

Report on the FCC and IC Testing of the Siemens Healthcare GmbH

Model: 04787771

In accordance with FCC 47 CFR Part 15C and ISED
Canada RSS-247 and ISED Canada RSS-GEN (partly)

Prepared for: Siemens Healthcare GmbH
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91058 Erlangen



Product Service

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Date: 2022-07-28

Document Number: TR-43516-07324-15| Issue: 03

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|----------------------|-----------------|------------|--------------------|
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ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15C and ISED Canada RSS-247 and ISED Canada RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|-----------------|----------------|------------|--------------------|
| Testing | Michael Ingerl | 2022-07-28 | SIGN-ID 680979 |

Laboratory Accreditation

DAkkS Reg. No. D-PL-11321-11-02

Laboratory recognition

Registration No. BNetzA-CAB-16/21-15

ISED Canada test site registration

3050A-2

EXECUTIVE SUMMARY

A sample of this product was partly tested and found to be compliant with FCC 47 CFR Part 15C (2019), ISED Canada RSS-247 (2017) and ISED Canada RSS-GEN (2018)

Contains FCC ID: S5H-WRC3

IC: 267AO-WRC3

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

| Issue | Description of Change | Date of Issue |
|-------|--|---------------|
| 1 | First Issue | 2021-04-19 |
| 2 | Changed "Contains FCC IC ID" | 2022-06-01 |
| 3 | Retest of Maximum Conducted Output Power (Software Setting of RF Output set to 0 dBm) Changed Model Number (Misunderstanding) | 2022-07-28 |

Table 1

1.2 Introduction

| | |
|-------------------------------|---|
| Applicant | Siemens Healthcare GmbH |
| Manufacturer | Siemens Healthcare GmbH |
| Model Number(s) | 04787771 |
| Serial Number(s) | 23 |
| Hardware Version(s) | 01 |
| Software Version(s) | VA00E |
| Number of Samples Tested | 1 |
| Test Specification/Issue/Date | FCC 47 CFR Part 15C (2019), ISED Canada RSS-247 (2017) and ISED Canada RSS-GEN (2018) |
| Test Plan/Issue/Date | --- |
| Order Number | 5422660 |
| Date of Receipt of EUT | 2021-03-12 |
| Start of Test | 2021-03-29 |
| Finish of Test | 2022-07-22 |
| Name of Engineer(s) | Michael Ingerl |
| Related Document(s) | ANSI C63.10 (2013) ANSI C63.4 (2014) |



1.3 Brief Summary

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15C and ISED Canada RSS-247 and ISED Canada RSS-GEN is shown below.

| Section | Specification Clause | Test Description | Result | Comments/Base Standard |
|---|--------------------------|--------------------------------|--------|------------------------|
| Configuration and Mode: 24V DC Power supply – Transmitting continuously | | | | |
| 2.1 | 15.209 (a), 5.5 and 6.13 | Transmitter Unwanted Emissions | Pass | ANSI C63.10 (2013) |
| 2.3 | 15.247 (b), 5.4 and 6.12 | Maximum Conducted Output Power | Pass | ANSI C63.10 (2013) |

Table 2



1.4 Product Information

1.4.1 Technical Description

| Equipment characteristics | |
|-----------------------------|-------------------------------|
| Type designation: | 04787771 |
| Type of equipment: | Receiver Wireless XRay FSW |
| Application ¹ : | Wideband transmission systems |
| Equipment class: | Equipment for fixed use |
| Kind of equipment | Transceiver |
| Frequency band: | 3 b |
| Frequency range: | 2400 – 2483.5 MHz |
| Channel spacing: | Wideband |
| Number of RF channels | 40 |
| Antenna: | Siemens PCB Antenna |
| Antenna gain: | 2.2 dBi |
| Highest internal frequency: | 22.1148 MHz |
| Temperature Range: | 15 C to 30 C |
| Power supply: | DC Power supply |
| | Nominal: 24 V |
| | Minimum: 19.2 V |
| | Maximum: 28.8 V |
| | Nominal frequency: DC |

1.5 Deviations from the Standard

None

¹ Classification according to CEPT/ERC Recommendation 70-03



1.6 EUT Modification Record

The table below details modifications made to the EUT during the test programme.
The modifications incorporated during each test are recorded on the appropriate test pages.

| Modification State | Description of Modification still fitted to EUT | Modification Fitted By | Date Modification Fitted |
|--------------------|---|------------------------|--------------------------|
| 0 | As supplied by the customer | Not Applicable | Not Applicable |
| 1 | Software Setting of RF Output set to 0dBm | Customer | 2022-07-20 |

Table 3

1.7 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing Test Laboratory.

| Test Name | Name of Engineer(s) |
|---|---------------------|
| Configuration and Mode: 24V DC Power supply – Transmitting continuously | |
| Transmitter Unwanted Emissions | Michael Ingerl |
| Maximum Conducted Output Power | Michael Ingerl |

Table 4

Office Address:

Äußere Frühlingstraße 45
94315 Straubing
Germany

2 Test Details

2.1 Transmitter Unwanted Emissions

2.1.1 Specification Reference

FCC 47 CFR Part 15 C,.209
ISED RSS-247, Clause 5.5
ISED RSS-Gen, Clause 6.13

2.1.2 Equipment Under Test and Modification State

04787771, S/N: 23 - Modification State 0

2.1.3 Date of Test

2021-03-29 – 2021-03-30

2.1.4 Test Method

The test was performed according to ANSI C63.10, sections 11.11 and 11.12

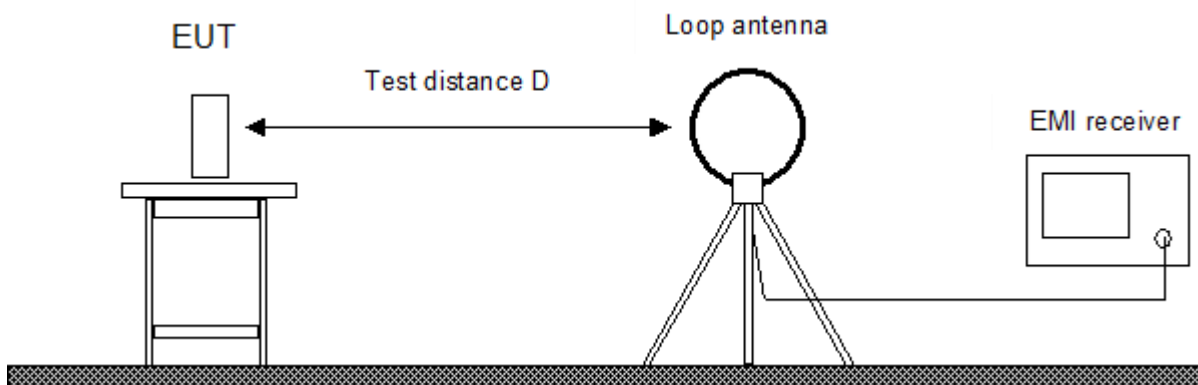
Prescans are performed in six positions of the EUT to get the full spectrum of emission caused by the EUT with the measuring antenna raised and lowered from 1 m to 4 m with vertical and horizontal polarisation to find the combination of table position, antenna height and antenna polarisation for the maximum emission levels.

Data reduction is applied to these results to select those levels having less margin than 10 dB or exceeding the limit using subranges and limited number of maximums.

Further maximisation for adjusting the maximum position is following.

Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

1. Frequency range 9 kHz – 30 MHz

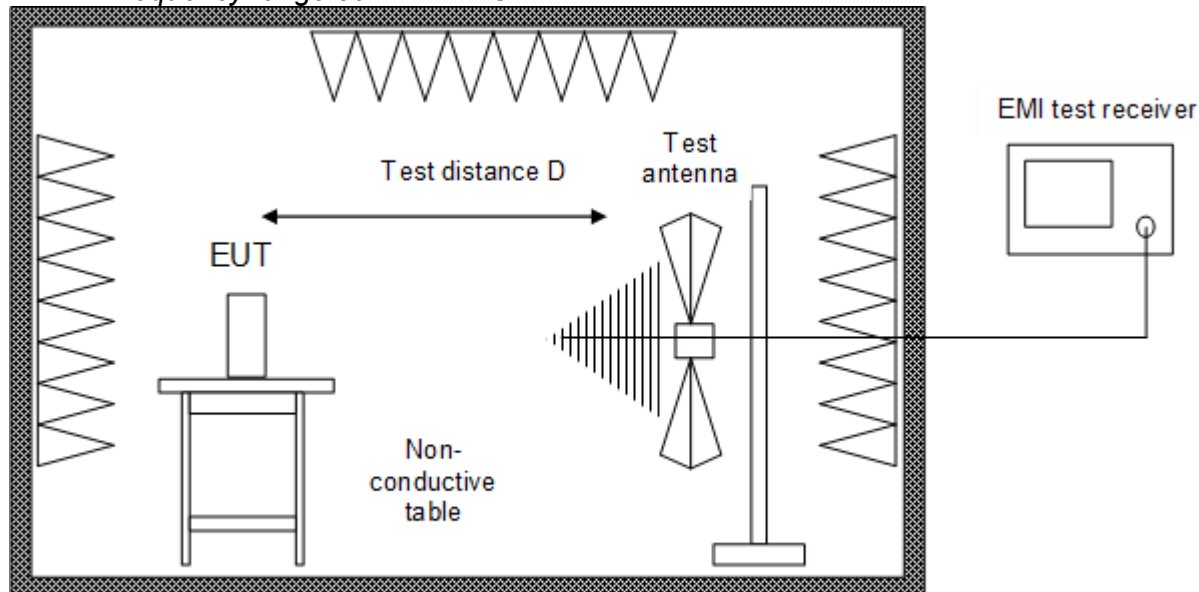


The EUT was placed on a non-conductive table, 0.8 m above the ground.

Radiated emissions in the frequency 9 kHz – 30 MHz is measured within a semi-anechoic room with an active loop antenna with the measurement detector set to peak. In addition in the frequency range 9 kHz to 490 kHz also an average detector was used. The measurement bandwidth of the receiver was set to 300 Hz in the frequency range 9 kHz to 150 kHz and 10 kHz in the frequency range 150 kHz to 30 MHz. Prescans were performed in six positions of the EUT.

For final measurements the detector was set to CISPR quasi-peak and in addition to CISPR average in the frequency range 9 kHz to 490 kHz with a resolution bandwidth 200 Hz in the frequency range 9 kHz to 150 kHz and 9 kHz in the frequency range 150 kHz to 30 MHz. Final tests were performed immediately after a final frequency and zoom (for drifting disturbances) and maximum adjustment.

2. Frequency range 30 MHz – 1 GHz



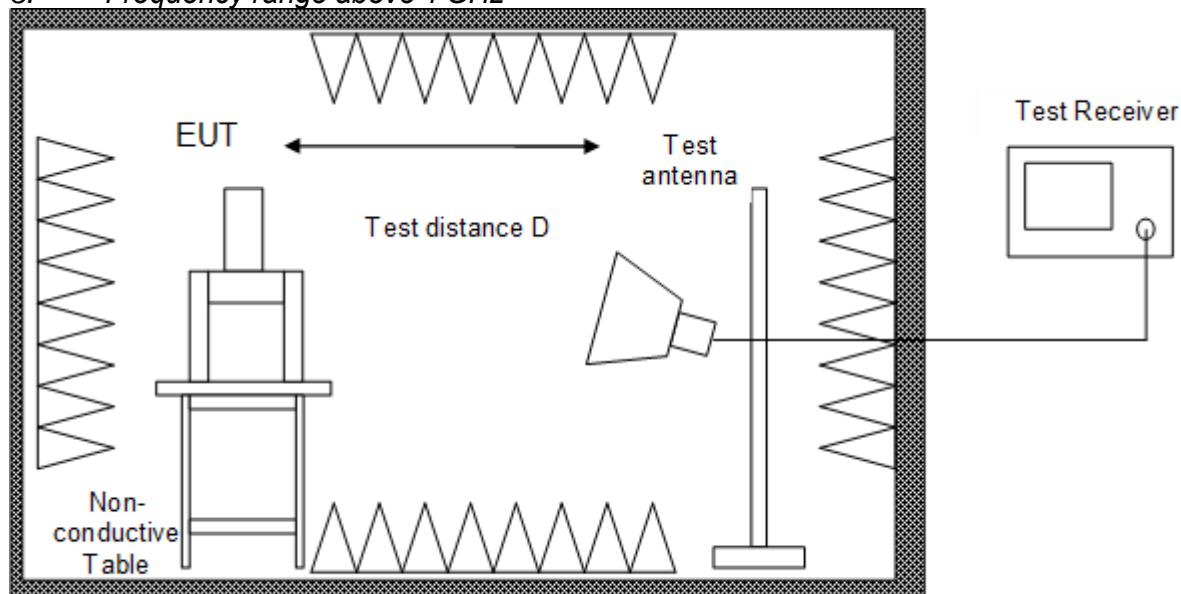
Alternate test site (semi anechoic room)

