FCC and ISED Test Report

Apple Inc
Model: A3593

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

TUV SUD SERVICES (UK) LIMITED
Digitally signed by TUV SUD SERVICES (UK) LIMITED
Date: 2026.09.21 12:24:07 +01'00'

Prepared for: Apple Inc
One Apple Park Way
Cupertino
California
95014
USA

FCC ID: BCGA3593 IC: 579C-A3593

COMMERCIAL-IN-CONFIDENCE

Document 75967129-11 Issue 01

SIGNATURE			
AJ Lawson.			
NAME	**JOB TITLE**	**RESPONSIBLE FOR**	**ISSUE DATE**
Andrew Lawson	Chief Engineer, EMC	Authorised Signatory	21 September 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 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	21 September 2026	
	Abarajitha Karunakaran	21 September 2026	
	Matthew Dawkins	21 September 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: 2025, Issue 7: 2020 and Issue 5 and A2 (2021-02) for the tests detailed in section 1.3.

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TÜV SÜD
is a trading name of TUV SUD Ltd
Registered in Scotland at East Kilbride,
Glasgow G75 0QF, United Kingdom
Registered number: SC215164

TUV SUD Ltd is a
TÜV SÜD Group Company

Phone: +44 (0) 1489 558100
Fax: +44 (0) 1489 558101
www.tuvsud.com/en

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

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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	21 September 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: 2025, Issue 7: 2020 and Issue 5 and A2 (2021-02)
Start of Test	13-September-2026
Finish of Test	14-September-2026
Name of Engineer(s)	Sreemon Jayachandran Nair, Abarajitha Karunakaran Matthew Dawkins
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	15.109, 3.2.2 and 4.4	Radiated Emissions	Pass	ANSI C63.4: 2014
2.2	15.107, 3.2.1 and 4.4	Conducted Emissions, AC Power Port	Pass	ANSI C63.4: 2014

Table 2

1.4 Product Information

1.4.1 Technical Description

The equipment under test (EUT) was a TV Set Top Box.

1.4.2 EUT Port/Cable Identification

Port	Max Cable Length specified	Usage	Type	Screened
Configuration and Mode: AC Powered – All Modes				
AC Power Port	2 m	Main Power	IEC Mains Cable 2 Core	No
Ethernet	2 m	Data	RJ45	No
HDMI Port	1.5 m	Video Output	HDMI	Yes

Table 3

1.4.3 Test Configuration

Configuration	Description
AC Powered	The EUT was powered from a 115 V 60 Hz AC Mains supply. The EUT had the following connections made: • An Ethernet switch was used to terminate the Ethernet port. • A monitor was used to terminate the HDMI port.

Table 4

1.4.4 Modes of Operation

Mode	Description
Transmitters 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: A3593		
Serial Number	Hardware Version	Software Version
C9M6W0T6C7	REV1.0	24J232

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: A3593, Serial Number: C9M6W0T6C7			
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		
Radiated Emissions	Abarajitha Karunakaran and Matthew Dawkins	UKAS
Conducted Emissions, AC Power Port	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 Radiated Emissions

2.1.1 Specification Reference

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

2.1.2 Equipment Under Test and Modification State

A3593, S/N: C9M6W0T6C7 - Modification State 0

2.1.3 Date of Test

13-September-2026

2.1.4 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.

2.1.5 Example Calculation

Below 1 GHz:

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

Above 1 GHz:

