

FCC and ISED Test Report

Apple Inc
Model: A3546



In accordance with FCC 47 CFR Part 15C,
ISED RSS-247 and ISED RSS-GEN

Prepared for: Apple Inc
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Document 75967471-12 Issue 01

SIGNATURE

A. Lawson

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Andrew Lawson	Chief Engineer, EMC	Authorised Signatory	09 July 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 15C and ISED RSS-247 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	Adam Holloway	09 July 2026	<i>[Signature]</i>
	Connor Lee	09 July 2026	<i>[Signature]</i>

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 15C, ISED RSS-247 and ISED RSS-GEN: 2024, Issue 4 (2025-07) and Issue 5 (2018-04) + A2 (2021-02) for the tests detailed in section 1.3.



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ACCREDITATION

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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	09 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 15C, ISED RSS-247 and ISED RSS-GEN: 2024, Issue 4 (2025-07) and Issue 5 (2018-04) + A2 (2021-02)
Start of Test	12-June-2026
Finish of Test	17-June-2026
Name of Engineer(s)	Adam Holloway Connor Lee
Related Document(s)	ANSI C63.10 (2020)



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15C and ISED RSS-247 and ISED RSS-GEN is shown below.

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - 2.4 GHz Bluetooth				
2.1	15.207, 2.4 and 8.8	AC Power Line Conducted Emissions	Pass	ANSI C63.10 (2020)

Table 2

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - 2.4 GHz WLAN				
2.1	15.207, 2.4 and 8.8	AC Power Line Conducted Emissions	Pass	ANSI C63.10 (2020)

Table 3

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - 5 GHz WLAN				
2.1	15.207, 2.4 and 8.8	AC Power Line Conducted Emissions	Pass	ANSI C63.10 (2020)

Table 4



Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - 6 GHz WLAN				
2.1	15.207, 2.4 and 8.8	AC Power Line Conducted Emissions	Pass	ANSI C63.10 (2020)

Table 5

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - Narrowband				
2.1	15.207, 2.4 and 8.8	AC Power Line Conducted Emissions	Pass	ANSI C63.10 (2020)

Table 6



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 Type-C	No
USB Port 7	0.5 cm	Power/Data	USB 2.0	No
USB Port 8	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 7

1.4.3 Test Configuration

Configuration	Description
AC Powered	The EUT was powered from a 120 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 8



1.4.4 Modes of Operation

Mode	Description
2.4 GHz Bluetooth	The EUT was powered with a connection established with a CMW 500 test set.
2.4 GHz WLAN	The EUT was powered with a network link established with an access point.
5 GHz WLAN	The EUT was powered with a network link established with an access point.
6 GHz WLAN	The EUT was powered with a network link established with an access point.
Narrowband	The EUT was powered and placed in a link with another customer provided slave device.

Table 9

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: A3546		
Serial Number	Hardware Version	Software Version
GXY123LRFP	REV1.0	26A357b
K92V9269M4	REV1.0	26A322

Table 10

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: A3546, Serial Number: GXY123LRFP			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3546, Serial Number: K92V9269M4			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 11



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 - 2.4 GHz Bluetooth		
AC Power Line Conducted Emissions	Adam Holloway	UKAS

Table 12

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: AC Powered - 2.4 GHz WLAN		
AC Power Line Conducted Emissions	Matthew Dawkins	UKAS

Table 13

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: AC Powered - 5 GHz WLAN		
AC Power Line Conducted Emissions	Matthew Dawkins	UKAS

Table 14

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: AC Powered - 6 GHz WLAN		
AC Power Line Conducted Emissions	Matthew Dawkins	UKAS

Table 15

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: AC Powered - Narrowband		
AC Power Line Conducted Emissions	Connor Lee	UKAS

Table 16

Office Address:

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



2 Test Details

2.1 AC Power Line Conducted Emissions

2.1.1 Specification Reference

FCC 47 CFR Part 15C, ISED RSS-247 and ISED RSS-GEN, Clause 15.207, 2.4 and 8.8

2.1.2 Equipment Under Test and Modification State

A3546, S/N: GXY123LRFP - Modification State 0

A3546, S/N: K92V9269M4 - Modification State 0

2.1.3 Date of Test

12-June-2026 to 17-June-2026

2.1.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.2.

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

All power was connected to the EUT through an Artificial Mains Network (AMN).

Conducted disturbance voltage measurements on mains lines were made at the output of the AMN.

