FCC and ISED Test Report

Apple Inc

Model: A2873

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

Prepared for: Apple Inc

One Apple Park Way

Cupertino California 95014 USA

FCC ID: BCGA2873 IC: 579C-A2873



COMMERCIAL-IN-CONFIDENCE

Document 75957630-07 Issue 01

| SIGNATURE | | | |
|---------------|----------------|----------------------|---------------|
| A3 Causen. | | | |
| NAME | JOB TITLE | RESPONSIBLE FOR | ISSUE DATE |
| Andrew Lawson | Chief Engineer | Authorised Signatory | 30 March 2023 |

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 | James Cumming | 30 March 2023 | Janes D |

FCC Accreditation ISED Accreditation

90987 Octagon House, Fareham Test Laboratory 12669A 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: 2021, 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 | 30-March-2023 |

Table 1

1.2 Introduction

Applicant Apple Inc
Manufacturer Apple Inc
Model Number(s) A2873

Serial Number(s) WR39R2H474 and N32Y4Q42KC

Hardware Version(s) REV1.0

Software Version(s) 22E217 and 22E202

Number of Samples Tested 2

Test Specification/Issue/Date FCC 47 CFR Part 15B, ICES-003 and ISED RSS-GEN:

2021, Issue 7: 2020 and Issue 5 and A2 (2021-02)

Start of Test 23-February-2023 Finish of Test 24-February-2023

Name of Engineer(s) James Cumming and Connor Lee

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 | |
|--|--|------------------|--------|------------------------|--|
| Configuratio | Configuration and Mode: AC Powered - Transmitters Idle | | | | |
| 2.1 15.107, 3.1 and 8.8 Conducted Disturbance at Mains Terminals Pass ANSI C63.4: 2014 | | | | ANSI C63.4: 2014 | |
| 2.2 | 2.2 15.109, 3.2 and 7.1 Radiated Disturbance | | Pass | ANSI C63.4: 2014 | |

Table 2

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1.4 Product Information

1.4.1 Technical Description

The equipment under test (EUT) was an Apple desktop computer with Bluetooth® Low Energy, Thread and IEEE 802.11 a/b/g/n/ac/ax Wi-Fi capabilities in the 2.4 GHz, 5 GHz and 6 GHz bands.

1.4.2 EUT Port/Cable Identification

| Port | Max Cable Length specified | Usage | Туре | Screened |
|------------------------|----------------------------|-------------|---|----------|
| Configuration and Mode | e: AC Powered - Transm | itters Idle | | |
| AC Power Port | 2 m | Power | AC to DC Power Adapter with USB-C output. | Yes |
| USB-C Port 1 | 2 m | Data | USB-C | Yes |
| USB-C Port 2 | 2 m | Data | USB-C | Yes |
| USB-C Port 3 | 2 m | Data | USB-C | Yes |
| Headphone Port | 2 m | Audio | Headphone Jack | No |

Table 3

1.4.3 Test Configuration

| Configuration | Description |
|---------------|---|
| | The EUT was powered from a 120 V 60 Hz AC mains supply through an AC to DC adapter with a USB-C output connected to USB-C Port 1. |
| | The EUT had the following connections made: |
| AC Powered | A set of headphones was used to terminate the EUT's 3.5 mm audio jack port. |
| | A USB to USB-C adapter and a mouse was used to terminate USB-C Port 2. |
| | A keyboard was used to terminate the EUT's USB-C Port 3. |

Table 4

1.4.4 Modes of Operation

| Mode | Description |
|-------------------|--|
| Transmitters Idle | The EUT was powered and operational with the EUT's intentional transmitters turned off. The EUT was configured to display video on its screen whilst playing audio through the headphones. The display was set to maximum brightness and sleep mode was disabled. |

Table 5

1.5 Deviations from the Standard

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



1.6 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: A2873, Serial Number: N32Y4Q42KC | | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable | |
| Model: A2873, Serial Number: WR39R2H474 | | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable | |

