

FCC and ISED Test Report

Apple Inc
Model: A3545



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

Prepared for: Apple Inc
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SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Andrew Lawson	Chief Engineer, EMC	Authorised Signatory	3 July 2026

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	3 July 2026	
	Adam Holloway	3 July 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, 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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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	3 July 2026

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, ICES-003 and ISED RSS-GEN: 2024, Issue 7: 2020 and Issue 5 and A2 (2021-02)
Start of Test	30-May-2026
Finish of Test	1-June-2026
Name of Engineer(s)	Sreemon Jayachandran Nair, Abarajitha Karunakaran and Adam Holloway
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 ISED 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 desktop computer.

1.4.2 EUT Port/Cable Identification

Port	Max Cable Length specified	Usage	Type	Screened
Configuration and Mode: All configurations and modes.				
AC Power Port	3 m	Power	IEC	No
USB Port 1	1 m	Power/Data	USB Type-C	No
USB Port 2	1 m	Power/Data	USB Type-C	No
USB Port 3	Unterminated	Power/Data	USB Type-C	No
USB Port 4	Unterminated	Power/Data	USB Type-C	No
USB Port 5	0.5 cm	Power/Data	USB Type-C	No
USB Port 6	0.5 cm	Power/Data	USB 2.0	No
USB Port 7	Unterminated	Power/Data	USB 2.0	No
HDMI Port	1 m	Data	HDMI	No
Ethernet Port	3 m	Data	Cat 6	No
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 via a IEC lead. The EUT had the following connections made: • A mouse was used to terminate USB Port 1. • A Keyboard was used to terminate USB Port 2. • A USB Stick was used to terminate USB Port 5. • A USB Stick was used to terminate USB Port 6. • A monitor was used to terminate the HDMI Port. • A switch box was used to terminate the Ethernet Port. • A set of headphones was used to terminate the Audio Jack Port. • All other USB Ports were unterminated.

Table 4

1.4.4 Modes of Operation

Mode	Description
Transmitter Idle	The EUT was powered and operating 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.

Model: A3545		
Serial Number	Hardware Version	Software Version
JN3GP9WQHQ	REV1.0	26A342a

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: A3545, Serial Number: JN3GP9WQHQ			
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	Adam Holloway and Abarajitha Karunakaran	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 ISSED RSS-GEN, Clause 15.107, 3.2.1 and 4.4