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

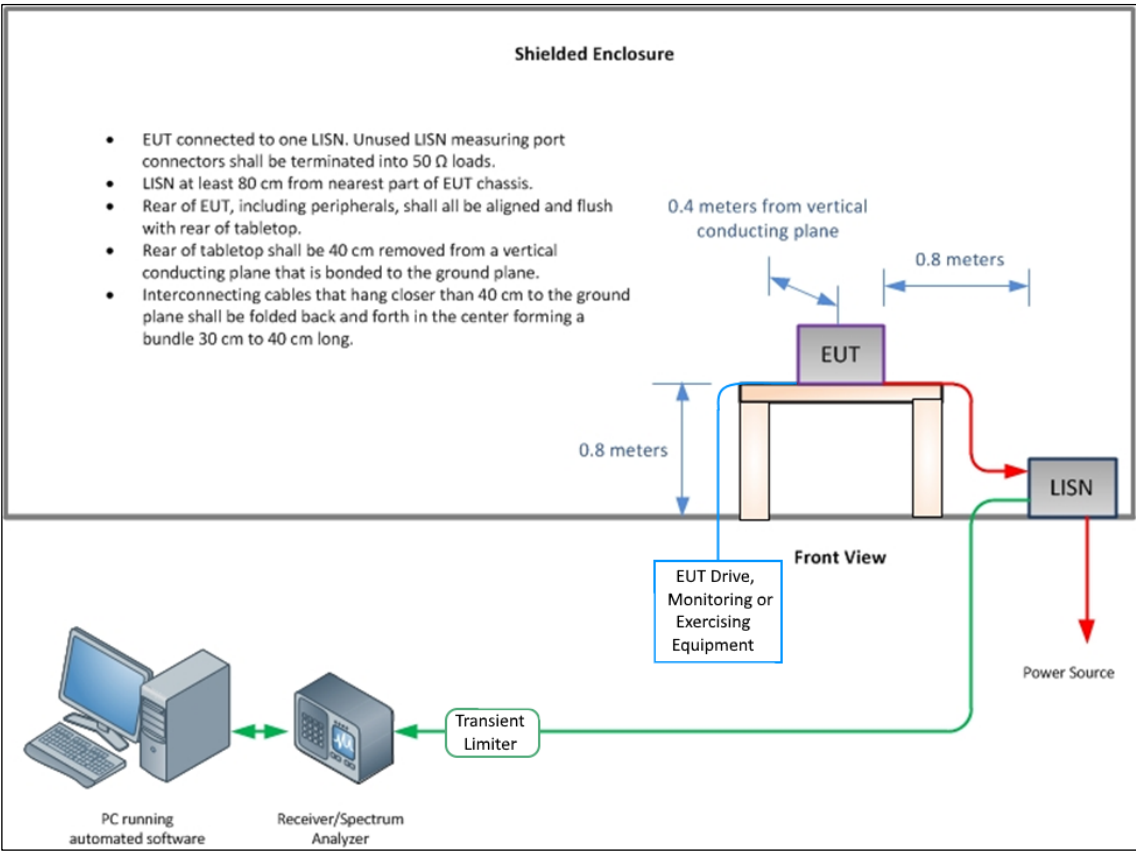


Figure 1 - Conducted Emissions Example Test Setup

2.1.7 Environmental Conditions

Ambient Temperature 21.5 - 22.5 °C
Relative Humidity 56.6 - 58.5 %

2.1.8 Specification Limits

Required Specification Limits			
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 17

*Decreases with the logarithm of the frequency.

2.1.9 Test Results

Results for Configuration and Mode: AC Powered – 2.4 GHz Bluetooth.

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

Detailed results are shown below.