Table 6

1.7 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 - Transmitters Idle | | | | |
| Conducted Disturbance at Mains Terminals | James Cumming | UKAS | | |
| Radiated Disturbance | James Cumming | UKAS | | |

Table 7

Office Address:

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



2 Test Details

2.1 Conducted Disturbance at Mains Terminals

2.1.1 Specification Reference

FCC 47 CFR Part 15B, ICES-003 and ISED RSS-GEN, Clause 15.107, 3.1 and 8.8

2.1.2 Equipment Under Test and Modification State

A2873, S/N: N32Y4Q42KC - Modification State 0

2.1.3 Date of Test

23-February-2023

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.

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 ($dB\mu V$) = Receiver level ($dB\mu V$) + Correction Factor (dB) Margin (dB) = CISPR Average level ($dB\mu V$) - Limit ($dB\mu V$)



2.1.6 Example Test Setup Diagram

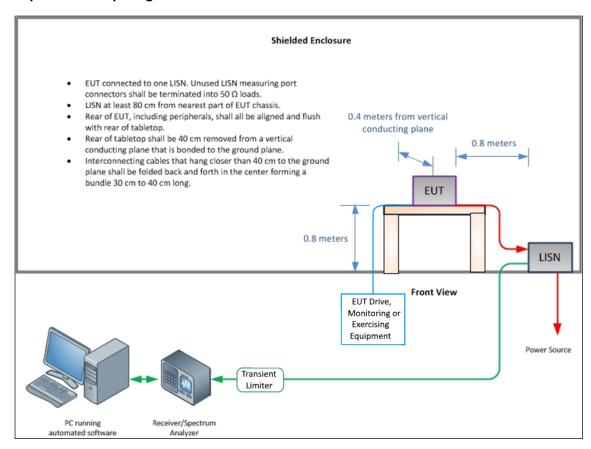


Figure 1 - Conducted Disturbance

2.1.7 Environmental Conditions

Ambient Temperature 19.1 °C
Relative Humidity 53.5 %
Atmospheric Pressure 996.0 mbar

2.1.8 Specification Limits

| Required Specification Limits - Class B | | | | | |
|--|-------------|-------------------------|-------------------------|--|--|
| Line Under Test Frequency Range Quasi-Peak Test Limit (dBµV) CISPR Average Test Lir (dBµV) | | | | | |
| | 0.15 to 0.5 | 66 to 56 ⁽¹⁾ | 56 to 46 ⁽¹⁾ | | |
| AC Power Port | 0.5 to 5 | 56 | 46 | | |
| | 5 to 30 | 60 | 50 | | |

Table 8



2.1.9 Test Results

Results for Configuration and Mode: AC Powered - Transmitters 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.