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

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

2.1.6 Example Test Setup Diagram

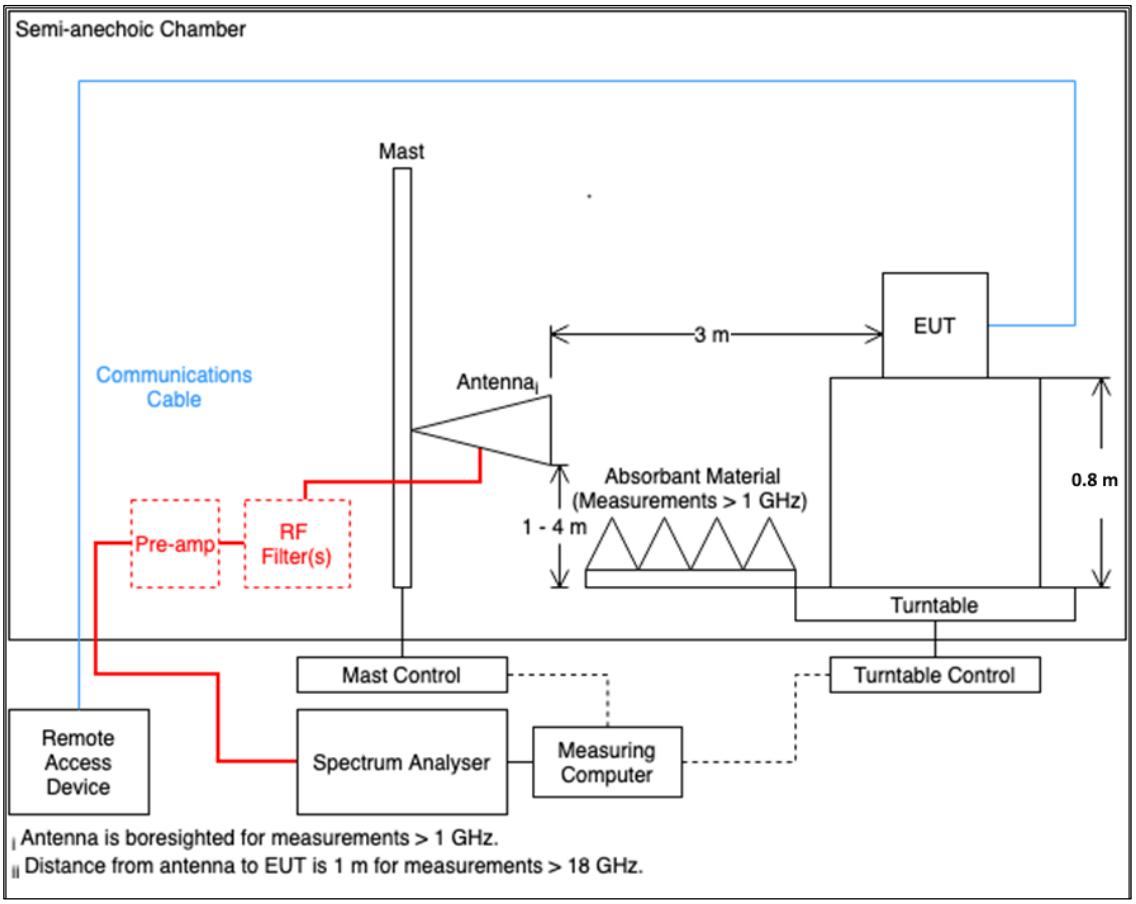

Figure 1 - Radiated Emissions Example Test Setup

2.1.7 Environmental Conditions

Ambient Temperature	22.8 °C
Relative Humidity	58.1 %
Atmospheric Pressure	1018.0 - 1019.0 mbar

2.1.8 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 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.

Highest frequency generated or used within the EUT: 6 GHz
Which necessitates an upper frequency test limit of: 40 GHz

