

# DARE!!

D.A.R.E!! Calibrations  
Calibration services

Vijzelmolenlaan 7  
3447 GX Woerden  
The Netherlands



Tel. +31 (0)348 431 807  
Fax +31 (0)348 421 198  
www.dare.nl  
calibrations@ dare.nl

## CERTIFICATE OF CALIBRATION

**Applicant:** Zhejiang Geely Holding Group Co. Ltd.  
Weiwu Road, No. 3366  
311228 Xiaoshan Distric  
China

**Order by :** D.A.R.E!! Instruments  
Vijzelmolenlaan 3  
3447 GX Woerden

**Instrument:** E-field probe 10 kHz - 4 GHz  
manufacturer D.A.R.E!! Instruments  
type RadiSense 4  
serial number 12I00078SNO11  
asset number. 120000647

**Calibration method:** The instrument was allowed to acclimatise for at least 2 hours before any measurements were made. The calibration of frequencies to inclusive 150 MHz has been carried out in a TEM cell. From the measured power and the dimensions of the TEM cell, the E-field has been calculated. The calibration of frequencies from 200 MHz and up has been carried out in a full anechoic room. In the anechoic room a calibrated field sensor has been used. At first the power has been determined that is needed to generate an E-field of 20 V/m, as measured with the calibrated reference field sensor. Then the reference field sensor was replaced by the Device Under Test (DUT). While the same power as previously recorded was generated, the field measured by the DUT was recorded. The polarisation of the E-field is vertical. Page 20 describes the orientation of the DUT during calibration.

$$\text{Correction Factor} = \frac{\text{Applied field strength}}{\text{Measured field strength}}$$

The error (i.e. displayed value minus applied value) was compared to the specification as mentioned at page 21. These specifications are those published by D.A.R.E!! Instruments.

**Ambient conditions:** The calibration was carried out at an ambient temperature of  $(23 \pm 5)^\circ\text{C}$  and a relative humidity of  $(50 \pm 20)\%$ .

Certificate number 201205328.00

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The Raad voor Accreditatie is one of the signatories of the Multilateral Agreement of the European Co-operation for Accreditation (EA) for the mutual recognition of calibration certificates.

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced with written approval of the calibration laboratory.

This certificate is issued provided that either D.A.R.E!! Calibrations or the Raad voor Accreditatie does not assume any liability.

Dijkstra Advies, Research & EMC Consultancy B.V.  
KvK Utrecht 30138675  
Rabobank Menthor: 15.83.13.704  
IBAN: NL49RABO015313704 - SWIFT code: RABONL2U  
VAT number: NL405615468B01





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Period of calibration: 2012 November, 22 to 2012 November, 23.  
The results are listed on page 4 to 18.

*2012/11/23 => 2012.11.23*

The results of comparisons with specifications are shown in the column 'Remarks'.  
The measured value including measurement uncertainty ( $k=2$ ) is:

No Remark:  
When smaller than the specified limit values.

Remark: 'border value'  
When equal to or larger than the specified limit values by no more than the uncertainty.

Remark: 'out of specification'  
When larger than the specified limit values.

All reported results were taken out of single observations.  
No adjustments have been made to the instrument.

Uncertainty: The reported expanded 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%. The standard uncertainty of measurement has been determined in accordance with EA publication EA-4/02.

The uncertainties refer to the measured values only with no account being taken of the ability of the instruments under test to maintain their calibration.

Traceability: The measurements have been executed using standards for which the traceability to (inter)national standards has been demonstrated towards the RvA.

Description	Identification	Certificate number	Last calibration date
Signal Generator	ID 1265	RvA K063/201201042.00	16 November 2012
Power meter	ID 1247	RvA K063/201204890.00	16 November 2012
Power head	ID 1248	RvA K063/201204890.00	16 November 2012
RF Amplifier	ID 7387	D.A.R.E!! Calibrations/201201121.00	14 May 2012
Coupler	ID 7265	RvA K063/201200164.00	10 May 2012
TEM cell	ID 1073	-/No cal required	-
Attenuator 30dB	ID 1313	RvA K063/201201669.00	18 July 2012
Termination 50 ohms, N-type	ID 1545	RvA K063/201201670.00	18 July 2012
RadiCentre	ID 7323	-/No cal required	-