2.1.2 Equipment Under Test and Modification State

A3545, S/N: JN3GP9WQHQ - Modification State 0

2.1.3 Date of Test

01-June-2026

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

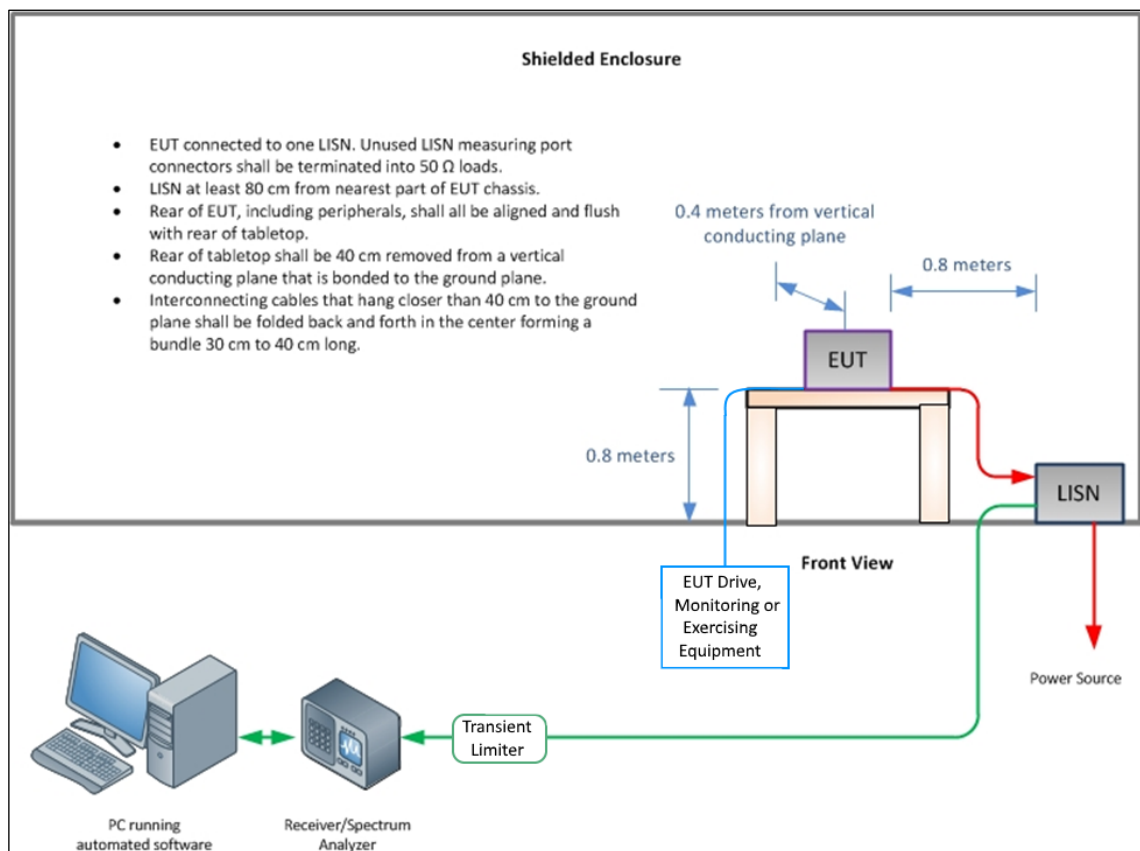


Figure 1 - Conducted Emissions Example Test Setup

2.1.7 Environmental Conditions

Ambient Temperature	22.3 °C
Relative Humidity	48.5 %
Atmospheric Pressure	1009.0 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 9

2.1.9 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.