The EUT was placed on a non-conductive table, 0.8 m above the ground plane. Radiated emissions in the frequency range 30 MHz – 1 GHz is measured within a semi-anechoic room with groundplane complying with the NSA requirements of ANSI C63.4. for alternative test sites. A linear polarised logarithmic periodic antenna combined with a 4:1 broadband dipole (“Trilog broadband antenna”) is used.

For prescan tests the test receiver is set to peak-detector with a bandwidth of 120 kHz.

With the measurement bandwidth of the test receiver set to 120 kHz CISPR quasi-peak detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.

3. Frequency range above 1 GHz



Fully anechoic room

The EUT was placed on a non-conductive table, 1.5 m above the ground plane. Radiated emission tests above 1 GHz are performed in a fully anechoic room with the S_{VSWR} requirements of ANSI C63.4. Measurements are performed both in the horizontal and vertical planes of polarisation using a test receiver with the detector function set to peak and average and the resolution bandwidth set to 1 MHz. Testing above 1 GHz is performed with horn antennas with the EUT in boresight of the antenna. For prescan tests the test receiver is set to peak- and average-detector with a bandwidth of 1 MHz.

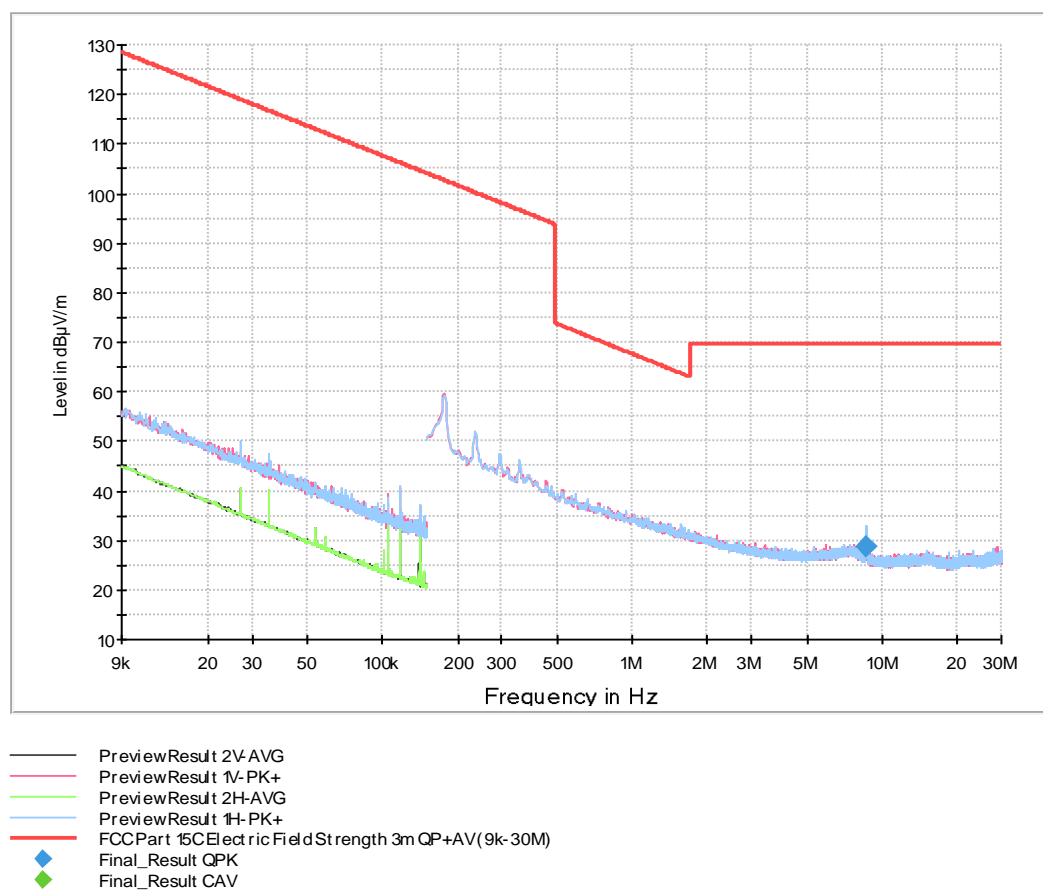
With the measurement bandwidth of the test receiver set to 1 MHz and peak- and CISPR average-detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.