Description	Identification	Certificate number	Last calibration date
Signal Generator	ID 3049	RvA K063/201200738.02	31 August 2012
Signal Generator	ID 7340	RvA K063/201200148.00	13 April 2012
RF Amplifier	ID 1003	D.A.R.E!! Calibrations/201007955.00	13 October 2010
RF Amplifier	ID 1163	D.A.R.E!!	30 August 2010

Certificate number 201205328.00

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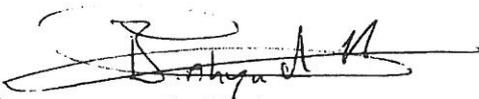
<u>Description</u>	<u>Identification</u>	<u>Certificate number</u>	<u>Last calibration date</u>
RF Amplifier	ID 1164	Calibrations/201007628.00	-
RF Amplifier	ID 1347	-/No cal required D.A.R.E!!	10 May 2012
Power meter	ID 1096	Calibrations/201200367.00 UKAS 0147/1-3072389478-1	3 May 2011
Power head	ID 1176	VSL/3360251.01	17 June 2011
Attenuator 30dB	ID 7193	RvA K063/201200743.00	22 March 2012
Attenuator 20dB	ID 7196	RvA K063/201200746.00	22 March 2012
Coupler	ID 1005	RvA K063/201200381.00	10 May 2012
Coupler	ID 1126	RvA K063/201201662.00	27 September 2012
Antenna Horn	ID 1218	-/No cal required	-
Antenna Horn	ID 1169	RvA K063/201201894.00	5 October 2012
Antenna Horn	ID 1166	-/No cal required	-
Antenna Horn	ID 7316	-/No cal required	-
Antenna Horn	ID 7317	-/No cal required	-
Antenna Horn	ID 7318	-/No cal required	-
Antenna Horn	ID 7319	-/No cal required	-
Antenna Horn	ID 7320	-/No cal required	-
Antenna Horn	ID 7293	-/No cal required	-
Antenna Horn	ID 7294	-/No cal required	-
Field sensor	ID 1262	NPL/2012070253-1	6 August 2012
Field sensor	ID 7273	NPL/2012080362-1	6 September 2012
Anechoic Room	ID 7092	-/No cal required	-
Antenna Horn	ID 1156	RvA K063/201204836.00	29 October 2012
Antenna Horn	ID 1165	-/No cal required	-

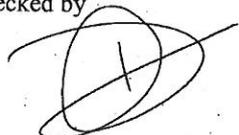
Date

Engineer

Checked by

2012 November, 23

  
B. Ahyud  
Calibration Engineer

  
D. van der Vlugt  
Director



**E-field Sensor linearity (X-axis: monopole in the same plane as E-field)**

Frequency: 50 MHz, Septum height: 0,45 m

Range: range less

APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	LINEARITY ± UNCERTAINTY [dB]	REMARKS REGARDING SPECIFICATIONS
1,02	0,96	(0,5 ± 2,8) dB	
2,02	1,95	(0,3 ± 1,5) dB	
4,04	4,01	(0,0 ± 0,8) dB	
8,05	8,01	(0,0 ± 0,5) dB	
15,9	15,9	0 dB (Reference)	
32,1	32,0	(0,02 ± 0,23) dB	
64,4	64,9	(-0,09 ± 0,21) dB	
99,9	100,2	(-0,05 ± 0,21) dB	

**E-field Sensor linearity (Y-axis: monopole in the same plane as E-field)**

Frequency: 50 MHz, Septum height: 0,45 m

Range: range less

APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	LINEARITY ± UNCERTAINTY [dB]	REMARKS REGARDING SPECIFICATIONS
1,01	0,93	(0,7 ± 2,9) dB	
2,02	1,98	(0,2 ± 1,5) dB	
3,99	3,97	(0,0 ± 0,8) dB	
8,05	8,07	(0,0 ± 0,5) dB	
16,1	16,1	0 dB (Reference)	
32,1	32,2	(-0,04 ± 0,22) dB	
64,3	64,5	(-0,04 ± 0,21) dB	
99,7	100,8	(-0,11 ± 0,21) dB	

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**E-field Sensor linearity (Z-axis: monopole in the same plane as E-field)**

