

FCC and ISED Test Report

Apple Inc
Model: A3404



In accordance with FCC 47 CFR Part 15B,
ICES-003 and ISED RSS-GEN

Prepared for: Apple Inc
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Document 75963993-59 Issue 01

SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Andrew Lawson	Chief Engineer, EMC	Authorised Signatory	17 December 2025

Signatures in this approval box have checked this document in line with the requirements of TUV SUD 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 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Sreemon Jayachandran Nair	17 December 2025	

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, ICES-003 and ISED RSS-GEN: 2024, Issue 7: 2020 and Issue 5 and A2 (2021-02) for the tests detailed in section 1.3.



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Contents

1	Report Summary	2
1.1	Report Modification Record.....	2
1.2	Introduction.....	2
1.3	Brief Summary of Results	3
1.4	Product Information	4
1.5	Deviations from the Standard.....	4
1.6	Identification of the EUT	5
1.7	EUT Modification Record	5
1.8	Test Location	5
2	Test Details	6
2.1	Conducted Emissions, AC Power Port.....	6
2.2	Radiated Emissions.....	11
3	Test Equipment Information	20
3.1	General Test Equipment Used	20
4	Incident Reports	21
5	Measurement Uncertainty	22



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	17-Dec-2025

Table 1

1.2 Introduction

Applicant	Apple Inc
Manufacturer	Apple Inc
EUT/Sample Identification	Refer to section 1.6
Test Specification/Issue/Date	FCC 47 CFR Part 15B: 2024 ICES-003, Issue 7: 2020 ISED RSS-GEN, Issue 5, A2 (2021-02)
Start of Test	10-November-2025
Finish of Test	14-November-2025
Name of Engineer(s)	Sreemon Jayachandran Nair
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 and ISSED RSS-GEN is shown below.

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - Transmitter Idle				
2.1	15.107, 3.2.1 and 4.4	Conducted Emissions, AC Power Port	Pass	ANSI C63.4: 2014
2.2	15.109, 3.2.2 and 4.4	Radiated Emissions	Pass	ANSI C63.4: 2014

Table 2

1.4 Product Information

1.4.1 Technical Description

The equipment under test (EUT) was a portable laptop computer.

1.4.2 EUT Port/Cable Identification

Port	Max Cable Length specified	Usage	Type	Screened
Configuration and Mode: AC Powered - Transmitters Idle				
AC Power Port	2 m	Main Power	AC to DC Power Adapter with USB-C output.	No
USB Port 1	1.5 m	Power/Data	USB Type-C	Yes
USB Port 2	1.5 m	Power/Data	USB Type-C	Yes
Audio Jack Port	1 m	Analogue Audio Output	3.5 mm Jack	No

Table 3

1.4.3 Test Configuration

Configuration	Description
AC Powered	The EUT was powered from a 115 V 60 Hz AC supply using an AC to DC adapter with USB-C output and MagSafe cable. PSU Model: A2676 The EUT had the following connections made: • A mouse was used to terminate USB Port 1. • A set of headphones were used to terminate the Audio Jack Port. • USB Port 2 was unterminated.

Table 4

1.4.4 Modes of Operation

Mode	Description
Transmitter Idle	The EUT was powered with all internal transmitters disabled.

Table 5

1.5 Deviations from the Standard

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



1.6 Identification of the EUT

The table below details identification of the EUT(s) that have been used to carry out the testing within this report.

Serial Number	Hardware Version	Software Version
HWH7MHKN3X	REV1.0	25D53

Table 6

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: A3404, Serial Number: HWH7MHKN3X			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 7

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 - Transmitter Idle		
Conducted Emissions, AC Power Port	Sreemon Jayachandran Nair	UKAS
Radiated Emissions	Sreemon Jayachandran Nair	UKAS

Table 8

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, ICES-003 and ISED RSS-GEN, Clause 15.107, 3.2.1 and 4.4

2.1.2 Equipment Under Test and Modification State

A3404, S/N: HWH7MHKN3X - Modification State 0

2.1.3 Date of Test

14-November-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 (dB μ V) = Receiver level (dB μ V) + Correction Factor (dB)
Margin (dB) = Quasi-Peak level (dB μ V) - Limit (dB μ V)