2.1.5 Environmental Conditions

Ambient Temperature 22.0 °C
Relative Humidity 30.0 %

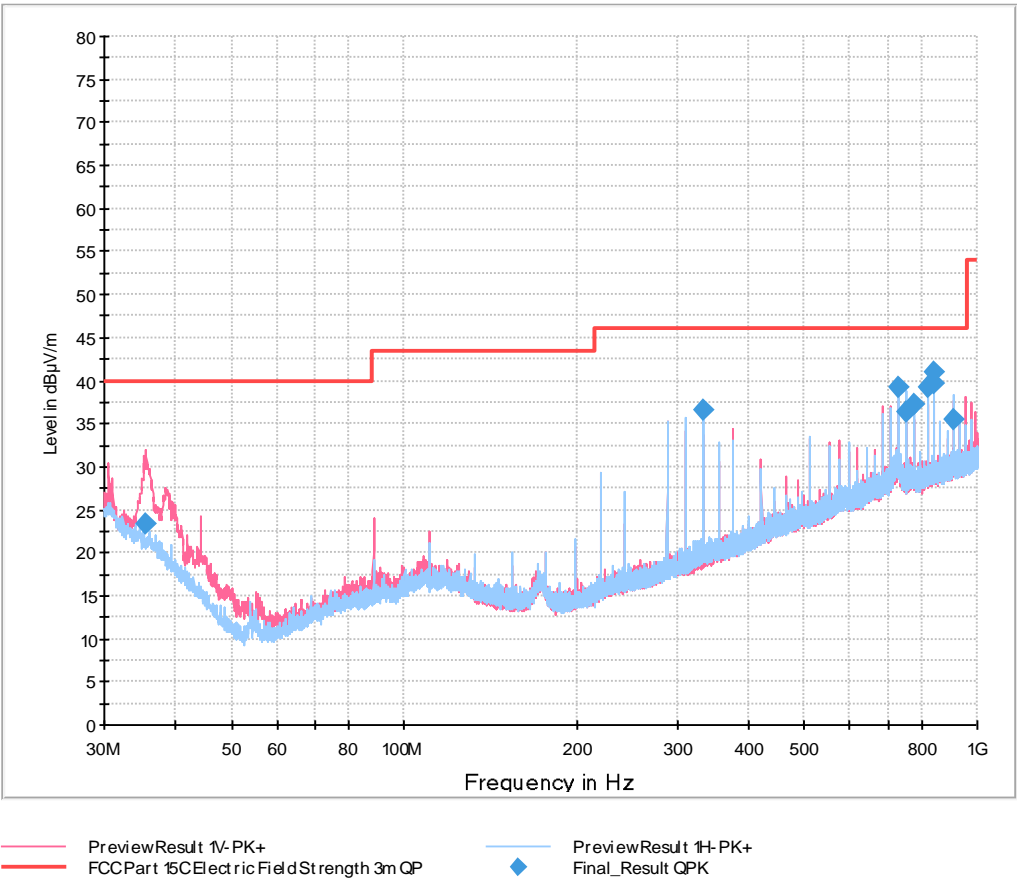
2.1.6 Test Results

24V DC Power supply – Transmitting continuously



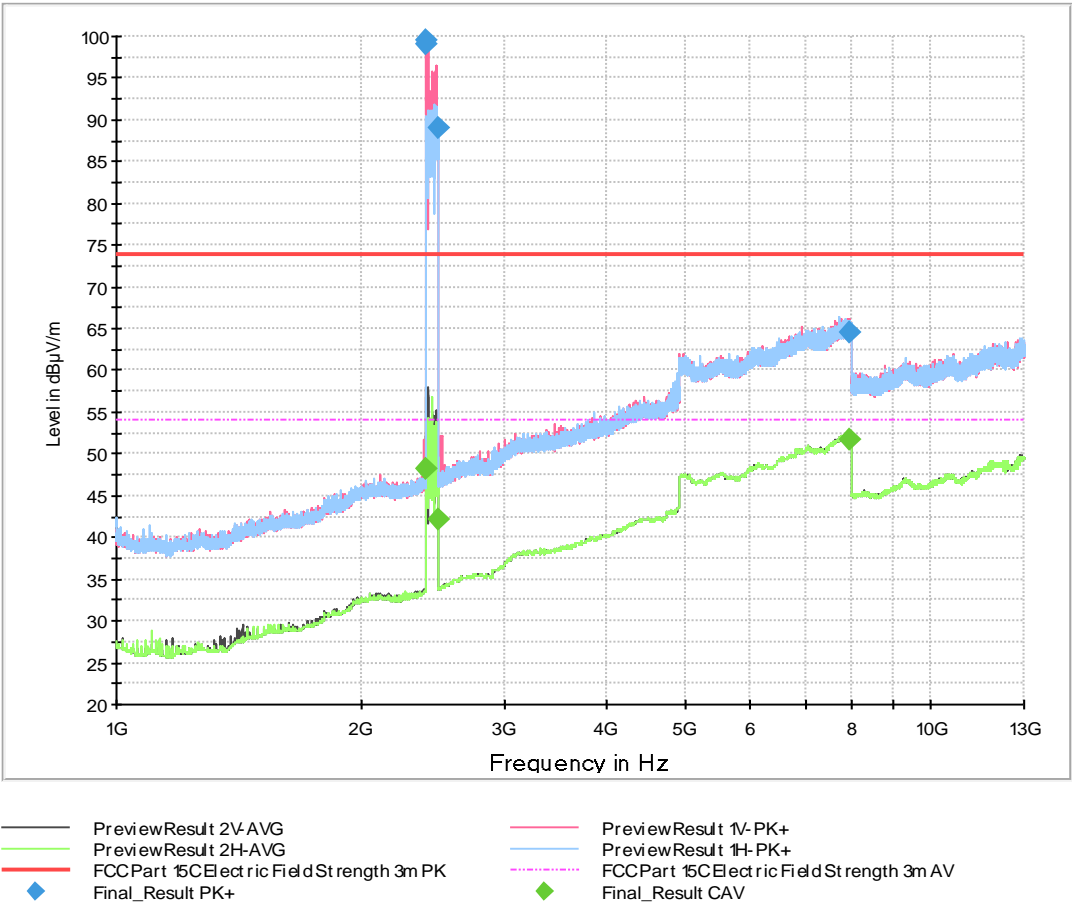
Final Results 1:

| Frequency | QuasiPeak | Limit | Margin | Meas. Time | Bandwidth | Height | Pol | Azimuth | Corr. |
|-----------|-----------|--------|--------|------------|-----------|--------|-----|---------|-------|
| MHz | dBµV/m | dBµV/m | dB | ms | kHz | cm | | deg | dB/m |
| 8.677500 | 28.63 | 69.54 | 40.91 | 1000.0 | 9.000 | 100.0 | H | 37.0 | 19.0 |



Final Results 1:

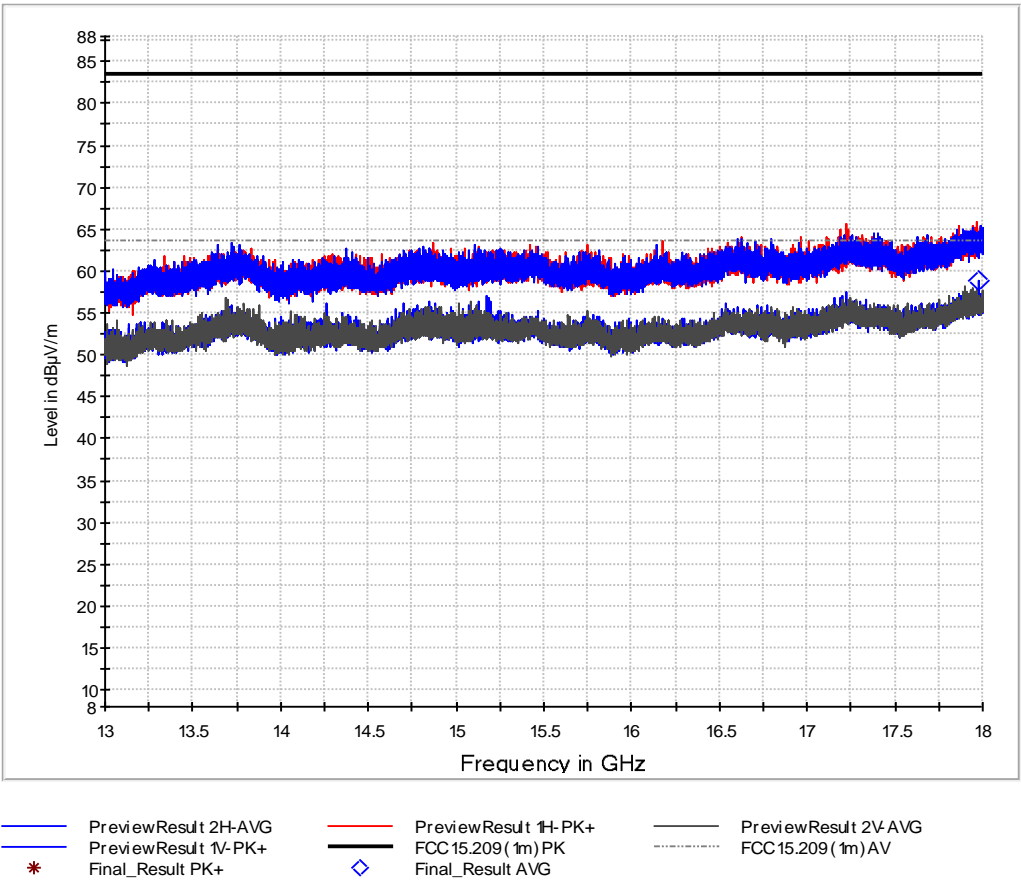
| Frequency | QuasiPeak | Limit | Margin | Meas. Time | Bandwidth | Height | Pol | Azimuth | Corr. |
|------------|-----------|--------|--------|------------|-----------|--------|-----|---------|-------|
| MHz | dBµV/m | dBµV/m | dB | ms | kHz | cm | | deg | dB |
| 35.520000 | 23.43 | 40.00 | 16.57 | 1000.0 | 120.000 | 109.0 | V | 120.0 | 21.7 |
| 331.770000 | 36.59 | 46.02 | 9.43 | 1000.0 | 120.000 | 104.0 | H | -93.0 | 19.9 |
| 729.900000 | 39.24 | 46.02 | 6.78 | 1000.0 | 120.000 | 113.0 | H | -8.0 | 28.0 |
| 752.040000 | 36.35 | 46.02 | 9.67 | 1000.0 | 120.000 | 100.0 | H | 3.0 | 28.1 |
| 774.150000 | 37.24 | 46.02 | 8.78 | 1000.0 | 120.000 | 100.0 | H | -74.0 | 28.5 |
| 818.370000 | 39.28 | 46.02 | 6.74 | 1000.0 | 120.000 | 104.0 | H | -15.0 | 29.0 |
| 840.510000 | 41.08 | 46.02 | 4.94 | 1000.0 | 120.000 | 105.0 | H | -11.0 | 29.1 |
| 840.510000 | 39.58 | 46.02 | 6.44 | 1000.0 | 120.000 | 105.0 | H | -11.0 | 29.1 |
| 906.840000 | 35.43 | 46.02 | 10.59 | 1000.0 | 120.000 | 100.0 | H | 13.0 | 30.1 |



Final Results 1:

| Frequency | MaxPeak | CAverage | Limit | Margin | Meas. Time | Bandwidth | Height | Pol | Azimuth | Corr. |
|-------------|---------|----------|--------|--------|------------|-----------|--------|-----|---------|-------|
| MHz | dBµV/m | dBµV/m | dBµV/m | dB | ms | kHz | cm | | deg | dB/m |
| 2404.000000 | 99.50 | --- | #1 | #1 | 1000.0 | 1000.000 | 103.0 | V | -118.0 | 32.7 |
| 2404.000000 | --- | 48.33 | #1 | #1 | 1000.0 | 1000.000 | 103.0 | V | -118.0 | 32.7 |
| 2479.000000 | 88.95 | --- | #1 | #1 | 1000.0 | 1000.000 | 128.0 | V | -85.0 | 33.0 |
| 2479.000000 | --- | 42.14 | #1 | #1 | 1000.0 | 1000.000 | 128.0 | V | -85.0 | 33.0 |
| 7947.750000 | 64.45 | --- | 73.98 | 9.53 | 1000.0 | 1000.000 | 207.0 | V | 90.0 | 43.6 |
| 7947.750000 | --- | 51.68 | 53.98 | 2.30 | 1000.0 | 1000.000 | 207.0 | V | 90.0 | 43.6 |