Frequency: 50 MHz, Septum height: 0,45 m

Range: range less

APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	LINEARITY ± UNCERTAINTY [dB]	REMARKS REGARDING SPECIFICATIONS
1,01	0,99	(0,1 ± 2,7) dB	
2,01	1,97	(0,2 ± 1,5) dB	
4,03	4,04	(0,0 ± 0,8) dB	
8,03	8,06	(0,0 ± 0,5) dB	
16,1	16,1	0 dB (Reference)	
32,1	32,1	(0,00 ± 0,22) dB	
64,2	64,8	(-0,07 ± 0,21) dB	
100,7	101,6	(-0,08 ± 0,21) dB	



**E-field Sensor frequency response**

Frequency range: 10 kHz – 150 MHz

Probe orientation: X-axis monopole in the same plane as E-field

Septum height: 0,45 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
0,01	19,9	17,3	1,15 ± 0,11	
0,02	19,6	18,6	1,06 ± 0,10	
0,03	19,5	19,0	1,02 ± 0,09	
0,04	19,8	19,5	1,01 ± 0,09	
0,05	19,7	19,5	1,01 ± 0,09	
0,06	20,0	19,8	1,01 ± 0,09	
0,07	19,9	19,8	1,01 ± 0,09	
0,08	19,9	19,8	1,01 ± 0,09	
0,09	19,9	19,9	1,00 ± 0,09	
0,1	19,9	19,9	1,00 ± 0,09	
0,2	20,0	20,1	1,00 ± 0,09	
0,3	20,2	20,4	0,99 ± 0,09	
0,4	20,1	20,4	0,99 ± 0,09	
0,5	20,2	20,6	0,98 ± 0,09	
0,6	20,2	20,6	0,98 ± 0,09	
0,7	20,1	20,6	0,98 ± 0,09	
0,8	20,0	20,5	0,98 ± 0,09	
0,9	20,2	20,7	0,97 ± 0,09	
1	20,1	20,6	0,97 ± 0,09	

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FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
2	20,2	20,8	0,97 ± 0,09	
3	20,1	20,5	0,98 ± 0,09	
4	20,2	20,3	1,00 ± 0,09	
5	20,0	20,1	1,00 ± 0,09	
6	20,0	20,2	0,99 ± 0,09	
7	20,0	20,4	0,98 ± 0,09	
8	20,1	20,5	0,98 ± 0,09	
9	20,0	20,5	0,98 ± 0,09	
10	20,1	20,6	0,98 ± 0,09	
20	20,1	20,3	0,99 ± 0,09	
30	20,2	20,2	1,00 ± 0,09	
40	20,1	20,2	1,00 ± 0,09	
50	20,0	20,0	1,00 ± 0,11	
60	20,1	20,1	1,00 ± 0,13	
70	20,1	19,9	1,01 ± 0,15	
80	20,2	19,6	1,03 ± 0,16	
90	20,0	19,2	1,04 ± 0,17	
100	20,0	19,5	1,02 ± 0,16	
150	20,0	19,3	1,03 ± 0,17	

Certificate number 201205328.00

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Dijkstra Advies, Research & EMC Consultancy B.V.  
KVK Utrecht 30151675  
Rekeningnummer: 15.83.13.704  
IBAN: NL 19RABO0158313704 - SWIFT code: RABOIN21  
VAT number: NL 805613438 B01



**E-field Sensor frequency response**

Frequency range: 200 MHz – 1000 MHz

Probe orientation: X-axis monopole in the same plane as E-field

Antenna distance: 2,0 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
200	19,9	20,3	0,98 ± 0,15	
250	20,7	20,3	1,02 ± 0,15	
300	19,7	20,2	0,98 ± 0,15	
350	20,1	20,3	0,99 ± 0,15	
400	19,9	20,2	0,98 ± 0,15	
450	19,3	20,0	0,97 ± 0,15	
500	19,4	20,1	0,97 ± 0,15	
550	18,8	20,1	0,94 ± 0,15	
600	18,7	20,0	0,94 ± 0,15	
650	19,2	20,0	0,96 ± 0,15	
700	18,9	20,0	0,95 ± 0,15	
750	18,5	20,1	0,92 ± 0,15	
800	17,5	19,9	0,88 ± 0,15	
850	16,8	19,8	0,85 ± 0,15	
900	17,0	19,9	0,85 ± 0,15	
950	17,7	20,1	0,88 ± 0,15	
1000	17,4	20,0	0,87 ± 0,15	



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**E-field Sensor frequency response**