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

2.1.6 Example Test Setup Diagram

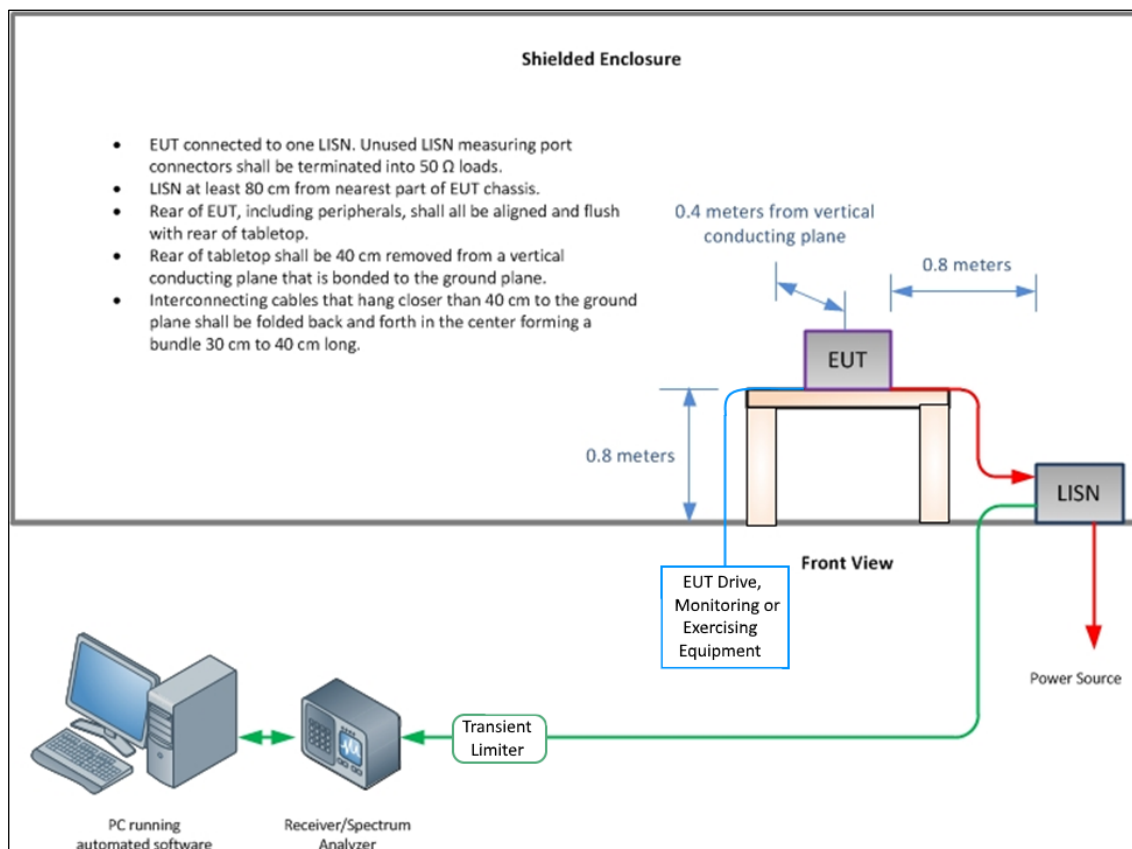


Figure 1 - Conducted Emissions Example Test Setup

2.1.7 Environmental Conditions

Ambient Temperature 23.3 °C
Relative Humidity 54.5 %
Atmospheric Pressure 990.0 mbar

2.1.8 Specification Limits

Required Specification Limits - Class B			
Line Under Test	Frequency Range (MHz)	Quasi-Peak Test Limit (dB μ V)	CISPR Average Test Limit (dB μ V)
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 9

2.1.9 Test Results

Results for Configuration and Mode: AC Powered - Transmitter 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.

