SGS

RF EXPOSURE REPORT

| | OF |
|-----------------------|---|
| Applicant: | Huawei Technologies Co., Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C |
| Product Name: | Smart Phone |
| Brand Name: | HUAWEI |
| Model No.: | VOG-L04 |
| Model Difference: | N/A |
| Report Number: | E2/2019/10031-01 |
| FCC ID: | QISVOG-L04 |
| FCC Rule Part: | Part 2.1091 |
| Issue Date: | Jan. 28, 2019 |
| Date of Test: | Jan. 16, 2019 ~ Jan 28, 2019 |
| Date of EUT Received: | Dec. 28, 2018 |

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation in this report is in compliance with FCC Rules Part 2.

The test results of this report relate only to the tested sample identified in this report.

Marcus Iseng

Tested By:

Marcus Tseng / Sr. Engineer

Approved By:

Yeh John / Asst. Manager



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| Report Number | Revision | Description | Effected Page | Issue Date | Revised By |
|------------------|----------|---|---------------|---------------|-------------|
| E2/2019/10031 | Rev.00 | Initial creation of document | All | Jan. 25, 2019 | Karen Huang |
| E2/2019/10031-01 | Rev.01 | Update measurement data and information | Page 3, 6~23 | Jan. 28, 2019 | Karen Huang |

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GENERAL INFORMATION 1

Product Description 1.1

General:

| Product Name: | Smart Phone |
|---------------------|---|
| Brand Name: | HUAWEI |
| Model No.: | VOG-L04 |
| Model Difference: | N/A |
| Hardware Version: | HL2VOGUEM |
| Software Version: | 9.1.0.42(C792E10R1P4) |
| | 3.82V |
| Input Rated Voltage | Battery:1. Model No.: HB486486ECW, SN: 6DUNACI724G00064 Supplier: HuaweiTechnologies Co., Ltd2. Model No.: HB486486ECW, SN: 5WNDAYI726 X00085 Supplier: HuaweiTechnologies Co., Ltd |

Wireless Charging:

| Operating Frequency | 110kHz-148kHz | | |
|---------------------|---------------|--|--|
|---------------------|---------------|--|--|

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1 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 Standard Applicable

According to KDB 680106 D01 RF Exposure Wireless Charging App v03

RF exposure potential to users and bystanders is expected to vary according to factors inherent to the design of individual systems, which generally requires different evaluation considerations to show compliance.

When exposure concerns arise; for example, due to evolving products and operations, RF exposure evaluation may be requested under the provisions of Sections 1.1307 (c) and (d) to determine compliance. Because of significant variations in design and operating characteristics, the procedures required to evaluate RF exposure compliance for wireless power transfer are considered according to the exposure potentials of individual implementations

The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

1.2 Limits for Maximum Permissive Exposure (MPE)

Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--------------------------|----------------------------------|----------------------------------|--|-----------------------------|
| 1 | (A) Limits for (| Occupational/Controlled Expo | osure | |
| 0.3-3.0 | 614 | 1.63 | *100 | 6 |
| 3.0-30 | 1842/ | f 4.89/ | f *900/f ² | 6 |
| 30-300 | 61.4 | 0.163 | 3 1.0 | 6 |
| 300-1,500 | | | f/300 | 6 |
| 1,500-100,000 | | | 5 | 6 |
| | (B) Limits for Gene | ral Population/Uncontrolled | Exposure | |
| 0.3-1.34 | 614 | 1.63 | 3 *100 | 30 |
| 1.34-30 | 824/ | f 2.19/ | f *180/f ² | 30 |
| 30-300 | 27.5 | 0.073 | 3 0.2 | 30 |
| 300-1,500 | | | f/1500 | 30 |
| 1,500-100,000 | | | 1.0 | 30 |

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

f = frequency in MHz * = Plane-wave equivalent power density

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The Worst Charging Condition: 1.3

| Ancillary Equipment | Charging Condition | Verdict | | |
|---|---------------------------|---------|--|--|
| Load | 90% Loading | PASS | | |
| Load | 50% Loading | PASS | | |
| Load 10% Loading PASS | | | | |
| Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current. | | | | |

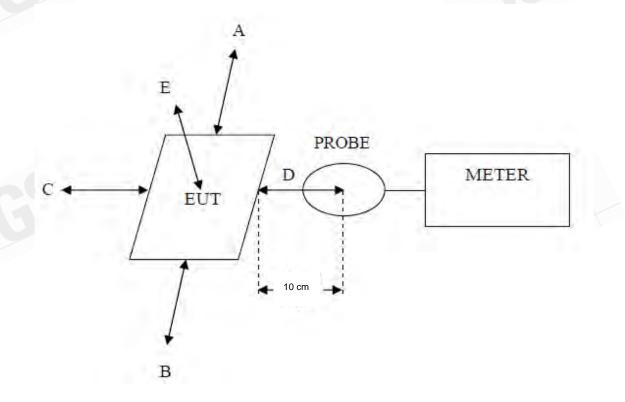
Measurement Procedure: 1 4

The electric and magnetic field strength result at 10 cm from the top surface and all applicable edges surrounding the DUT while it is actively charging conditions at 10% 50% and 90% are included.