Frequency range: 1200 MHz – 4000 MHz

Probe orientation: X-axis monopole in the same plane as E-field

Antenna distance: 1,0 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
1200	15,5	19,6	0,79 ± 0,15	
1400	14,7	19,7	0,74 ± 0,15	
1600	13,3	19,3	0,69 ± 0,15	
1800	13,1	19,4	0,67 ± 0,15	
2000	13,4	19,9	0,67 ± 0,15	
2200	14,2	19,5	0,73 ± 0,15	
2400	15,8	19,9	0,79 ± 0,15	
2600	16,7	19,5	0,85 ± 0,15	
2800	17,5	16,6	1,05 ± 0,15	
3000	18,9	20,2	0,94 ± 0,15	
3200	21,5	18,8	1,14 ± 0,15	
3400	20,8	18,4	1,13 ± 0,15	
3600	19,3	18,1	1,07 ± 0,15	
3800	17,5	16,6	1,05 ± 0,15	
4000	15,8	20,6	0,76 ± 0,16	



**E-field Sensor frequency response**

Frequency range: 10 kHz – 150 MHz

Probe orientation: Y-axis monopole in the same plane as E-field

Septum height: 0,45 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
0,01	19,7	17,3	1,14 ± 0,10	
0,02	19,6	18,6	1,05 ± 0,10	
0,03	19,7	19,4	1,02 ± 0,09	
0,04	19,8	19,6	1,01 ± 0,09	
0,05	19,7	19,5	1,01 ± 0,09	
0,06	20,0	19,9	1,00 ± 0,09	
0,07	19,9	19,9	1,00 ± 0,09	
0,08	19,9	19,9	1,00 ± 0,09	
0,09	19,9	19,9	1,00 ± 0,09	
0,1	19,9	20,0	1,00 ± 0,09	
0,2	20,0	20,2	0,99 ± 0,09	
0,3	20,2	20,5	0,98 ± 0,09	
0,4	20,1	20,5	0,98 ± 0,09	
0,5	20,2	20,7	0,98 ± 0,09	
0,6	20,2	20,7	0,97 ± 0,09	
0,7	20,1	20,6	0,98 ± 0,09	
0,8	20,3	20,8	0,97 ± 0,09	
0,9	20,0	20,6	0,97 ± 0,09	
1	20,1	20,7	0,97 ± 0,09	

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FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
2	20,2	20,8	0,97 ± 0,09	
3	20,0	20,6	0,97 ± 0,09	
4	20,2	20,3	1,00 ± 0,09	
5	20,0	20,1	0,99 ± 0,09	
6	20,0	20,3	0,98 ± 0,09	
7	20,0	20,4	0,98 ± 0,09	
8	20,1	20,5	0,98 ± 0,09	
9	20,0	20,5	0,98 ± 0,09	
10	20,1	20,6	0,98 ± 0,09	
20	20,0	20,4	0,98 ± 0,09	
30	20,2	20,2	1,00 ± 0,09	
40	20,2	20,3	0,99 ± 0,09	
50	20,0	20,0	1,00 ± 0,11	
60	20,1	20,1	1,00 ± 0,13	
70	20,1	20,0	1,00 ± 0,15	
80	20,1	19,7	1,02 ± 0,16	
90	20,0	19,4	1,03 ± 0,16	
100	20,0	19,6	1,02 ± 0,16	
150	20,0	19,4	1,03 ± 0,16	



**E-field Sensor frequency response**

Frequency range: 200 MHz – 1000 MHz

Probe orientation: Y-axis monopole in the same plane as E-field

Antenna distance: 2,0 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
200	19,8	20,1	0,99 ± 0,15	
250	20,6	20,4	1,01 ± 0,15	
300	19,8	20,3	0,98 ± 0,15	
350	20,0	20,3	0,99 ± 0,15	
400	19,7	20,1	0,98 ± 0,15	
450	19,4	20,2	0,96 ± 0,15	
500	19,4	20,1	0,96 ± 0,15	
550	18,7	20,1	0,93 ± 0,15	
600	18,6	19,9	0,94 ± 0,15	
650	19,1	20,0	0,96 ± 0,15	
700	19,0	20,1	0,95 ± 0,15	
750	18,4	20,1	0,91 ± 0,15	
800	17,4	20,0	0,87 ± 0,15	
850	16,9	20,1	0,84 ± 0,15	
900	16,9	19,9	0,85 ± 0,15	
950	17,6	20,2	0,87 ± 0,15	
1000	17,3	20,0	0,86 ± 0,15	



