

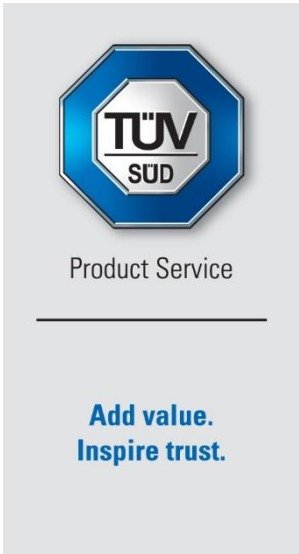
Report on the FCC and IC Testing of the
Dentsply Sirona / Sirona Dental Systems GmbH

Model: D3692a

In accordance with FCC 47 CFR Part 15 C and
ISED RSS-210 and ISED RSS-Gen (partly)

Prepared for: Dentsply Sirona / Sirona Dental
Systems GmbH
Fabrikstraße 31
64625 Bensheim
Germany

FCC ID: 2AD7W-6617620
IC: 12730A-6617620



COMMERCIAL-IN-CONFIDENCE

Date: 2025-08-13
Document Number: TR-713368744-03 | Revision 2

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Project Management	Alex Fink	2025-08-13	 SIGN-ID 1065500
Authorised Signatory	Alexander Grill	2025-08-13	 SIGN-ID 1065507

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

Engineering Statement:

This measurement 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 with FCC 47 CFR
Part 15 C and ISED RSS-210 and RSS-GEN (partly).
The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Alex Fink	2025-08-13	 SIGN-ID 1065500

Laboratory recognition
Registration No. BNetzA-CAB-16/21-15
Industry Canada test site registration
3050A-2

Executive Statement:

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15 C:2023 and
ISED RSS-210, Issue 11:2024 and ISED RSS-Gen, Issue 5 + Amd. 2:2021 (partly)

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1 Report Summary

1.1 Modification Report

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

Revision	Description of changes	Date of Issue
0	First Issue	2025-05-15
1	Changed Model from "6617620 D3692a" to "D3692a". Added antenna information.	2025-08-08
2	Additional Family Approval information added.	2025-08-13

Table 1: Report of Modifications

1.2 Introduction

Applicant	Dentsply Sirona / Sirona Dental Systems GmbH Fabrikstraße 31 64625 Bensheim Germany
Manufacturer	Dentsply Sirona / Sirona Dental Systems GmbH
Model Number(s)	D3692a
Additional Family Approval	D3692b
Model Numbers(s)	D3692c
Serial Number(s)	606156
Hardware Version(s)	---
Software Version(s)	---
Number of Samples Tested	1
Test Specification(s) / Issue / Date	FCC 47 CFR Part 15 C : 2023 and ISED RSS-210, Issue 11, : 2024 ISED RSS-Gen, Issue 5 + Amd. 2 : 2021
Test Plan/Issue/Date	---
Order Number	---
Date	
Date of Receipt of EUT	2025-04-01
Start of Test	2025-04-01
Finish of Test	2025-04-11
Name of Engineer(s)	Alex Fink
Related Document(s)	ANSI C63.10:2013
Note(s):	Only Conducted Disturbance at Mains Terminal and Radiated Disturbance test were performed



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15 C and ISED RSS-210 and RSS-Gen is shown below.

<i>Section</i>	<i>Specification Clause</i>	<i>Test Description</i>	<i>Result</i>
---	15.203	Antenna requirement	Not performed
---	15.215(c)	Bandwidth of Signal	Not performed
2.2	15.207	Conducted Disturbance at Mains Terminal	Pass
2.1	15.209, 15.225	Radiated Disturbance	Pass
---	15.225(e)	Frequency Tolerance	Not performed

Table 2: Results according to FCC 47 CFR Part 15 C

<i>Section</i>	<i>Specification Clause</i>	<i>Test Description</i>	<i>Result</i>
2.1	7.3	Radiated Emissions	Pass
2.2	7.3	AC Power Line Conducted Emissions	Pass
---	B.6 b.	Frequency Tolerance	Not performed

Table 3: Results according to ISED RSS-210

<i>Section</i>	<i>Specification Clause</i>	<i>Test Description</i>	<i>Result</i>
---	6.7	Bandwidth of Signal	Not performed
2.2	8.8	AC Power Line Conducted Emissions	Pass
2.1	8.9, 8.10	Radiated Emissions	Pass
---	6.11	Frequency Tolerance	Not performed

Table 4: Results according to ISED RSS-Gen

1.4 Product Information

1.4.1 Technical Description

CEREC Primemill is an electrical equipment for laboratory use. It is power supplied with a maximum voltage of 240 VAC and is used in a commercial environment to produce computer-aided dental restorations, e.g. from natural appearing ceramic material or zirconia as well as surgical guides for placing implants.