Measurement Equipment Used: 1.5

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-------------------|-----|-----------------|------------------|--------------|------------|
| E-field probe | W&G | EF-0691 | G-0061 | 02/22/2018 | 02/21/2019 |

Test Set-up: 1.6



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Maximum Permissible Exposure (MPE) Evaluation: 1.7

(For Battery SN: 6DUNACI724G00064)

90% Loading

| Maximum Permissible Exposure | | | | |
|------------------------------|---------------|---------------|---------------|--|
| Probe from EUT Side | Test Distance | E-field (V/m) | H-field (A/m) | |
| Front | 10 cm | 1.41 | 0.035 | |
| Back | 10 cm | 1.43 | 0.034 | |
| Left | 10 cm | 1.5 | 0.038 | |
| Right | 10 cm | 1.53 | 0.045 | |
| Тор | 10 cm | 1.28 | 0.043 | |
| Bottom | 10 cm | 1.57 | 0.043 | |
| Limit | | 614 | 1.63 | |

50% Loading

| Maximum Permissible Exposure | | | | |
|------------------------------|---------------|---------------|---------------|--|
| Probe from EUT Side | Test Distance | E-field (V/m) | H-field (A/m) | |
| Front | 10 cm | 1.34 | 0.031 | |
| Back | 10 cm | 1.48 | 0.034 | |
| Left | 10 cm | 1.3 | 0.038 | |
| Right | 10 cm | 1.75 | 0.046 | |
| Тор | 10 cm | 1.48 | 0.039 | |
| Bottom | 10 cm | 1.63 | 0.038 | |
| Limit | | 614 | 1.63 | |

10% Loading

| Maximum Permissible Exposure | | | | |
|------------------------------|---------------|---------------|---------------|--|
| Probe from EUT Side | Test Distance | E-field (V/m) | H-field (A/m) | |
| Front | 10 cm | 1.38 | 0.036 | |
| Back | 10 cm | 1.46 | 0.035 | |
| Left | 10 cm | 1.4 | 0.037 | |
| Right | 10 cm | 1.62 | 0.043 | |
| Тор | 10 cm | 1.37 | 0.042 | |
| Bottom | 10 cm | 1.59 | 0.042 | |
| Limit | | 614 | 1.63 | |

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Spot check data:

(For Battery SN: 5WNDAYI726 X00085)

90% Loading

| Maximum Permissible Exposure | | | | |
|------------------------------|---------------|---------------|---------------|--|
| Probe from EUT Side | Test Distance | E-field (V/m) | H-field (A/m) | |
| Front | 10 cm | 0.46 | 0.011 | |
| Back | 10 cm | 0.59 | 0.011 | |
| Left | 10 cm | 0.66 | 0.015 | |
| Right | 10 cm | 0.69 | 0.022 | |
| Тор | 10 cm | 0.44 | 0.020 | |
| Bottom | 10 cm | 0.73 | 0.020 | |
| Limit | | 614 | 1.63 | |

50% Loading

| Maximum Permissible Exposure | | | | |
|------------------------------|---------------|---------------|---------------|--|
| Probe from EUT Side | Test Distance | E-field (V/m) | H-field (A/m) | |
| Front | 10 cm | 0.47 | 0.009 | |
| Back | 10 cm | 0.64 | 0.011 | |
| Left | 10 cm | 0.46 | 0.015 | |
| Right | 10 cm | 0.91 | 0.023 | |
| Тор | 10 cm | 0.64 | 0.016 | |
| Bottom | 10 cm | 0.79 | 0.015 | |
| Limit | | 614 | 1.63 | |

10% Loading

| Maximum Permissible Exposure | | | | |
|------------------------------|---------------|---------------|---------------|--|
| Probe from EUT Side | Test Distance | E-field (V/m) | H-field (A/m) | |
| Front | 10 cm | 0.52 | 0.014 | |
| Back | 10 cm | 0.62 | 0.012 | |
| Left | 10 cm | 0.56 | 0.014 | |
| Right | 10 cm | 0.78 | 0.020 | |
| Тор | 10 cm | 0.53 | 0.019 | |
| Bottom | 10 cm | 0.75 | 0.019 | |
| Limit | | 614 | 1.63 | |

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APPENDIX A. CERTIFICATE OF CALIBRATION



type

DARE!! Calibrations Calibration services

Vitzeimoleniaan 7 3447 GX Woerden The Netherlands

Tel. +31 348 431 807 Fax +31 348 430 645 www.dare.nl calibrations@dare.nl

CERTIFICATE OF CALIBRATION

For

SGS Taiwan Limited

On behalf of

EMC Instruments corporation 1F, No.8, Lane38 WenSan 3rd street Kwei-Shan Hsiang Taoyuan Hsien

Inclosent

E-field probe Narda / Wandel & Goltermann manufacturer EF-0691 + NBM-550 serial number G-0061 + F-0375 150000331 asset number.

Calibration method:

The calibration is carried out according to IEC 61000-4-3 (2006-02) + A1 (2007-11) + A2 (2010-03).

The instrument was allowed to acclimatize for at least 2 hours before any measurements were made.

During calibration, all axis of the field probe are switched on as in the normal isotropic mode of operation of the probe.

Up to 150 MHz, the calibration is performed in a TEM cell. The calculated field method is used for the calibration.

The calibration of frequencies from 200 MHz is carried out in a full anechoic room. Over the frequency range of 200 MHz to 1000 MHz, the standard transfer method is used. For frequencies from 1200 MHz, the calculated field method is used.

The polarization of the E-field is vertical. For each frequency and field strength setting, the field probe is rotated so that each position is aligned with the E-field. The position under test is always perpendicular to the direction of propagation and parallel to the E-field.

Page 13 and 14 describes the orientation of the DUT during calibration.

Applied field strength

Correction Factor = Measured field strength

Position 1: probe horizontal, perpendicular to the field, display horizontal (up). Probe head aligned with center of the antenna, probe box to the right.