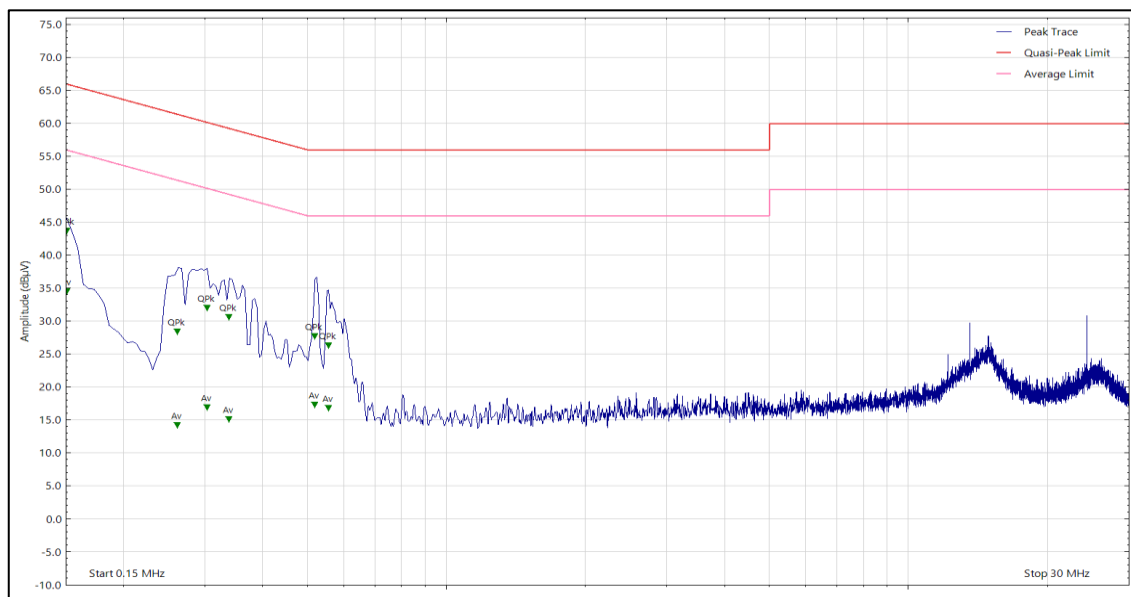


Figure 2 - Live Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.151	42.99	65.90	-22.91	Q-Peak
0.151	33.78	55.90	-22.12	CISPR Avg
0.262	27.74	61.40	-33.66	Q-Peak
0.262	13.48	51.40	-37.92	CISPR Avg
0.303	31.26	60.20	-28.94	Q-Peak
0.303	16.19	50.20	-34.01	CISPR Avg
0.339	29.88	59.20	-29.32	Q-Peak
0.339	14.45	49.20	-34.75	CISPR Avg
0.519	27.01	56.00	-28.99	Q-Peak
0.519	16.65	46.00	-29.35	CISPR Avg
0.555	25.56	56.00	-30.44	Q-Peak
0.555	16.07	46.00	-29.93	CISPR Avg

Table 18

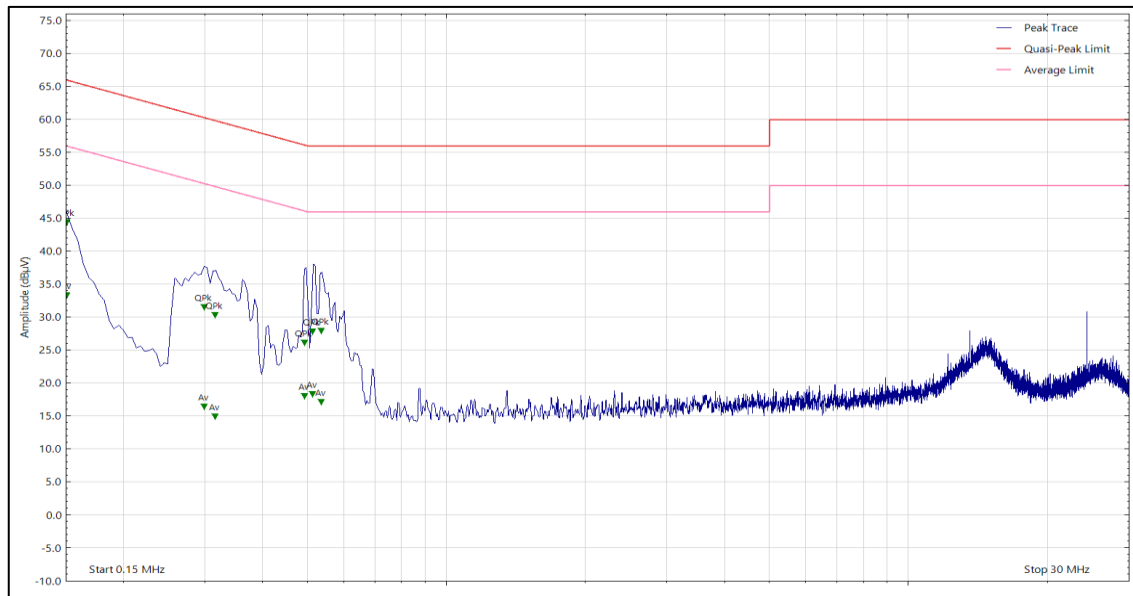


Figure 3 - Neutral Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.151	43.70	66.00	-22.30	Q-Peak
0.151	32.59	56.00	-23.41	CISPR Avg
0.299	30.82	60.30	-29.48	Q-Peak
0.299	15.72	50.30	-34.58	CISPR Avg
0.316	29.60	59.80	-30.20	Q-Peak
0.316	14.25	49.80	-35.55	CISPR Avg
0.493	25.36	56.10	-30.74	Q-Peak
0.493	17.28	46.10	-28.82	CISPR Avg
0.514	27.10	56.00	-28.90	Q-Peak
0.514	17.63	46.00	-28.37	CISPR Avg
0.537	27.19	56.00	-28.81	Q-Peak
0.537	16.39	46.00	-29.61	CISPR Avg

Table 19

Results for Configuration and Mode: AC Powered – 2.4 GHz WLAN.

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

Detailed results are shown below.