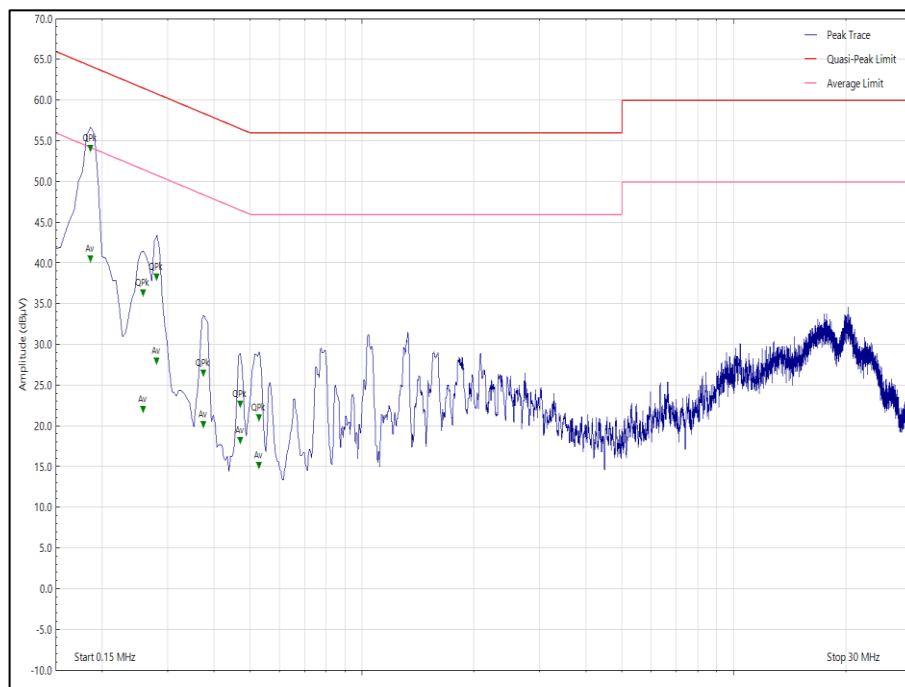


Figure 2 - Graphical Results - AC Power Port Live

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.186	53.46	64.20	-10.74	Q-Peak
0.186	39.88	54.20	-14.32	CISPR Avg
0.258	35.70	61.50	-25.80	Q-Peak
0.258	21.36	51.50	-30.14	CISPR Avg
0.280	37.66	60.80	-23.14	Q-Peak
0.280	27.31	50.80	-23.49	CISPR Avg
0.375	25.85	58.40	-32.55	Q-Peak
0.375	19.52	48.40	-28.88	CISPR Avg
0.470	22.02	56.50	-34.48	Q-Peak
0.470	17.57	46.50	-28.93	CISPR Avg
0.528	20.35	56.00	-35.65	Q-Peak
0.528	14.48	46.00	-31.52	CISPR Avg

Table 10

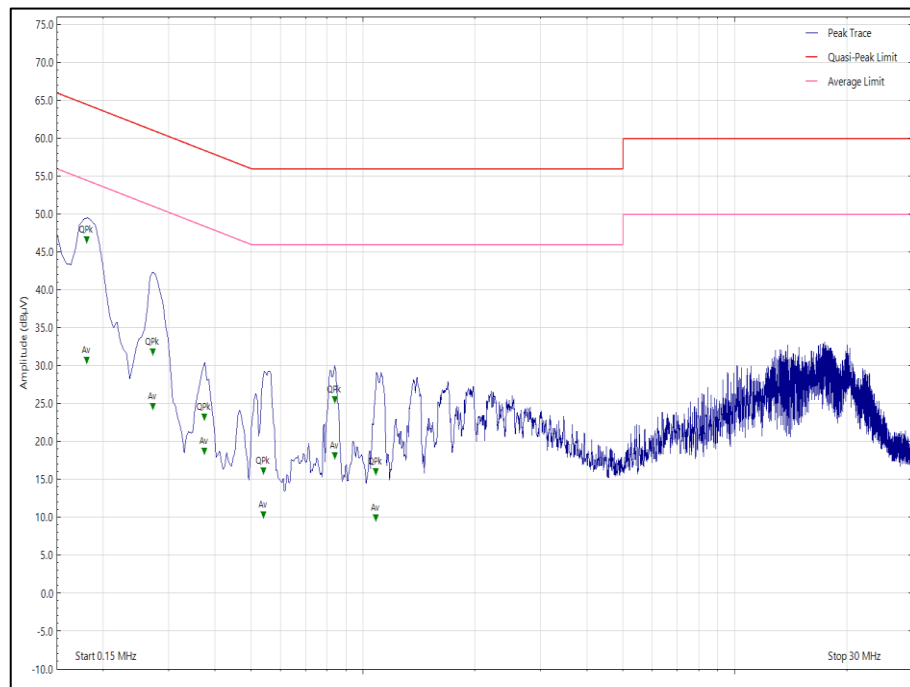


Figure 3 - Graphical Results - AC Power Port Neutral

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.181	45.90	64.40	-18.50	Q-Peak
0.181	29.98	54.40	-24.42	CISPR Avg
0.272	31.07	61.10	-30.03	Q-Peak
0.272	23.88	51.10	-27.22	CISPR Avg
0.375	22.52	58.40	-35.88	Q-Peak
0.375	17.98	48.40	-30.42	CISPR Avg
0.541	15.46	56.00	-40.54	Q-Peak
0.541	9.58	46.00	-36.42	CISPR Avg
0.839	24.81	56.00	-31.19	Q-Peak
0.839	17.44	46.00	-28.56	CISPR Avg
1.082	15.37	56.00	-40.63	Q-Peak
1.082	9.19	46.00	-36.81	CISPR Avg