Position 3: probe horizontal, perpendicular to the field, display aligned vertical, to the front facing the antenna. Probe head aligned with center of the antenna, probe box to the right.

Position 3: probe horizontal, perpendicular to the field, display horizontal (down). Probe head aligned with center of the antenna, probe box to the right.

tificate number 201800190.00

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| <text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text> | relative huminity of (30 + 10)%. Period of calibration: 2018 February, 20 to 2018 February, 22. Due date: 2019 February, 23 Result: The results are listed on page 3 to 11. The results of comprisons with specifications are shown in the column 'Remarks'. Reported statements comply with ILAC-68 (2009-03): 'Guidelines on the Reporting of Compliance with Specification'. The following remarks can be reported. (a) Case 1 - Pass' or no remark 1f. The measurement result is within (or bolow) the specification limit when the measurement measurement result is using to accounts. (b) Case 1 - Pass' or no remark 1f. The measurement result is using to accounts. (c) Case 1 - Pass' or no remark 1f. The measurement result is using to accounts. (c) Case 1 - Pass' or no remark 1f. The measurement result is using to accounts. (c) Case 1 - Pass' or no remark 1f. The measurement result is using a 55% coverage probability for the expanded user the function of the state compliance using a 55% coverage probability for the expanded user the function of the state to asset compliance using a 55% coverage probability for the expanded user the function of the state to asset compliance using a 55% coverage probability for the expanded user the function of the state to asset compliance using a 55% coverage probability for the expanded user to account of the state to asset compliance using a 55% coverage probability for the expanded user to account of the state to asset the state asset asset as to asset as to account of the state asset as the state domestion of the state asset as the state domestion of the state asset as the state and user trains of coverage probability of approximately 55%. The standard user trains of measurements the best coverage probability of approximately 55%. The standard user trains of measurements the state coverage probability of approximately 55%. The standard user trains of measurements the state coverage probability of approximately 55%. The standard user trains of the state astate as the | | The linearity is compared to the limits given by the IEC 61000-4-3 standard as mentioned at page 15. |
|--|--|---|--|
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| Image: Contract of the measure of a values were calculated from a single sample. 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. Certificate number 201800190.00 Page 2 of 15 Westre Advice, Research & EMC Services B.V. & Utherness of 138675 Westre S0138675 abounk Utherness Waarden e.o. Arc. NL19RABCO158813704 - S0HT code RABONLED over the stated of the | Incertainty: 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. Certificate number 201800190.00 Page 2 of 15 Wisture Advice, Research & EMC Services BLV. & Utrents of 313675 West Warden e.c. Ave: NLIPRABCO158313704 = SUMET code RABONLED over age factor Age factor Age fa | | |
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| Dijkstre Advice, Research & EMC Services B.V. (xk: Utrecht 30138475 Iabobank: Utrechtse Waarden e.o. BAN: N.19RABC0158313704 + SWIFT code RABONLZU con-number: N.Hu205813484 | Hijkstre Advice, Research & EMC Services B.V. xx Utracht 30135875 abobank Utrechtes Waarden e.u. SAN: N.19RABC0158313704 + SWIFT code RABONLZU on-number: N.L805613468 | Uncertainty: | measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a |
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| | | Certificate number 2018 | determined in accordance with EA publication EA-4/02. |
| | | jistro Advice, Research & Ek K Utrecht 30138675 Jobbank Utrechtse Waarden « An: NL19RABC0158813704 « An: NL19RABC0158813704 | determined in accordance with EA publication EA-4/02. 00190.00 Page 2 of 15 MC Services B.V. SWIFT code RABONLED |

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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.

Equipment list 9 kHz - 200 MHz:

| Description | Identification | Certificate number | Last calibration date |
|--------------------------------|----------------|-----------------------|-----------------------|
| Signal Generator | ID 7431 | RvA K063/201800341.00 | January 16, 2018 |
| Power meter | ID 1247 | RvA K063/201605321.00 | November 29, 2016 |
| Power head | ID 1248 | RvA K063/201605321.00 | November 29, 2016 |
| RF Amplifier | ID 7304 | -/No cal required | |
| Coupler | ID 7432 | RvA K063/201800384.00 | February 7, 2018 |
| TEM cell | ID 1073 | -/No cal required | |
| Attenuator 30dB | ID 1313 | RvA K063/201800016.00 | January 11, 2018 |
| Termination 50 ohms, N-type | ID 1545 | /No cal required | - |
| Radicentre, Siemens | ID 7407 | /-/No cal required | - |