CEREC Primemill is intended for use in dental practices (outside the patient area), dental laboratories and areas with a controlled electromagnetic environment, and is served within these areas by trained personnel.

RFID is used for milling, grinding tools and cooling tank for identification.

Frequency Band 13.110 – 14.010 MHz

Number of frequency channels: 1

Supply Voltage: 120 V

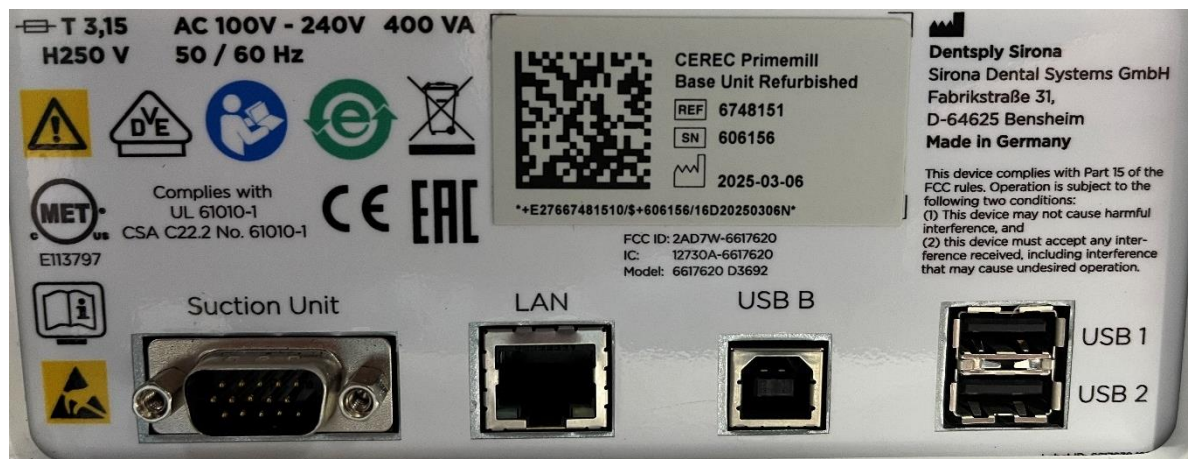
Supply Frequency: 60 Hz

Highest clock frequency 13.56 MHz

(radio part):

Highest clock frequency above 108 MHz

(non-radio part):



1.4.2 List of Antennas

As declared by applicant:

Type designation	Antenna type	Polarization	Average gain
6710102	Single layer PCB loop antenna	Circular	7.5 dBi
LCM4_RFID-Cer2-4	6-layer PCB loop antenna	Circular	-1.2 dBi



1.4.3 EUT Ports / Cables identification

Port	Max Cable Length Specified	Usage	Type	Screened	Comment
Line Name	Length	Line Usage	Line Type	Screened	Comments
AC power port	---	3 m	AC power	No	---
Suction Unit / D-Sub	> 3 m	3 m	Signal / control port	Yes	---
LAN	> 30 m	3 m	Signal / control port	Yes	---
USB B	> 3 m	3 m	Signal / control port	Yes	---
USB 1	> 3 m	---	Signal / control port	Yes	---
USB 2	> 3 m	3 m	Signal / control port	Yes	---

Note: USB 1 and USB 2 are identical. Therefore, only USB 2 was tested representative for both lines.

Table 5

1.4.4 Family Approval Model Numbers

Information provided by applicant:

The Radio HF and LF Part is identical in all machine variants, see table below:

	6617620 D3692	D3692a	D3692b	D3692c
Material spectrum	full	full	full	Only Hybrid/Composite
Indication spectrum	full	full	full	Only crowns, inlays, onlays, veneers
Milling	yes	yes	yes	no
Grinding	yes	yes	yes	yes
DS Core Cloud Connection	Optional or Mandatory	Optional or Mandatory	Mandatory	Mandatory
No. of spindle motors	4	4	2	2
Housing colors	Black/White	Black/White	Black/White	Grey/White
Light Strip at front	yes	yes	yes	no
Cutting Tools with RFID	yes	yes	yes	no
Grinding Tools with white RFID	yes	yes	yes	no
Grinding Tools with violet RFID	yes	yes	yes	yes

Testing was performed exclusively on model D3692a as the worst-case configuration, since models D3692b and D3692c are reduced-component variants.



1.5 Test Configuration

The EUT was configured in stand alone mode.

1.6 Modes of Operation

Tests were performed with the EUT continuously polling and with the EUT continuously reading both tags. Antennas from both readers are transmitting simultaneously.