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

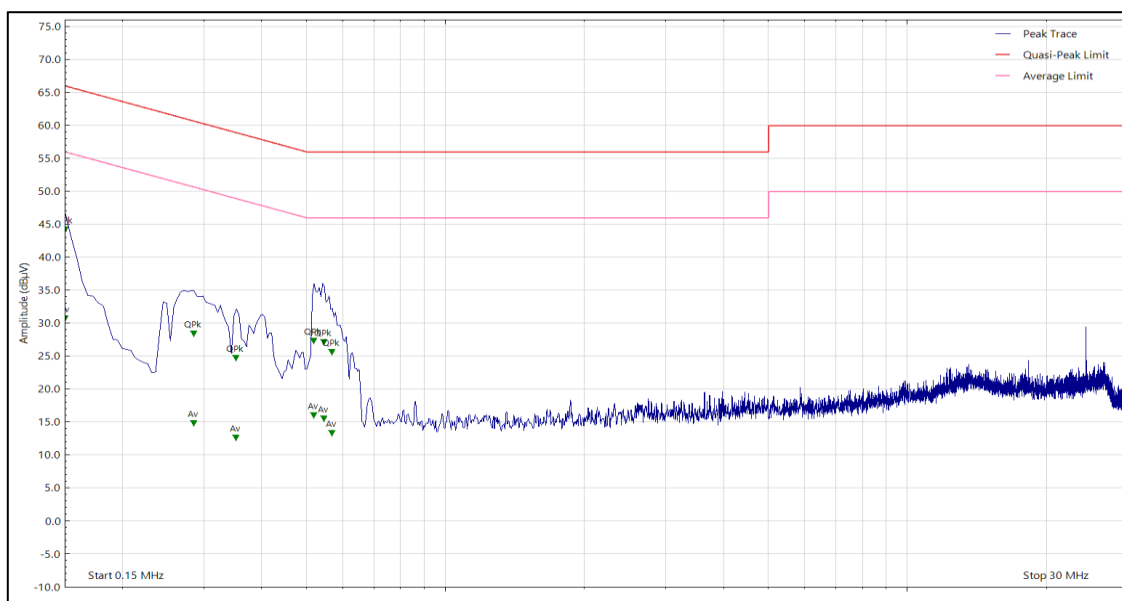


Figure 2 - Graphical Results - Live Line

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	43.53	66.00	-22.47	Q-Peak
0.150	30.05	56.00	-25.95	CISPR Avg
0.285	27.69	60.70	-33.01	Q-Peak
0.285	14.11	50.70	-36.59	CISPR Avg
0.352	24.02	58.90	-34.88	Q-Peak
0.352	11.89	48.90	-37.01	CISPR Avg
0.519	26.65	56.00	-29.35	Q-Peak
0.519	15.36	46.00	-30.64	CISPR Avg
0.546	26.39	56.00	-29.61	Q-Peak
0.546	14.81	46.00	-31.19	CISPR Avg
0.568	24.91	56.00	-31.09	Q-Peak
0.568	12.63	46.00	-33.37	CISPR Avg

Table 10

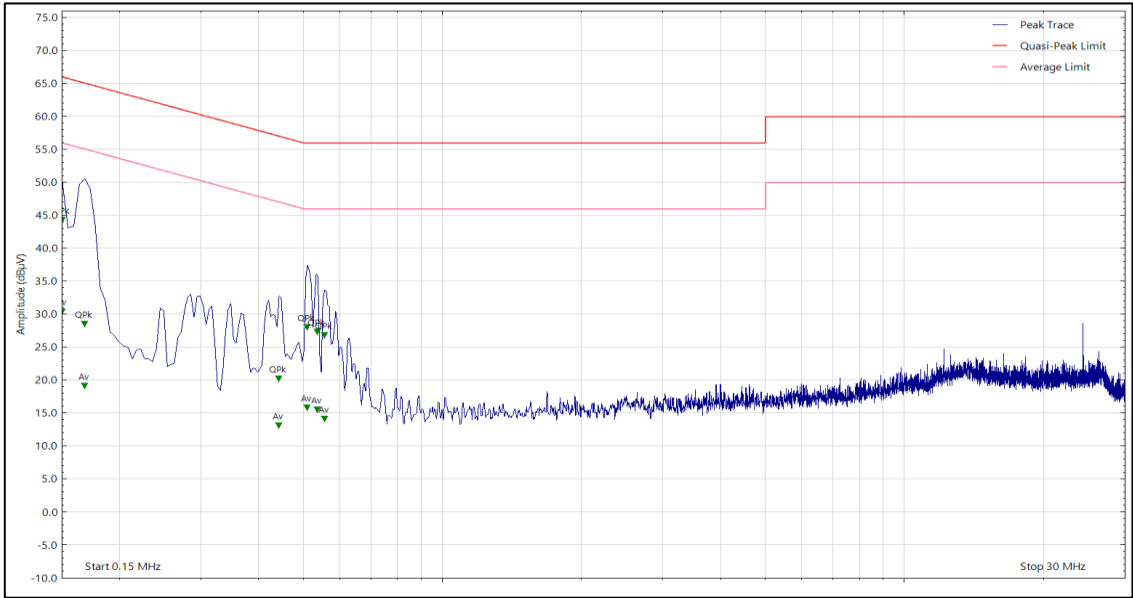


Figure 3 - Graphical Results - Neutral Line

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	43.63	66.00	-22.37	Q-Peak
0.150	29.70	56.00	-26.30	CISPR Avg
0.168	27.85	65.10	-37.25	Q-Peak
0.168	18.46	55.10	-36.64	CISPR Avg
0.443	19.49	57.00	-37.51	Q-Peak
0.443	12.39	47.00	-34.61	CISPR Avg
0.510	27.28	56.00	-28.72	Q-Peak
0.510	15.12	46.00	-30.88	CISPR Avg
0.537	26.57	56.00	-29.43	Q-Peak
0.537	14.87	46.00	-31.13	CISPR Avg
0.555	26.09	56.00	-29.91	Q-Peak
0.555	13.46	46.00	-32.54	CISPR Avg

Table 11



2.1.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 2.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5802	12	05-Nov-2026
Transient Limiter	Hewlett Packard	11947A	15	12	06-Nov-2026
Cable (N-Type to N-Type, 7 m)	Scott Cables	9918-NMNM-7000	4617	12	08-May-2027
Cable Assy 8m (N to N) 18GHz	Junkosha	MWX221-08000NMSNMS/B	7051	12	01-July-2026
LISN (CISPR 16, Single Phase)	Rohde & Schwarz	ESH3-Z5	1390	12	05-Feb-2027
Thermo Hygro Barometer	R.S Components	1160	7247	12	13-Mar-2027

