

FCC and ISED Test Report

Manufacturer: Danfoss A/S

Case Controller, Model: AK-CC25 Pro BT



In accordance with FCC 47 CFR Part 15B and ICES-003

**Add value.
Inspire trust.**

Prepared for: Danfoss A/S
Nordborgvej 81
6430 Nordborg
Denmark

FCC ID: 2ATXJ- AKCC25

IC: 25253-AKCC25

COMMERCIAL-IN-CONFIDENCE

Document 75965025-02 Issue 02

SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Matthew Dawkins	Senior Engineer, EMC	Authorised Signatory	17 June 2026

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

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 15B and ICES-003. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Adam Holloway	17 June 2026	
	Callum Pennells	17 June 2026	
	Nathan Harrison	17 June 2026	

FCC Accreditation

492497/UK2010 Octagon House, Fareham Test Laboratory

ISED Accreditation

12669A/UK0003 Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15B 2024 and ICES-003 Issue 7: 2020 for the tests detailed in section 1.3.



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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	12-Sept-2025
2	Added HVIN number to the report introduction section	17-Jun-2026

Table 1

1.2 Introduction

Applicant	Danfoss A/S
Manufacturer	Danfoss A/S Nordborgvej 81 6430, Syddanmark Nordborg DENMARK
Model Number(s)	AK-CC25 Pro BT
Hardware Version Identification Number (HVIN)	084B4023 and 084B4025
Serial Number(s)	004601N305
Hardware Version(s)	PV 1.0
Software Version(s)	EMC SW v1.03
Number of Samples Tested	1
Test Specification/Issue/Date	FCC 47 CFR Part 15B 2024 ICES-003 Issue 7: 2020
Order Number	4410810859
Date	23-June-2025
Date of Receipt of EUT	23-July-2025
Start of Test	21-July-2025
Finish of Test	28-July-2025
Name of Engineer(s)	Adam Holloway Callum Pennells Nathan Harrison
Related Document(s)	ANSI C63.4: 2014



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15B, and ICES-003 is shown below.

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - Idle				
2.1	15.107 and 3.2.1	Conducted Emissions, AC Power Port	Pass	ANSI C63.4: 2014
2.2	15.109 and 3.2.2	Radiated Emissions	Pass	ANSI C63.4: 2014

Table 2



1.4 Declaration of Build Status

MAIN EUT	
MANUFACTURING DESCRIPTION	AK-CC25 variants is Complete refrigeration appliance control with flexibility to adapt to refrigeration appliances and cold storage rooms. The controller with Bluetooth contains a *Renesas' ultra-low power, BLE-protocol, wireless MCU, DA14531. The controller contains all required passive components, including a 32 MHz crystal and a Stamped metal PCB antenna. All variants are based on same PCB layout and BLE circuit.
MANUFACTURER	Danfoss A/S
MODEL	AK-CC25 Pro BT
PART NUMBER	084B4023 and 084B4025
SERIAL NUMBER (SIN)	004601N305
HARDWARE VERSION	PV 1.0
SOFTWARE VERSION	EMC SW v1.03
PSU VOLTAGE/FREQUENCY/CURRENT	100 V – 240 Vac 50/60Hz 0.15A
INTENDED OPERATING ENVIRONMENT	Industrial
DIMENSIONS/WEIGHT	WxHxD: 85mm x 40mm x 70.7mm 0.13Kg
TYPICAL INSTALLATION	Panel mount in cabinet
HIGHEST INTERNALLY GENERATED FREQUENCY	2483,5 MHz
FCC ID (if applicable)	2ATXJ- AKCC25
INDUSTRY CANADA ID (if Applicable)	25253-AKCC25
COUNTRY OF ORIGIN	Denmark. DK
RF CHARACTERISTICS (if applicable)	
TRANSMITTER FREQUENCY OPERATING RANGE (MHz)	2400M - 2483,5MHz
RECEIVER FREQUENCY OPERATING RANGE (MHz)	2400M - 2483,5MHz
MANUFACTURER DECLARED VARIANTS (IF APPLICABLE)	AK-CC25 Pro BT / Part No. 084B4023 / Description: Case controller, 4 relay, BLE, Pro Software * AK-CC25 Ultra BT / Part No. 084B4025 / Description: case controller, SSR, 3 relay, BLE, Ultra Software # #-Shares same HW, 3 relay and 1 SSR model, with or Without BLE, SW different. Note: PCB remains the same for all variants, the population of components will vary based on the model.

I hereby declare that the information supplied is correct and complete.

Name: Hans Jorgen Petersen
Position held: Senior Manager, Global HW development
Date: 11-7-2025

Note: No responsibility will be accepted by TUV SUD as to the accuracy of the information declared on this Build State Declaration by the manufacturer.



1.5 Product Information

1.5.1 Technical Description

The Equipment under test (EUT) was a Danfoss A/S Case controller, Model: AK-CC25 Pro BT.

The primary function of the EUT is the detection of temperature fluctuations and to display them on an LCD screen



Figure 1 – Equipment Under Test

1.5.2 EUT Port/Cable Identification

Port	Max Cable Length specified	Usage	Type	Screened
Configuration and Mode: AC Powered - Idle				
AC Power Port	4 m	Power	3 Core Cable	No

Table 3

1.5.3 Test Configuration

Configuration	Description
Idle	The EUT was powered from a 115 V 60 Hz AC mains supply. The EUT had no other connections made.

Table 4



1.5.4 Modes of Operation

Mode	Description
Idle	The EUT was powered and operating with transmitters disabled.

Table 5

1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.7 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
Model: AK-CC25 Pro BT, Serial Number: 004601N305			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 6

1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: AC Powered - Idle		
Conducted Emissions, AC Power Port	Adam Holloway and Callum Pennells	UKAS
Radiated Emissions	Callum Pennells and Nathan Harrison	UKAS

Table 7

Office Address:

TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire
PO15 5RL
United Kingdom



2 Test Details

2.1 Conducted Emissions, AC Power Port

2.1.1 Specification Reference

FCC 47 CFR Part 15B and ICES-003, Clause 15.107 and 3.2.1

2.1.2 Equipment Under Test and Modification State

AK-CC25 Pro BT, S/N: 004601N305 - Modification State 0

2.1.3 Date of Test

28-July-2025

2.1.4 Test Method

The EUT was setup according to ANSI C63.4, clause 5.2.

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

A Line Impedance Stabilisation Network (LISN) was directly bonded to the ground-plane. The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN was 0.8 m.

Interconnecting cables that hanged closer than 0.4 m to the ground plane were folded back and forth in the centre forming a bundle 0.3 m to 0.4 m long.

Input and output cables were terminated with equipment or loads representative of real usage conditions.

The EUT was configured to give the highest level of emissions within reason of a typical installation as described by the manufacturer.

A Peak detector pre-scan of the EUT emissions profile was measured across the appropriate frequency range.