1.7 EUT Modifications 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

Table 6

1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing test laboratory:

Test Name	Name of Engineer(s)
Radiated Disturbance	Alex Fink
Conducted Emissions on Mains Terminals	Alex Fink

Office Address:

Äußere Frühlingstraße 45
94315 Straubing
Germany



2 Test Details

2.1 Radiated Emissions

2.1.1 Specification Reference

FCC 47 CFR Part 15 C, Clauses 15.205, 15.209 and 15.225
ISED RSS-210, Clause 7.7 and B.6
ISED RSS-Gen, Clauses 8.9 and 8.10

2.1.2 Equipment under Test and Modification State

D3692a, SN: 606156 - Modification State 0

2.1.3 Date of Test

2025-04-01

2.1.4 Environmental Conditions

Ambient Temperature	21 °C
Relative Humidity	43 %



2.1.5 Specification Limits

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 – 13.110	30	0.08	-21.94	30	29.54
13.110 – 13.410	30	0.283	-11.0	106	40.5
13.410 – 13.553	30	0.891	-1.0	334	50.5
13.553 – 13.567	30	42.26	32.5	15848	84
13.567 – 13.710	30	0.891	-1.0	334	50.5
13.710 – 14.010	30	0.283	-11.0	106	40.5
14.010 - 30	30	0.08	-21.94	30	29.54
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					

Table 7 Radiated emission limits

At frequencies at or above 30 MHz, measurements may be performed at distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempts should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

2.1.6 Test Method

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

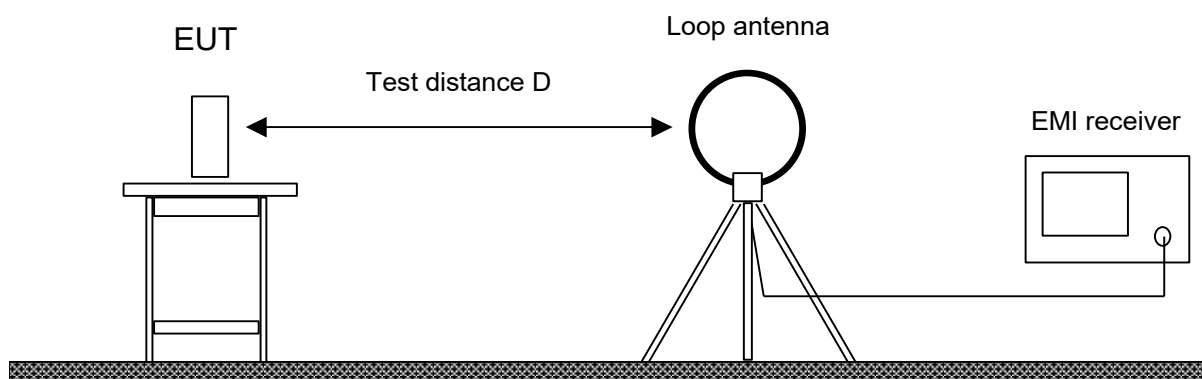
Prescans are performed in six positions of the EUT to get the full spectrum of emission caused by the EUT with the measuring antenna raised and lowered from 1 m to 4 m with vertical and horizontal polarisation to find the combination of table position, antenna height and antenna polarisation for the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

2.1.6.1 Frequency range 9 kHz – 30 MHz

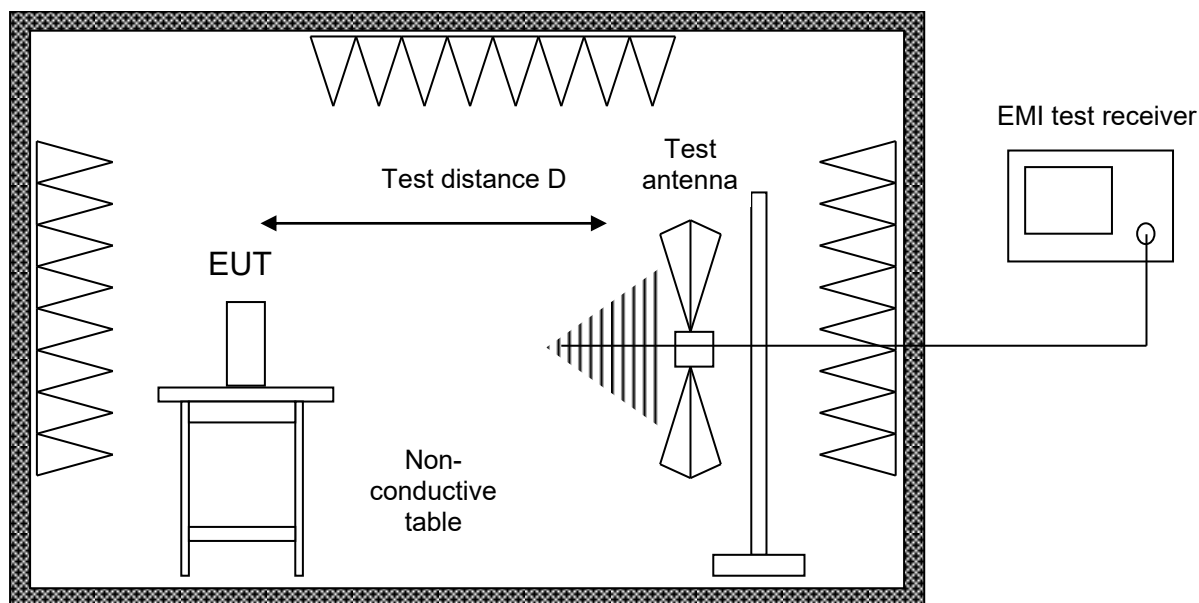


The EUT was placed on a non-conductive table, 0.8 m above the ground.

