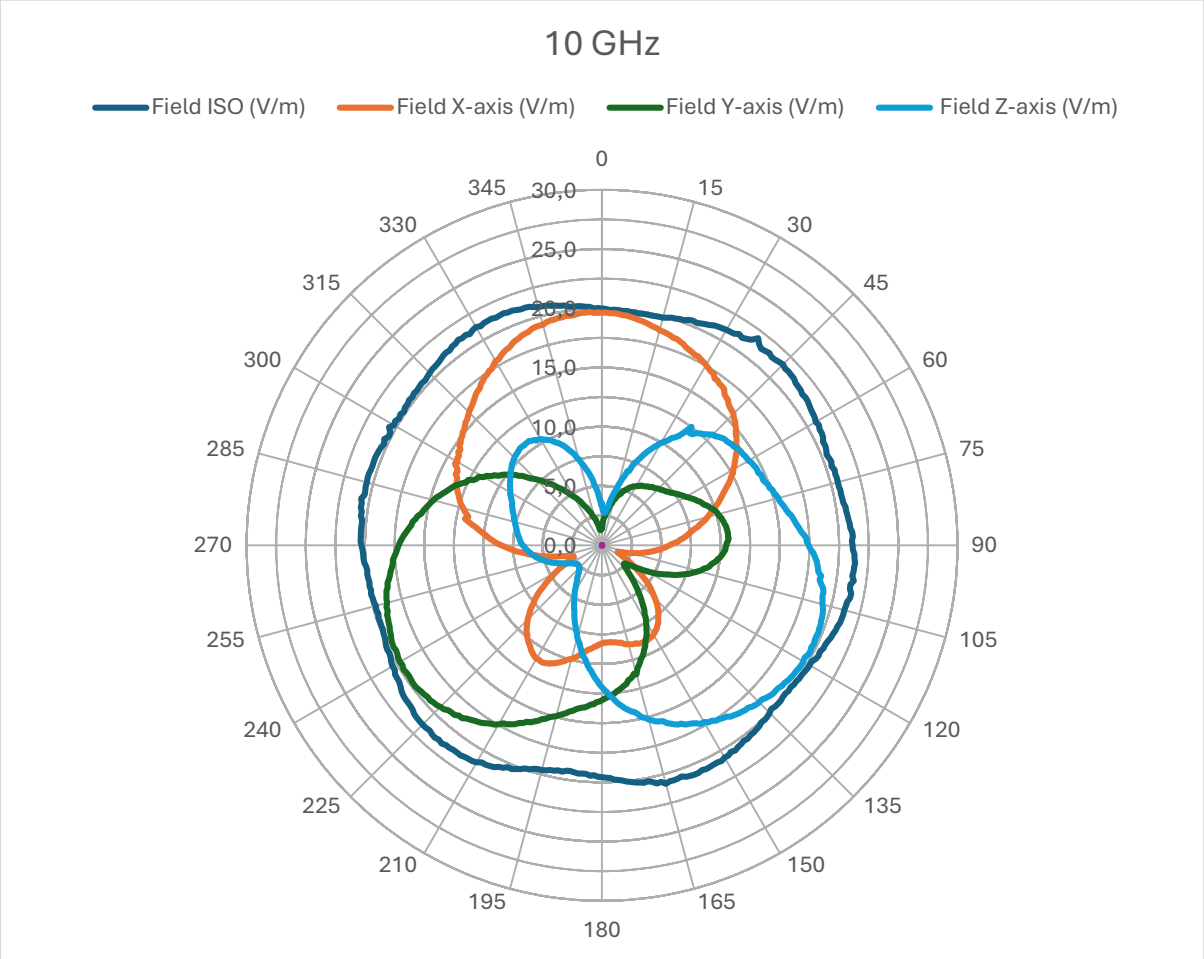

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		19.23	V/m
Maximum		21.88	V/m
Anisotropy	±	0.56	dB