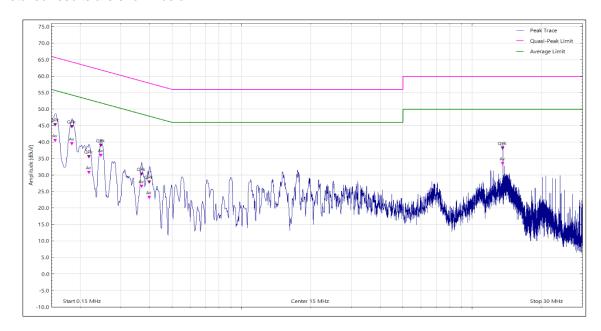


Figure 2 - Graphical Results - AC Power Port Live Line

| Frequency (MHz) | Level (dBµV) | Limit (dBµV) | Margin (dB) | Detector |
|-----------------|--------------|--------------|-------------|-----------|
| 0.156 | 44.58 | 65.70 | -21.12 | Q-Peak |
| 0.156 | 39.84 | 55.70 | -15.86 | CISPR Avg |
| 0.184 | 43.94 | 64.30 | -20.36 | Q-Peak |
| 0.184 | 38.83 | 54.30 | -15.47 | CISPR Avg |
| 0.218 | 34.94 | 62.90 | -27.96 | Q-Peak |
| 0.218 | 30.10 | 52.90 | -22.80 | CISPR Avg |
| 0.246 | 38.25 | 61.90 | -23.65 | Q-Peak |
| 0.246 | 35.29 | 51.90 | -16.61 | CISPR Avg |
| 0.369 | 29.56 | 58.50 | -28.94 | Q-Peak |
| 0.369 | 25.90 | 48.50 | -22.60 | CISPR Avg |
| 0.399 | 27.21 | 57.90 | -30.69 | Q-Peak |
| 0.399 | 22.49 | 47.90 | -25.41 | CISPR Avg |
| 13.558 | 37.50 | 60.00 | -22.50 | Q-Peak |
| 13.558 | 32.77 | 50.00 | -17.23 | CISPR Avg |

Table 9



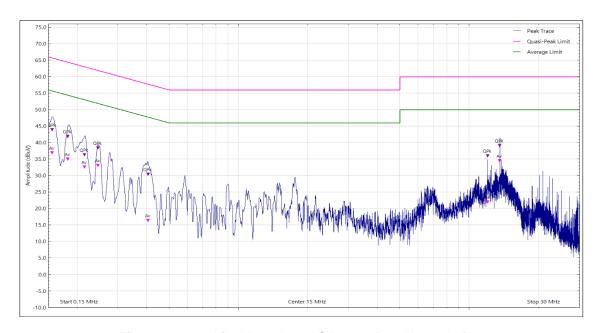


Figure 3 - Graphical Results - AC Power Port Neutral Line

| Frequency (MHz) | Level (dBµV) | Limit (dBµV) | Margin (dB) | Detector |
|-----------------|--------------|--------------|-------------|-----------|
| 0.156 | 43.16 | 65.70 | -22.54 | Q-Peak |
| 0.156 | 36.24 | 55.70 | -19.46 | CISPR Avg |
| 0.182 | 41.23 | 64.40 | -23.17 | Q-Peak |
| 0.182 | 34.30 | 54.40 | -20.10 | CISPR Avg |
| 0.215 | 35.64 | 63.00 | -27.36 | Q-Peak |
| 0.215 | 31.91 | 53.00 | -21.09 | CISPR Avg |
| 0.246 | 37.74 | 61.90 | -24.16 | Q-Peak |
| 0.246 | 32.36 | 51.90 | -19.54 | CISPR Avg |
| 0.405 | 29.71 | 57.80 | -28.09 | Q-Peak |
| 0.405 | 15.75 | 47.80 | -32.05 | CISPR Avg |
| 12.001 | 35.27 | 60.00 | -24.73 | Q-Peak |
| 12.001 | 21.35 | 50.00 | -28.65 | CISPR Avg |
| 13.558 | 38.37 | 60.00 | -21.63 | Q-Peak |
| 13.558 | 33.79 | 50.00 | -16.21 | CISPR Avg |

Table 10



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 |
|-------------------------------|-----------------|---------------|-------|-----------------------------------|------------------------|
| Screened Room (12) | MVG | EMC-3 | 5621 | 36 | 11-Aug-2023 |
| Emissions Software | TUV SUD | EmX V3.1.10 | 5125 | - | Software |
| Test Receiver | Rohde & Schwarz | ESW44 | 5382 | 12 | 01-Jun-2023 |
| Test Receiver | Rohde & Schwarz | ESU40 | 3506 | 12 | 25-Mar-2023 |
| Transient Limiter | Hewlett Packard | 11947A | 2378 | 12 | 25-Oct-2023 |
| Cable (N-Type to N-Type, 8 m) | Teledyne | PR90-088-8MTR | 5450 | 6 | 23-Apr-2023 |
| Cable (SMA to N-Type, 2 m) | Junkosha | MWX241/B | 5817 | 6 | 04-Aug-2023 |
| LISN (CISPR 16, Single Phase) | Chase | MN 2050 | 336 | 12 | 04-Jul-2023 |
| LISN (CISPR 16, Single Phase) | Rohde & Schwarz | ESH3-Z5 | 1390 | 12 | 02-Feb-2024 |