Table 12



2.2 Radiated Emissions

2.2.1 Specification Reference

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

2.2.2 Equipment Under Test and Modification State

A3545, S/N: JN3GP9WQHQ- Modification State 0

2.2.3 Date of Test

30-May-2026

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

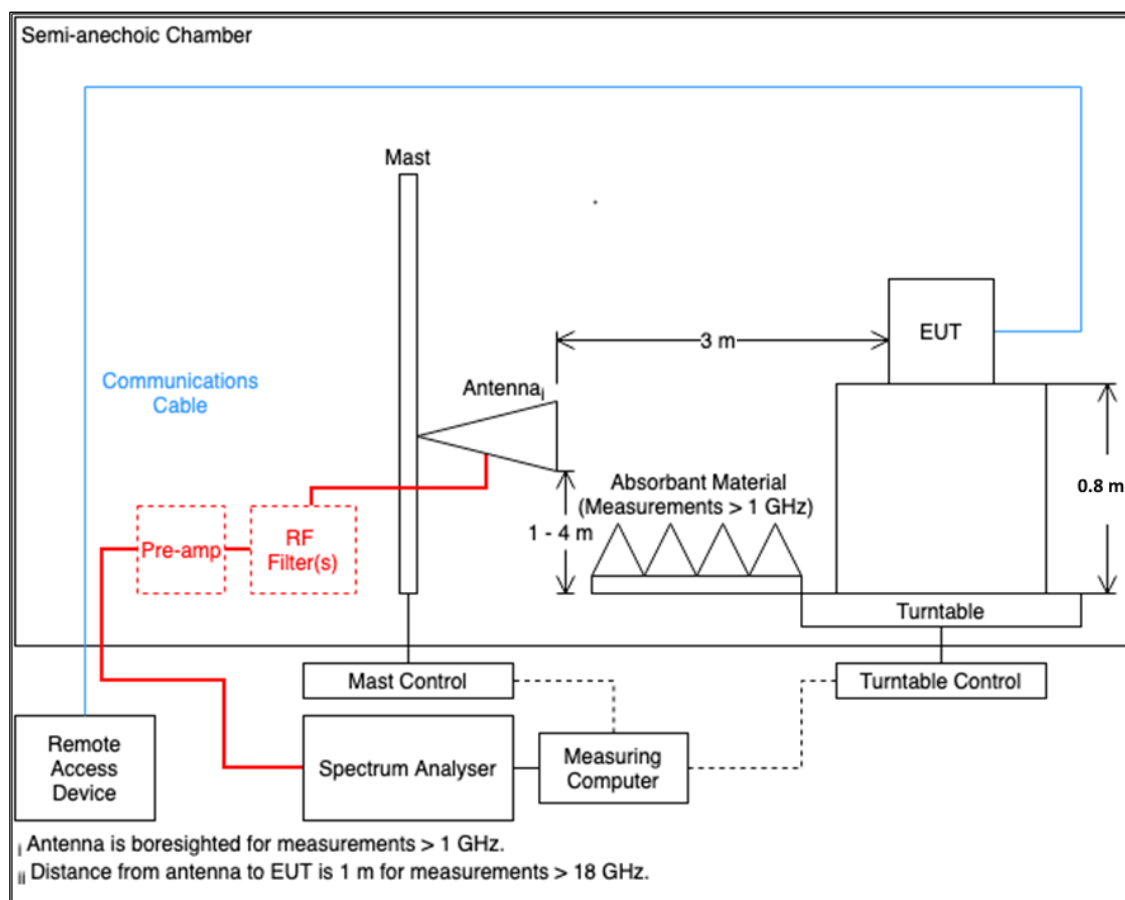


Figure 4 - Radiated Emissions Example Test Setup

2.2.7 Environmental Conditions

Ambient Temperature 22.0 °C
Relative Humidity 45.6 %
Atmospheric Pressure 1015.0 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 frequency generated or used within the EUT: 6 GHz
Which necessitates an upper frequency test limit of: 30 GHz (Tested to 40 GHz)