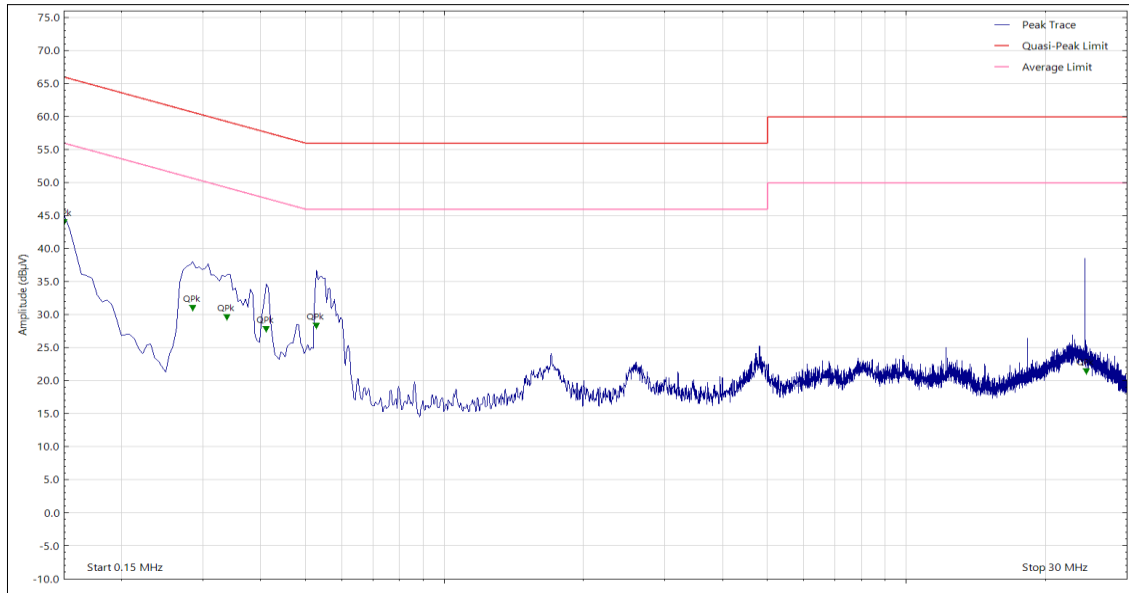


Figure 4 - Live Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	43.25	66.00	-22.75	Q-Peak
0.150	33.85	56.00	-22.15	CISPR Avg
0.285	30.31	60.70	-30.39	Q-Peak
0.285	15.97	50.70	-34.73	CISPR Avg
0.339	28.88	59.20	-30.32	Q-Peak
0.339	14.82	49.20	-34.38	CISPR Avg
0.411	27.09	57.60	-30.51	Q-Peak
0.411	15.45	47.60	-32.15	CISPR Avg
0.528	27.57	56.00	-28.43	Q-Peak
0.528	16.10	46.00	-29.90	CISPR Avg
24.532	20.67	60.00	-39.33	Q-Peak
24.532	14.65	50.00	-35.35	CISPR Avg

Table 20

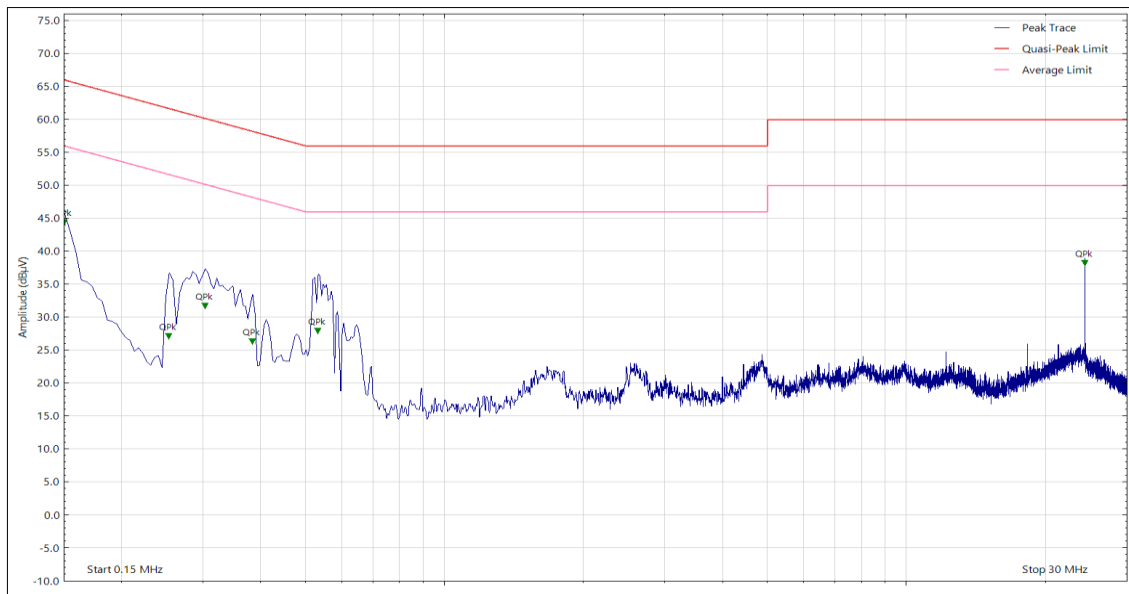


Figure 5 - Neutral Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	43.72	66.00	-22.28	Q-Peak
0.150	32.42	56.00	-23.58	CISPR Avg
0.253	26.44	61.70	-35.26	Q-Peak
0.253	14.04	51.70	-37.66	CISPR Avg
0.303	30.96	60.20	-29.24	Q-Peak
0.303	16.17	50.20	-34.03	CISPR Avg
0.384	25.62	58.20	-32.58	Q-Peak
0.384	14.69	48.20	-33.51	CISPR Avg
0.532	27.17	56.00	-28.83	Q-Peak
0.532	16.02	46.00	-29.98	CISPR Avg
24.346	37.45	60.00	-22.55	Q-Peak
24.346	37.10	50.00	-12.90	CISPR Avg

Table 21

Results for Configuration and Mode: AC Powered – 5 GHz WLAN.