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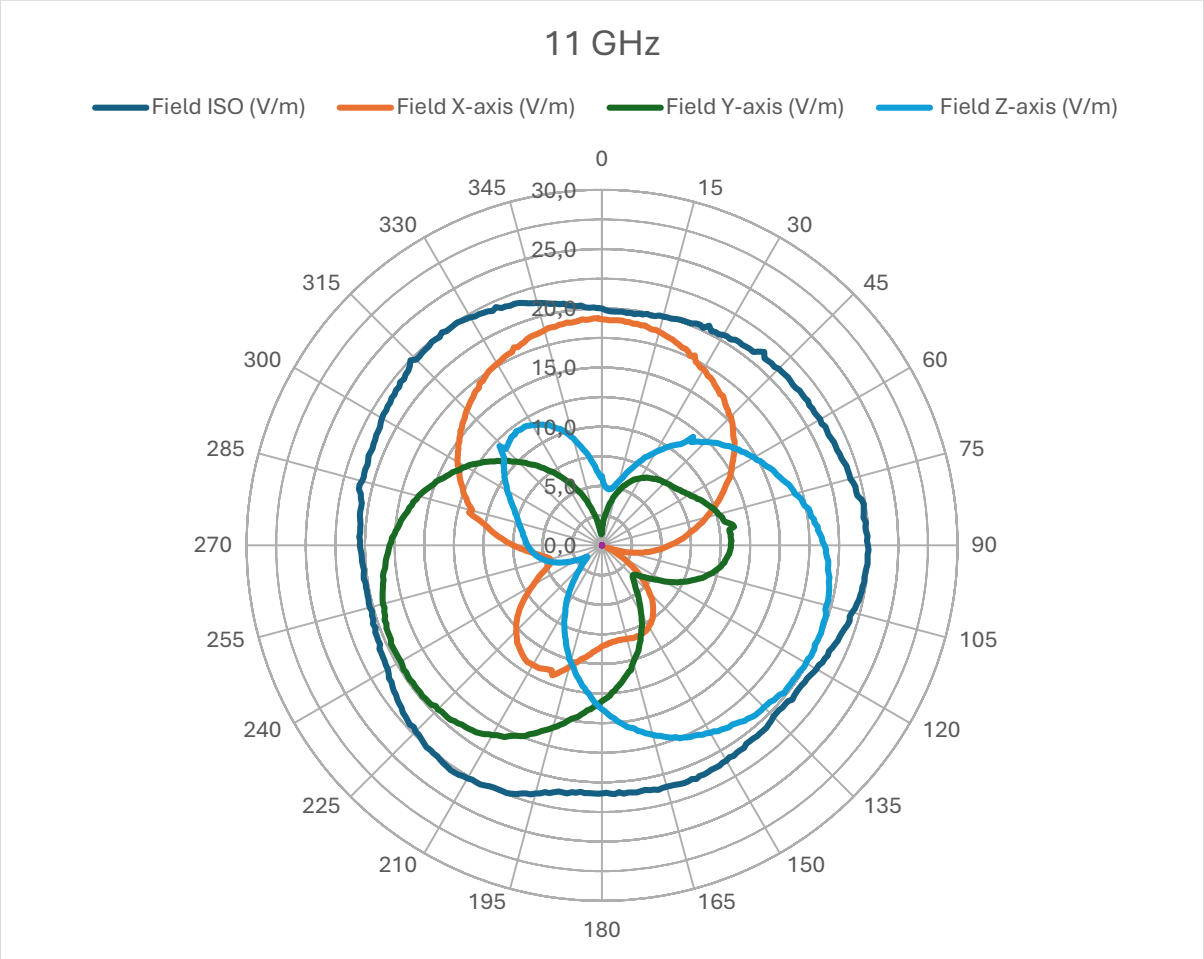

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		19.71	V/m
Maximum		22.86	V/m
Anisotropy	±	0.64	dB