#1 Intentional Radiator

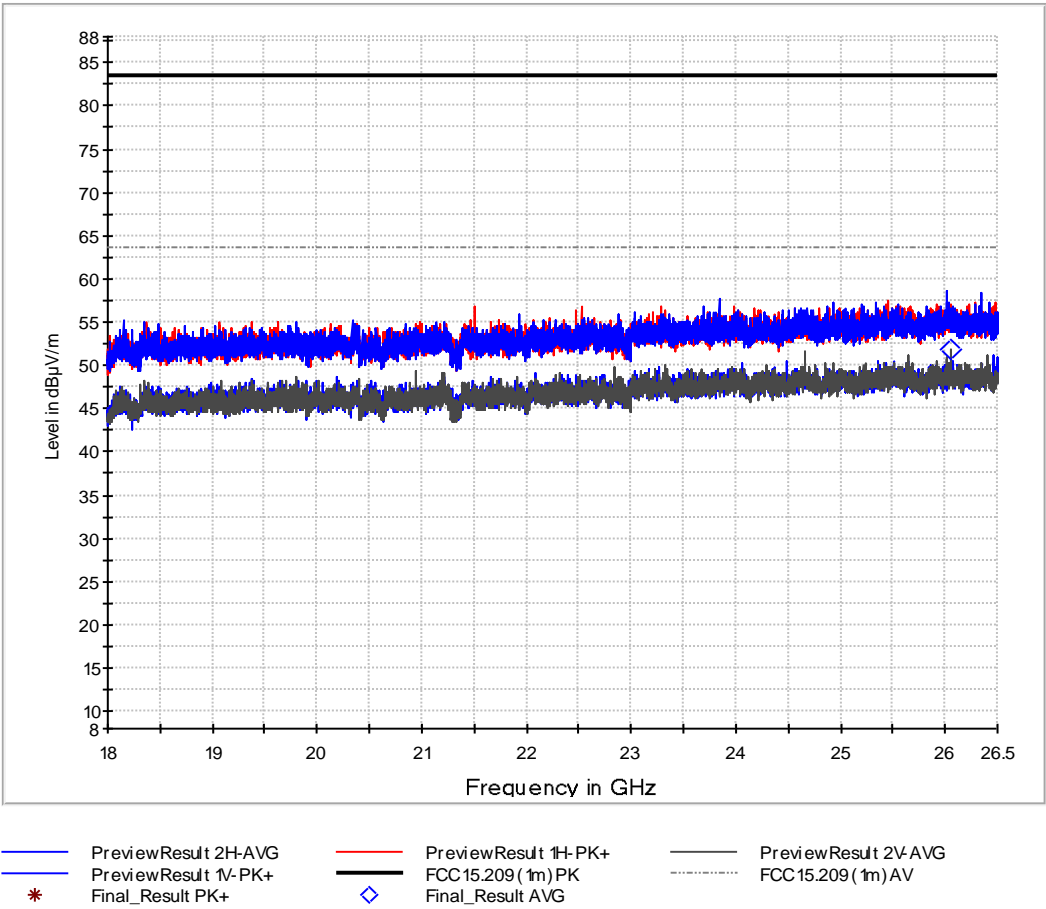


Final Results 1:

| Frequency | Average | Limit | Margin | Meas. Time | Bandwidth | Height | Pol | Azimuth | Corr. |
|--------------|---------|--------|--------|------------|-----------|--------|-----|---------|-------|
| MHz | dBµV/m | dBµV/m | dB | ms | kHz | cm | | deg | dB/m |
| 17982.500000 | 58.75 | 63.50 | 4.75 | 2.5 | 1000.000 | 150.0 | H | 172.0 | 19 |



Product Service



Final Results 1:

| Frequency | Average | Limit | Margin | Meas. Time | Bandwidth | Height | Pol | Azimuth | Corr. |
|--------------|---------|--------|--------|------------|-----------|--------|-----|---------|-------|
| MHz | dBµV/m | dBµV/m | dB | ms | kHz | cm | | deg | dB/m |
| 26056.937500 | 51.92 | 63.50 | 11.58 | 5.0 | 1000.000 | 150.0 | V | 45.0 | 41 |



FCC 47 CFR Part 15, Limit Clause 15.209

| General radiated emission limits: | | | | | |
|-----------------------------------|----------------------|---------------------|------------------------------|---------------------|------------------------------|
| Frequency Range (MHz) | Test distance (m) | Field strength | | Field strength | |
| | | ($\mu\text{A/m}$) | ($\text{dB}\mu\text{A/m}$) | ($\mu\text{V/m}$) | ($\text{dB}\mu\text{V/m}$) |
| 0.009 – 0.49 | 300 | $6.37 / f$ | $20*\lg(6.37 / f)$ | $2400 / f$ | $20*\lg(2400 / f)$ |
| 0.49 – 1.705 | 30 | $63.7 / f$ | $20*\lg(63.7 / f)$ | $24000 / f$ | $20*\lg(24000 / f)$ |
| 1.705 - 30 | 30 | 0.08 | $20*\lg(0.08 / f)$ | 30 | $20*\lg(30 / f)$ |
| 30 – 88 | 3 | --- | --- | 100 | 40 |
| 88 – 216 | 3 | -- | --- | 150 | 43.5 |
| 126 – 960 | 3 | -- | --- | 200 | 46 |
| above 960 | 3 | -- | --- | 500 | 54 |

Note 1: f in kHz

2.1.7 Test Location and Test Equipment Used

This test was carried out in a Semi anechoic room - cabin no. 11.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Due |
|--------------------------------|-----------------|-------------------------|-------|-----------------------------|-----------------|
| EMI test receiver | Rohde&Schwarz | ESW44 | 39897 | 12 | 2021-03-31 |
| ULTRALOG antenna | Rohde&Schwarz | HL562E | 39969 | 36 | 2022-11-30 |
| Loop antenna | Schwarzbeck | FMZB 1519B | 44334 | 36 | 2023-01-31 |
| Double ridged horn antenna | Rohde&Schwarz | HF 907 | 40089 | 24 | 2023-02-28 |
| Horn antenna with preamplifier | Rohde & Schwarz | LB-180400H + TS-LNA1840 | 43551 | 12 | 2021-12-31 |
| EMC measurement software | Rohde&Schwarz | EMC32 V10.50.10 | 42986 | N/A | N/A |

Table 5

TU - Traceability Unscheduled
 O/P Mon – Output Monitored using calibrated equipment
 N/A - Not Applicable

2.2 Maximum Conducted Output Power

2.2.1 Specification Reference

FCC 47 CFR Part 15C, 15.247 (b).
ISED Canada RSS-247 Clause 5.4
ISED Canada RSS-GEN. Clause 6.12