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

Detailed results are shown below.

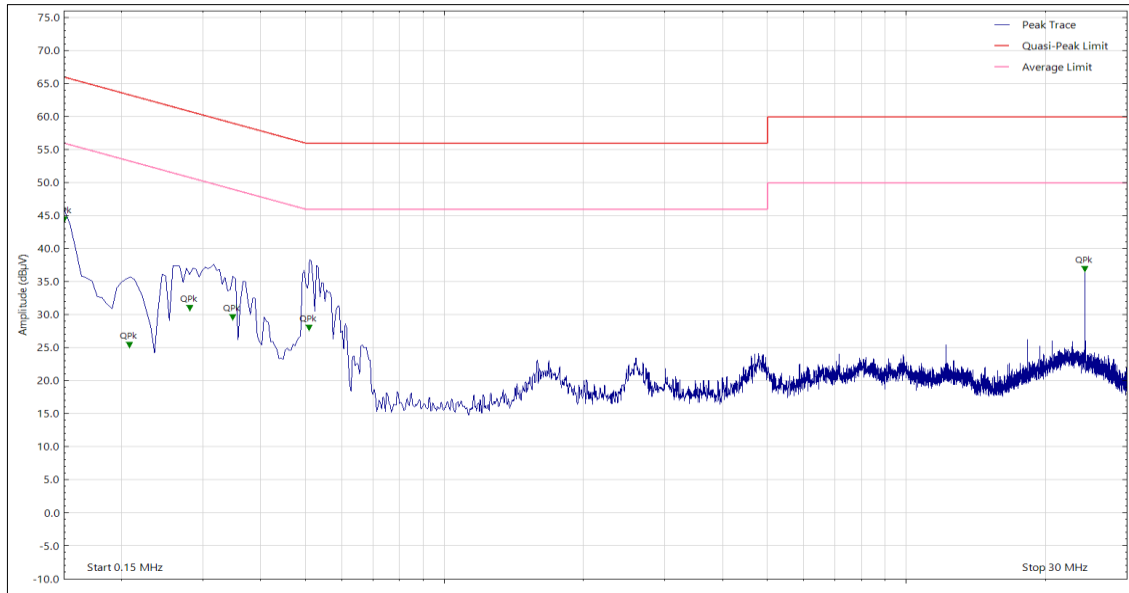


Figure 6 - Live Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	43.72	66.00	-22.28	Q-Peak
0.150	33.72	56.00	-22.28	CISPR Avg
0.208	24.68	63.30	-38.62	Q-Peak
0.208	16.36	53.30	-36.94	CISPR Avg
0.281	30.31	60.80	-30.49	Q-Peak
0.281	17.53	50.80	-33.27	CISPR Avg
0.348	28.86	59.00	-30.14	Q-Peak
0.348	14.62	49.00	-34.38	CISPR Avg
0.510	27.31	56.00	-28.69	Q-Peak
0.510	16.83	46.00	-29.17	CISPR Avg
24.346	36.16	60.00	-23.84	Q-Peak
24.346	35.71	50.00	-14.29	CISPR Avg