Where all pre-scan peak emissions measured were greater than 20 dB below the CISPR Average test limit, no final measurements were made in accordance with ANSI C63.4.

Where any pre-scan peak emissions were within 20 dB of the CISPR Average test limit, the six highest pre-scan emissions seen across the frequency range were measured for at least 15 seconds using a Peak, Quasi-Peak or CISPR Average detector as appropriate to the test limit being measured against.

2.1.5 Example Calculation

Quasi-Peak level (dBμV) = Receiver level (dBμV) + Correction Factor (dB)
Margin (dB) = Quasi-Peak level (dBμV) - Limit (dBμV)

CISPR Average level (dBμV) = Receiver level (dBμV) + Correction Factor (dB)
Margin (dB) = CISPR Average level (dBμV) - Limit (dBμV)

2.1.6 Example Test Setup Diagram

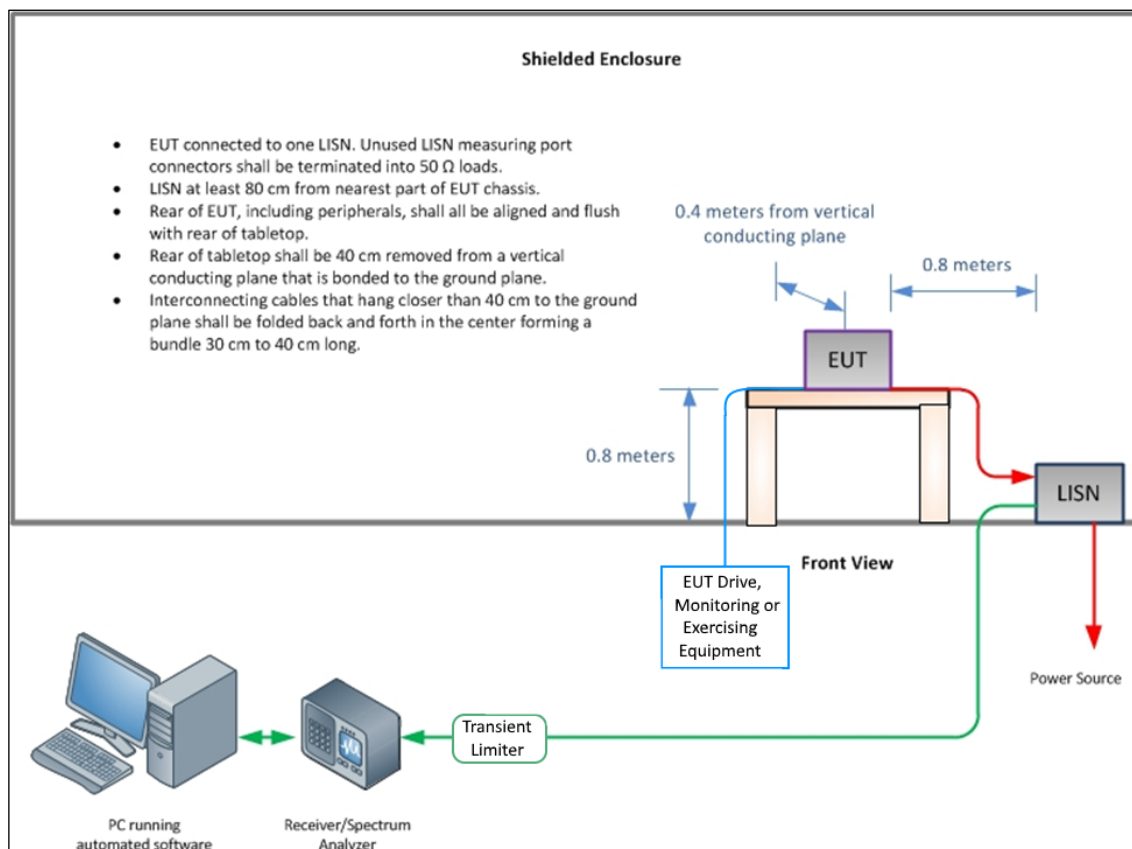


Figure 2 - Conducted Disturbance

2.1.7 Environmental Conditions

Ambient Temperature 18.0 °C
Relative Humidity 59.3 %
Atmospheric Pressure 1008.0 mbar

2.1.8 Specification Limits

Required Specification Limits - Class B			
Line Under Test	Frequency Range (MHz)	Quasi-Peak Test Limit (dBμV)	CISPR Average Test Limit (dBμV)
AC Power Port	0.15 to 0.5	66 to 56 ⁽¹⁾	56 to 46 ⁽¹⁾
	0.5 to 5	56	46
	5 to 30	60	50
Supplementary information: Note 1. Decreases with the logarithm of the frequency.			

Table 8

2.1.9 Test Results

Results for Configuration and Mode: AC Powered - Idle.

This test was performed to the requirements of the Class B limits.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Applied Supply Voltage: 115 V AC
Applied Supply Frequency: 60 Hz