Equipment list 200 MHz - 40 GHz

| | Description | Identification | Certificate number | Last calibration date | |
|----|---------------------------------|----------------|-----------------------|---|--|
| | Signal Generator | ID 7430 | RvA K063/201800340.00 | January 17, 2018 | |
| | Signal Generator | ID 7340 | RvA K063/201700904.00 | March 8, 2017 | |
| | RF Amplifier | ID 1334 | -/No cal required | | |
| | RF Amplifier | ID 1163 | -/No cal required | ite in the second se | |
| | RF Amplifier | ID 1164 | -/No cal required | ÷ | |
| | RF Amplifier | ID 1347 | -/No cal required | E 1 4 7 17 17 17 17 17 17 17 17 17 17 17 17 1 | |
| | Power head | ID 7406 | RvA K063/201700916.00 | March 13, 2017 | |
| | Attenuator 20dB | ID 7462 | RvA K063/201800018.00 | January 11, 2018 | |
| | Coupler | ID 1005 | RvA K063/201703746.00 | August 30, 2017 | |
| | Coupler | ID 7446 | RvA K063/201706907.00 | November 21, 2017 | |
| | Antenna Log periodic 200 - | ID 1387 | -/No cal required | - | |
| | 1000 MHz | TD 7395 | African I according 4 | | |
| | Antenna Horn 1.12 -1.70 GHz | ш 7395 | -/No cal required | - | |
| | Antenna Horn 1.70 - 2.60 GHz | ID 7499 | -/No cal required | 8 | |
| | Antenna Horn 2.60 - 3.95 GHz | ID 7498 | -/No cal required | - | |
| | Antenna Horn 3.95 -5.85 GHz | ID 7447 | -/No cal required | - | |
| | Antenna Horn 5.85 -8.20 GHz | ID 7448 | -/No cal required | - | |
| | Antenna Horn 8.20 -12.40 GHz | ID 7449 | -/No cal required | ÷ | |
| | Antenna Horn 12.4 | ID 7450 | -/No cal required | - | |
| 18 | 00190.00 | | | Page 3 of 15 | |
| | | | | | |

tificate number 2010

Dijkstra Advice, Research & EMC Services B.V. Dijistra Advec, Research & EMC Services B.V. KK. Utrecht Sol 38675 Rabobark Utrechtse Waarden e.c. IBAN: NL:19RABOD158313704 - SWIFT code RABONL2U Eori-number: NL805613468 VAT number: NL8056.13.468.801



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| Identification | Certificate number | Last calibration date |
|----------------|--|---|
| ID 7477 | -/No cal required | |
| ID 7478 | -/No cal required | |
| ID 7457 | NPL/2017090186-2 | October 2017 |
| ID 7273 | NPL/2017090186-1 | October 2017 |
| ID 7092 | -/No cal required | - |
| | ID 7477 ID 7478 ID 7457 ID 7273 | ID 7477 -/No cal required ID 7478 -/No cal required ID 7478 NPL/2017090186-2 ID 7273 NPL/2017090186-1 |

Date

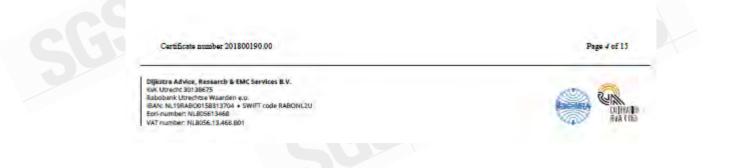
Calibrated by

Checked by

2018 February, 22

Rodrigy Calibration Engineer

D. van der Vlugt Team leader



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| APPLIED | MEASURED | LINEARITY ± | REMARKS | CORRECTION |
|----------------|----------------|----------------------------|--------------------------|------------|
| FIELD [V/m] | FIELD [V/m] | UNCERTAINTY | DUE TO SPECIFICATIONS | FACTOR |
| 2,99 | 2.60 | $(0.0 \pm 1.2) \text{ dB}$ | Border value | 1.15 |
| 3,34 | 2,92 | $(0,0 \pm 1,1) dB$ | Border value | 1,15 |
| 3,75 | 3,27 | $(0,0 \pm 1,1) dB$ | Border value | 1,15 |
| 4,23 | 3,69 | $(0.0 \pm 1.0) dB$ | Border value | 1,15 |
| 4,76 | 4.15 | $(0.0 \pm 0.9) dB$ | Border value | 1.15 |
| 5,30 | 4.61 | $(0,0 \pm 0,9) dB$ | Border value | 1,15 |
| 6,00 | 5,22 | 0 dB (Reference) | | 1,15 |
| 6,73 | 5,85 | $(0,0 \pm 0.8) dB$ | Border value | 1,15 |
| 7,55 | 6,56 | $(0.0 \pm 0.8) \text{ dB}$ | Border value | 1,15 |
| 8,45 | 7,34 | $(0,0 \pm 0,7) dB$ | Border value | 1,15 |
| 9,51 | 8,27 | $(0.0 \pm 0.7) dB$ | Border value | 1,15 |
| 10,67 | 9,26 | $(0.0 \pm 0.7) dB$ | Border value | 1,15 |
| 11.97 | 10,40 | $(0.0 \pm 0.7) dB$ | Border value | 1,15 |



Certificate number 201800190.00

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| APPLIED | MEASURED | LINEARITY ± | REMARKS | CORRECTION |
|----------------|----------------|---------------------|--------------------------|------------|
| FIELD [V/m] | FIELD [V/m] | UNCERTAINTY | DUE TO SPECIFICATIONS | FACTOR. |
| 2,99 | 2,74 | (0,0 ± 1,2) dB | Border value | 1,09 |
| 3,35 | 3,07 | $(0,0 \pm 1,1) dB$ | Border value | 1,09 |
| 3,76 | 3,44 | $(0.0 \pm 1.0) dB$ | Border value | 1,09 |
| 4,22 | 3,85 | $(0,0 \pm 0,9) dB$ | Border value | 1,10 |
| 4,73 | 4,33 | $(0.0 \pm 0.9) dB$ | Border value | 1.09 |
| 5,32 | 4.85 | $(0.0 \pm 0.8) dB$ | Border value | 1.10 |
| 5.95 | 5.43 | 0 dB (Reference) | | 1.10 |
| 6,67 | 6,09 | (0,0 ± 0.8) dB | Border value | 1,09 |
| 7.49 | 6.83 | $(0.0 \pm 0.7) dB$ | Border value | 1.10 |
| 8,38 | 7.66 | $(0.0 \pm 0.7) dB$ | Border value | 1.09 |
| 9.42 | 8,60 | (0,0 ± 0,7) dB | Border value | 1,10 |
| 10,58 | 9,65 | $(0.0 \pm 0.7) dB$ | Border value | 1.10 |
| 11.87 | 10.82 | $(0.0 \pm 0.7) dB$ | Border value | 1.10 |