Table 11



2.2 Radiated Disturbance

2.2.1 Specification Reference

FCC 47 CFR Part 15B, ICES-003 and ISED RSS-GEN, Clause 15.109, 3.2 and 7.1

2.2.2 Equipment Under Test and Modification State

A2873, S/N: WR39R2H474 - Modification State 0

2.2.3 Date of Test

24-February-2023

2.2.4 Test Method

The EUT was set up on a non-conductive table 0.8 m above a reference ground plane within a semianechoic chamber on a remotely controlled turntable.

A pre-scan of the EUT emissions profile using a peak detector was made at a 3 m antenna distance whilst varying the antenna-to-EUT azimuth and polarisation.

For an EUT which could reasonable be used in multiple planes, pre-scans were performed with the EUT orientated in X, Y and Z planes with reference to the ground plane.

Using a list of the highest emissions detected during the pre-scan along with their bearing and associated antenna polarisation, the EUT was then formally measured using a Quasi-Peak, Peak or CISPR Average detector as appropriate.

The readings were maximised by adjusting the antenna height, polarisation and turntable azimuth, in accordance with the specification.

2.2.5 Example Calculation

Below 1 GHz:

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

Above 1 GHz:

CISPR Average level $(dB\mu V/m) = Receiver level (dB\mu V) + Correction Factor (dB/m) Margin (dB) = CISPR Average level <math>(dB\mu V/m) - Limit (dB\mu V/m)$

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

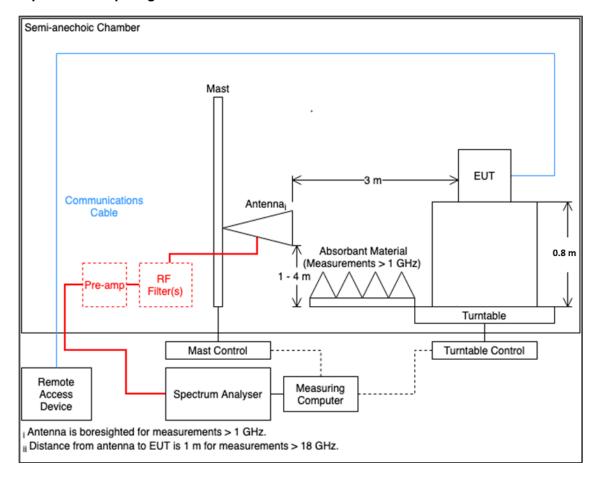


Figure 4 - Radiated Disturbance Example Test Setup

2.2.7 Environmental Conditions

Ambient Temperature 23.9 °C
Relative Humidity 30.3 %
Atmospheric Pressure 1005.0 mbar



2.2.8 **Specification Limits**

| Required Specification Lim | 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 - Transmitters 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: 6 GHz

Which necessitates an upper frequency test limit of: 30 GHz (Tested to 36 GHz)

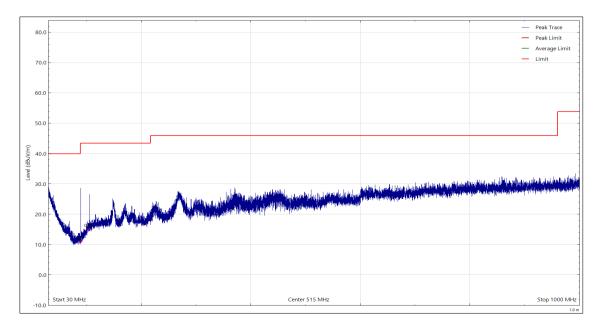


Figure 5 - 30 MHz to 1 GHz, Horizontal

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|--------------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| 88.799 | 10.01 | 43.50 | -33.49 | Q-Peak | 327 | 188 | Horizontal |
| 104.187 | 14.03 | 43.50 | -29.47 | Q-Peak | 338 | 200 | Horizontal |

Table 13

No other final measurements were made as all other peak emissions seen above the measurement system noise floor during the pre-scan were greater than 10 dB below the test limit.