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

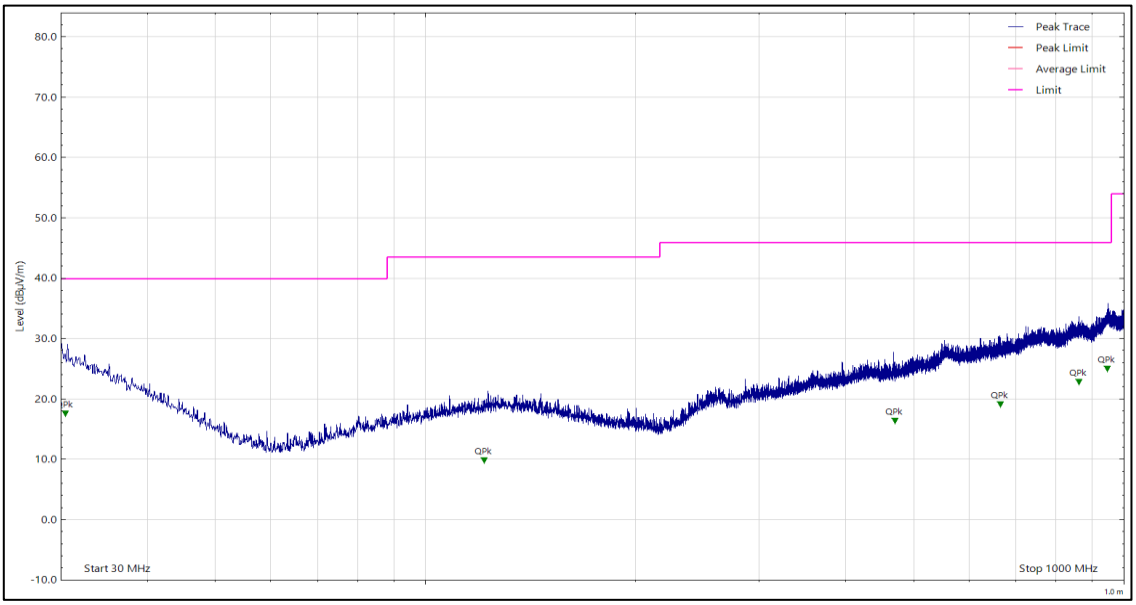

Figure 2 - 30 MHz to 1 GHz, Quasi-Peak, Horizontal

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.465	16.82	40.00	-23.18	Q-Peak	190	349	Horizontal
121.343	9.04	43.50	-34.46	Q-Peak	142	232	Horizontal
469.799	15.55	46.00	-30.45	Q-Peak	9	345	Horizontal
665.776	18.37	46.00	-27.63	Q-Peak	279	221	Horizontal
862.134	22.06	46.00	-23.94	Q-Peak	36	388	Horizontal
946.913	24.25	46.00	-21.75	Q-Peak	207	209	Horizontal

Table 10

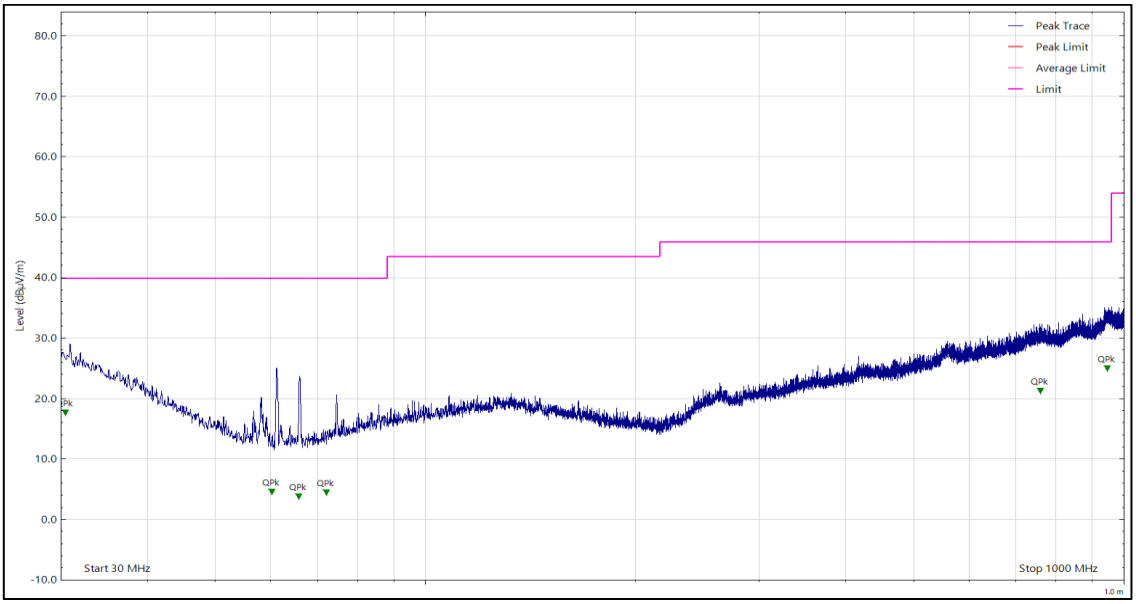

Figure 3 - 30 MHz to 1 GHz, Quasi-Peak, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.467	16.86	40.00	-23.14	Q-Peak	5	376	Vertical
60.204	3.76	40.00	-36.24	Q-Peak	104	104	Vertical
65.831	3.06	40.00	-36.94	Q-Peak	134	335	Vertical
72.090	3.66	40.00	-36.34	Q-Peak	104	400	Vertical
760.233	20.56	46.00	-25.44	Q-Peak	327	248	Vertical
948.266	24.26	46.00	-21.74	Q-Peak	65	334	Vertical