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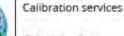
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| APPLIED FIELD [V/m] | MEASURED FIELD [V/m] | LINEARITY ± UNCERTAINTY | REMARKS DUE TO SPECIFICATIONS | CORRECTION FACTOR |
|---------------------------|----------------------------|----------------------------|---|----------------------|
| 3,02 | 2.65 | $(0.0 \pm 1.2) dB$ | Border value | 1.14 |
| 3,35 | 2,94 | $(0.0 \pm 1.1) dB$ | Border value | 1,14 |
| 3,75 | 3,29 | $(0,0 \pm 1,1) dB$ | Border value | 1,14 |
| 4,25 | 3,73 | $(0.0 \pm 1.0) dB$ | Border value | 1,14 |
| 4,77 | 4.20 | $(0.0 \pm 0.9) dB$ | Border value | 1.14 |
| 5,35 | 4.71 | $(0.0 \pm 0.9) dB$ | Border value | 1.14 |
| 5,99 | 5,26 | 0 dB (Reference) | And the second se | 1,14 |
| 6,72 | 5,91 | $(0,0 \pm 0,8) dB$ | Border value | 1,14 |
| 7,53 | 6,62 | $(0,0 \pm 0,8) dB$ | Border value | 1,14 |
| 8,44 | 7,42 | $(0.0 \pm 0.7) dB$ | Border value | 1,14 |
| 9,48 | 8,34 | $(0.0 \pm 0.7) dB$ | Border value | 1,14 |
| 10,64 | 9,35 | $(0.0 \pm 0.7) dB$ | Border value | 1,14 |
| 11.94 | 10,50 | $(0.0 \pm 0.7) dB$ | Border value | 1.14 |



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| E-field Probe fr | | | | | | | |
|------------------|-----------|---------------|------------|-----------------|-----------------|-----------------|---------|
| Frequency range | : 100 kHz | - 150 MH | z | | | | |
| Probe orientatio | n: monope | ole in the sa | me plane a | s E-field | | | |
| Septum height: 0 | | | | | | | |
| Range rangeless | | | | | | | |
| - | | | | | | | |
| Applied field: 6 | V/m | | | | | | |
| FREQUENCY | MEAST | JRED FIEL | n | CF±UNCER | TADITY | | AVERAGE |
| [MHz] | [V/m] | STALLS FILLS | - | OF 1 ONCE | CIALGIT | | CF |
| [] | Pos 1 | Pos 2 | Pos 3 | Pos 1 | Pos 2 | Pos 3 | ~~ |
| 0.1 | 3.9 | 4,5 | 4.8 | 1.53 ± 0.27 | 1.33 ± 0.23 | 1.27 ± 0.22 | 1.38 |
| 0.2 | 5.1 | 5.8 | 5.8 | 1.19 ± 0.21 | 1.05 ± 0.18 | $1,02 \pm 0.18$ | 1.09 |
| 0,3 | 5,4 | 6,1 | 6,0 | 1,10 ± 0,19 | 0.99 ± 0.17 | 0.99 ± 0.17 | 1,03 |
| 0.4 | 5,6 | 6,1 | 5,9 | $1,07 \pm 0,19$ | 0.98 ± 0.17 | 1,00 ± 0,18 | 1,02 |
| 0.5 | 5,6 | 6.1 | 5.9 | 1.06 ± 0.19 | 0.99 ± 0.17 | 1.02 ± 0.18 | 1.02 |
| 0,6 | 5.7 | 6,1 | 5,8 | 1.05 ± 0.19 | 0.99 ± 0.18 | 1.03 ± 0.18 | 1,03 |
| 0,7 | 5.7 | 5.9 | 5,6 | 1.06 ± 0.19 | 1.01 ± 0.18 | $1,06 \pm 0,19$ | 1,04 |
| 0,8 | 5,6 | 5,9 | 5,6 | 1.06 ± 0.19 | 1.02 ± 0.18 | 1.07 ± 0.19 | 1,05 |
| 0,9 | 5,6 | 5,9 | 5,6 | 1.06 ± 0.19 | 1.03 ± 0.18 | 1.09 ± 0.19 | 1,06 |
| 1 | 5,6 | 5,8 | 5,4 | 1.07 ± 0.19 | $1,04 \pm 0,18$ | 1.09 ± 0.19 | 1,07 |
| 2 | 5,4 | 5,6 | 5,4 | $1,11 \pm 0,19$ | 1.06 ± 0.19 | 1.11 ± 0.20 | 1,09 |
| 3 | 5,3 | 5,6 | 5.3 | $1,12 \pm 0,20$ | $1,07 \pm 0,19$ | $1,12 \pm 0,20$ | 1,10 |
| 4 | 5.3 | 5,6 | 5,3 | $1,13 \pm 0,20$ | 1.07 ± 0.19 | $1,12 \pm 0,20$ | 1,11 |
| 5 | 5,3 | 5,6 | 5,4 | $1,13 \pm 0,20$ | $1,07 \pm 0,19$ | $1,11 \pm 0,20$ | 1,10 |
| 6 | 5,3 | 5,5 | 5,4 | $1,13 \pm 0,20$ | $1,07 \pm 0,19$ | $1,11 \pm 0,20$ | 1,11 |
| 7 | 53 | 5,6 | 5,4 | 1.13 ± 0.20 | 1.07 ± 0.19 | 1.11 ± 0.20 | 1,10 |
| 8 | 5,3 | 5,6 | 5,4 | $1,12 \pm 0,20$ | $1,07 \pm 0,19$ | $1,11 \pm 0,20$ | 1,10 |
| 9 | 5,3 | 5,6 | 5,4 | $1,12 \pm 0,20$ | 1.07 ± 0.19 | $1,11 \pm 0,20$ | 1,10 |
| 10 | 5,3 | 5,6 | 5,4 | $1,12 \pm 0,20$ | 1.07 ± 0.19 | $1,11 \pm 0,19$ | 1,10 |
| 20 | 5,3 | 5,6 | 5,3 | $1,13 \pm 0,20$ | $1,07 \pm 0,19$ | $1,11 \pm 0,20$ | 1,10 |
| 30 | 5,3 | 5,5 | 5,4 | $1,13 \pm 0,20$ | 1.08 ± 0.19 | $1,12 \pm 0,20$ | 1,11 |
| 40 | 5,2 | 5,5 | 5,3 | $1,14 \pm 0,20$ | $1,08 \pm 0,19$ | $1,13 \pm 0,20$ | 1,12 |
| 50 | 5,3 | 5,4 | 5,3 | $1,15 \pm 0,20$ | $1,09 \pm 0,19$ | $1,13 \pm 0,20$ | 1,12 |
| 60 | 5,2 | 5,5 | 5,2 | $1,15 \pm 0,20$ | $1,10 \pm 0,19$ | 1,14 ± 0,20 | 1,13 |
| 70 | 5,2 | 5,4 | 5,3 | $1,15 \pm 0,20$ | 1,10 ± 0,19 | 1,14 ± 0,20 | 1,13 |
| 30 | 5,2 | 5,4 | 5,2 | $1,15 \pm 0,20$ | $1,10 \pm 0,19$ | $1,14 \pm 0,20$ | 1,13 |
| 90 | 5,2 | 5,5 | 5,3 | $1,14 \pm 0,20$ | $1,09 \pm 0,19$ | $1,13 \pm 0,20$ | 1,12 |
| 100 | 5,3 | 5,5 | 5,3 | $1,14 \pm 0,20$ | $1,08 \pm 0,19$ | $1,12 \pm 0,20$ | 1,11 |
| 150 | 5,3 | 5,5 | 5,3 | 1.13 ± 0.20 | 1.08 ± 0.19 | 1.12 ± 0.20 | 1.11 |