**E-field Sensor frequency response**

Frequency range: 1200 MHz – 4000 MHz

Probe orientation: Y-axis monopole in the same plane as E-field

Antenna distance: 1,0 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
1200	15,4	19,5	0,79 ± 0,15	
1400	14,7	19,7	0,74 ± 0,15	
1600	13,4	19,1	0,70 ± 0,15	
1800	13,1	19,1	0,68 ± 0,15	
2000	13,4	19,1	0,70 ± 0,15	
2200	14,2	18,5	0,77 ± 0,15	
2400	15,6	17,9	0,87 ± 0,15	
2600	16,7	17,4	0,96 ± 0,15	
2800	17,5	13,9	1,26 ± 0,15	
3000	18,9	17,2	1,10 ± 0,15	
3200	21,5	16,0	1,34 ± 0,15	
3400	20,8	16,0	1,30 ± 0,15	
3600	19,3	16,8	1,15 ± 0,15	
3800	17,5	16,1	1,09 ± 0,15	
4000	15,8	16,2	0,97 ± 0,16	



**E-field Sensor frequency response**

Frequency range: 10 kHz – 150 MHz

Probe orientation: Z-axis monopole in the same plane as E-field

Septum height: 0,45 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
0,01	19,7	17,5	1,12 ± 0,10	
0,02	19,6	18,8	1,04 ± 0,10	
0,03	19,7	19,5	1,01 ± 0,09	
0,04	19,8	19,7	1,00 ± 0,09	
0,05	19,7	19,6	1,00 ± 0,09	
0,06	19,9	19,9	1,00 ± 0,09	
0,07	19,9	19,9	1,00 ± 0,09	
0,08	19,9	20,0	1,00 ± 0,09	
0,09	19,9	20,0	0,99 ± 0,09	
0,1	19,9	20,0	1,00 ± 0,09	
0,2	20,0	20,2	0,99 ± 0,09	
0,3	20,2	20,5	0,98 ± 0,09	
0,4	20,1	20,5	0,98 ± 0,09	
0,5	20,2	20,7	0,98 ± 0,09	
0,6	20,1	20,7	0,97 ± 0,09	
0,7	20,1	20,7	0,97 ± 0,09	
0,8	20,3	20,9	0,97 ± 0,09	
0,9	20,2	20,8	0,97 ± 0,09	
1	20,3	21,0	0,97 ± 0,09	

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2	20,2	20,9	0,96 ± 0,09	
3	20,0	20,6	0,97 ± 0,09	
4	20,2	20,4	0,99 ± 0,09	
5	20,0	20,2	0,99 ± 0,09	
6	20,0	20,3	0,98 ± 0,09	
7	20,0	20,5	0,97 ± 0,09	
8	20,0	20,6	0,97 ± 0,09	
9	20,0	20,6	0,97 ± 0,09	
10	20,1	20,6	0,98 ± 0,09	
20	20,1	20,4	0,98 ± 0,09	
30	20,1	20,3	0,99 ± 0,09	
40	20,1	20,2	1,00 ± 0,09	
50	20,0	20,0	1,00 ± 0,11	
60	20,1	20,1	1,00 ± 0,13	
70	20,1	20,0	1,00 ± 0,15	
80	20,1	19,7	1,02 ± 0,16	
90	20,0	19,3	1,04 ± 0,17	
100	20,2	19,8	1,02 ± 0,16	
150	19,9	19,3	1,03 ± 0,17	



**E-field Sensor frequency response**

Frequency range: 200 MHz – 1000 MHz

Probe orientation: Z-axis monopole in the same plane as E-field

Antenna distance: 2,0 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
200	19,8	20,0	0,99 ± 0,15	
250	20,6	20,0	1,03 ± 0,15	
300	19,8	20,0	0,99 ± 0,15	
350	19,9	19,9	1,00 ± 0,15	
400	19,7	19,7	1,00 ± 0,15	
450	19,4	19,9	0,97 ± 0,15	
500	19,3	19,7	0,98 ± 0,15	
550	18,7	19,8	0,94 ± 0,15	
600	18,8	19,8	0,95 ± 0,15	
650	19,2	19,8	0,97 ± 0,15	
700	19,0	19,7	0,96 ± 0,15	
750	18,3	19,7	0,93 ± 0,15	
800	17,6	19,7	0,89 ± 0,15	
850	16,9	19,6	0,86 ± 0,15	
900	17,0	19,7	0,86 ± 0,15	
950	17,5	19,7	0,89 ± 0,15	
1000	17,4	19,8	0,88 ± 0,15	