Table 11

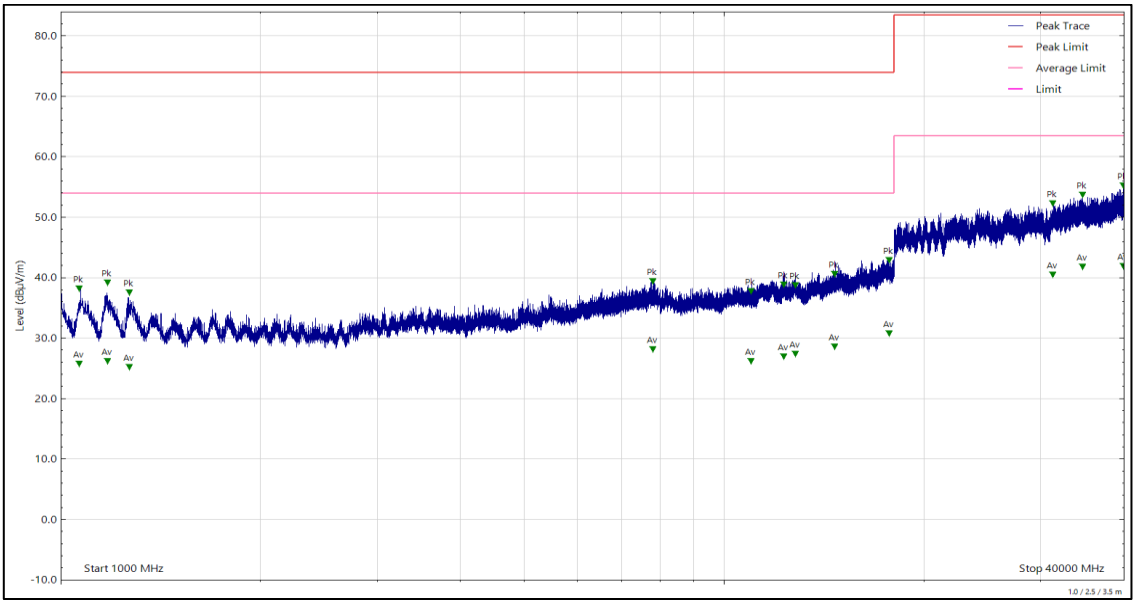

Figure 4 - 1 GHz to 40 GHz, Peak & CISPR Average, Horizontal

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1066.683	37.47	74.00	-36.53	Peak	347	153	Horizontal
1066.683	25.01	54.00	-28.99	CISPR Avg	347	153	Horizontal
1175.807	38.42	74.00	-35.58	Peak	331	314	Horizontal
1175.807	25.40	54.00	-28.60	CISPR Avg	331	314	Horizontal
1269.931	36.81	74.00	-37.19	Peak	184	175	Horizontal
1269.931	24.41	54.00	-29.59	CISPR Avg	184	175	Horizontal
7816.482	38.61	74.00	-35.39	Peak	318	388	Horizontal
7816.482	27.40	54.00	-26.60	CISPR Avg	318	388	Horizontal
10989.150	36.99	74.00	-37.01	Peak	111	105	Horizontal
10989.150	25.40	54.00	-28.60	CISPR Avg	111	105	Horizontal
12308.385	38.05	74.00	-35.95	Peak	280	351	Horizontal
12308.385	26.20	54.00	-27.80	CISPR Avg	280	351	Horizontal
12795.531	37.96	74.00	-36.04	Peak	60	250	Horizontal
12795.531	26.59	54.00	-27.41	CISPR Avg	60	250	Horizontal
14681.297	39.84	74.00	-34.16	Peak	37	378	Horizontal
14681.297	27.86	54.00	-26.14	CISPR Avg	37	378	Horizontal
17717.266	42.17	74.00	-31.83	Peak	311	372	Horizontal
17717.266	30.04	54.00	-23.96	CISPR Avg	311	372	Horizontal
31283.140	51.53	83.50	-31.97	Peak	321	100	Horizontal
31283.140	39.73	63.50	-23.77	CISPR Avg	321	100	Horizontal
34661.680	52.92	83.50	-30.58	Peak	350	100	Horizontal
34661.680	41.04	63.50	-22.46	CISPR Avg	350	100	Horizontal
39971.970	54.46	83.50	-29.04	Peak	29	100	Horizontal
39971.970	41.10	63.50	-22.40	CISPR Avg	29	100	Horizontal