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

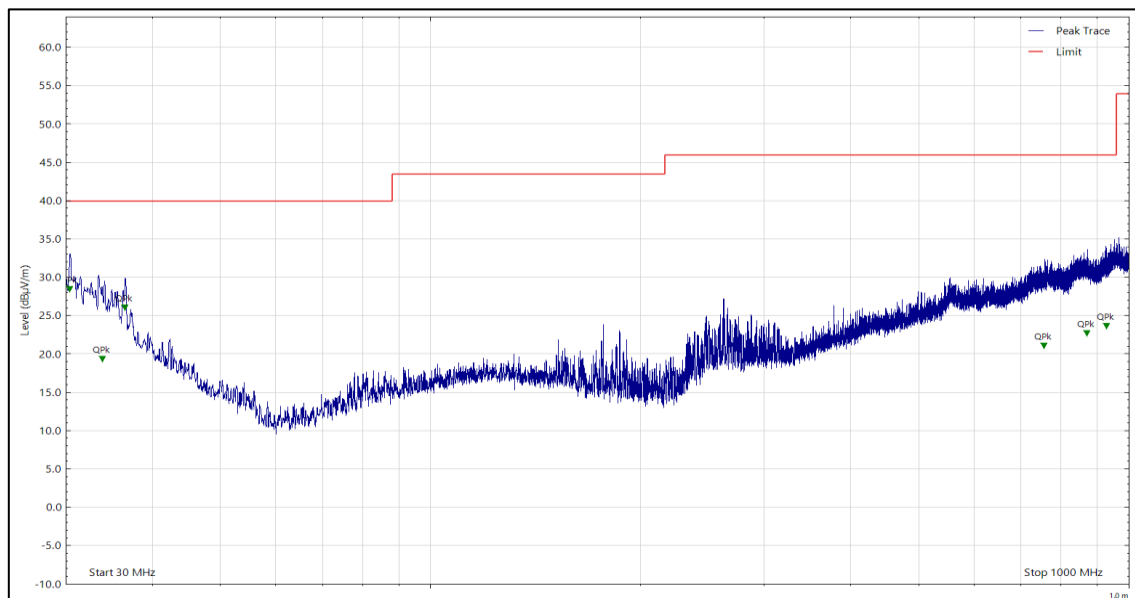


Figure 5 - 30 MHz to 1 GHz, Quasi-Peak, Horizontal

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.434	27.90	40.00	-12.10	Q-Peak	40	124	Horizontal
33.823	18.72	40.00	-21.28	Q-Peak	69	145	Horizontal
36.505	25.42	40.00	-14.58	Q-Peak	290	166	Horizontal
757.071	20.44	46.00	-25.56	Q-Peak	84	107	Horizontal
871.253	22.09	46.00	-23.91	Q-Peak	137	118	Horizontal
928.945	23.07	46.00	-22.93	Q-Peak	281	292	Horizontal