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.

2.1.6.2 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 are measured within a semi-anechoic room with a 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.



2.1.7 Test Results

<i>Frequency range</i>	<i>Limit applied</i>	<i>Test distance</i>
9 kHz – 30 MHz	15.209; 15.225	3 m
30 MHz – 1 GHz	15.209	3 m

Table 8

Antennas from both readers are transmitting simultaneously, see section 1.6. Modes of operation.

Sample calculation:

$$\text{Final Value (dB}\mu\text{V/m)} = \text{Reading Value (dB}\mu\text{V)} + (\text{Cable attenuation (dB)} + \text{Antenna Transducer (dB(1/m))})$$

Additional correction of limit in the frequency range 9 – 490 kHz (300 m to 3 m): -80.0 dB

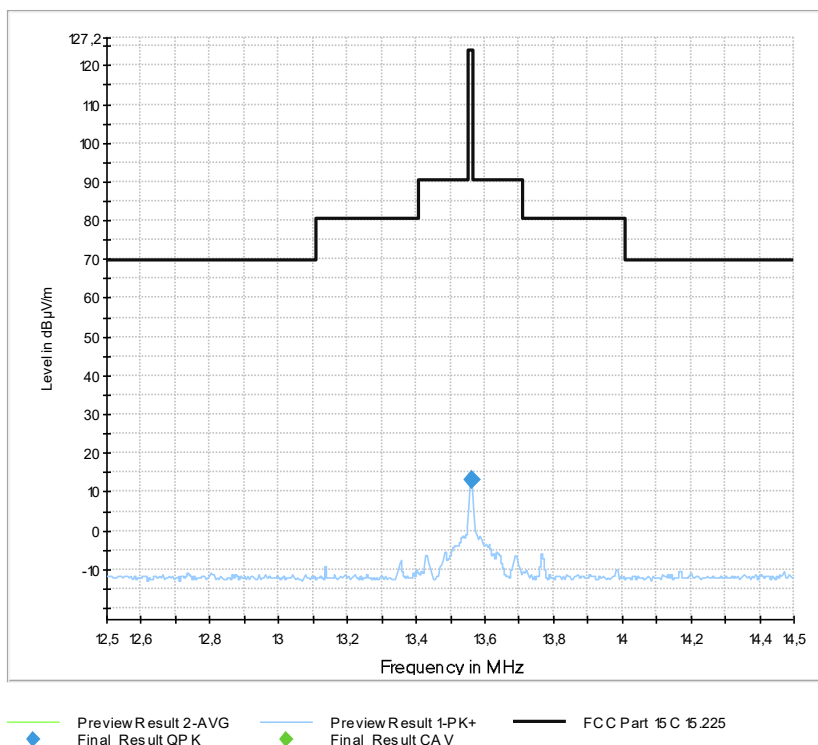
Additional correction of limit in the frequency range 490 kHz – 30 MHz (30 m to 3 m): -40.0 dB

Additional correction of limit in the frequency ranges above 1 GHz (3 m to 1 m): -9.54 dB



2.1.7.1 Test Results for Polling Mode

Frequency range 12.5 MHz – 14.5 MHz (Spectrum Mask acc. 15.225(a)-(c)):