Table 12

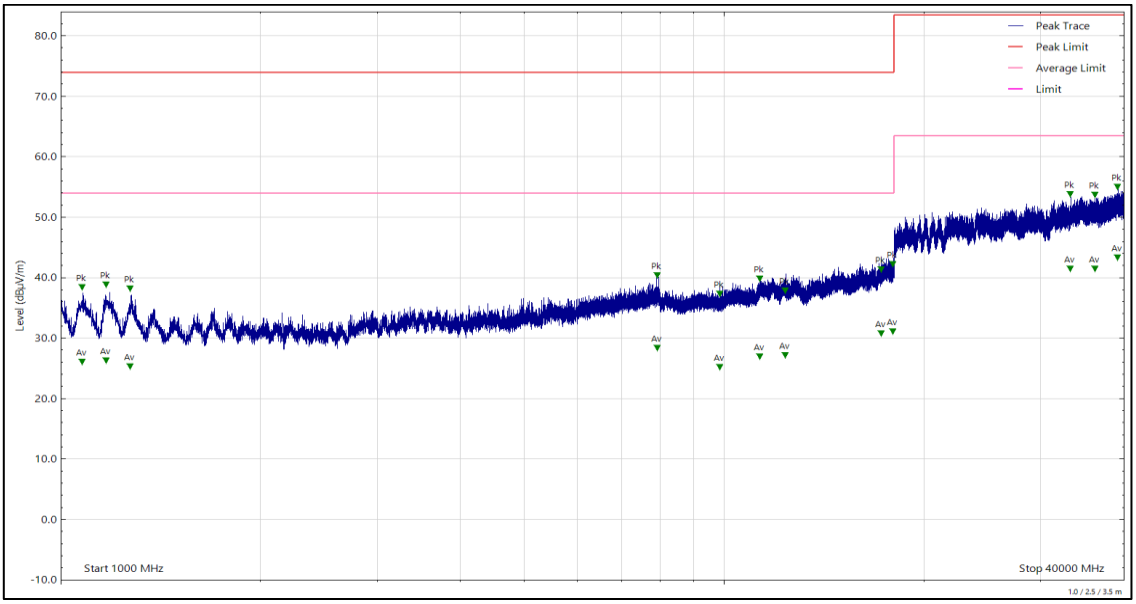

Figure 5 - 1 GHz to 40 GHz, Peak & CISPR Average, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1075.953	37.67	74.00	-36.33	Peak	10	387	Vertical
1075.953	25.34	54.00	-28.66	CISPR Avg	10	387	Vertical
1172.124	38.08	74.00	-35.92	Peak	29	164	Vertical
1172.124	25.52	54.00	-28.48	CISPR Avg	29	164	Vertical
1272.983	37.41	74.00	-36.59	Peak	97	179	Vertical
1272.983	24.54	54.00	-29.46	CISPR Avg	97	179	Vertical
7923.420	39.66	74.00	-34.34	Peak	44	126	Vertical
7923.420	27.59	54.00	-26.41	CISPR Avg	44	126	Vertical
9842.285	36.55	74.00	-37.45	Peak	6	394	Vertical
9842.285	24.47	54.00	-29.53	CISPR Avg	6	394	Vertical
11322.581	39.07	74.00	-34.93	Peak	350	119	Vertical
11322.581	26.17	54.00	-27.83	CISPR Avg	350	119	Vertical
12360.071	37.12	74.00	-36.88	Peak	89	242	Vertical
12360.071	26.46	54.00	-27.54	CISPR Avg	89	242	Vertical
17241.303	40.59	74.00	-33.41	Peak	100	287	Vertical
17241.303	30.01	54.00	-23.99	CISPR Avg	100	287	Vertical
17975.704	41.46	74.00	-32.54	Peak	148	350	Vertical
17975.704	30.33	54.00	-23.67	CISPR Avg	148	350	Vertical
33217.930	53.08	83.50	-30.42	Peak	327	100	Vertical
33217.930	40.67	63.50	-22.83	CISPR Avg	327	100	Vertical
36172.210	52.95	83.50	-30.55	Peak	315	100	Vertical
36172.210	40.72	63.50	-22.78	CISPR Avg	315	100	Vertical
39185.920	54.30	83.50	-29.20	Peak	46	100	Vertical
39185.920	42.61	63.50	-20.89	CISPR Avg	46	100	Vertical