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| E-field Probe fr Frequency range Probe orientation Antenna distance Range: rangeless Applied field: 6 | 200 MH n: monopo e: 2,0 m | z – 1 GHz | me plane a | ıs E-field | | | |
|--|---------------------------------|-----------|------------|-----------------|-----------------|-----------------|---------|
| FREQUENCY [MHz] | MEASU [V/m] | RED FIEI | D | CF ± UNCEP | TAINTY | | AVERAGE |
| | Pos 1 | Pos 2 | Pos 3 | Pos 1 | Pos 2 | Pos 3 | |
| 200 | 5,5 | 5,7 | 5,5 | 1.10 ± 0.16 | 1.05 ± 0.16 | 1.09 ± 0.16 | 1,08 |
| 250 | 5,3 | 5,5 | 5,3 | 1.12 ± 0.17 | 1.09 ± 0.16 | 1.12 ± 0.17 | 1,11 |
| 300 | 5,4 | 5,6 | 5,4 | 1.11 ± 0.16 | 1.07 ± 0.16 | $1,10 \pm 0,16$ | 1,10 |
| 350 | 5,6 | 5,7 | 5,5 | 1.09 ± 0.16 | 1.06 ± 0.16 | 1.09 ± 0.16 | 1,08 |
| 400 | 5,5 | 5,5 | 5,5 | 1.10 ± 0.16 | 1.09 ± 0.16 | $1,10 \pm 0,16$ | 1,10 |
| 450 | 5,6 | 5,6 | 5,5 | 1.07 ± 0.16 | 1.07 ± 0.16 | 1.09 ± 0.16 | 1,08 |
| 500 | 5,6 | 5,8 | 5,5 | 1.07 ± 0.16 | 1.04 ± 0.15 | 1.08 ± 0.16 | 1,06 |
| 550 | 5,8 | 6,0 | 5,8 | 1.04 ± 0.15 | $1,00 \pm 0,15$ | 1.03 ± 0.15 | 1,02 |
| 600 | 5,8 | 6,0 | 5,7 | 1,05 ± 0,16 | 1.01 ± 0.15 | 1.05 ± 0.16 | 1,04 |
| 650 | 5,5 | 6,0 | 5,5 | 1.08 ± 0.16 | 1.01 ± 0.15 | 1.10 ± 0.16 | 1,06 |
| 700 | 5,7 | 6,2 | 5,7 | $1,07 \pm 0,16$ | $0,98 \pm 0.15$ | 1.06 ± 0.16 | 1,04 |
| 750 | 5,6 | 6,2 | 5,7 | 1.06 ± 0.16 | $0,96 \pm 0,14$ | 1.05 ± 0.16 | 1,02 |
| 800 | 5,9 | 6,5 | 5,9 | $1,02 \pm 0,15$ | 0.93 ± 0.14 | 1.03 ± 0.15 | 0,99 |
| 850 | 6,2 | 6,7 | 6,2 | $0,97 \pm 0.14$ | $0,90 \pm 0,13$ | 0.98 ± 0.14 | 0,95 |
| 900 | 5,9 | 6,3 | 5,9 | 1.02 ± 0.15 | 0.95 ± 0.14 | 1.02 ± 0.15 | 1,00 |
| 950 | 5,6 | 5,8 | 5,6 | $1,08 \pm 0,16$ | $1,04 \pm 0,15$ | 1.08 ± 0.16 | 1,07 |
| 1000 | 5,5 | 5.6 | 5,5 | 1.10 ± 0.16 | 1.07 ± 0.16 | 1.10 ± 0.16 | 1.09 |