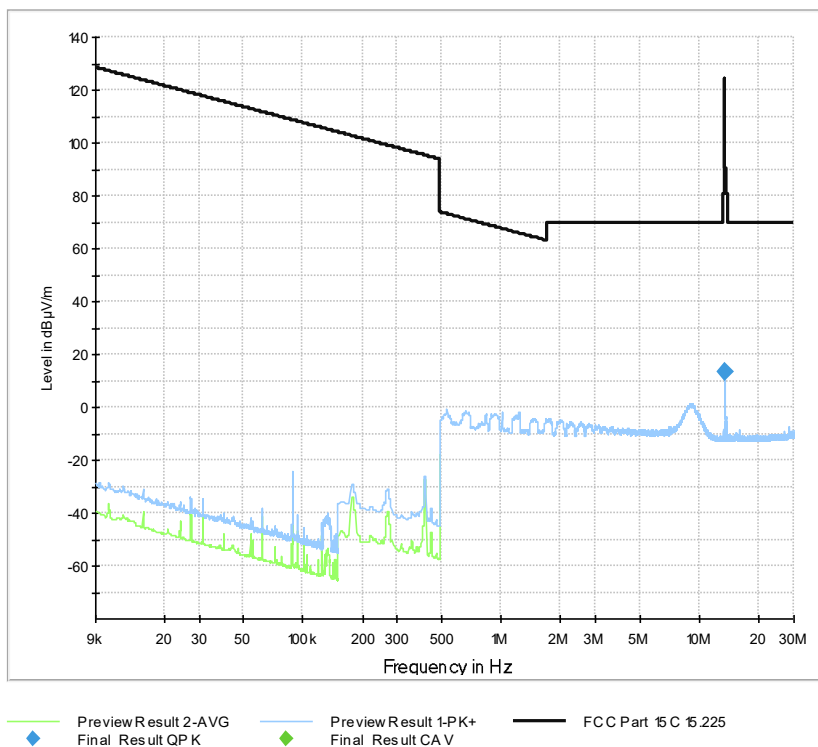


Final Results:

Frequency MHz	QuasiPeak dBμV/m	Limit dBμV/m	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB/m
13.561000	13.23	124.00	110.77	1000.0	9.000	100.0	H	101.0	-20.8



Frequency range 9 kHz – 30 MHz:



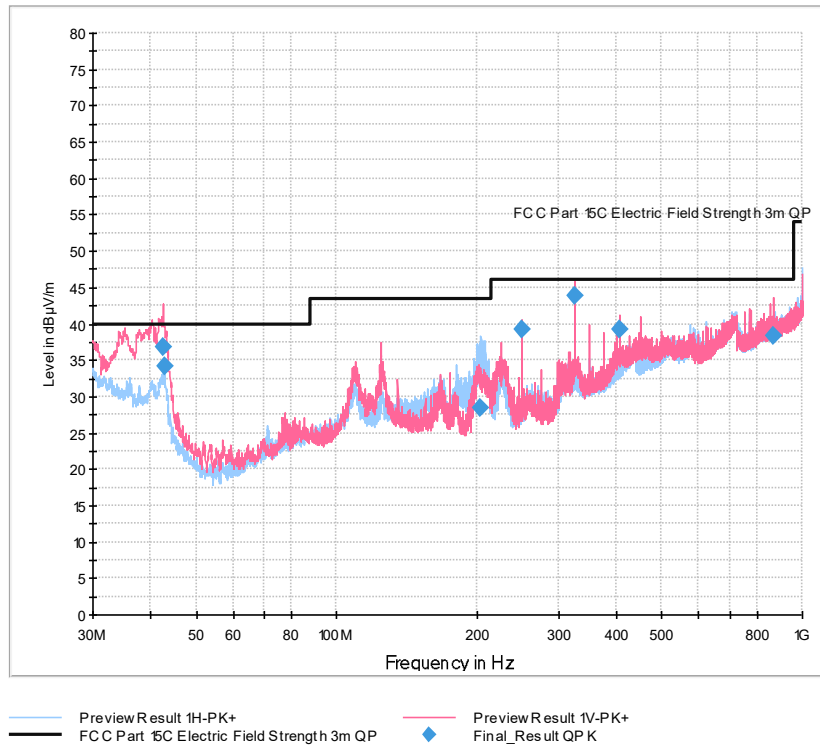
Final Results:

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB/m
13.561000	13.23	124.00	110.77	1000.0	9.000	100.0	H	101.0	-20.8



Product Service

Frequency range 30 MHz – 1 GHz:



Final Results:

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Band- width kHz	Height cm	Pol	Azi- muth deg	Corr. dB/m
42.600000	36.72	40.00	3.28	1000.0	120.000	140.0	V	135.0	17.8
42.840000	34.24	40.00	5.76	1000.0	120.000	114.0	V	144.0	17.7
203.340000	28.41	43.50	15.09	1000.0	120.000	100.0	H	168.0	15.7
250.020000	39.16	46.02	6.86	1000.0	120.000	169.0	V	170.0	17.4
325.020000	43.86	46.02	2.16	1000.0	120.000	129.0	V	48.0	20.0
406.440000	39.33	46.02	6.69	1000.0	120.000	103.0	V	26.0	22.4
867.840000	38.30	46.02	7.72	1000.0	120.000	145.0	V	5.0	29.9



2.1.8 Test Location and Test Equipment

The test was carried out in semi anechoic room, Cabin No. 11

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Loop antenna	Rohde & Schwarz	FMZB 1519 C	72526	36	2028-01-31
ULTRALOG Antenna	Rohde & Schwarz	HL562E	61486	36	2026-04-30
Fixed attenuator	Rohde & Schwarz	HL562E-ATT 6dB	61491	36	2026-04-30
EMI test receiver	Rohde & Schwarz	ESW44	39897	12	2026-03-31
Semi anechoic room	Frankonia	Cabin No. 11	42961	24	2026-09-17
EMC measurement software	Rohde & Schwarz	EMC32 Emission K11 - V11.50	42986	---	---