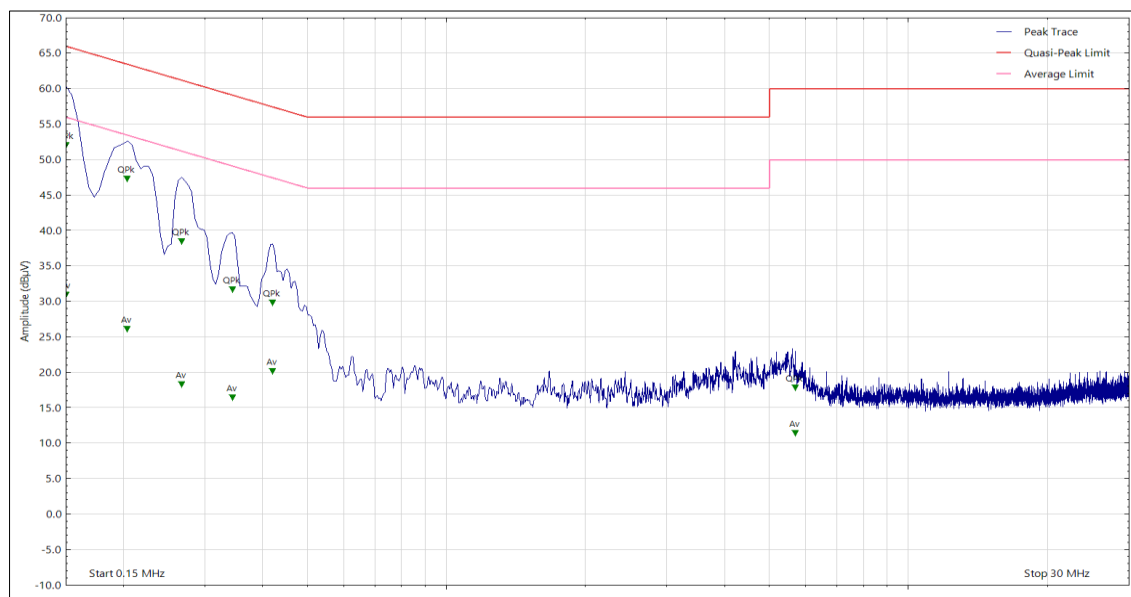


Figure 3 - Graphical Results - AC Power Live

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	51.33	66.00	-14.67	Q-Peak
0.150	30.29	56.00	-25.71	CISPR Avg
0.204	46.60	63.40	-16.80	Q-Peak
0.204	25.49	53.40	-27.91	CISPR Avg
0.267	37.80	61.20	-23.40	Q-Peak
0.267	17.66	51.20	-33.54	CISPR Avg
0.344	31.03	59.10	-28.07	Q-Peak
0.344	15.83	49.10	-33.27	CISPR Avg
0.420	29.15	57.40	-28.25	Q-Peak
0.420	19.54	47.40	-27.86	CISPR Avg
5.686	17.20	60.00	-42.80	Q-Peak
5.686	10.75	50.00	-39.25	CISPR Avg

Table 9

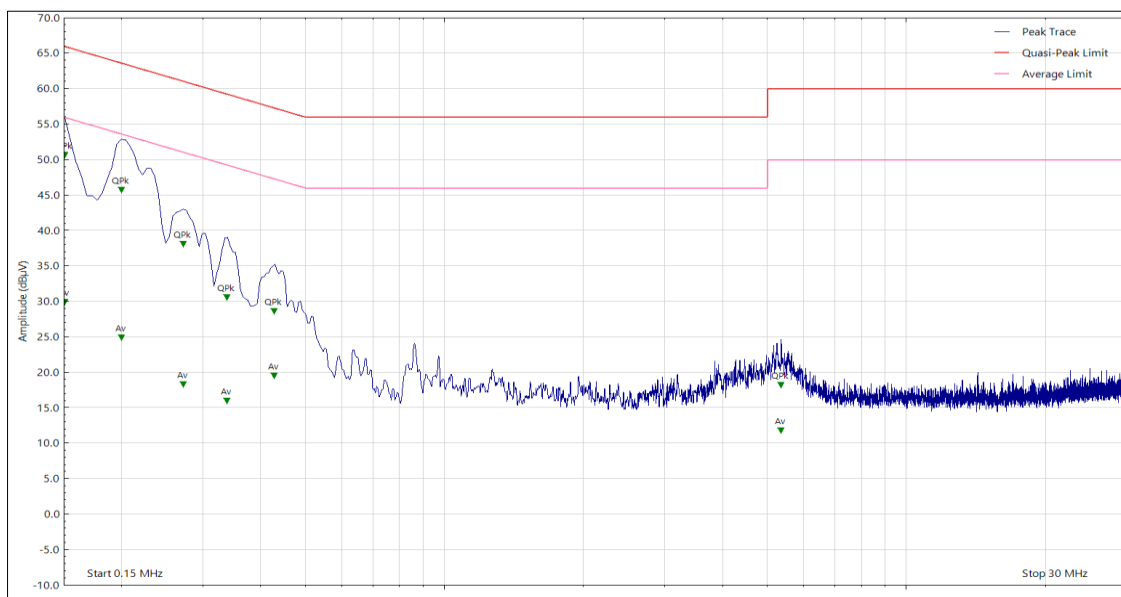


Figure 4 - Graphical Results - AC Power Neutral

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.151	49.97	66.00	-16.03	Q-Peak
0.151	29.26	56.00	-26.74	CISPR Avg
0.200	45.06	63.60	-18.54	Q-Peak
0.200	24.25	53.60	-29.35	CISPR Avg
0.272	37.41	61.10	-23.69	Q-Peak
0.272	17.66	51.10	-33.44	CISPR Avg
0.339	29.88	59.20	-29.32	Q-Peak
0.339	15.29	49.20	-33.91	CISPR Avg
0.429	27.99	57.30	-29.31	Q-Peak
0.429	18.87	47.30	-28.43	CISPR Avg
5.352	17.55	60.00	-42.45	Q-Peak
5.352	11.14	50.00	-38.86	CISPR Avg

Table 10

Note: The EUT was tested at 115 V, which is considered the worst-case operating condition for conducted emissions. Additional conducted emissions testing was performed at 230 V, 50 Hz (see Report 75965008-02), confirming emissions remain within limits.



Figure 5 - Test Setup

2.1.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Emissions Software	TUV SUD	EmX V3.5.3	5125	-	N/A - Software
Test Receiver	Rohde & Schwarz	ESW44	5802	12	25-Oct-2025
Transient Limiter	Hewlett Packard	11947A	2378	12	28-Oct-2025
Cable (N to N, 2 m)	Junkosha	MWX221-02000AMSAMS/B	5725	6	12-Dec-2025
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	7054	12	01-Jun-2026
LISN (CISPR 16, Single Phase)	Rohde & Schwarz	ESH3-Z5	1390	12	04-Feb-2026

Table 11



2.2 Radiated Emissions

2.2.1 Specification Reference

FCC 47 CFR Part 15B and ICES-003, Clause 15.109 and 3.2.2

2.2.2 Equipment Under Test and Modification State

AK-CC25 Pro, S/N: 004601N305 - Modification State 0

2.2.3 Date of Test

21-July-2025 to 22-July-2025

2.2.4 Test Method

The EUT was set up in a semi-anechoic chamber in the centre of a remotely controlled turntable and placed on a non-conductive table 0.8 m above a reference ground plane.

A Peak detector pre-scan of the EUT emissions profile was measured across the appropriate frequency range while varying the antenna-to-EUT azimuth and polarisation. Measurements were made using a 3 m distance between the declared antenna measurement point and the EUT.

Where all pre-scan peak emissions measured were greater than 20 dB below the test limit, no final measurements were made in accordance with ANSI C63.4.

Where any pre-scan peak emissions were within 20 dB of the test limit, the six highest pre-scan peak emissions seen across the frequency range were maximised by adjusting antenna height, polarisation and angle and then measured for at least 15 seconds using a Peak, Quasi-Peak or CISPR Average detector as appropriate to the test limit being measured against.