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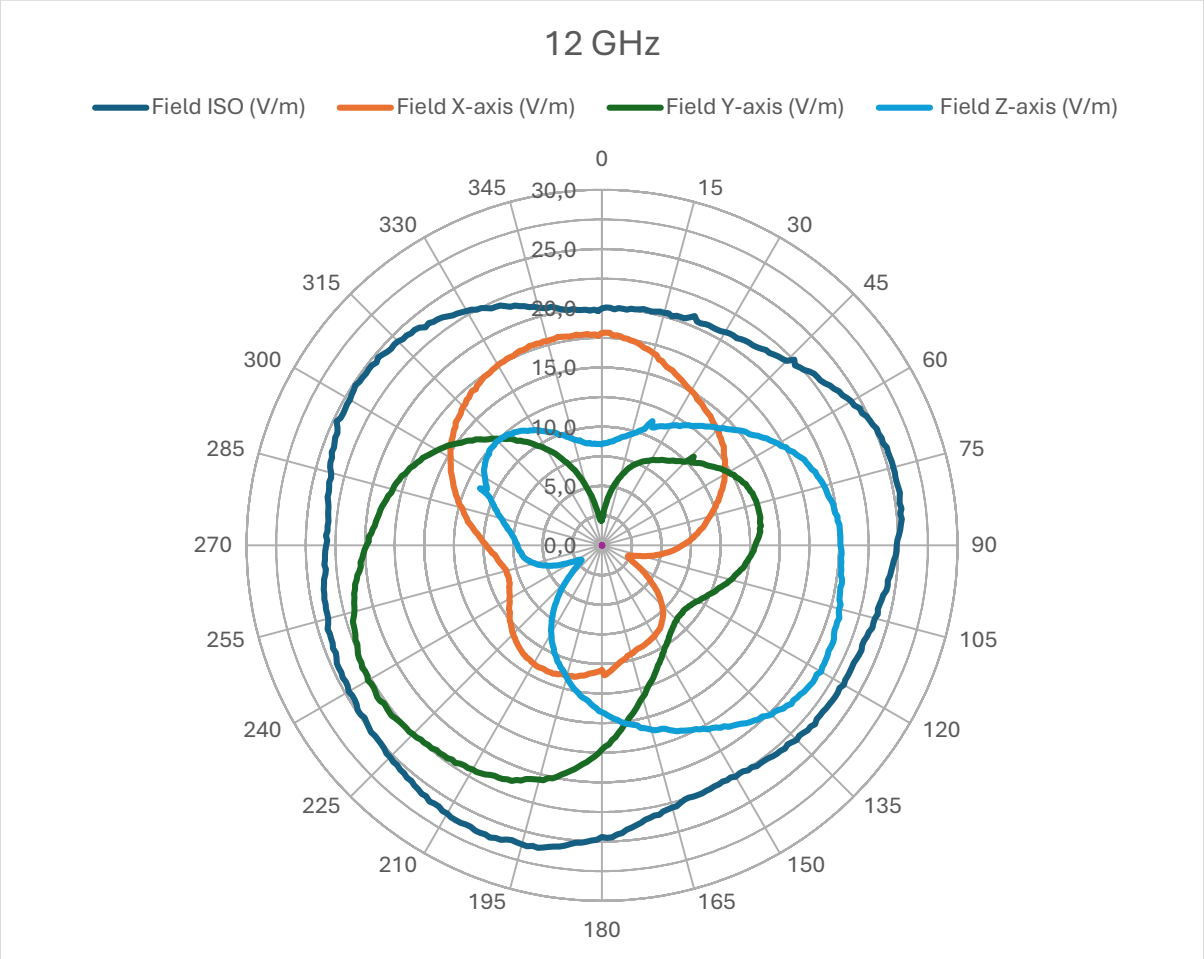

$$A = 20\log\left(\frac{S_{max}}{\sqrt{S_{max} * S_{min}}}\right)$$

Minimum		19.77	V/m
Maximum		26.42	V/m
Anisotropy	±	1.26	dB

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