Table 22

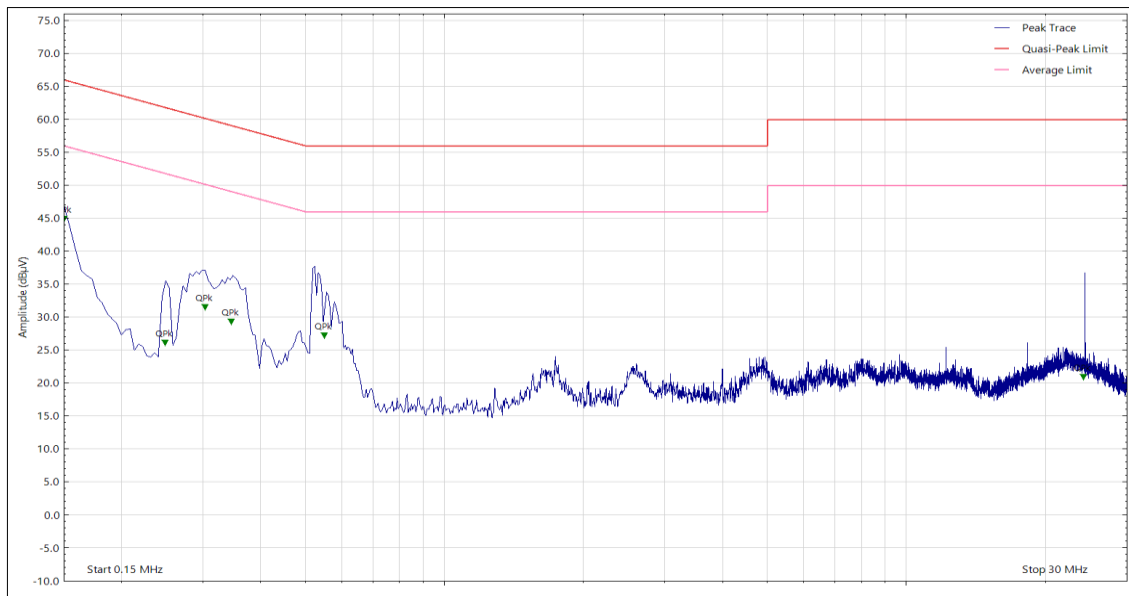


Figure 7 - Neutral Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	44.15	66.00	-21.85	Q-Peak
0.150	32.86	56.00	-23.14	CISPR Avg
0.249	25.39	61.80	-36.41	Q-Peak
0.249	13.62	51.80	-38.18	CISPR Avg
0.304	30.83	60.10	-29.27	Q-Peak
0.304	16.08	50.10	-34.02	CISPR Avg
0.346	28.57	59.10	-30.53	Q-Peak
0.346	14.84	49.10	-34.26	CISPR Avg
0.550	26.49	56.00	-29.51	Q-Peak
0.550	16.78	46.00	-29.22	CISPR Avg
24.176	20.25	60.00	-39.75	Q-Peak
24.176	14.15	50.00	-35.85	CISPR Avg

Table 23

Results for Configuration and Mode: AC Powered – 6 GHz WLAN.

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

Detailed results are shown below.

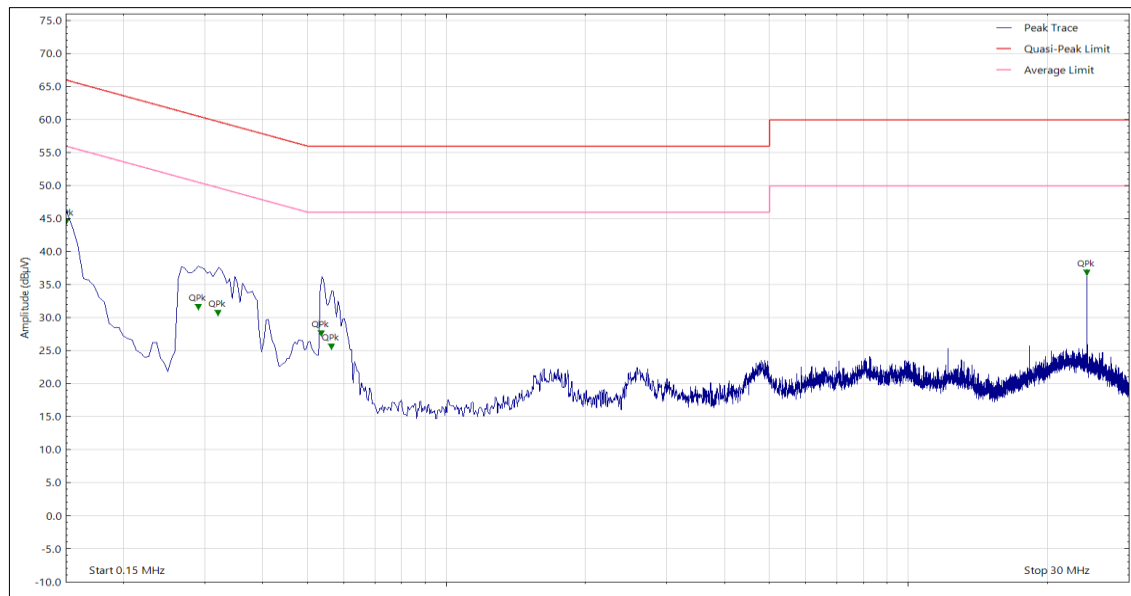


Figure 8 - Live Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	43.75	66.00	-22.25	Q-Peak
0.150	33.97	56.00	-22.03	CISPR Avg
0.291	30.89	60.50	-29.61	Q-Peak
0.291	17.03	50.50	-33.47	CISPR Avg
0.321	30.02	59.70	-29.68	Q-Peak
0.321	15.27	49.70	-34.43	CISPR Avg
0.537	26.94	56.00	-29.06	Q-Peak
0.537	15.75	46.00	-30.25	CISPR Avg
0.564	24.95	56.00	-31.05	Q-Peak
0.564	14.75	46.00	-31.25	CISPR Avg
24.346	36.08	60.00	-23.92	Q-Peak
24.346	35.63	50.00	-14.37	CISPR Avg