2.2.5 Example Calculation

Below 1 GHz:

$$\begin{aligned}\text{Quasi-Peak level (dB}\mu\text{V/m)} &= \text{Receiver level (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} \\ \text{Margin (dB)} &= \text{Quasi-Peak level (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}\end{aligned}$$

Above 1 GHz:

$$\begin{aligned}\text{CISPR Average level (dB}\mu\text{V/m)} &= \text{Receiver level (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} \\ \text{Margin (dB)} &= \text{CISPR Average level (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}\end{aligned}$$

$$\begin{aligned}\text{Peak level (dB}\mu\text{V/m)} &= \text{Receiver level (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} \\ \text{Margin (dB)} &= \text{Peak level (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}\end{aligned}$$

2.2.6 Example Test Setup Diagram

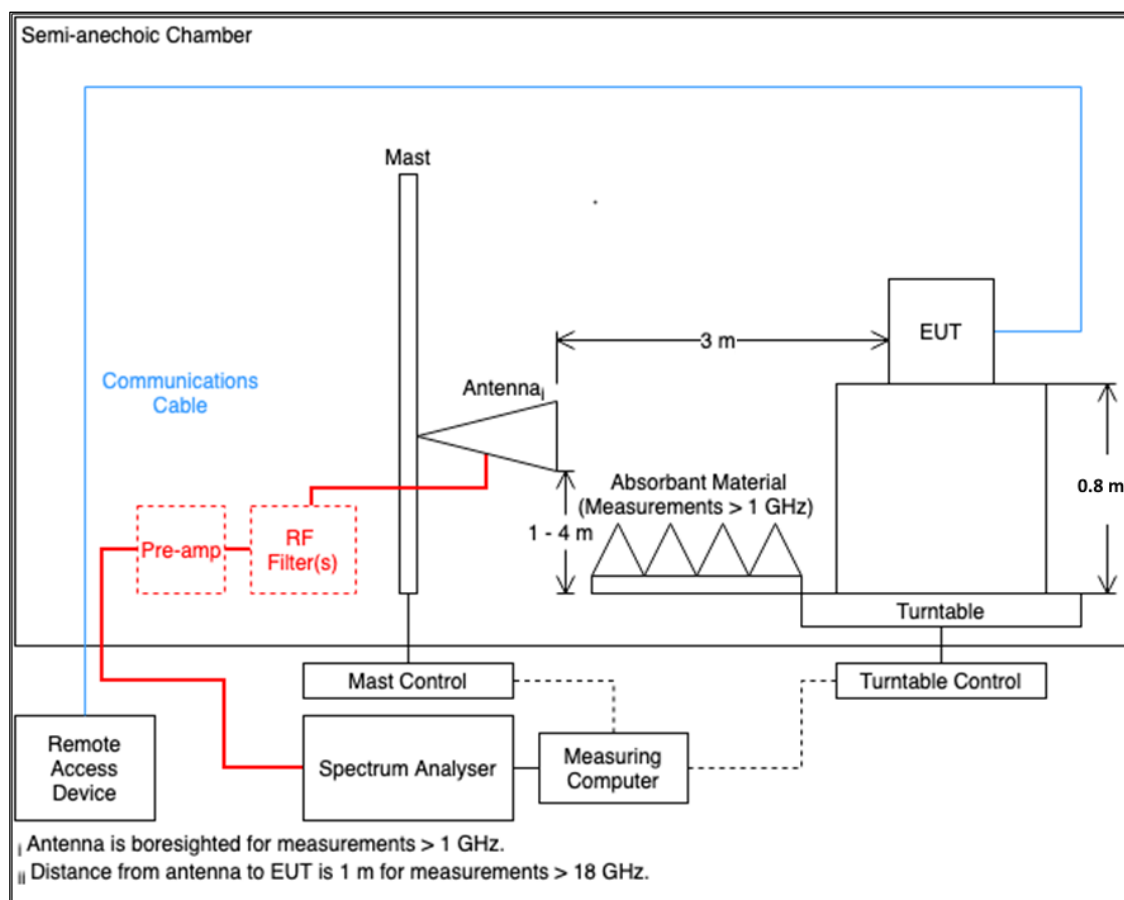


Figure 6 - Radiated Disturbance Example Test Setup

2.2.7 Environmental Conditions

Ambient Temperature 21.5 °C
Relative Humidity 51.3 %
Atmospheric Pressure 1008.0 mbar

2.2.8 Specification Limits

Required Specification Limits, Field Strength - Class B Test Limit at a 3 m Measurement Distance		
Frequency Range (MHz)	Test Limit (µV/m)	Test Limit (dBµV/m)
30 to 88	100	40.0
88 to 216	150	43.5
216 to 960	200	46.0
Above 960	500	54.0

Supplementary information:
 Note 1. A Quasi-peak detector is to be used for measurements below 1 GHz.
 Note 2. A CISPR Average detector is to be used for measurements above 1 GHz.
 Note 3. The Peak test limit above 1 GHz is 20 dB higher than the CISPR Average test limit.

Table 12

2.2.9 Test Results

Results for Configuration and Mode: AC Powered - Idle.

This test was performed to the requirements of the Class B limits.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Highest frequency generated or used within the EUT: 2.4835 MHz
Which necessitates an upper frequency test limit of: 12.4175 GHz (Tested to 13 GHz)

Applied Supply Voltage: 115 V AC
Applied Supply Frequency: 60 Hz

The EUT is ceiling-mounted or similar equipment and has therefore been tested in two different orientations in accordance with ANSI C63.4 requirements.

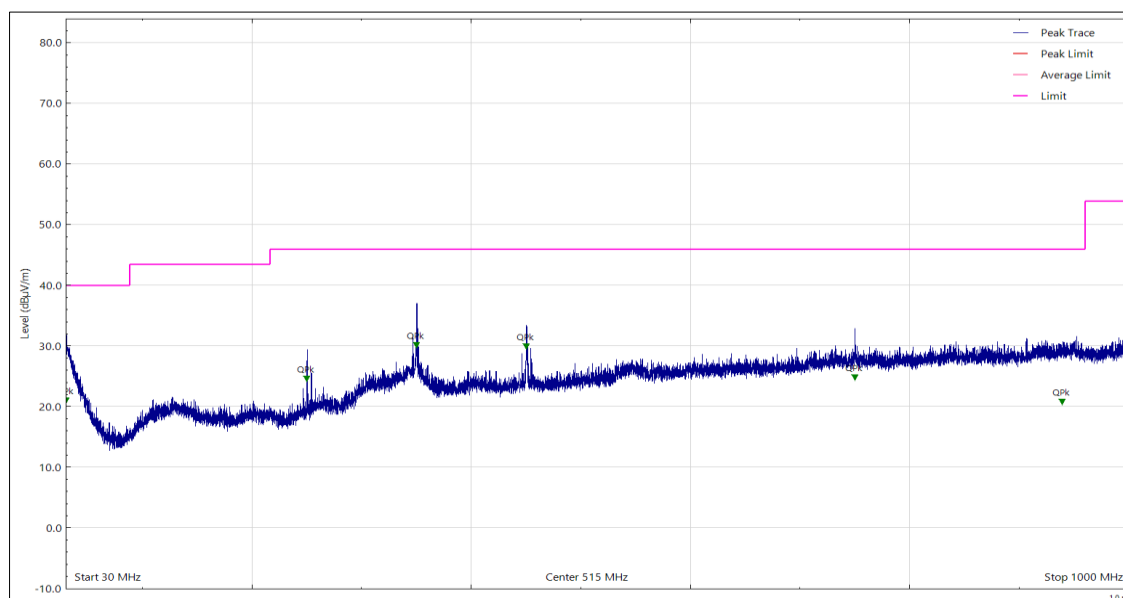


Figure 7 - 30 MHz to 1 GHz, Quasi-Peak, Horizontal - X Orientation

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.164	20.28	40.00	-19.72	Q-Peak	350	275	Horizontal
250.258	23.87	46.00	-22.13	Q-Peak	43	104	Horizontal
350.441	29.42	46.00	-16.58	Q-Peak	62	105	Horizontal
450.574	29.19	46.00	-16.81	Q-Peak	238	274	Horizontal
749.911	24.12	46.00	-21.88	Q-Peak	228	100	Horizontal
939.382	20.02	46.00	-25.98	Q-Peak	15	108	Horizontal