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| Probe orientatio | n monopo | ale in the sa | ume plane a | s E-field | | | |
|-------------------------------------|----------------|---------------|-------------|-----------------|-----------------|-----------------|-------|
| Antenna distanc | | | | | | | |
| | | | | | | | |
| Range: rangeles Applied field: 6 | | | | | | | |
| FREQUENCY [MHz] | MEASU [V/m] | JRED FIEL | D | CF±UNCER | TAINTY | | AVERA |
| [iverse] | Pos 1 | Pos 2 | Pos 3 | Pos 1 | Pos 2 | Pos 3 | |
| 1200 | 5.3 | 5.2 | 5,3 | 1.11 ± 0.16 | 1.12 ± 0.17 | 1.11 ± 0.16 | 1.11 |
| 1400 | 5.3 | 5.6 | 5.2 | 1.11 ± 0.15 | 1.06 ± 0.14 | 1.13 ± 0.15 | 1.10 |
| 1600 | 5.6 | 6.1 | 5.5 | 1.07 ± 0.14 | 0.97 ± 0.13 | 1.07 ± 0.14 | 1.04 |
| 1800 | 5,6 | 5,8 | 5,5 | 1.08 ± 0.17 | 1.02 ± 0.16 | 1.08 ± 0.17 | 1,06 |
| 2000 | 5,3 | 5,4 | 5,3 | $1,13 \pm 0.18$ | 1.12 ± 0.18 | 1.13 ± 0.18 | 1,13 |
| 2200 | 5.4 | 5.6 | 5.4 | 1.09 ± 0.17 | 1.08 ± 0.17 | 1.10 ± 0.18 | 1.09 |
| 2400 | 5,6 | 5,8 | 5,6 | 1.09 ± 0.17 | 1.03 ± 0.16 | 1.07 ± 0.17 | 1,06 |
| 2600 | 5,8 | 6,3 | 5,8 | 1.04 ± 0.16 | 0.96 ± 0.15 | 1.03 ± 0.16 | 1,01 |
| 2800 | 5,8 | 5,9 | 5,8 | $1,03 \pm 0,17$ | $1,00 \pm 0,16$ | $1,03 \pm 0,17$ | 1,02 |
| 3000 | 5,7 | 5,7 | 5,8 | $1,06 \pm 0,17$ | 1.05 ± 0.17 | 1.04 ± 0.17 | 1.05 |
| 3200 | 5,5 | 5,5 | 5,5 | 1.10 ± 0.18 | 1.09 ± 0.17 | 1.09 ± 0.17 | 1,09 |
| 3400 | 5,3 | 5,8 | 5,4 | $1,13 \pm 0.18$ | $1,03 \pm 0.16$ | 1.11 ± 0.18 | 1,09 |
| 3600 | 5,6 | 6,1 | 5,7 | 1.07 ± 0.17 | 0.97 ± 0.15 | $1,06 \pm 0,17$ | 1,03 |
| 3800 | 5,5 | 5,8 | 5,5 | $1,08 \pm 0,17$ | 1.03 ± 0.16 | 1.08 ± 0.17 | 1,06 |
| 4000 | 5,4 | 5,6 | 5,5 | $1,10 \pm 0,17$ | 1.09 ± 0.17 | 1.09 ± 0.17 | 1,09 |
| 4200 | 5,3 | 5,3 | 5,3 | $1,12 \pm 0,17$ | $1,12 \pm 0,17$ | $1,13 \pm 0,17$ | 1,12 |
| 4400 | 5,3 | 5,6 | 5,4 | $1,12 \pm 0,17$ | $1,06 \pm 0,16$ | $1,10 \pm 0,17$ | 1,09 |
| 4600 | 4,9 | 5,4 | 4,9 | $1,20 \pm 0.18$ | $1,10 \pm 0,17$ | $1,21 \pm 0,18$ | 1,17 |
| 4800 | 4,8 | 5,2 | 4,8 | $1,24 \pm 0,19$ | 1,15±0,18 | $1,24 \pm 0,19$ | 1,21 |
| 5000 | 4,9 | 5,1 | 4,8 | 1,19 = 0,18 | 1,18 = 0,18 | $1,21 \pm 0,18$ | 1,20 |
| 5200 | 4,7 | 4,8 | 4,7 | $1,25 \pm 0.19$ | $1,22 \pm 0,19$ | $1,25 \pm 0,19$ | 1,24 |
| 5400 | 4,7 | 4,9 | 4,7 | $1,26 \pm 0,19$ | $1,21 \pm 0,18$ | $1,28 \pm 0,19$ | 1,25 |
| 5600 | 4,5 | 4,8 | 4,6 | $1,30 \pm 0,20$ | $1,24 \pm 0,19$ | $1,27 \pm 0,19$ | 1,27 |
| 5800 | 4.2 | 4.5 | 4,3 | 1.39 ± 0.21 | $1,31 \pm 0,20$ | $1,38 \pm 0,21$ | 1,36 |
| 6000 | 4.2 | 4.4 | 4.2 | 1.40 ± 0.21 | 1.36 ± 0.21 | 1.39 ± 0.21 | 1.38 |