Table 24

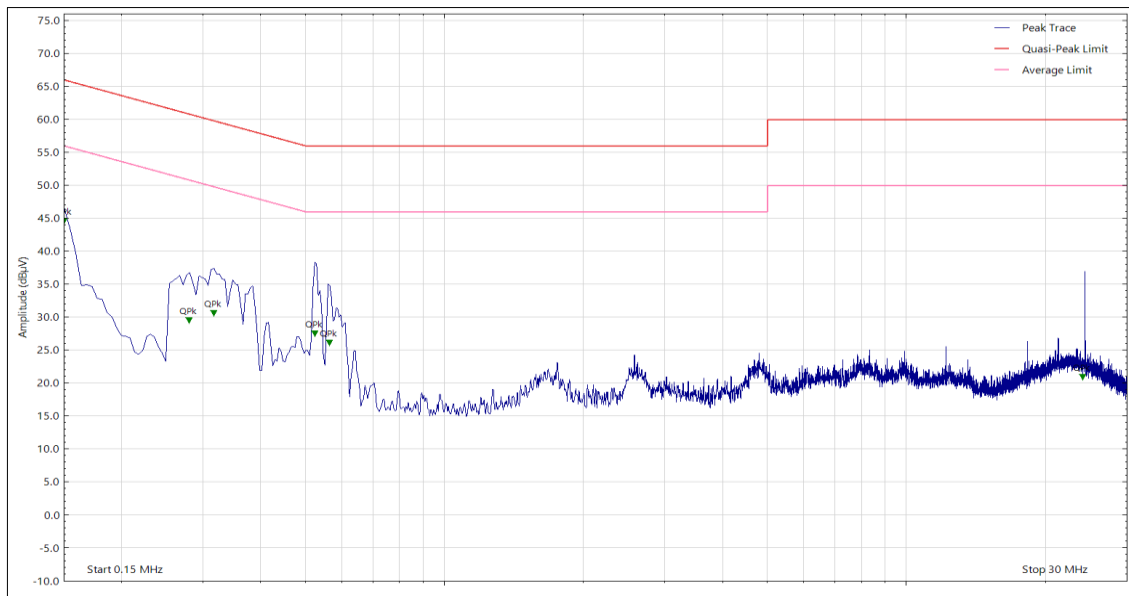


Figure 9 - Neutral Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	43.92	66.00	-22.08	Q-Peak
0.150	32.85	56.00	-23.15	CISPR Avg
0.280	28.79	60.80	-32.01	Q-Peak
0.280	14.99	50.80	-35.81	CISPR Avg
0.317	29.93	59.80	-29.87	Q-Peak
0.317	15.07	49.80	-34.73	CISPR Avg
0.524	26.80	56.00	-29.20	Q-Peak
0.524	16.07	46.00	-29.93	CISPR Avg
0.564	25.45	56.00	-30.55	Q-Peak
0.564	14.58	46.00	-31.42	CISPR Avg
24.055	20.22	60.00	-39.78	Q-Peak
24.055	14.20	50.00	-35.80	CISPR Avg

Table 25

Results for Configuration and Mode: AC Powered - Narrowband.

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

Detailed results are shown below.