Table 13

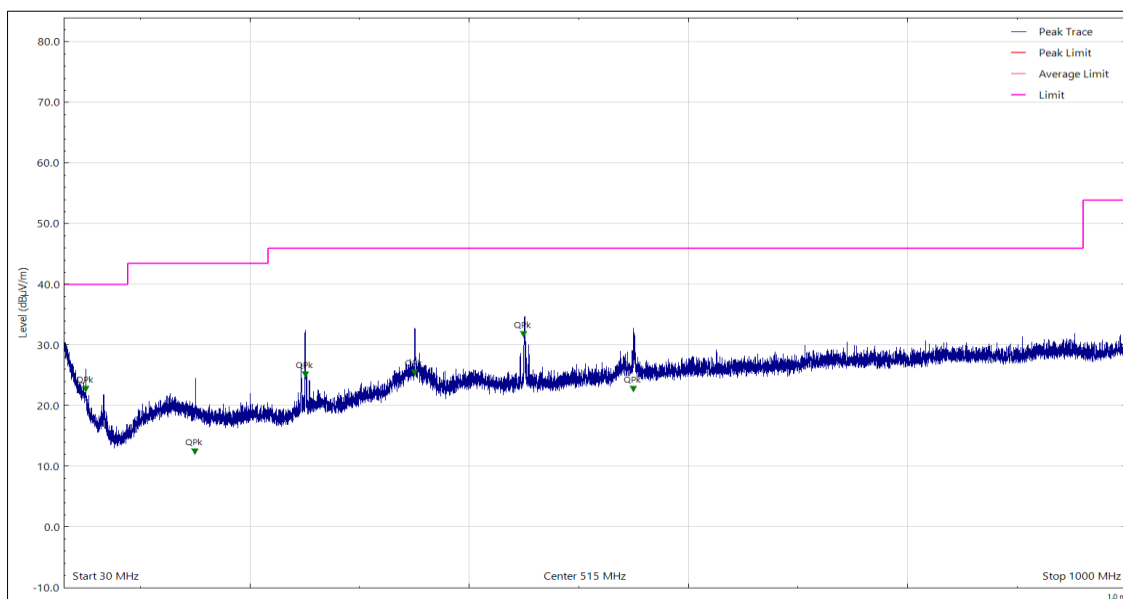


Figure 8 - 30 MHz to 1 GHz, Quasi-Peak, Vertical - X Orientation

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
50.031	21.99	40.00	-18.01	Q-Peak	329	100	Vertical
150.007	11.67	43.50	-31.83	Q-Peak	248	100	Vertical
250.301	24.43	46.00	-21.57	Q-Peak	303	105	Vertical
350.391	24.68	46.00	-21.32	Q-Peak	189	100	Vertical
449.962	31.02	46.00	-14.98	Q-Peak	257	110	Vertical
549.667	21.96	46.00	-24.04	Q-Peak	249	110	Vertical

Table 14

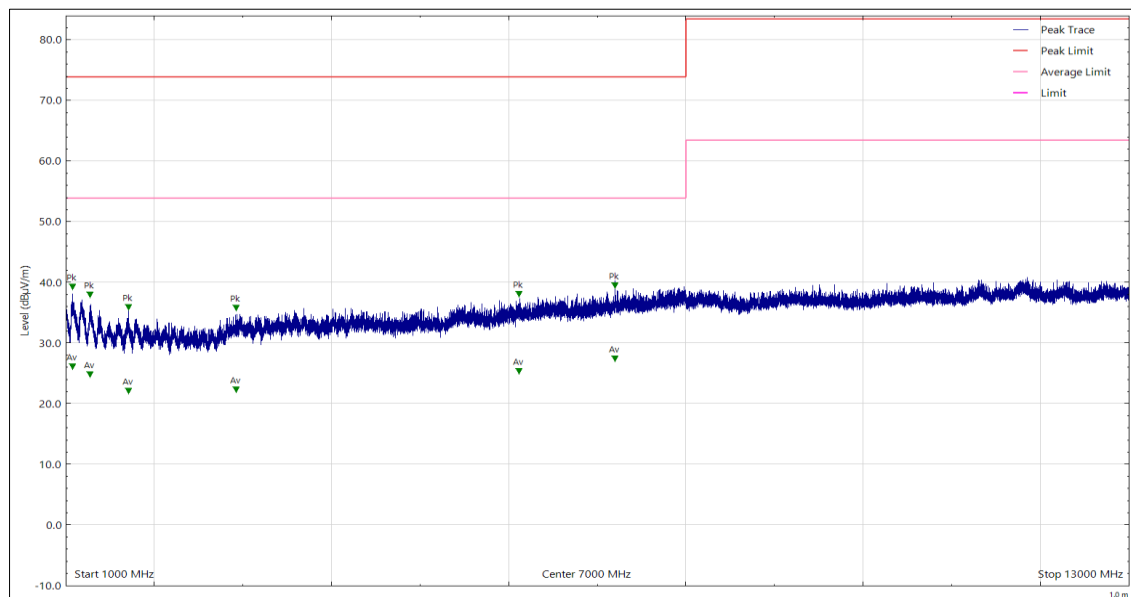


Figure 9 - 1 GHz to 13 GHz, Peak and CISPR Average, Horizontal - X Orientation

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1076.500	38.52	74.00	-35.48	Peak	229	320	Horizontal
1076.500	25.35	54.00	-28.65	CISPR Avg	229	320	Horizontal
1275.500	37.27	74.00	-36.73	Peak	269	156	Horizontal
1275.500	24.12	54.00	-29.88	CISPR Avg	269	156	Horizontal
1707.500	35.11	74.00	-38.89	Peak	126	102	Horizontal
1707.500	21.39	54.00	-32.61	CISPR Avg	126	102	Horizontal
2926.000	35.06	74.00	-38.94	Peak	248	104	Horizontal
2926.000	21.56	54.00	-32.44	CISPR Avg	248	104	Horizontal
6119.000	37.36	74.00	-36.64	Peak	339	100	Horizontal
6119.000	24.63	54.00	-29.37	CISPR Avg	339	100	Horizontal
7200.500	38.72	74.00	-35.28	Peak	254	386	Horizontal
7200.500	26.68	54.00	-27.32	CISPR Avg	254	386	Horizontal