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| E-field Probe is Applied field: 6 | | | | |
|--------------------------------------|--|--|--|-------------------------------------|
| FREQUENCY [MHz] | MEASURED FIELD Position 1 [V/m] | MEASURED FIELD Position 2 [V/m] | MEASURED FIELD Position 3 [V/m] | ANISOTROPY ± UNCERTAINTY [dB] |
| 10 | 5,34 V/m | 5,62 V/m | 5,42 V/m | $(0,2 \pm 2,0) dB$ |
| 100 | 5,28 V/m | 5,54 V/m | 5,34 V/m | $(0,2 \pm 2,0)$ dB |
| 1000 | 5.5 V/m | 5.6 V/m | 5.5 V/m | $(0.1 \pm 1.8) dB$ |



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Page // of 15

CILLERATION TRVA COEST

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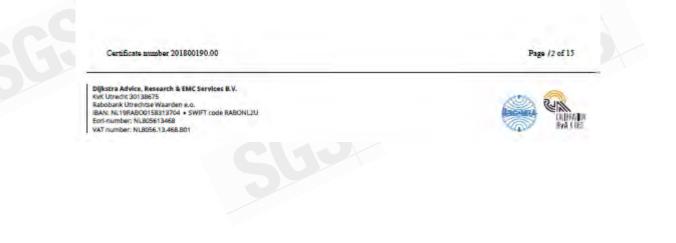






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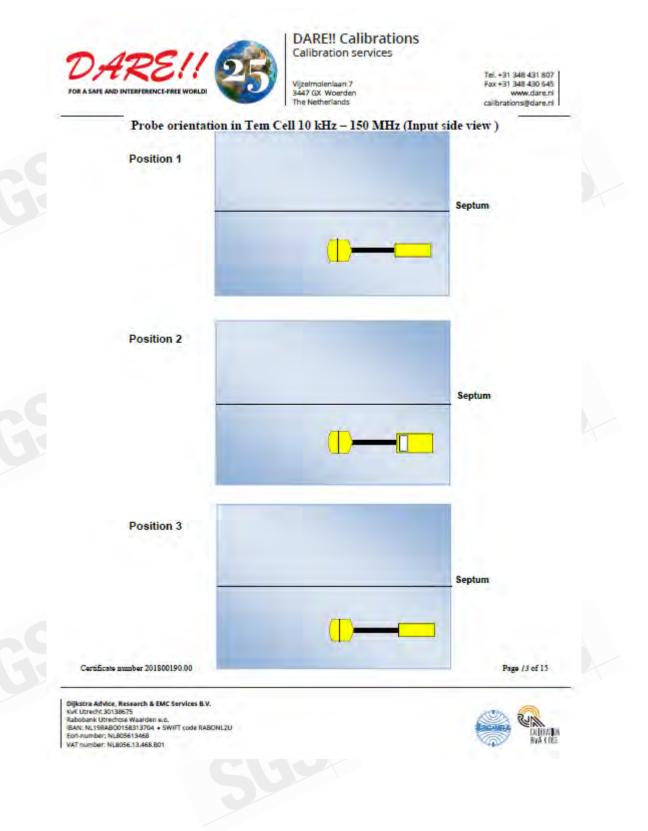




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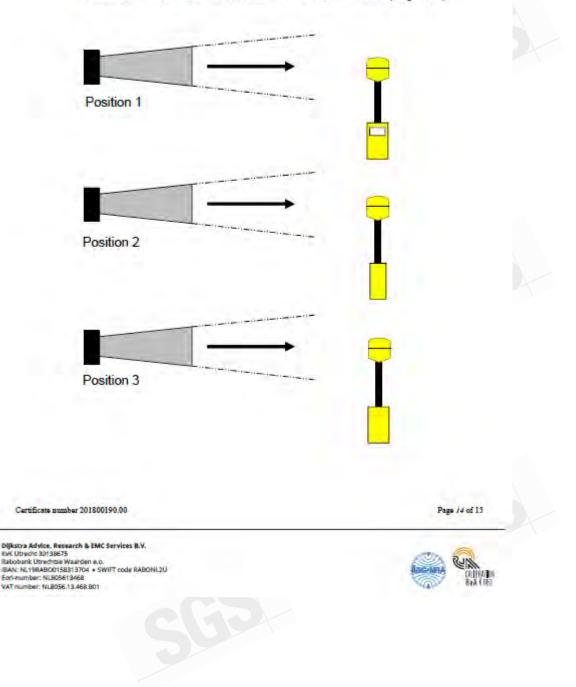




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|-------|----------|----|
| | GX Woe | |
| The | etherian | ds |

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Probe orientation in anechoic room 200 MHz - 40 GHz (Top view)



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IEC 61000-4-3 (2006-02) + A1 (2007-11) + A2 (2010-03) specifications

Linearity check

± 0,5 dB



Certificate number 201800190.00 Page 15 of 15





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APPENDIX B. SYSTEM VALIDATION



| and the second second | EMR | -30 E-Field | |
|-----------------------|------------|------------------------|--------------------|
| Ref.(V/M) | Meas.(V/M) | Result of Deviation(%) | Deviation range(%) |
| 0.8 | 0.73 | 8.75 | |
| 1.13 | 1.05 | 7.08 | ±10 |
| 1.6 | 1.49 | 6.88 | |

PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

~ End of Report ~

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