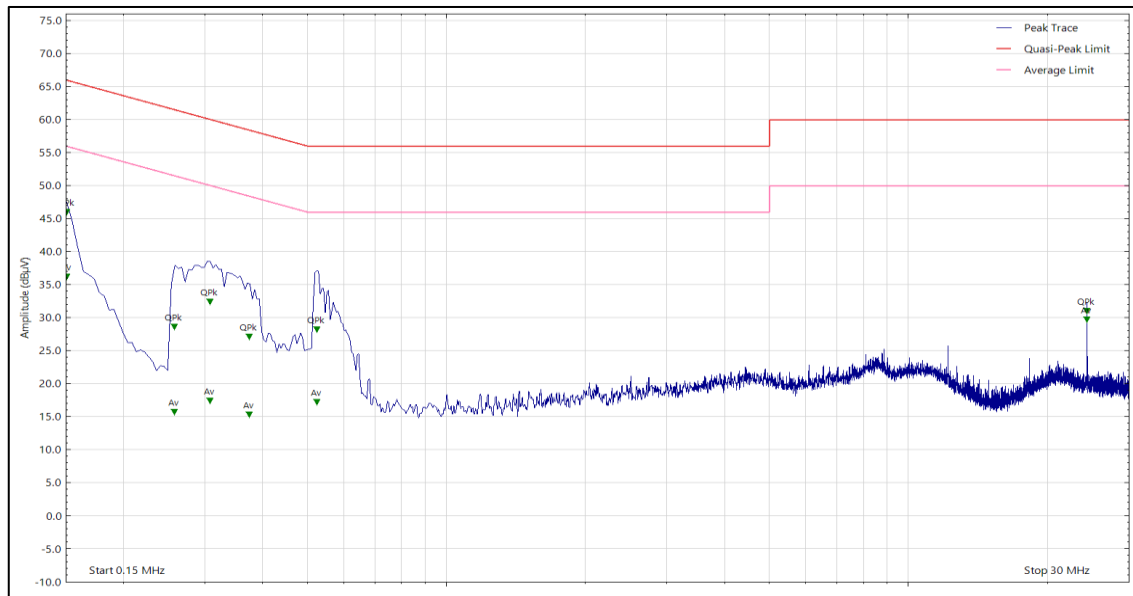


Figure 10 - Live Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.151	45.33	65.90	-20.57	Q-Peak
0.151	35.51	55.90	-20.39	CISPR Avg
0.258	27.91	61.50	-33.59	Q-Peak
0.258	14.98	51.50	-36.52	CISPR Avg
0.308	31.66	60.00	-28.34	Q-Peak
0.308	16.74	50.00	-33.26	CISPR Avg
0.375	26.43	58.40	-31.97	Q-Peak
0.375	14.65	48.40	-33.75	CISPR Avg
0.524	27.50	56.00	-28.50	Q-Peak
0.524	16.51	46.00	-29.49	CISPR Avg
24.347	30.35	60.00	-29.65	Q-Peak
24.347	29.02	50.00	-20.98	CISPR Avg

Table 26

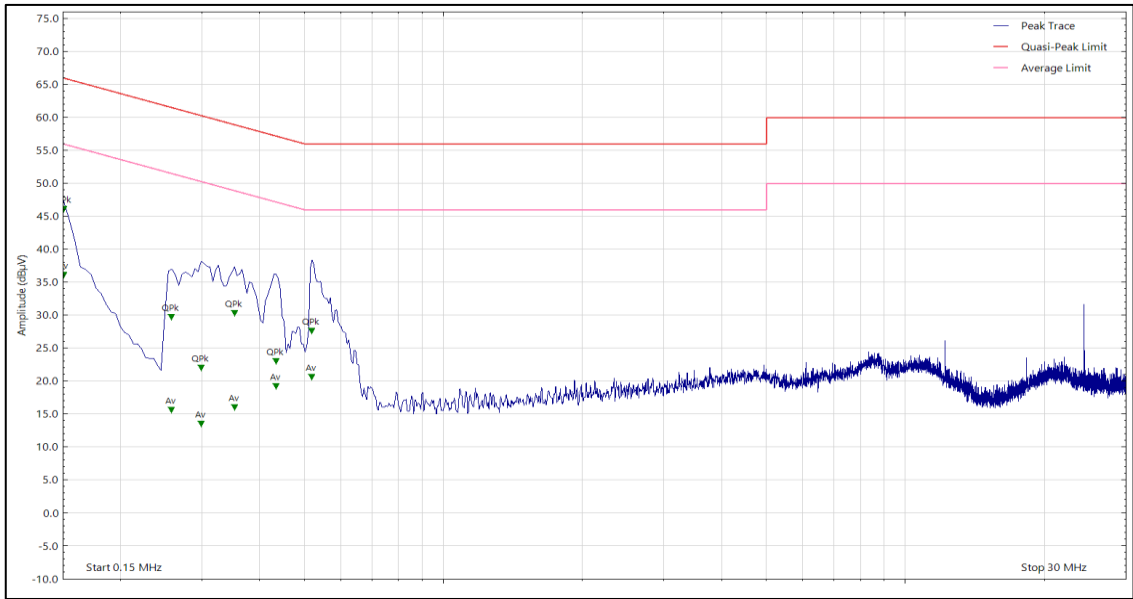


Figure 11 - Neutral Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.151	45.40	65.90	-20.50	Q-Peak
0.151	35.38	55.90	-20.52	CISPR Avg
0.258	28.96	61.50	-32.54	Q-Peak
0.258	14.94	51.50	-36.56	CISPR Avg
0.299	21.32	60.30	-38.98	Q-Peak
0.299	12.83	50.30	-37.47	CISPR Avg
0.353	29.65	58.90	-29.25	Q-Peak
0.353	15.37	48.90	-33.53	CISPR Avg
0.434	22.32	57.20	-34.88	Q-Peak
0.434	18.47	47.20	-28.73	CISPR Avg
0.519	26.93	56.00	-29.07	Q-Peak
0.519	19.88	46.00	-26.12	CISPR Avg

Table 27



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 28



3 Test Equipment Information

3.1 General Test Equipment Used

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
EMI Test Receiver - 20 Hz to 8 GHz	Rohde & Schwarz	ESU8	7260	12	30-Apr-2027
Milliohm Meter	VICI	2682132	7012	12	27-May-2027
Multimeter	Fluke	75 Mk3	455	12	12-Jan-2027
Antenna (DRG, 1 GHz to 18 GHz)	EMCO	3115	235	-	TU
Antenna (DRG)	EMCO	3115	794	12	06-Sep-2026
Cable (7/16 to 7/16, 5 m)	Amp Research	CC41313050	6067	-	TU
5m SMA Cable	Junkosha	MWX221-05000AMSAMS/B	7009	12	14-Apr-2027

Table 29

3.2 Customer Support Equipment

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
CMW500	Rohde & Schwarz	CMW500	-	-	-

Table 30



4 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
AC Power Line Conducted Emissions	150 kHz to 30 MHz, LISN ± 3.3 dB

Table 31

Measurement Uncertainty Decision Rule – Accuracy Method

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.