**E-field Sensor frequency response**

Frequency range: 1200 MHz – 4000 MHz

Probe orientation: Z-axis monopole in the same plane as E-field

Antenna distance: 1,0 m

Range: range less

FREQUENCY [MHz]	APPLIED FIELD [V/m]	MEASURED FIELD [V/m]	CORRECTION FACTOR ± UNCERTAINTY	REMARKS REGARDING SPECIFICATIONS
1200	15,6	19,4	0,80 ± 0,15	
1400	14,7	19,5	0,75 ± 0,15	
1600	13,3	18,9	0,71 ± 0,15	
1800	13,1	19,2	0,68 ± 0,15	
2000	13,3	19,2	0,69 ± 0,15	
2200	14,2	18,8	0,76 ± 0,15	
2400	15,6	18,6	0,84 ± 0,15	
2600	16,7	18,1	0,92 ± 0,15	
2800	17,5	15,3	1,14 ± 0,15	
3000	18,9	18,2	1,04 ± 0,15	
3200	21,5	16,8	1,28 ± 0,15	
3400	20,8	16,5	1,26 ± 0,15	
3600	19,3	16,2	1,19 ± 0,15	
3800	17,5	14,0	1,25 ± 0,15	
4000	15,7	16,3	0,97 ± 0,16	



D.A.R.E!! Calibrations  
Calibration services

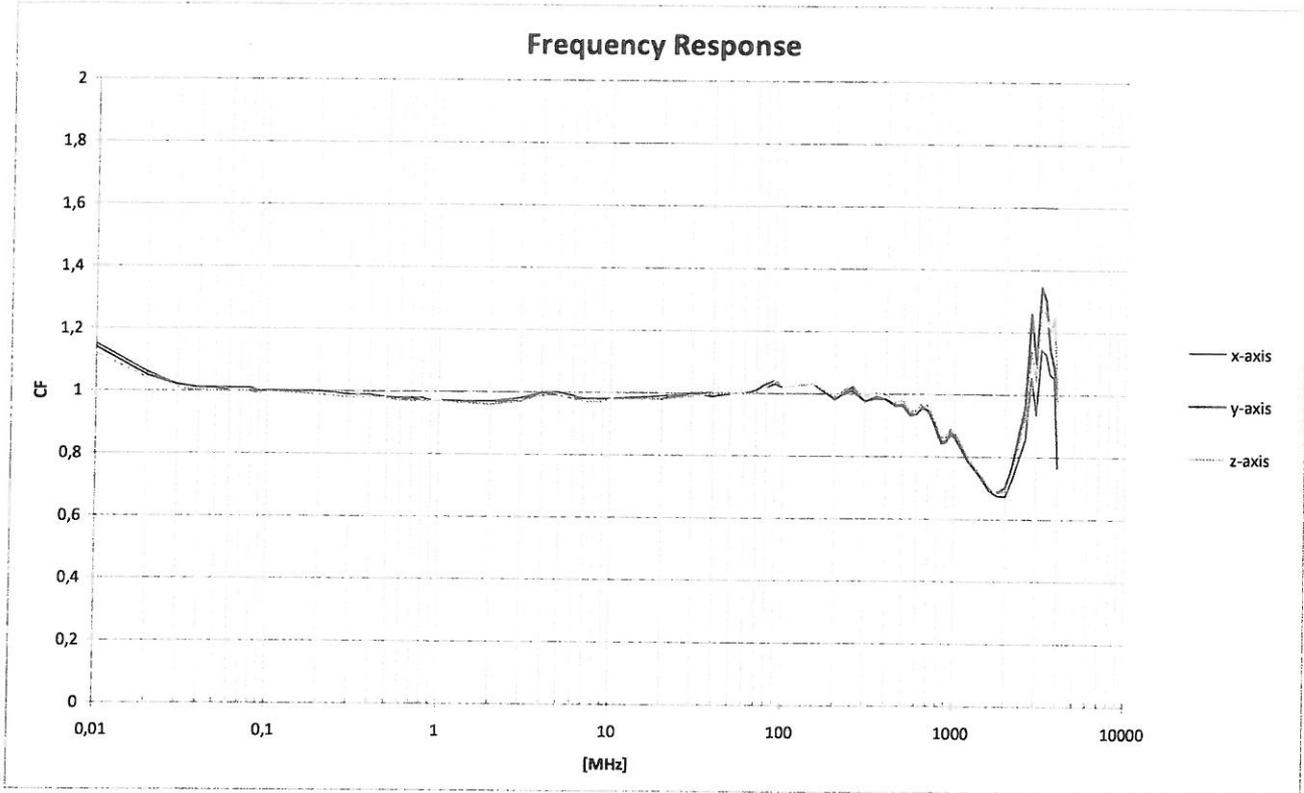
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Fax +31 (0)348 421 198  
www.dare.nl  
calibrations@dare.nl