Table 15

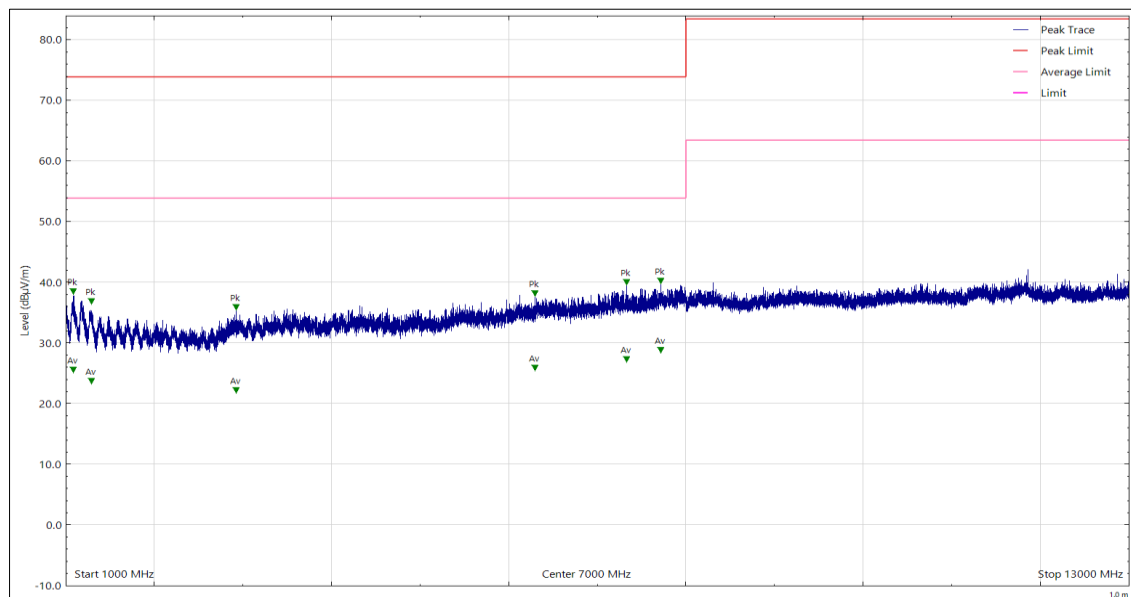


Figure 10 - 1 GHz to 13 GHz, Peak and CISPR Average, Vertical - X Orientation

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1086.500	37.73	74.00	-36.27	Peak	185	100	Vertical
1086.500	24.82	54.00	-29.18	CISPR Avg	185	100	Vertical
1292.500	36.16	74.00	-37.84	Peak	147	103	Vertical
1292.500	22.98	54.00	-31.02	CISPR Avg	147	103	Vertical
2921.500	35.17	74.00	-38.83	Peak	307	111	Vertical
2921.500	21.48	54.00	-32.52	CISPR Avg	307	111	Vertical
6296.000	37.48	74.00	-36.52	Peak	315	292	Vertical
6296.000	25.14	54.00	-28.86	CISPR Avg	315	292	Vertical
7330.000	39.23	74.00	-34.77	Peak	349	264	Vertical
7330.000	26.60	54.00	-27.40	CISPR Avg	349	264	Vertical
7716.500	39.48	74.00	-34.52	Peak	350	295	Vertical
7716.500	28.08	54.00	-25.92	CISPR Avg	350	295	Vertical

Table 16

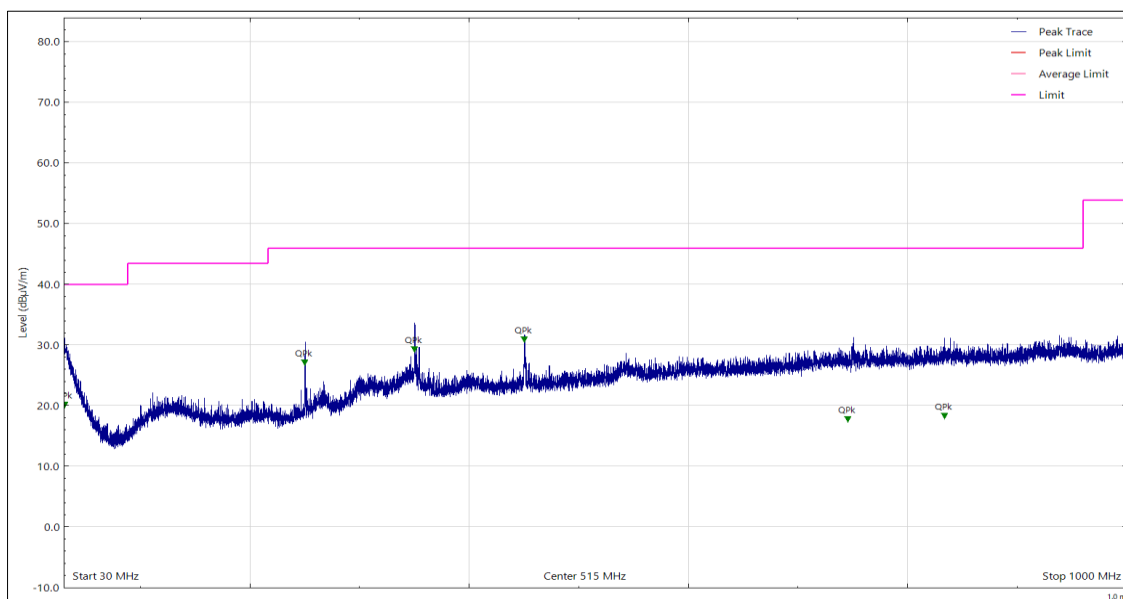


Figure 11 - 30 MHz to 1 GHz, Quasi-Peak, Horizontal - Y Orientation

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.720	19.37	40.00	-20.63	Q-Peak	350	106	Horizontal
250.021	26.33	46.00	-19.67	Q-Peak	236	108	Horizontal
350.305	28.55	46.00	-17.45	Q-Peak	253	103	Horizontal
450.193	30.18	46.00	-15.82	Q-Peak	264	249	Horizontal
745.645	16.96	46.00	-29.04	Q-Peak	84	100	Horizontal
833.493	17.58	46.00	-28.42	Q-Peak	180	227	Horizontal