Table 11



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
3m Semi-Anechoic Chamber	MVG	EMC Chamber 12	5621	36	07-Aug-2026
Emissions Software	TUV SUD	EmX V3.5.5	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5382	12	09-Oct-2026
Transient Limiter	Hewlett Packard	11947A	1032	12	16-Jan-2026
Cable (N-Type to N-Type, 2 m)	Teledyne	269-0078-2000	3325	12	12-Sep-2026
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
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5471	12	14-May-2026

Table 12



2.2 Radiated Emissions

2.2.1 Specification Reference

FCC 47 CFR Part 15B, ICES-003 and ISED RSS-GEN, Clause 15.109, 3.2.2 and 4.4

2.2.2 Equipment Under Test and Modification State

A3404, S/N: HWH7MHKN3X - Modification State 0

2.2.3 Date of Test

10-November-2025 to 13-November-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:

Quasi-Peak level (dB μ V/m) = Receiver level (dB μ V) + Correction Factor (dB/m)
Margin (dB) = Quasi-Peak level (dB μ V/m) - Limit (dB μ V/m)

Above 1 GHz:

CISPR Average level (dB μ V/m) = Receiver level (dB μ V) + Correction Factor (dB/m)
Margin (dB) = CISPR Average level (dB μ V/m) - Limit (dB μ V/m)

Peak level (dB μ V/m) = Receiver level (dB μ V) + Correction Factor (dB/m)
Margin (dB) = Peak level (dB μ V/m) - Limit (dB μ V/m)