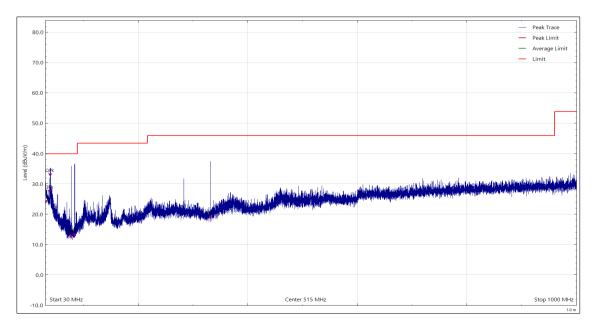


Figure 6 - 30 MHz to 1 GHz, Vertical

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|--------------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| 31.096 | 23.41 | 40.00 | -16.59 | Q-Peak | 211 | 100 | Vertical |
| 37.485 | 26.77 | 40.00 | -13.23 | Q-Peak | 255 | 109 | Vertical |
| 38.982 | 32.17 | 40.00 | -7.83 | Q-Peak | 0 | 101 | Vertical |
| 76.883 | 11.99 | 40.00 | -28.01 | Q-Peak | 282 | 100 | Vertical |
| 83.410 | 12.45 | 40.00 | -27.55 | Q-Peak | 222 | 100 | Vertical |
| 331.358 | 18.18 | 46.00 | -27.82 | Q-Peak | 224 | 143 | Vertical |

Table 14



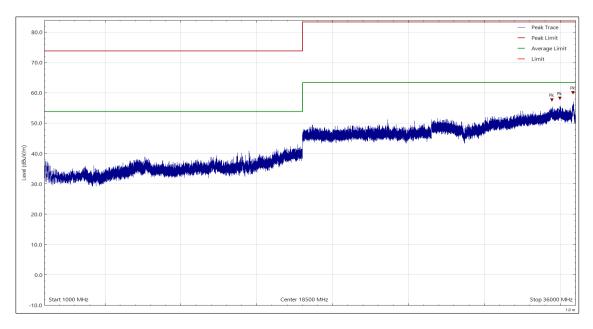


Figure 7 - 1 GHz to 36 GHz, Horizontal

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|--------------------|-------------------|-------------------|-------------|-----------|-----------|-------------|--------------|
| 34465.922 | 57.03 | 83.50 | -26.47 | Peak | 350 | 100 | Horizontal |
| 34465.922 | 44.03 | 63.50 | -19.47 | CISPR Avg | 350 | 100 | Horizontal |
| 34974.493 | 57.50 | 83.50 | -26.00 | Peak | 12 | 100 | Horizontal |
| 34974.493 | 44.35 | 63.50 | -19.15 | CISPR Avg | 12 | 100 | Horizontal |
| 35850.496 | 59.42 | 83.50 | -24.08 | Peak | 352 | 100 | Horizontal |
| 35850.496 | 45.90 | 63.50 | -17.60 | CISPR Avg | 352 | 100 | Horizontal |

Table 15

No other final measurements were made as all other peak emissions seen above the measurement system noise floor during the pre-scan were greater than 10 dB below the test limit.