Table 13

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	19-Aug-2029
Emissions Software	TUV SUD	EmX V3.6.3	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5802	12	05-Nov-2026
Turntable & Mast Controller	Maturo Gmbh	NCD/498/2799.01	5612	-	TU
Tilt Antenna Mast	Maturo Gmbh	TAM 4.0-P	5613	-	TU
1m K-Type Cable	Junkosha	MWX221/B	5908	12	04-Nov-2026
Cable (K-Type to K-Type, 2 m)	Junkosha	MWX241/B	5909	12	23-Sep-2026
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	08-Jul-2027
Pre-Amplifier (1 GHz to 18 GHz)	Schwarzbeck	BBV 9718 C	5350	12	11-May-2027
Pre-Amplifier (8 GHz to 18 GHz)	Wright Technologies	APS06-0061	5596	12	28-Oct-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	5215	12	19-Jul-2027
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

Table 14

TU - Traceability Unscheduled

2.2 Conducted Emissions, AC Power Port

2.2.1 Specification Reference

FCC 47 CFR Part 15B, ICES-003 and ISED RSS-GEN, Clause 15.107, 3.2.1 and 4.4

2.2.2 Equipment Under Test and Modification State

A3593, S/N: C9M6W0T6C7 - Modification State 0

2.2.3 Date of Test

14-September-2026

2.2.4 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.

2.2.5 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)