Table 9



2.2 Conducted Emissions on Mains Terminals

2.2.1 Specification Reference

FCC 47 CFR Part 15 C, Clause 15.207
ICES-003, Clause 6.1

2.2.2 Equipment under Test and Modification State

D3692a, SN: 606156 - Modification State 0

2.2.3 Date of Test

2025-04-01 and 2025-04-11

2.2.4 Environmental Conditions

Ambient Temperature 22 °C
Relative Humidity 29 %

2.2.5 Specification Limits

Required Specification Limits (Class A)			
Line Under Test	Frequency Range (MHz)	Quasi-peak (dBμV)	Average (dBμV)
AC Power Port	0.15 to 0.5	79	66
	0.5 to 30	73	60

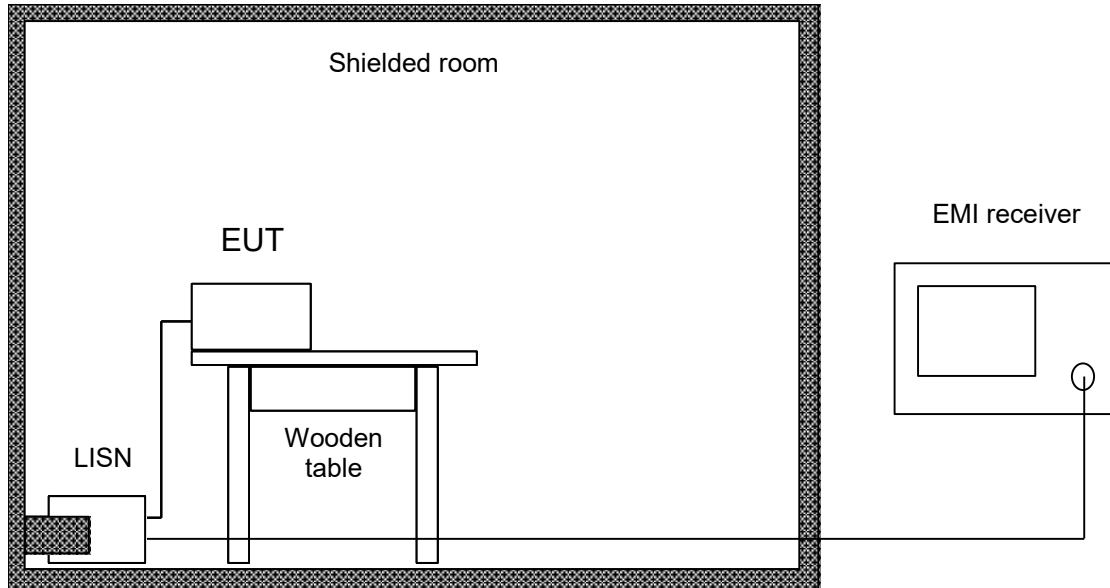
Table 10 Class A emission limits

Required Specification Limits (Class B)			
Line Under Test	Frequency Range (MHz)	Quasi-peak (dBμV)	Average (dBμV)
AC Power Port	0.15 to 0.5	66 to 56*	56 to 46*
	0.5 to 5	56	46
	5 to 30	60	50
Supplementary information: *Decreases with the logarithm of the frequency.			

Table 11 Class B emission limits

2.2.6 Test Method

The test was performed according to ANSI C63.4, sections 5.2 and 7.



The EUT was placed on a non-conductive table 0.8 m above a reference ground plane and 0.4 m away from a vertical coupling plane.

All power was connected to the EUT through an Line Impedance Stabilization Network (LISN). Conducted disturbance voltage measurements on mains lines were made at the output of the LISN. The LISN was placed 0.8 m from the boundary of the EUT and bounded to the reference ground plane. To simplify testing with quasi-peak and linear average (cisp-average) detector the following procedure is used:

First the whole spectrum of emission caused by the equipment under test (EUT) is recorded with the detectors set to peak and average using CISPR bandwidth of 10 kHz. After that all emission levels having less margin than 10 dB to or exceeding the average limit are retested with the detectors set to quasi-peak and average. If the average limit is kept with quasi-peak levels measurement with average detector is optional. In cases of emission levels between quasi-peak and average limit an additional measurement with average detector has to be performed.