Table 17

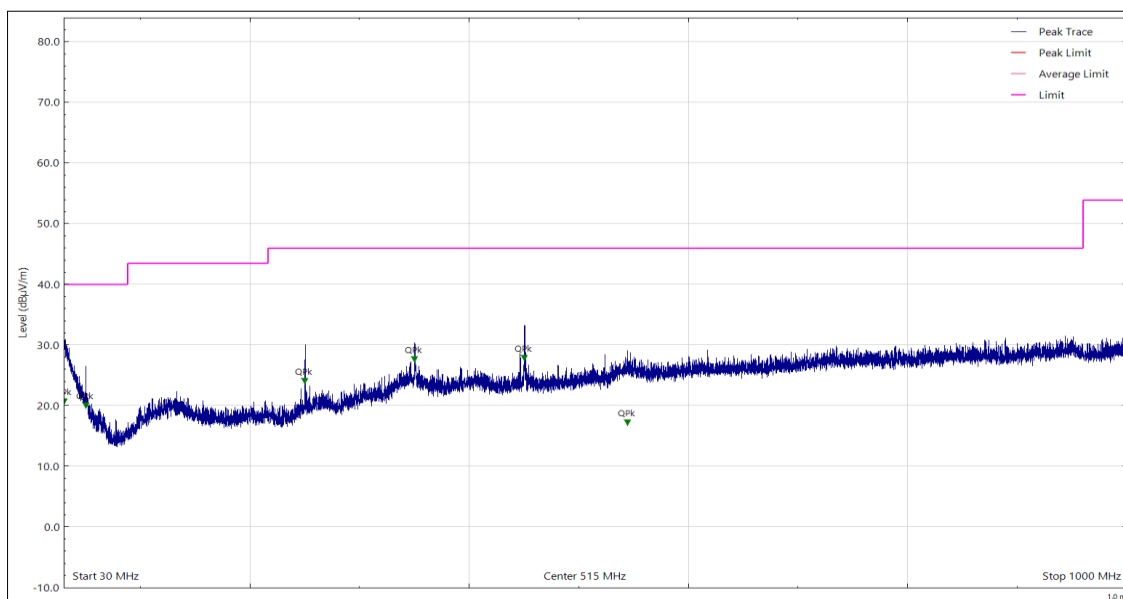


Figure 12 - 30 MHz to 1 GHz, Quasi-Peak, Vertical - Y Orientation

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.341	19.92	40.00	-20.08	Q-Peak	336	247	Vertical
50.013	19.27	40.00	-20.73	Q-Peak	234	110	Vertical
250.172	23.34	46.00	-22.66	Q-Peak	257	106	Vertical
350.231	26.93	46.00	-19.07	Q-Peak	210	134	Vertical
450.465	27.07	46.00	-18.93	Q-Peak	228	137	Vertical
544.211	16.50	46.00	-29.50	Q-Peak	300	100	Vertical

Table 18

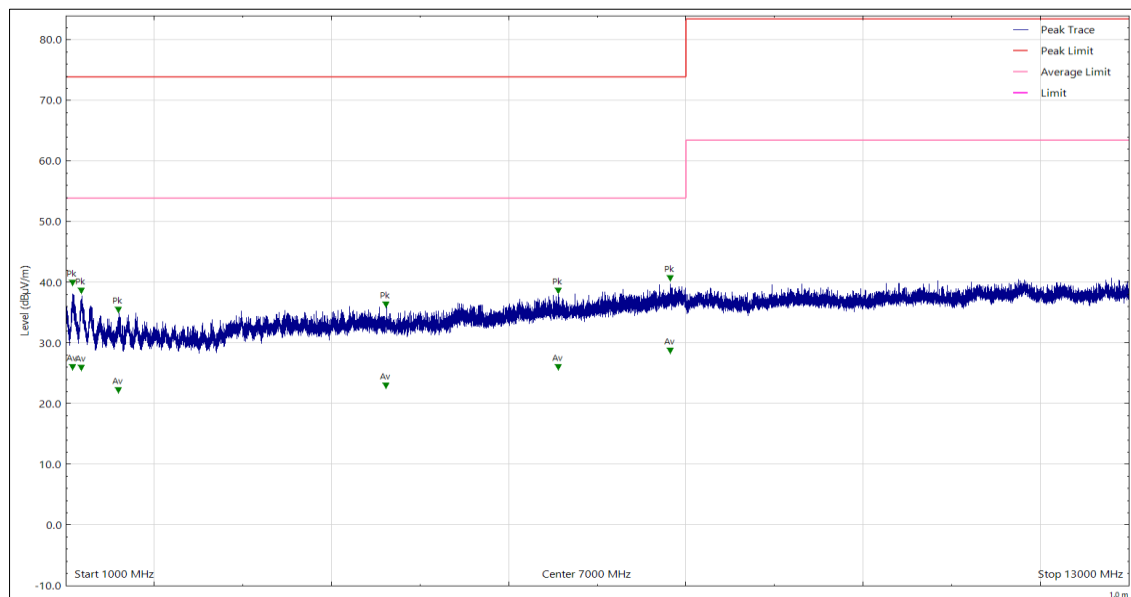


Figure 13 - 1 GHz to 13 GHz, Peak and CISPR Average, Horizontal - Y Orientation

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1077.500	39.12	74.00	-34.88	Peak	353	110	Horizontal
1077.500	25.30	54.00	-28.70	CISPR Avg	353	110	Horizontal
1177.000	37.88	74.00	-36.12	Peak	300	110	Horizontal
1177.000	25.16	54.00	-28.84	CISPR Avg	300	110	Horizontal
1597.500	34.68	74.00	-39.32	Peak	272	316	Horizontal
1597.500	21.46	54.00	-32.54	CISPR Avg	272	316	Horizontal
4617.000	35.56	74.00	-38.44	Peak	156	100	Horizontal
4617.000	22.19	54.00	-31.81	CISPR Avg	156	100	Horizontal
6559.000	37.85	74.00	-36.15	Peak	133	109	Horizontal
6559.000	25.27	54.00	-28.73	CISPR Avg	133	109	Horizontal
7829.000	39.98	74.00	-34.02	Peak	149	103	Horizontal
7829.000	28.01	54.00	-25.99	CISPR Avg	149	103	Horizontal