2.2.6 Example Test Setup Diagram

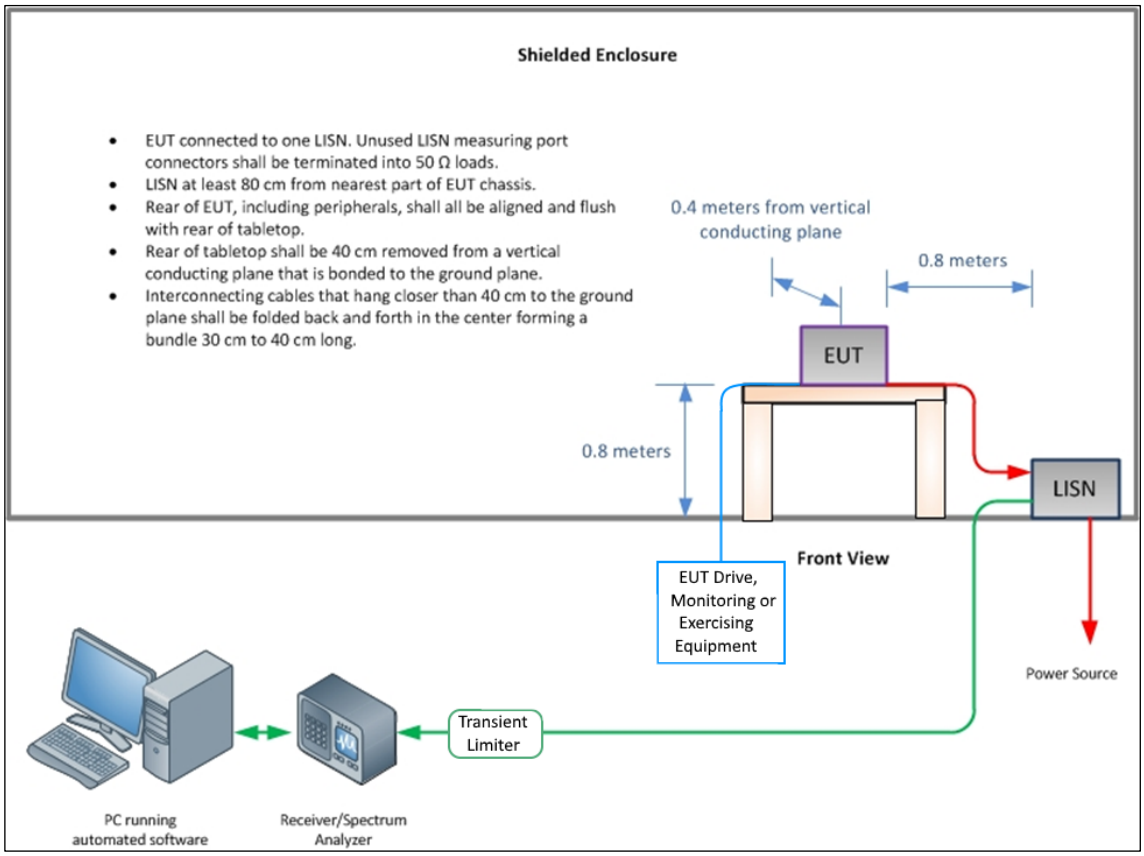

Figure 6 - Conducted Emissions Example Test Setup

2.2.7 Environmental Conditions

Ambient Temperature	23.6 °C
Relative Humidity	66.4 %
Atmospheric Pressure	1015.0 mbar

2.2.8 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 15

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.

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

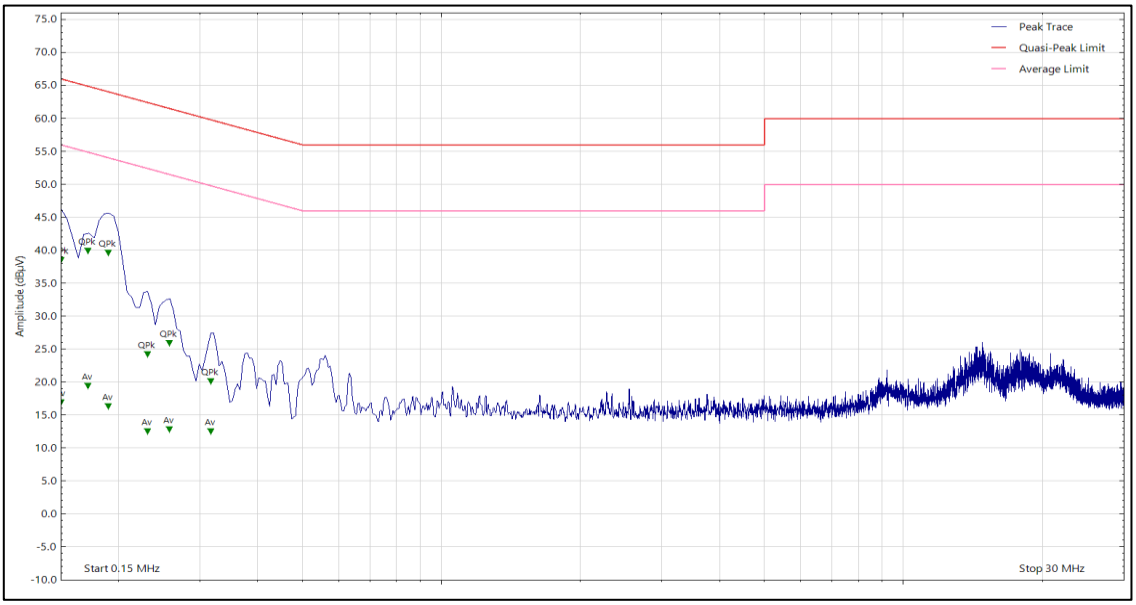

Figure 7 - Graphical Results - Live Line

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	37.76	66.00	-28.24	Q-Peak
0.150	16.24	56.00	-39.76	CISPR Avg
0.172	39.23	64.90	-25.67	Q-Peak
0.172	18.73	54.90	-36.17	CISPR Avg
0.190	38.93	64.00	-25.07	Q-Peak
0.190	15.66	54.00	-38.34	CISPR Avg
0.231	23.53	62.40	-38.87	Q-Peak
0.231	11.80	52.40	-40.60	CISPR Avg
0.258	25.16	61.50	-36.34	Q-Peak
0.258	12.10	51.50	-39.40	CISPR Avg
0.317	19.41	59.80	-40.39	Q-Peak
0.317	11.79	49.80	-38.01	CISPR Avg