2.2.2 Equipment Under Test and Modification State

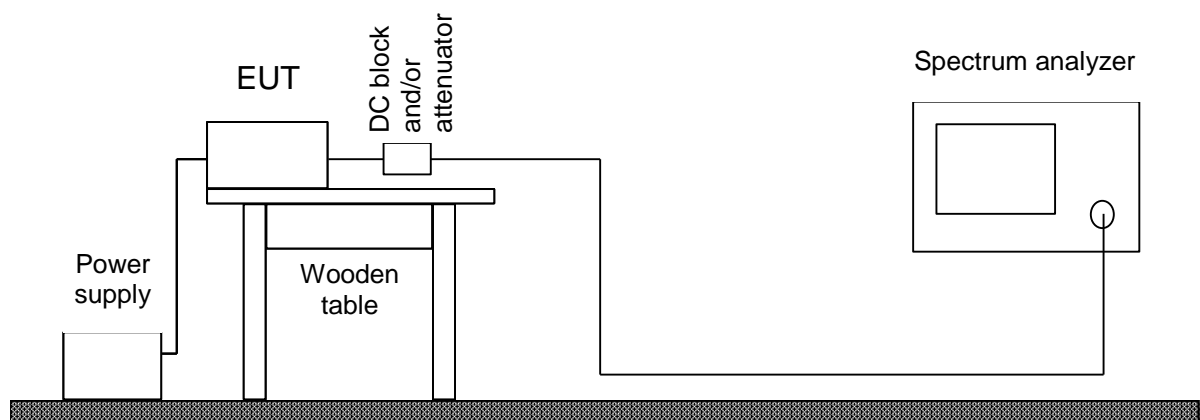
04787771, S/N: 23 - Modification State 0

2.2.3 Date of Test

2022-07-22

2.2.4 Test Method

This test was performed in accordance with ANSI C63.10. clause 11.9.1.
The RF output terminals are connected to a spectrum analyzer. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as dc block and appropriate attenuators (50 Ohms). The electrical characteristics of the radio frequency load attached to the output terminals shall be stated, if applicable.



2.2.5 Environmental Conditions

Ambient Temperature 22 °C
Relative Humidity 33 %



2.2.6 Test Results

Configuration Mode-1

| Frequency (MHz) | dBm | mW |
|-----------------|--------|-------|
| 2402 | -0.680 | 0.855 |
| 2440 | -0.591 | 0.873 |
| 2480 | -0.587 | 0.874 |

Table 6

FCC 47 CFR Part 15. Limit Clause 15.247 (b)

For systems using digital modulation in the 902–928 MHz. 2400–2483.5 MHz. and 5725–5850 MHz bands: 1 Watt.

ISED Canada RSS-247. Limit Clause 5.4

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz. the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W. except as provided in section 5.4(e) of the specification.

2.2.7 Test Location and Test Equipment Used

This test was carried out in a non-shielded room.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Due |
|--------------------------------|-----------------|-------------------|-------|-----------------------------|-----------------|
| Signal and Spectrum Analysator | Rohde & Schwarz | FSV40 for TS8997 | 20219 | 24 | 2024-02-29 |
| Switching device | Rohde & Schwarz | OSP120 for TS8997 | 20248 | 36 | 2023-02-28 |
| Testsystem 2,4 & 5 GHz Band | Rohde & Schwarz | TS8997 | 20251 | 24 | 2024-02-29 |
| Switching device | Rohde & Schwarz | OSP120 for TS8997 | 38807 | 36 | 2023-11-30 |
| EMC measurement software | Rohde & Schwarz | EMC32 V10.50.00 | 44381 | N/A | N/A |

Table 7

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment

N/A - Not Applicable



3 Test Equipment Information

3.1 General Test Equipment Used

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Due |
|--------------------------------|-----------------|-------------------------|-------|-----------------------------|-----------------|
| EMI test receiver | Rohde&Schwarz | ESW44 | 39897 | 12 | 2021-03-31 |
| ULTRALOG antenna | Rohde&Schwarz | HL562E | 39969 | 36 | 2022-11-30 |
| Loop antenna | Schwarzbeck | FMZB 1519B | 44334 | 36 | 2023-01-31 |
| Double ridged horn antenna | Rohde&Schwarz | HF 907 | 40089 | 24 | 2023-02-28 |
| Horn antenna with preamplifier | Rohde & Schwarz | LB-180400H + TS-LNA1840 | 43551 | 12 | 2021-12-31 |
| EMC measurement software | Rohde&Schwarz | EMC32 V10.50.10 | 42986 | N/A | N/A |
| Signal and Spectrum Analysator | Rohde&Schwarz | FSV40 for TS8997 | 20219 | 24 | 2024-02-29 |
| Switching device | Rohde&Schwarz | OSP120 for TS8997 | 20248 | 36 | 2023-02-28 |
| Testsystem 2,4 & 5 GHz Band | Rohde&Schwarz | TS8997 | 20251 | 24 | 2024-02-29 |
| Switching device | Rohde&Schwarz | OSP120 for TS8997 | 38807 | 36 | 2023-11-30 |
| EMC measurement software | Rohde&Schwarz | EMC32 V10.50.00 | 44381 | N/A | N/A |

Table 8

TU - Traceability Unscheduled
 O/P Mon – Output Monitored using calibrated equipment
 N/A - Not Applicable