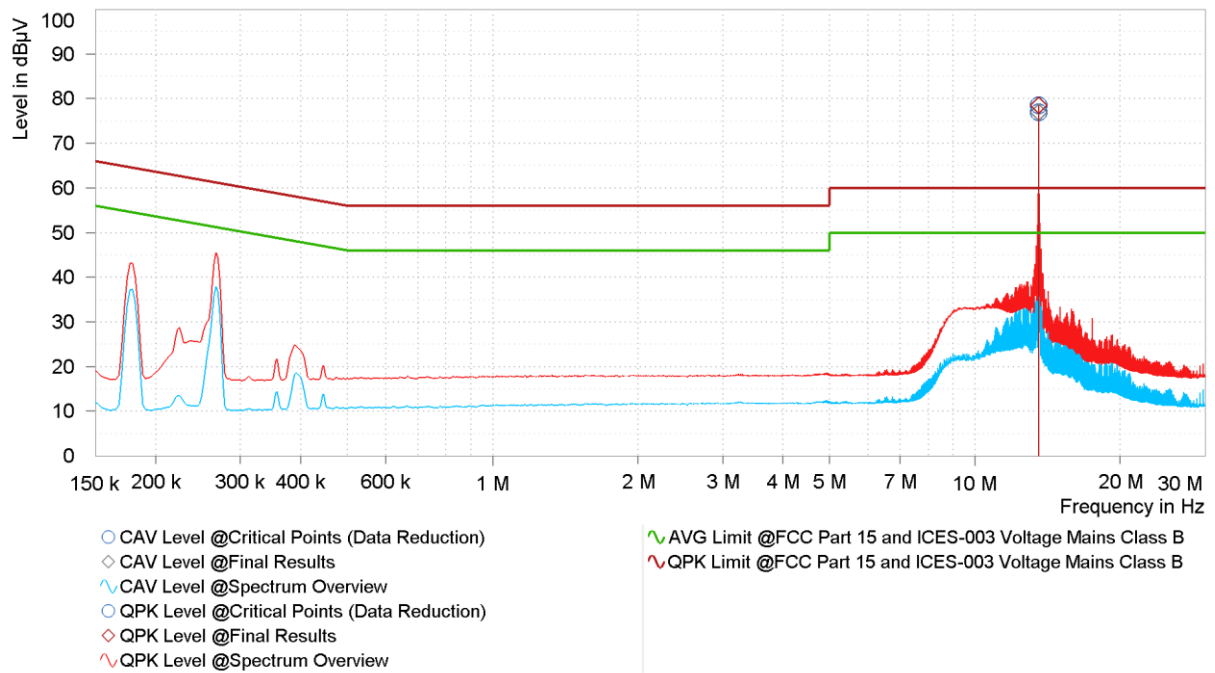


2.2.7 Test Results

Sample calculation:

$$\text{Final Value (dB}\mu\text{V)} = \text{Reading Value (dB}\mu\text{V)} + (\text{Cable attenuation (dB)} + \text{LISN Transducer (dB)})$$