Table 16

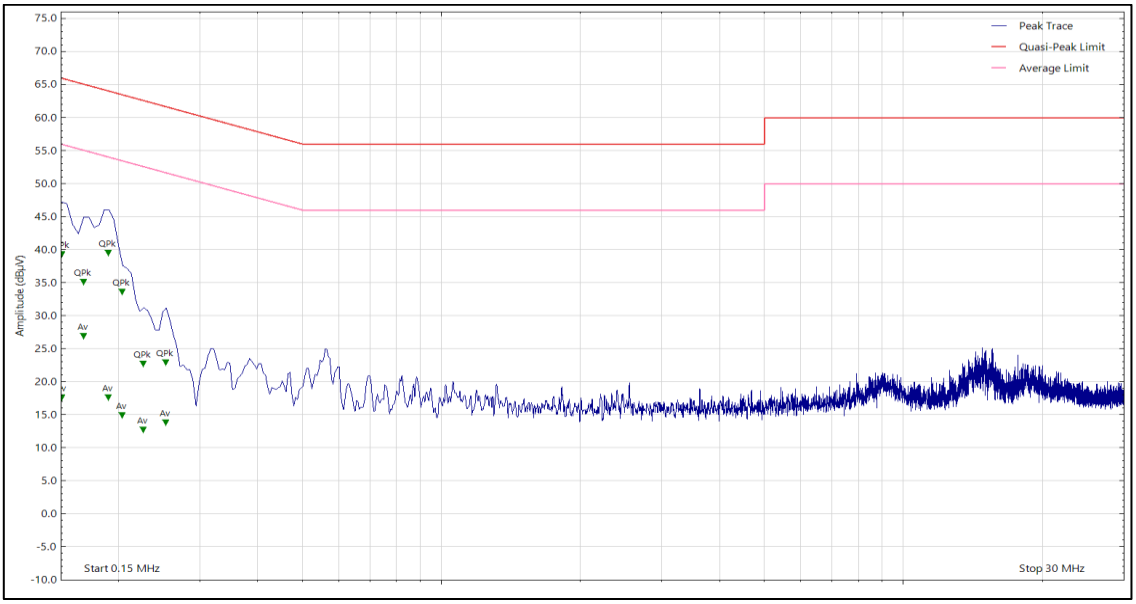

Figure 8 - Graphical Results - Neutral Line

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.151	38.57	65.90	-27.33	Q-Peak
0.151	16.93	55.90	-38.97	CISPR Avg
0.168	34.38	65.10	-30.72	Q-Peak
0.168	26.17	55.10	-28.93	CISPR Avg
0.190	38.80	64.00	-25.20	Q-Peak
0.190	16.89	54.00	-37.11	CISPR Avg
0.204	32.90	63.50	-30.60	Q-Peak
0.204	14.21	53.50	-39.29	CISPR Avg
0.226	21.99	62.60	-40.61	Q-Peak
0.226	12.01	52.60	-40.59	CISPR Avg
0.253	22.24	61.60	-39.36	Q-Peak
0.253	13.14	51.60	-38.46	CISPR Avg

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
Emissions Software	TUV SUD	EmX V3.6.3	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5802	12	05-Nov-2026
Transient Limiter	Hewlett Packard	11947A	2378	12	28-Oct-2026
Cable Assembly - 18GHz 2m	Junkosha	MWX221-02000AMSAMS/B	5730	6	08-Nov-2026
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	7054	12	08-Jul-2027
LISN (CISPR 16, Single Phase)	Rohde & Schwarz	ESH3-Z5	1390	12	05-Feb-2027
Thermo Hygro Barometer	R.S Components	1160	7243	12	13-Mar-2027

Table 18

3 Test Equipment Information

3.1 General Test Equipment Used

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Milliohm Meter	VICI	VC480C+	7012	12	27-May-2027

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
Radiated Emissions	30 MHz to 1 GHz, Bilog Antenna ± 5.93 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
Conducted Emissions, AC Power Port	150 kHz to 30 MHz, LISN ±3.3 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.