4 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Radio Testing | | | |
|---|------|-------------------------------------|------|
| Test Name | kp | Expanded Uncertainty | Note |
| Occupied Bandwidth | 2.0 | $\pm 1.14 \%$ | 2 |
| RF-Frequency error | 1.96 | $\pm 1 \cdot 10^{-7}$ | 7 |
| RF-Power, conducted carrier | 2 | $\pm 0.079 \text{ dB}$ | 2 |
| RF-Power uncertainty for given BER | 1.96 | $+0.94 \text{ dB} / -1.05$ | 7 |
| RF power, conducted, spurious emissions | 1.96 | $+1.4 \text{ dB} / -1.6 \text{ dB}$ | 7 |
| RF power, radiated | | | |
| 25 MHz – 4 GHz | 1.96 | $+3.6 \text{ dB} / -5.2 \text{ dB}$ | 8 |
| 1 GHz – 18 GHz | 1.96 | $+3.8 \text{ dB} / -5.6 \text{ dB}$ | 8 |
| 18 GHz – 26.5 GHz | 1.96 | $+3.4 \text{ dB} / -4.5 \text{ dB}$ | 8 |
| 40 GHz – 170 GHz | 1.96 | $+4.2 \text{ dB} / -7.1 \text{ dB}$ | 8 |
| Spectral Power Density, conducted | 2.0 | $\pm 0.53 \text{ dB}$ | 2 |
| Maximum frequency deviation | | | |
| 300 Hz – 6 kHz | 2 | $\pm 2.89 \%$ | 2 |
| 6 kHz – 25 kHz | 2 | $\pm 0.2 \text{ dB}$ | 2 |
| Maximum frequency deviation for FM | 2 | $\pm 2.89 \%$ | 2 |
| Adjacent channel power 25 MHz – 1 GHz | 2 | $\pm 2.31 \%$ | 2 |
| Temperature | 2 | $\pm 0.39 \text{ K}$ | 4 |
| (Relative) Humidity | 2 | $\pm 2.28 \%$ | 2 |
| DC- and low frequency AC voltage | | | |
| DC voltage | 2 | $\pm 0.01 \%$ | 2 |
| AC voltage up to 1 kHz | 2 | $\pm 1.2 \%$ | 2 |
| Time | 2 | $\pm 0.6 \%$ | 2 |

Table 9



| Radio Interference Emission Testing | | | |
|---|----|----------------------|------|
| Test Name | kp | Expanded Uncertainty | Note |
| Conducted Voltage Emission | | | |
| 9 kHz to 150 kHz (50Ω/50μH AMN) | 2 | ± 3.8 dB | 1 |
| 150 kHz to 30 MHz (50Ω/50μH AMN) | 2 | ± 3.4 dB | 1 |
| 100 kHz to 200 MHz (50Ω/5μH AMN) | 2 | ± 3.6 dB | 1 |
| Discontinuous Conducted Emission | | | |
| 9 kHz to 150 kHz (50Ω/50μH AMN) | 2 | ± 3.8 dB | 1 |
| 150 kHz to 30 MHz (50Ω/50μH AMN) | 2 | ± 3.4 dB | 1 |
| Conducted Current Emission | | | |
| 9 kHz to 200 MHz | 2 | ± 3.5 dB | 1 |
| Magnetic Field strength | | | |
| 9 kHz to 30 MHz (with loop antenna) | 2 | ± 3.9 dB | 1 |
| 9 kHz to 30 MHz (large-loop antenna 2 m) | 2 | ± 3.5 dB | 1 |
| Radiated Emission | | | |
| Test distance 1 m (ALSE) | | | |
| 9 kHz to 150 kHz | 2 | ± 4.6 dB | 1 |
| 150 kHz to 30 MHz | 2 | ± 4.1 dB | 1 |
| 30 MHz to 200 MHz | 2 | ± 5.2 dB | 1 |
| 200 MHz to 2 GHz | 2 | ± 4.4 dB | 1 |
| 2 GHz to 3 GHz | 2 | ± 4.6 dB | 1 |
| Test distance 3 m | | | |
| 30 MHz to 300 MHz | 2 | ± 4.9 dB | 1 |
| 300 MHz to 1 GHz | 2 | ± 5.0 dB | 1 |
| 1 GHz to 6 GHz | 2 | ± 4.6 dB | 1 |
| Test distance 10 m | | | |
| 30 MHz to 300 MHz | 2 | ± 4.9 dB | 1 |
| 300 MHz to 1 GHz | 2 | ± 4.9 dB | 1 |
| Radio Interference Power | | | |
| 30 MHz to 300 MHz | 2 | ± 3.5 dB | 1 |
| Harmonic Current Emissions | | | 4 |
| Voltage Changes, Voltage Fluctuations and Flicker | | | 4 |

Table 10



| Immunity Testing | | | |
|--|------|----------------------|------|
| Test Name | kp | Expanded Uncertainty | Note |
| Electrostatic Discharges | | | 4 |
| Radiated RF-Field | | | |
| Pre-calibrated field level | 2 | +32.2 / -24.3 % | 5 |
| Dynamic feedback field level | 2.05 | +21.2 / -17.5 % | 3 |
| Electrical Fast Transients (EFT) / Bursts | | | 4 |
| Surges | | | 4 |
| Conducted Disturbances, induced by RF-Fields | | | |
| via CDN | 2 | +15.1 / -13.1 % | 6 |
| via EM clamp | 2 | +42.6 / -29.9 % | 6 |
| via current clamp | 2 | +43.9 / -30.5 % | 6 |
| Power Frequency Magnetic Field | 2 | +20.7 / -17.1 % | 2 |
| Pulse Magnetic Field | | | 4 |
| Voltage Dips, Short Interruptions and Voltage Variations | | | 4 |
| Oscillatory Waves | | | 4 |
| Conducted Low Frequency Disturbances | | | |
| Voltage setting | 2 | ± 0.9 % | 2 |
| Frequency setting | 2 | ± 0.1 % | 2 |
| Electrical Transient Transmission in Road Vehicles | | | 4 |

Table 11



Note 1:

The expanded uncertainty reported according to CISPR 16-4-2:2003-11 is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$, providing a level of confidence of $p = 95.45\%$

Note 2:

The expanded uncertainty reported according to UKAS Lab 34 (Edition 1, 2002-08) is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$, providing a level of confidence of $p = 95.45\%$

Note 3:

The expanded uncertainty reported according to UKAS Lab 34 (Edition 1, 2002-08) is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2.05$, providing a level of confidence of $p = 95.45\%$

Note 4:

It has been demonstrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence.

Note 5:

The expanded uncertainty reported according to IEC 61000-4-3 is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$, providing a level of confidence of $p = 95.45\%$

Note 6:

The expanded uncertainty reported according to IEC 61000-4-6 is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$, providing a level of confidence of $p = 95.45\%$

Note 7:

The expanded uncertainty reported according to ETSI TR 100 028 V1.4.1 (all parts) is based on a standard uncertainty multiplied by a coverage factor of $k_p = 1.96$, providing a level of confidence of $p = 95.45\%$

Note 8:

The expanded uncertainty reported according to ETSI TR 102 273 V1.2.1 (all parts) is based on a standard uncertainty multiplied by a coverage factor of $k_p = 1.96$, providing a level of confidence of $p = 95.45\%$