Table 14

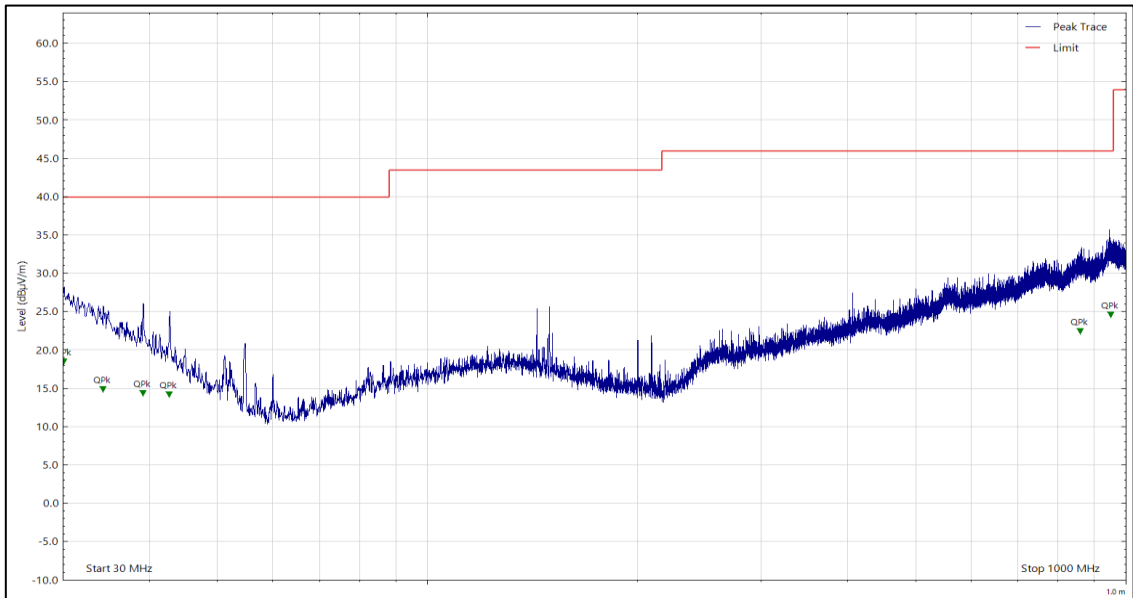


Figure 6 - 30 MHz to 1 GHz, Quasi-Peak, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.120	17.85	40.00	-22.15	Q-Peak	278	299	Vertical
34.260	14.30	40.00	-25.70	Q-Peak	245	208	Vertical
39.060	13.79	40.00	-26.21	Q-Peak	243	104	Vertical
42.660	13.58	40.00	-26.42	Q-Peak	257	100	Vertical
861.283	21.82	46.00	-24.18	Q-Peak	125	366	Vertical
952.541	24.01	46.00	-21.99	Q-Peak	126	230	Vertical