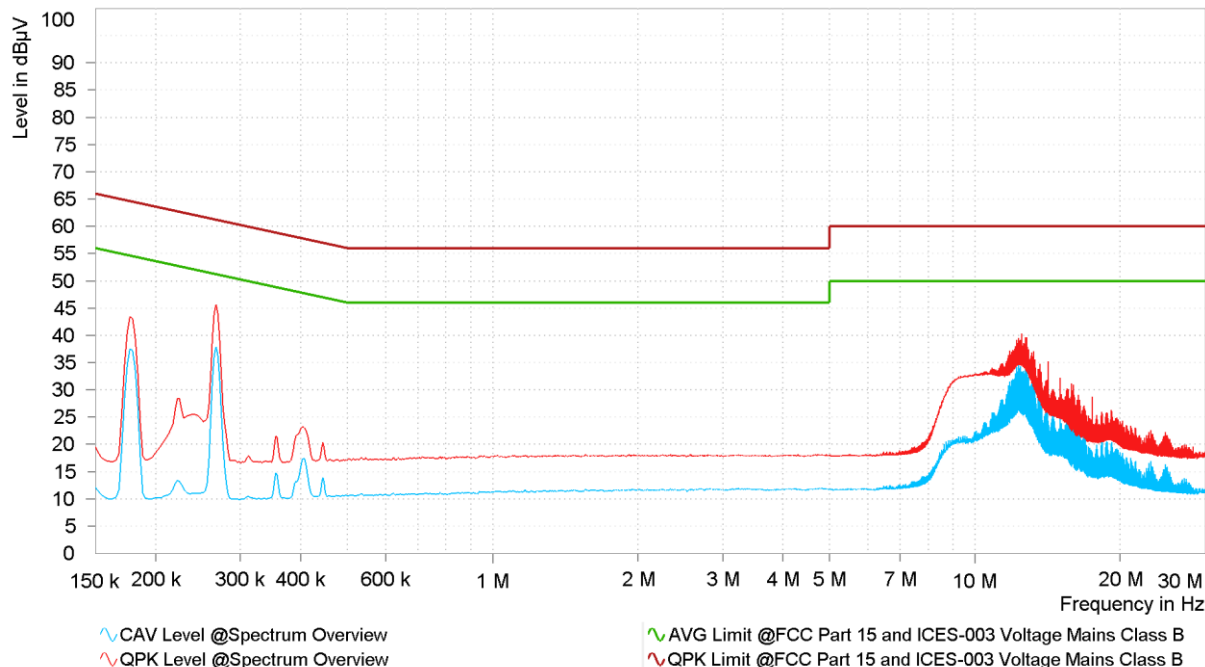
Continuously reading RFID tag



Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
1	13.560	78.46	60.00	-18.46	76.95	50.00	-26.95	10.27	L1	9.000	15.000



Continuously reading RFID tag – antenna replaced with 50 Ohm resistor



Rg	Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	CAV Level [dBµV]	CAV: AVG Limit [dBµV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
-	---	---	---	---	---	---	---	---	---	---	---

2.2.8 Test Location and Test Equipment

The test was carried out in a shielded room. cabin no. 9.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
V-Network	Rohde & Schwarz	ENV216	39908	12	2025-05-31
EMI test receiver	Rohde & Schwarz	EPL1000	67137	12	2025-05-31

Table 12



3 Measurement Uncertainty

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

<i>Radio Interference Emission Testing</i>		
<i>Test Name</i>	<i>kp</i>	<i>Expanded Uncertainty</i>
Conducted Voltage Emission		
9 kHz to 150 kHz (50Ω/50μH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50μH AMN)	2	± 3.4 dB
100 kHz to 200 MHz (50Ω/5μH AMN)	2	± 3.6 dB
Discontinuous Conducted Emission		
9 kHz to 150 kHz (50Ω/50μH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50μH AMN)	2	± 3.4 dB
Conducted Current Emission		
9 kHz to 200 MHz	2	± 3.5 dB
Magnetic Fieldstrength		
9 kHz to 30 MHz (with loop antenna)	2	± 3.9 dB
9 kHz to 30 MHz (large-loop antenna 2 m)	2	± 3.5 dB
Radiated Emission		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 5.0 dB
1 GHz to 6 GHz	2	± 4.6 dB
Test distance 10 m		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 4.9 dB
The expanded uncertainty reported according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$, providing a level of confidence of $p = 95.45\%$		

Table 13 Measurement uncertainty based on CISPR 16-4-2



<i>Radio Interference Emission Testing</i>		
<i>Test Name</i>	<i>kp</i>	<i>Expanded Uncertainty</i>
Occupied Bandwidth	2	± 5 %
Conducted Power		
9 kHz ≤ f < 30 MHz	2	± 1.0 dB
30 MHz ≤ f < 1 GHz	2	± 1.5 dB
1 GHz ≤ f ≤ 40 GHz	2	± 2.5 dB
1 MS/s power sensor (TS8997)	2	± 1.5 dB
Occupied Bandwidth	2	± 5 %
Power Spectral Density	2	± 3.0 dB
Radiated Power		
25 MHz – 6 GHz	1.96	±4.4 dB
1 GHz – 18 GHz	1.96	±4.7 dB
18 GHz – 40 GHz	1.96	±4.9 dB
40 GHz – 325 GHz	1.96	±6.1 dB
Conducted Spurious Emissions	2	± 3.0 dB
Radiated Spurious Emissions	2	± 6.0 dB
Voltage		
DC	2	± 1.0 %
AC	2	± 2.0 %
Time (automatic)	2	± 5 %
Frequency	2	± 10 ⁻⁷
The expanded uncertainty reported according to ETSI TR 100 028:2001 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%		

Table 14 Measurement uncertainty based on ETSI TR 100 028

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 (U_{CISPR}) and as specified in the test report below. This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.



Test Name	Expanded Uncertainty
Occupied Bandwidth	±5 %
Conducted Power	
9 kHz ≤ f < 30 MHz	±1.0 dB
30 MHz ≤ f < 1 GHz	±1.5 dB
1 GHz ≤ f ≤ 40 GHz	±2.5 dB
1 MS/s power sensor (2.4 / 5 GHz band)	±1.5 dB
Power Spectral Density	±3.0 dB
Radiated Power	
25 MHz – 26.5 GHz	±6.0 dB
26.5 GHz – 66 GHz	±8.0 dB
40 GHz – 325 GHz	±10.0 dB
Conducted Spurious Emissions	±3.0 dB
Radiated Field Strength 9 kHz – 40 GHz	±6.0 dB
Voltage	
DC	± 1.0 %
AC	± 2.0 %
Time (automatic)	± 5 %
Frequency	± 10 ⁻⁷

Table 15 Decision Rule: Maximum allowed measurement uncertainty

End of Test Report