2.2.6 Example Test Setup Diagram

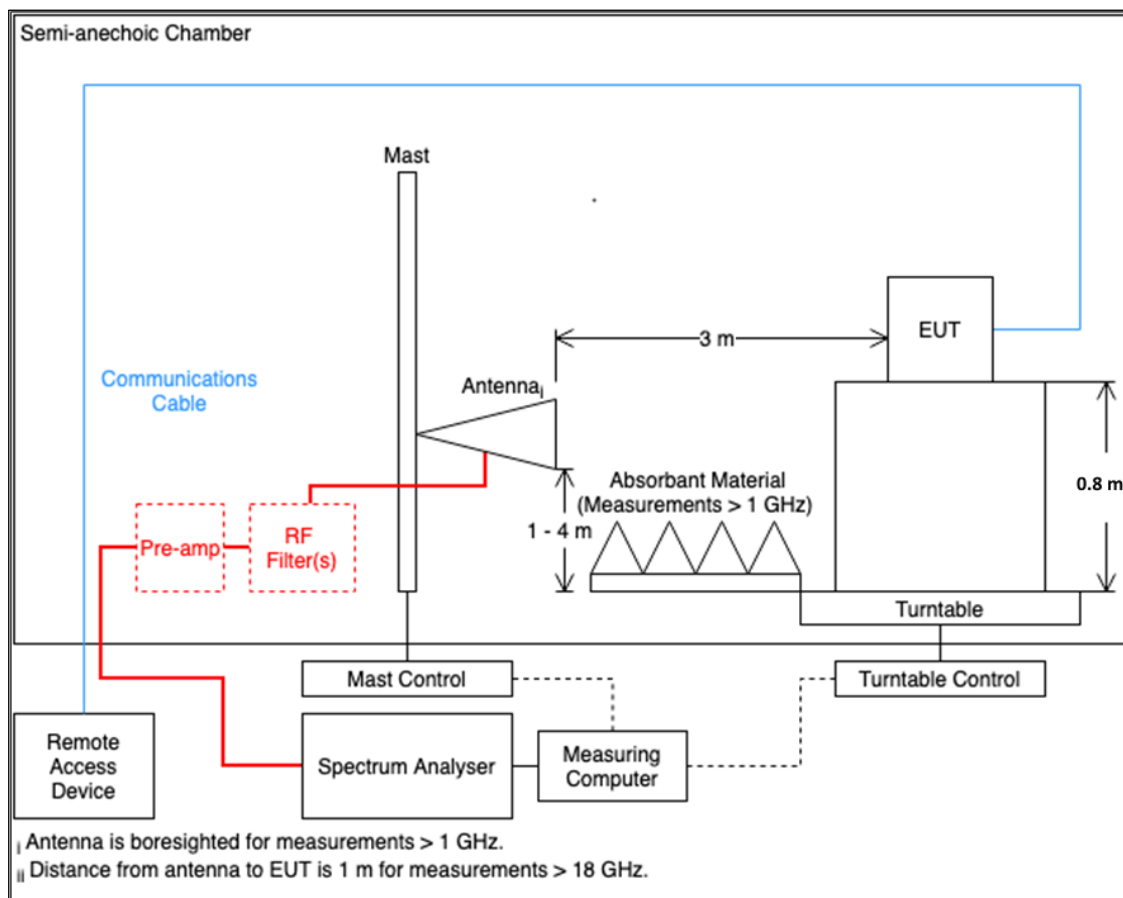


Figure 4 - Radiated Emissions Example Test Setup

2.2.7 Environmental Conditions

Ambient Temperature 19.8 °C
Relative Humidity 54.3 %
Atmospheric Pressure 998.0 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 13

2.2.9 Test Results

Results for Configuration and Mode: AC Powered - Transmitter Idle.

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

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

Detailed results are shown below.

Highest internally generated frequency within the EUT: 6 GHz
Which necessitates an upper frequency test limit of: 30 GHz

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

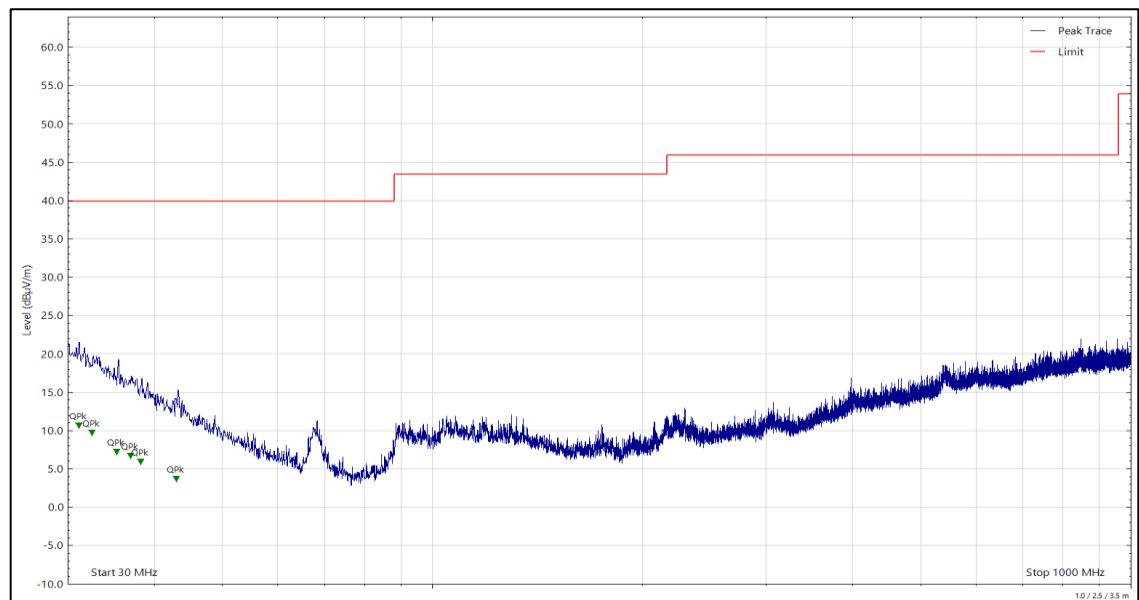


Figure 5 - 30 MHz to 1 GHz, Quasi-Peak, Horizontal

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.132	10.04	40.00	-29.96	Q-Peak	9	344	Horizontal
32.494	9.15	40.00	-30.85	Q-Peak	282	362	Horizontal
35.260	6.59	40.00	-33.41	Q-Peak	350	287	Horizontal
36.926	6.12	40.00	-33.88	Q-Peak	344	234	Horizontal
38.215	5.36	40.00	-34.64	Q-Peak	241	125	Horizontal
42.901	3.10	40.00	-36.90	Q-Peak	204	260	Horizontal