Table 15

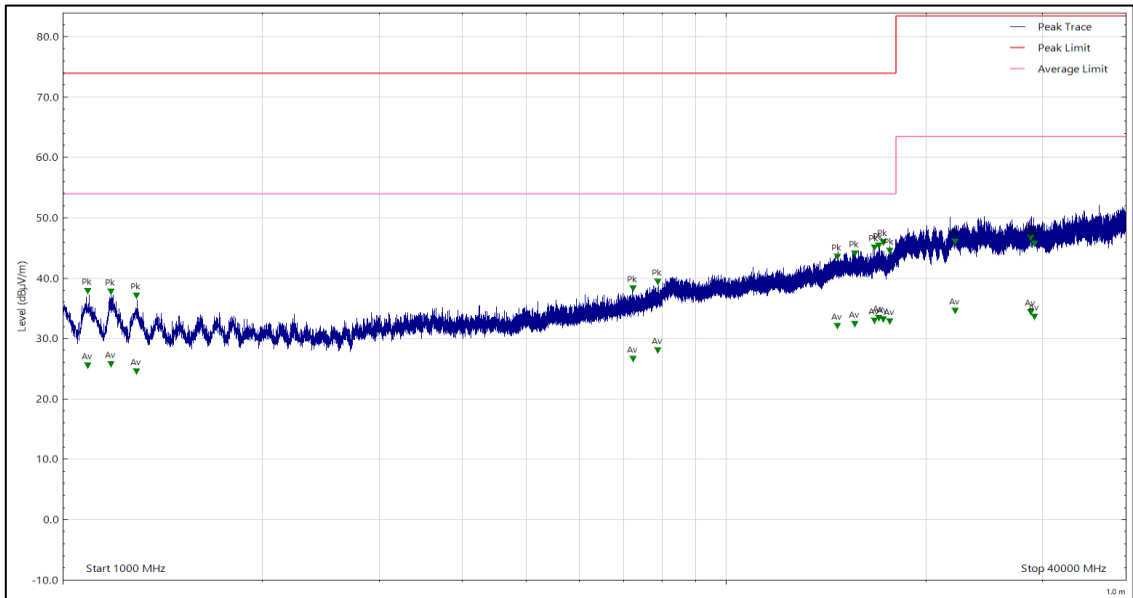


Figure 7 - 1 GHz to 30 GHz - Peak & CISPR Average, Horizontal



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1081.808	37.17	74.00	-36.83	Peak	253	234	Vertical
1081.808	25.07	54.00	-28.93	CISPR Avg	253	234	Vertical
1188.947	37.80	74.00	-36.20	Peak	120	203	Vertical
1188.947	24.93	54.00	-29.07	CISPR Avg	120	203	Vertical
6483.932	37.52	74.00	-36.48	Peak	34	280	Vertical
6483.932	24.86	54.00	-29.14	CISPR Avg	34	280	Vertical
7628.455	37.82	74.00	-36.18	Peak	303	387	Vertical
7628.455	26.58	54.00	-27.42	CISPR Avg	303	387	Vertical
7816.720	38.93	74.00	-35.07	Peak	229	202	Vertical
7816.720	27.07	54.00	-26.93	CISPR Avg	229	202	Vertical
10904.040	40.42	74.00	-33.58	Peak	272	146	Vertical
10904.040	28.68	54.00	-25.32	CISPR Avg	272	146	Vertical
13267.479	41.53	74.00	-32.47	Peak	142	357	Vertical
13267.479	29.75	54.00	-24.25	CISPR Avg	142	357	Vertical
15060.891	43.36	74.00	-30.64	Peak	0	340	Vertical
15060.891	31.51	54.00	-22.49	CISPR Avg	0	340	Vertical
15284.596	43.17	74.00	-30.83	Peak	16	213	Vertical
15284.596	31.36	54.00	-22.64	CISPR Avg	16	213	Vertical
16730.594	44.01	74.00	-29.99	Peak	337	214	Vertical
16730.594	32.29	54.00	-21.71	CISPR Avg	337	214	Vertical
17963.186	45.14	74.00	-28.86	Peak	308	315	Vertical
17963.186	33.29	54.00	-20.71	CISPR Avg	308	315	Vertical
28829.133	46.13	83.50	-37.37	Peak	332	100	Vertical
28829.133	34.48	63.50	-29.02	CISPR Avg	332	100	Vertical
29018.145	46.24	83.50	-37.26	Peak	176	100	Vertical
29018.145	33.74	63.50	-29.76	CISPR Avg	176	100	Vertical