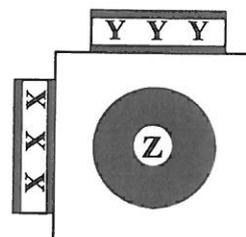
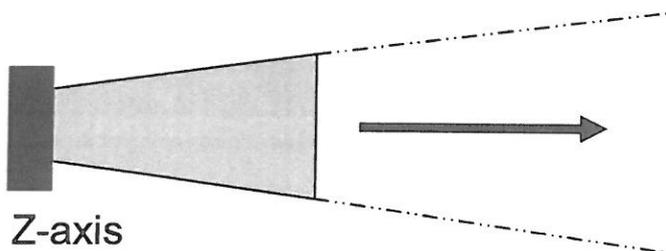
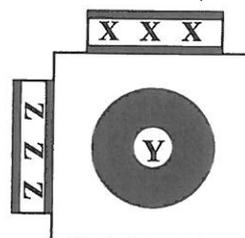
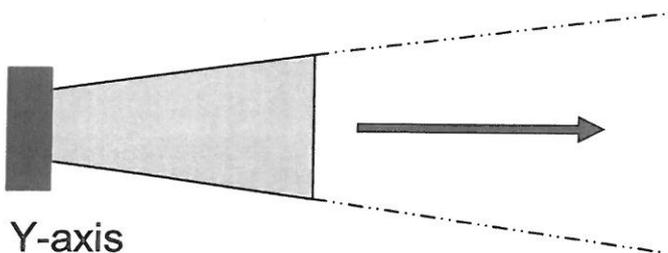
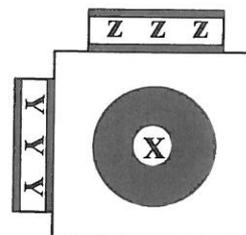
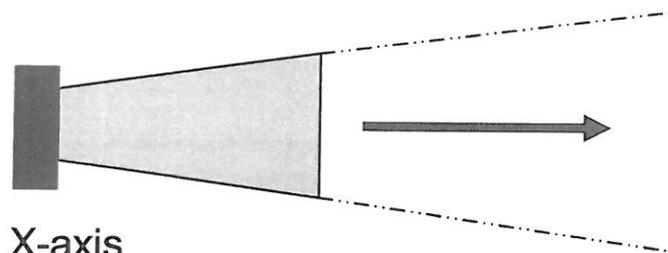
**E-field Sensor isotropy**  
Applied field: 20 V/m

FREQUENCY [MHz]	MEASURED FIELD X-direction [V/m]	MEASURED FIELD Y-direction [V/m]	MEASURED FIELD Z-direction [V/m]	ANISOTROPY ± UNCERTAINTY [dB]	REMARKS REGARDING SPECIFICATIONS
0,1	20,0	20,0	20,0	0,0 ± 1,2	
1	20,6	20,6	20,6	0,0 ± 1,2	
10	20,4	20,4	20,4	0,0 ± 1,2	
100	19,6	19,6	19,6	0,0 ± 1,4	
1000	23,0	23,3	22,7	0,1 ± 1,2	





## Top View



**Note: E-Field polarization: vertical**

# DARE!!

## D.A.R.E!! Calibrations Calibration services

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### SPECIFICATIONS

RSS1004A

#### Linearity:

1 V/m to 100 V/m

0,5 dB  $\pm$  0,5 V/m

#### Frequency response:

10 kHz to 10 MHz

$\pm$  1,5 dB

10 MHz to 4 GHz

$\pm$  3,0 dB

#### Rotational symmetry:

@ 1 GHz

$< \pm$  0,25 dB