Table 14

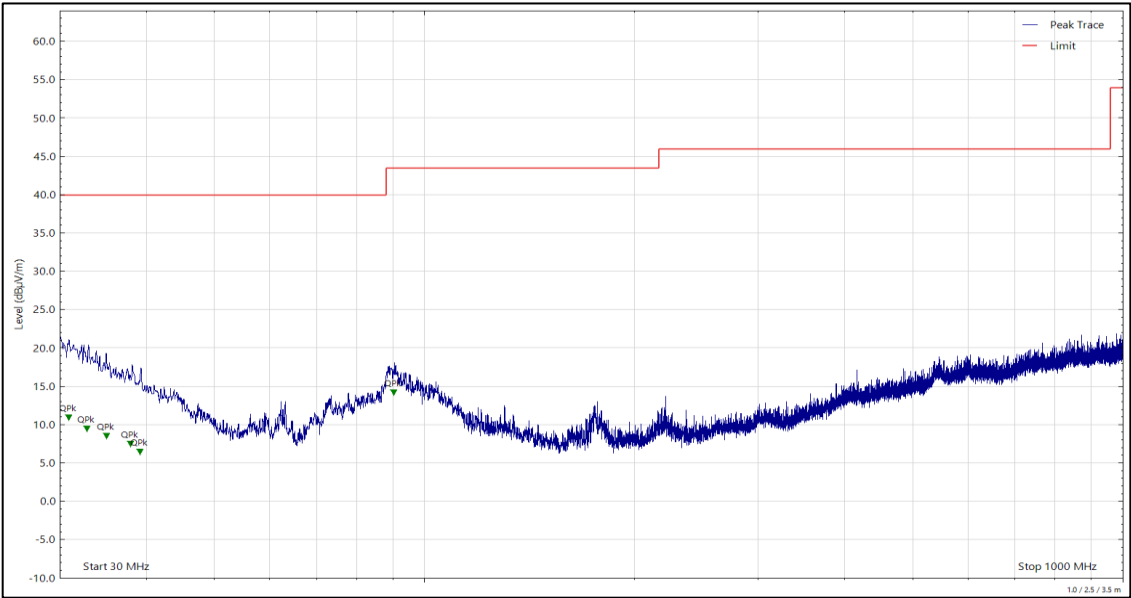


Figure 6 - 30 MHz to 1 GHz, Quasi-Peak, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.900	10.29	40.00	-29.71	Q-Peak	0	347	Vertical
32.810	8.85	40.00	-31.15	Q-Peak	100	358	Vertical
35.020	7.92	40.00	-32.08	Q-Peak	85	110	Vertical
37.888	6.88	40.00	-33.12	Q-Peak	286	100	Vertical
39.107	5.85	40.00	-34.15	Q-Peak	352	128	Vertical
90.264	13.62	43.50	-29.88	Q-Peak	55	108	Vertical