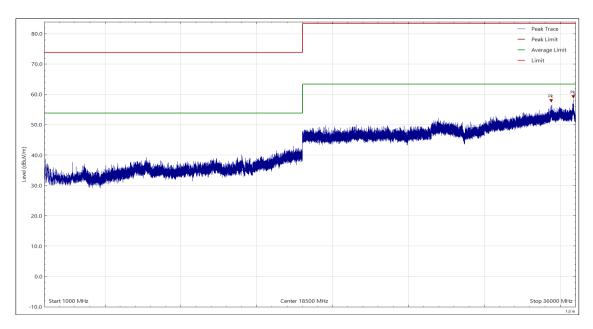


Figure 8 - 1 GHz to 36 GHz, Vertical

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|--------------------|-------------------|-------------------|-------------|-----------|-----------|-------------|--------------|
| 34415.171 | 44.09 | 63.50 | -19.41 | CISPR Avg | 351 | 100 | Vertical |
| 34415.171 | 57.23 | 83.50 | -26.27 | Peak | 351 | 100 | Vertical |
| 35859.998 | 58.49 | 83.50 | -25.01 | Peak | 316 | 100 | Vertical |
| 35859.998 | 45.82 | 63.50 | -17.68 | CISPR Avg | 316 | 100 | Vertical |

Table 16

No other final measurements were made as all other peak emissions seen above the measurement system noise floor during the pre-scan were greater than 10 dB below the test limit.



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 |
|--|-------------------|-----------------|-------|-----------------------------------|------------------------|
| Screened Room (12) | MVG | EMC-3 | 5621 | 36 | 11-Aug-2023 |
| Emissions Software | TUV SUD | EmX V3.1.10 | 5125 | - | Software |
| Test Receiver | Rohde & Schwarz | ESU40 | 3506 | 12 | 25-Mar-2023 |
| Turntable & Mast Controller | Maturo Gmbh | NCD/498/2799.01 | 5612 | - | TU |
| Tilt Antenna Mast | Maturo Gmbh | TAM 4.0-P | 5613 | - | TU |
| Cable (N-Type to N-Type, 8 m) | Teledyne | PR90-088-8MTR | 5450 | 6 | 23-Apr-2023 |
| Cable (K-Type to K-Type, 2 m) | Junkosha | MWX241/B | 5909 | 12 | 14-Apr-2023 |
| Cable (N-Type to N-Type, 2 m) | Teledyne | PR90-088-2MTR | 5196 | 12 | 11-Aug-2023 |
| Pre-Amplifier (1 GHz to 18 GHz) | Schwarzbeck | BBV 9718 C | 5350 | 12 | 20-Oct-2023 |
| Pre-Amplifier (8 GHz to 18 GHz) | Phase One | PS04-0086 | 1533 | 12 | 21-Feb-2023 |
| Pre-Amplifier (18 GHz to 40 GHz) | Phase One | PSO4-0087 | 1534 | 12 | 23-Sep-2023 |
| Antenna with attenuator (Bilog, 30 MHz to 3 GHz) | Schaffner | CBL6143 | 287 | 24 | 02-Dec-2024 |
| Antenna (DRG, 1 GHz to 10.5 GHz) | Schwarzbeck | BBHA9120B | 5611 | 12 | 16-Oct-2023 |
| Antenna (DRG, 7.5 GHz to 18 GHz) | Schwarzbeck | HWRD750 | 5348 | 12 | 16-Oct-2023 |
| Antenna (DRG, 18 GHz to 40 GHz) | Link Microtek Ltd | AM180HA-K-TU2 | 230 | 24 | 23-Sep-2024 |

Table 17

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 | 5471 | 12 | 06-Apr-2023 |

Table 18



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 Disturbance at Mains Terminals | 150 kHz to 30 MHz, LISN, ±3.7 dB |
| Radiated Disturbance | 30 MHz to 1 GHz, Bilog Antenna, ±5.2 dB 1 GHz to 40 GHz, Horn Antenna, ±6.3 dB |

Table 19

Worst case error for both Time and Frequency measurement 12 parts in 10⁶.

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.