Table 19

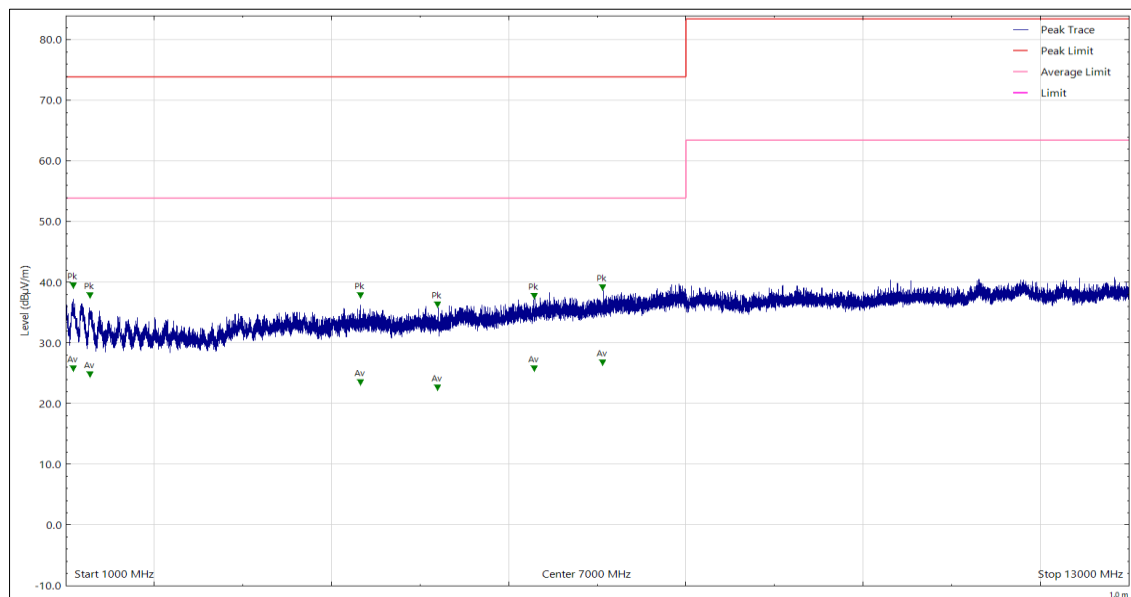


Figure 14 - 1 GHz to 13 GHz, Peak and CISPR Average, Vertical - Y Orientation

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1082.500	25.00	54.00	-29.00	CISPR Avg	142	239	Vertical
1082.500	38.74	74.00	-35.26	Peak	142	239	Vertical
1274.500	37.16	74.00	-36.84	Peak	10	239	Vertical
1274.500	24.11	54.00	-29.89	CISPR Avg	10	239	Vertical
4329.000	22.77	54.00	-31.23	CISPR Avg	4	213	Vertical
4329.000	37.11	74.00	-36.89	Peak	4	213	Vertical
5199.500	35.59	74.00	-38.41	Peak	44	384	Vertical
5199.500	21.87	54.00	-32.13	CISPR Avg	44	384	Vertical
6293.500	36.98	74.00	-37.02	Peak	81	287	Vertical
6293.500	25.05	54.00	-28.95	CISPR Avg	81	287	Vertical
7063.000	25.99	54.00	-28.01	CISPR Avg	269	213	Vertical
7063.000	38.46	74.00	-35.54	Peak	269	213	Vertical

Table 20



Figure 15 - Test Setup - 30 MHz to 1 GHz



Figure 16 - Test Setup - 1 GHz to 8 GHz

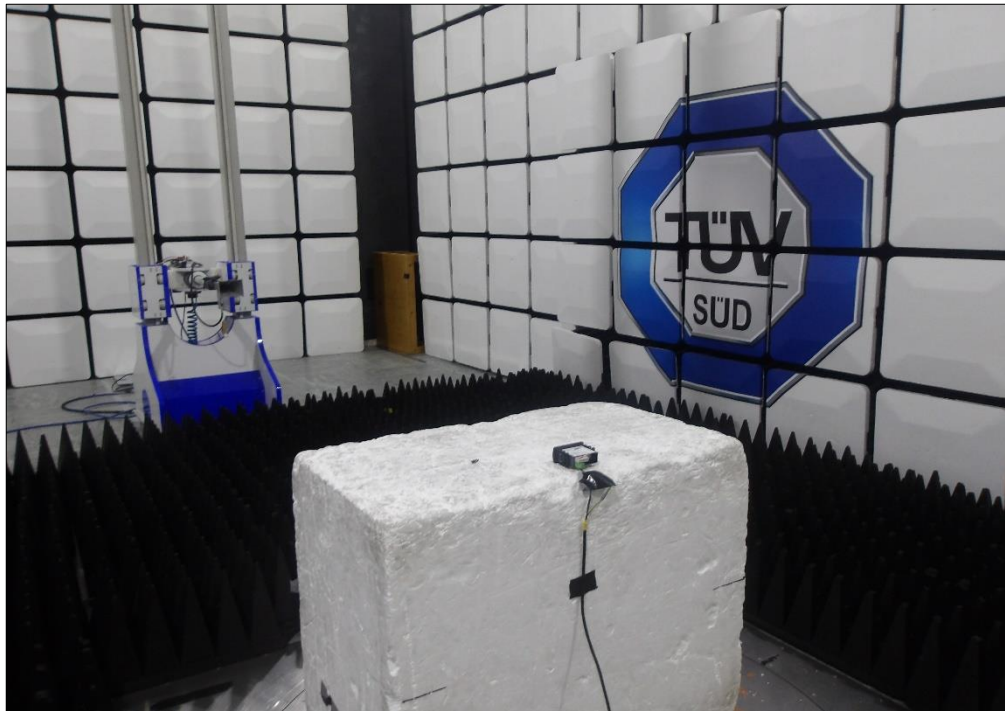


Figure 17 - Test Setup - 8 GHz to 13 GHz



2.2.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
3m Semi-Anechoic Chamber	MVG	Screened Room	5621	36	07-Aug-2026
Emissions Software	TUV SUD	EmX V3.5.3	5125	-	N/A - Software
Test Receiver	Rohde & Schwarz	ESW44	5802	12	25-Oct-2025
Turntable & Mast Controller	Maturo Gmbh	NCD/498/2799.01	5612	-	TU
Tilt Antenna Mast	Maturo Gmbh	TAM 4.0-P	5613	-	TU
Cable (SMA to SMA, 1 m)	Junkosha	MWX221-01000AMSAMS/A	5515	12	23-Oct-2025
Cable (2.92 mm(f) to N-Type(m), 2 m)	Junkosha	MWX241-02000KFSNMS/B	6332	12	27-Sep-2025
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	7054	12	01-Jun-2026
Pre-Amplifier (1 GHz to 18 GHz)	Schwarzbeck	BBV 9718 C	5350	12	16-Dec-2025
Antenna (Bi-Log, 30 MHz to 1 GHz)	Teseq	CBL6111D	5615	24	24-Apr-2027
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	4848	12	05-Jul-2026

Table 21

TU - Traceability Unscheduled



3 Test Equipment Information

3.1 General Test Equipment Used

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5475	12	12-Aug-2025
Milliohm Meter	VICI	VC480C+	7012	12	21-May-2026

Table 22



4 Incident Reports

No incidents reports were raised.



5 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
Conducted Emissions, AC Power Port	9 kHz to 30 MHz, Amplitude, ± 3.3 dB
Radiated Emissions	30 MHz to 1 GHz, Amplitude, ± 5.20 dB
	1 GHz to 6 GHz, Amplitude, ± 5.05 dB
	6 GHz to 18 GHz, Amplitude, ± 4.94 dB

Table 23

Worst case error for both Time and Frequency measurement 12 parts in 10^6 .

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.