Table 15

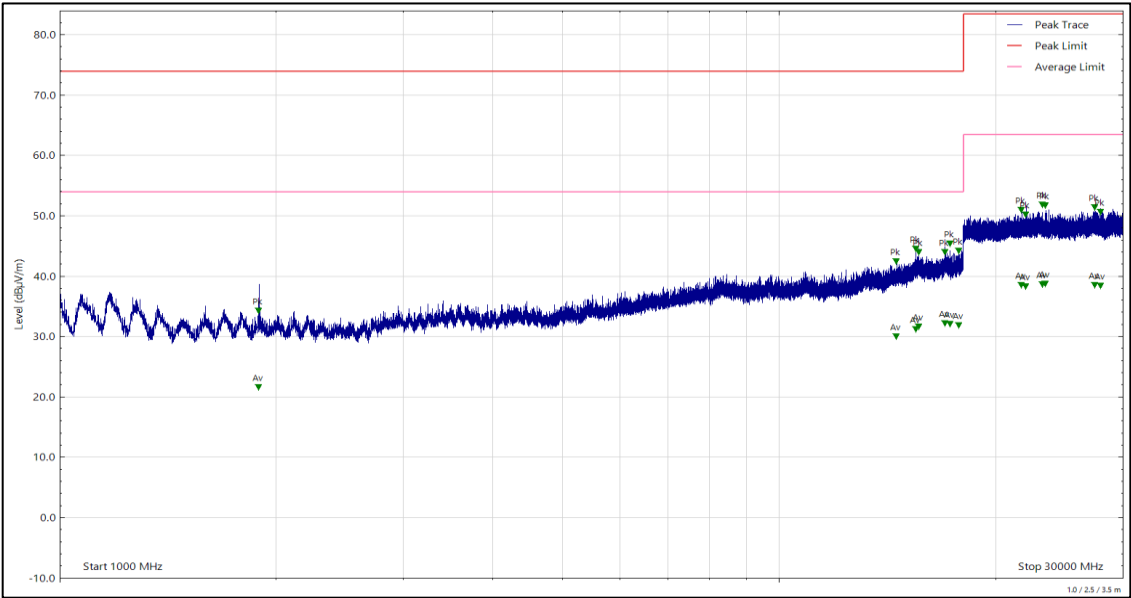


Figure 7 - 1 GHz to 30 GHz, Peak & CISPR Average, Horizontal



Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1890.720	20.81	54.00	-33.19	CISPR Avg	344	107	Horizontal
1890.720	33.46	74.00	-40.54	Peak	344	107	Horizontal
14548.382	29.28	54.00	-24.72	CISPR Avg	203	100	Horizontal
14548.382	41.74	74.00	-32.26	Peak	203	100	Horizontal
15473.808	30.50	54.00	-23.50	CISPR Avg	184	220	Horizontal
15473.808	43.75	74.00	-30.25	Peak	184	220	Horizontal
15609.353	30.89	54.00	-23.11	CISPR Avg	313	100	Horizontal
15609.353	43.19	74.00	-30.81	Peak	313	100	Horizontal
16978.043	31.42	54.00	-22.58	CISPR Avg	195	241	Horizontal
16978.043	43.20	74.00	-30.80	Peak	195	241	Horizontal
17258.489	31.28	54.00	-22.72	CISPR Avg	109	109	Horizontal
17258.489	44.62	74.00	-29.38	Peak	109	109	Horizontal
17756.609	31.14	54.00	-22.86	CISPR Avg	16	213	Horizontal
17756.609	43.45	74.00	-30.55	Peak	16	213	Horizontal
21706.906	37.73	63.50	-25.77	CISPR Avg	348	100	Horizontal
21706.906	50.18	83.50	-33.32	Peak	348	100	Horizontal
21997.596	37.51	63.50	-25.99	CISPR Avg	8	100	Horizontal
21997.596	49.45	83.50	-34.05	Peak	8	100	Horizontal
23180.920	37.82	63.50	-25.68	CISPR Avg	174	100	Horizontal
23180.920	51.04	83.50	-32.46	Peak	174	100	Horizontal
23421.163	38.01	63.50	-25.49	CISPR Avg	4	100	Horizontal
23421.163	50.92	83.50	-32.58	Peak	4	100	Horizontal
27458.924	37.73	63.50	-25.77	CISPR Avg	302	100	Horizontal
27458.924	50.60	83.50	-32.90	Peak	302	100	Horizontal
27915.950	37.61	63.50	-25.89	CISPR Avg	88	100	Horizontal
27915.950	49.89	83.50	-33.61	Peak	88	100	Horizontal