Table 16

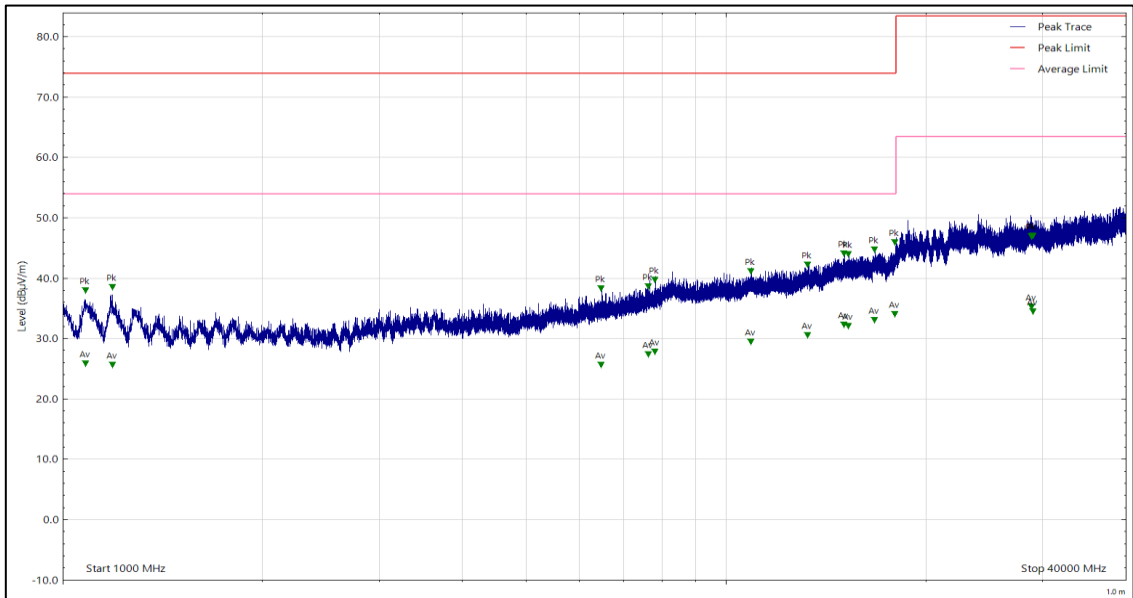


Figure 8 - 1 GHz to 30 GHz - Peak & CISPR Average, Vertical



Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1090.534	37.10	74.00	-36.90	Peak	23	280	Horizontal
1090.534	24.78	54.00	-29.22	CISPR Avg	23	280	Horizontal
1182.798	36.99	74.00	-37.01	Peak	183	374	Horizontal
1182.798	24.98	54.00	-29.02	CISPR Avg	183	374	Horizontal
1291.413	36.33	74.00	-37.67	Peak	143	164	Horizontal
1291.413	23.78	54.00	-30.22	CISPR Avg	143	164	Horizontal
7242.639	37.52	74.00	-36.48	Peak	320	100	Horizontal
7242.639	25.81	54.00	-28.19	CISPR Avg	320	100	Horizontal
7895.998	38.61	74.00	-35.39	Peak	232	276	Horizontal
7895.998	27.28	54.00	-26.72	CISPR Avg	232	276	Horizontal
14718.749	42.82	74.00	-31.18	Peak	107	312	Horizontal
14718.749	31.37	54.00	-22.63	CISPR Avg	107	312	Horizontal
15617.925	43.36	74.00	-30.64	Peak	353	217	Horizontal
15617.925	31.69	54.00	-22.31	CISPR Avg	353	217	Horizontal
16709.814	44.27	74.00	-29.73	Peak	242	236	Horizontal
16709.814	32.25	54.00	-21.75	CISPR Avg	242	236	Horizontal
16992.251	44.62	74.00	-29.38	Peak	157	281	Horizontal
16992.251	32.58	54.00	-21.42	CISPR Avg	157	281	Horizontal
17240.313	45.18	74.00	-28.82	Peak	279	252	Horizontal
17240.313	32.44	54.00	-21.56	CISPR Avg	279	252	Horizontal
17637.207	43.72	74.00	-30.28	Peak	161	133	Horizontal
17637.207	32.04	54.00	-21.96	CISPR Avg	161	133	Horizontal
22151.335	45.26	83.50	-38.24	Peak	160	100	Horizontal
22151.335	33.84	63.50	-29.66	CISPR Avg	160	100	Horizontal
28779.268	45.96	83.50	-37.54	Peak	11	100	Horizontal
28779.268	33.64	63.50	-29.86	CISPR Avg	11	100	Horizontal
29136.537	44.97	83.50	-38.53	Peak	263	100	Horizontal
29136.537	32.85	63.50	-30.65	CISPR Avg	263	100	Horizontal

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	09-Aug-2026
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5382	12	09-Oct-2026
Tilt Antenna Mast	Maturo Gmbh	TAM 4.0-P	5613	12	TU
Turntable & Mast Controller	Maturo Gmbh	NCD/498/2799.01	5612	-	TU
Cable (2.92 mm(f)-N(m), 2 m)	Junkosha	MWX241-02000KFSNMS/B	6332	12	03-Oct-2026
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	7054	12	01-Jun-2026
Cable (K-Type to K-Type, 2 m)	Junkosha	MWX241/B	5909	12	23-Sep-2026
Cable (K-Type to K-Type, 1 m)	Junkosha	MWX241-01000KMSKMS/A	5511	12	06-Jun-2026
Pre-Amplifier (1 GHz to 18 GHz)	Schwarzbeck	BBV 9718 C	5350	12	11-May-2027
Pre-Amplifier (8 - 18GHz)	Wright Technologies	APS06-0061	6306	12	18-Jul-2026
Pre-Amplifier (18 GHz to 40 GHz)	Phase One	PSO4-0087	1534	12	20-Oct-2026
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	5611	12	14-Sep-2026
Antenna (DRG, 7.5 GHz to 18 GHz)	Schwarzbeck	HWRD750	5610	12	29-Nov-2026
Antenna (DRG, 18 GHz to 40 GHz)	Link Microtek Ltd	AM180HA-K-TU2	230	24	08-Oct-2026
Thermo Hygro Barometer	R.S Components	1160	7247	12	13-Mar-2027

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
Milliohm Meter	VICI	2682132	7012	12	27-May-2027
Digital Multimeter	Fluke	115	5583	12	27-Aug-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 ± 3.30 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.