Table 16

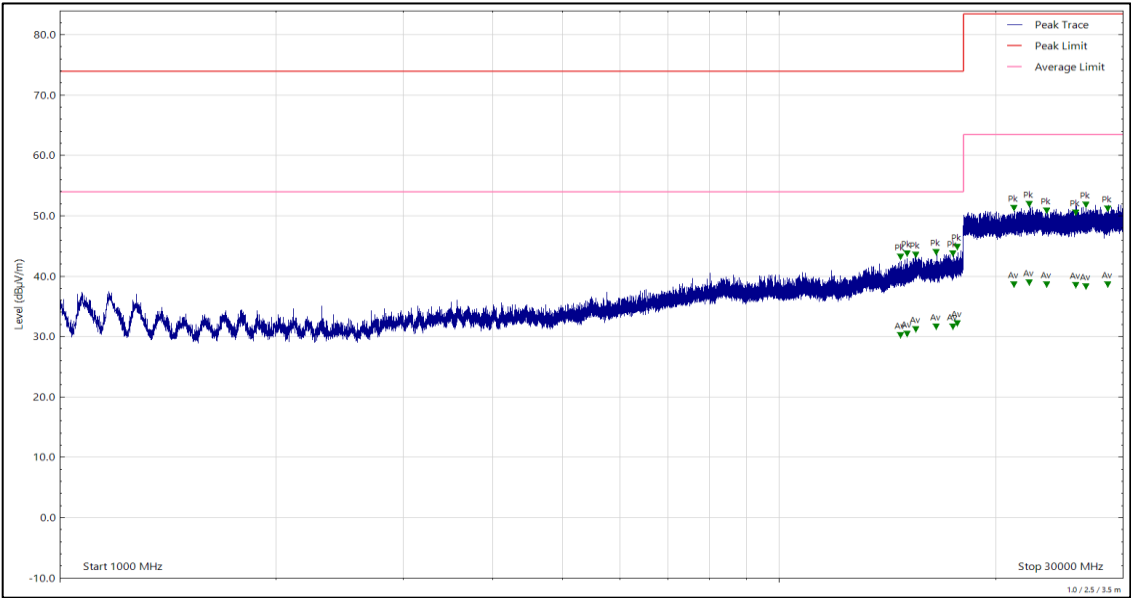


Figure 8 - 1 GHz to 30 GHz, Peak & CISPR Average, Vertical



Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
14741.512	42.48	74.00	-31.52	Peak	228	228	Vertical
14741.512	29.51	54.00	-24.49	CISPR Avg	228	228	Vertical
15050.437	42.96	74.00	-31.04	Peak	232	110	Vertical
15050.437	29.68	54.00	-24.32	CISPR Avg	232	110	Vertical
15473.805	42.81	74.00	-31.19	Peak	350	109	Vertical
15473.805	30.43	54.00	-23.57	CISPR Avg	350	109	Vertical
16525.725	43.19	74.00	-30.81	Peak	327	320	Vertical
16525.725	30.85	54.00	-23.15	CISPR Avg	327	320	Vertical
17444.971	30.91	54.00	-23.09	CISPR Avg	131	107	Vertical
17444.971	42.97	74.00	-31.03	Peak	131	107	Vertical
17690.395	44.08	74.00	-29.92	Peak	262	103	Vertical
17690.395	31.44	54.00	-22.56	CISPR Avg	262	103	Vertical
21203.287	50.51	83.50	-32.99	Peak	10	100	Vertical
21203.287	37.85	63.50	-25.65	CISPR Avg	10	100	Vertical
22264.878	51.17	83.50	-32.33	Peak	261	100	Vertical
22264.878	38.17	63.50	-25.33	CISPR Avg	261	100	Vertical
23543.698	37.90	63.50	-25.60	CISPR Avg	137	100	Vertical
23543.698	50.14	83.50	-33.36	Peak	137	100	Vertical
25824.815	37.71	63.50	-25.79	CISPR Avg	93	100	Vertical
25824.815	49.81	83.50	-33.69	Peak	93	100	Vertical
26673.567	51.06	83.50	-32.44	Peak	282	100	Vertical
26673.567	37.57	63.50	-25.93	CISPR Avg	282	100	Vertical
28620.731	50.42	83.50	-33.08	Peak	297	100	Vertical
28620.731	37.92	63.50	-25.58	CISPR Avg	297	100	Vertical

Table 17

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	EMC Chamber 12	5621	36	07-Aug-2026
Emissions Software	TUV SUD	EmX V3.5.5	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5382	12	09-Oct-2026
Turntable & Mast Controller	Maturo Gmbh	NCD/498/2799.01	5612	-	TU
Tilt Antenna Mast	Maturo Gmbh	TAM 4.0-P	5613	-	TU
3.5 mm 1m Cable	Junkosha	MWX221-01000DMS	5419	12	15-Aug-2026
2m Coaxial Cable Assy	Junkosha	MWX221-02000AMSAMS/A	6357	12	13-May-2026
Cable (2.92 mm(f)-N(m), 2 m)	Junkosha	MWX241-02000KFSNMS/B	6965	6	14-Feb-2026
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
Pre-Amplifier (8 - 18GHz)	Wright Technologies	APS06-0061	6306	12	18-Jul-2026
Pre-Amplifier (18 GHz to 40 GHz)	Schwarzbeck	BBV 9721	5218	12	12-May-2026
Antenna (Bilog with attenuator, 30 MHz to 3 GHz)	Schaffner	CBL6143	287	24	29-Aug-2026
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	5611	12	14-Sep-2026
Antenna (DRG, 7.5 GHz to 18 GHz)	Schwarzbeck	HWRD750	5216	12	12-Jul-2026
Antenna (DRG, 15 GHz to 40 GHz)	Schwarzbeck	BBHA 9170	5217	12	12-May-2026
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5471	12	14-May-2026

Table 18

TU - Traceability Unscheduled



3 Test Equipment Information

3.1 General Test Equipment Used

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Multimeter	Fluke	79 Series III	498	12	26-Feb-2026
Milliohm Meter	VICI	2682132	7012	12	21-May-2026

Table 19



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	150 kHz to 30 MHz, LISN, ± 3.3 dB
Radiated Emissions	30 MHz to 1 GHz, Bilog Antenna ± 5.17 dB 1 GHz to 6 GHz, Horn Antenna ± 5.05 dB 6 GHz to 18 GHz, Horn Antenna ± 4.94 dB 18 GHz to 40 GHz, Horn Antenna ± 6.28 dB

Table 20

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.