

# FCC and ISED Test Report

Apple Inc  
Model: A2843

In accordance with FCC 47 CFR Part 15C, ISED  
RSS-247 and ISED RSS-GEN  
(2.4 GHz Bluetooth, 2.4 GHz WLAN and 5 GHz  
WLAN)

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

FCC ID: BCGA2843

IC: 579C-A2843

**COMMERCIAL-IN-CONFIDENCE**

Document 75954422-31 Issue 01



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## SIGNATURE

| NAME            | JOB TITLE            | RESPONSIBLE FOR      | ISSUE DATE        |
|-----------------|----------------------|----------------------|-------------------|
| Matthew Russell | Senior Engineer (RF) | Authorised Signatory | 23 September 2022 |

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, 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 |
|-------------------|-----------------|-------------------|-----------|
| Report Generation | Hollie Marshall | 23 September 2022 |           |

FCC Accreditation

90987 Octagon House, Fareham Test Laboratory

ISED Accreditation

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 15C: 2020, ISED RSS-247: Issue 2 (02-2017) and ISED RSS-GEN: and Issue 5 (04-2018) + A2 (02-2021) 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           | 23 September 2022 |

**Table 1**

## 1.2 Introduction

|                               |                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| Applicant                     | Apple Inc                                                                                                     |
| Manufacturer                  | Apple Inc                                                                                                     |
| Model Number(s)               | A2843                                                                                                         |
| Serial Number(s)              | YWL2C4T4WY                                                                                                    |
| Hardware Version(s)           | REV 1.0                                                                                                       |
| Software Version(s)           | 20J42560n                                                                                                     |
| Number of Samples Tested      | 1                                                                                                             |
| Test Specification/Issue/Date | FCC 47 CFR Part 15: 2020<br>ISED RSS-247: Issue 2 (02-2017)<br>ISED RSS-GEN: Issue 5 (04-2018) + A2 (02-2021) |
| Order Number                  | 540246998                                                                                                     |
| Date of Receipt of EUT        | 01-July-2022                                                                                                  |
| Start of Test                 | 18-August-2022                                                                                                |
| Finish of Test                | 08-September-2022                                                                                             |
| Name of Engineer(s)           | Ian Hart, Faisal Malyar, Danial Shafique, Mohammad Malik,<br>Elliot Callender, Taha Shafique and Colin Brain  |
| Related Document(s)           | ANSI C63.4 2014<br>ANSI C63.10: 2013                                                                          |



### 1.3 Brief Summary of Results

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

| Section                                                   | Specification Clause            |             |         | Test Description                                        | Result | Comments/Base Standard |
|-----------------------------------------------------------|---------------------------------|-------------|---------|---------------------------------------------------------|--------|------------------------|
|                                                           | Part 15C                        | RSS-247     | RSS-GEN |                                                         |        |                        |
| Configuration and Mode: CoTx - 5 GHz WLAN and Bluetooth   |                                 |             |         |                                                         |        |                        |
| 2.1                                                       | 15.209, 15.247(d) and 15.407(b) | 5.5 and 6.2 | 8.9     | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   |                        |
| Configuration and Mode: SDB - 2.4 GHz WLAN and 5 GHz WLAN |                                 |             |         |                                                         |        |                        |
| 2.1                                                       | 15.209, 15.247(d) and 15.407(b) | 5.5 and 6.2 | 8.9     | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   |                        |

**Table 2**



## 1.4 Product Information

### 1.4.1 Technical Description

The equipment under test was an Apple TV Set Top Box with Bluetooth®, Thread and IEEE 802.11 a/b/g/n/ac/ax Wi-Fi capabilities in the 2.4GHz and 5GHz bands.

### 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: A2843, Serial Number: YWL2C4T4WY |                                                 |                        |                          |
| 0                                       | As supplied by the customer                     | Not Applicable         | Not Applicable           |

**Table 3**

### 1.7 Test Location

TÜV SÜD conducted the following tests at our Concorde Park Test Laboratory.

| Test Name                                                 | Name of Engineer(s)                                                                                       | Accreditation |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------|
| Configuration and Mode: CoTx - 5 GHz WLAN and Bluetooth   |                                                                                                           |               |
| Radiated Spurious Emissions (Simultaneous Transmission)   | Ian Hart Faisal Malyar, Danial Shafique, Mohammad Malik, Elliot Callender and Taha Shafique               | UKAS          |
| Configuration and Mode: SDB - 2.4 GHz WLAN and 5 GHz WLAN |                                                                                                           |               |
| Radiated Spurious Emissions (Simultaneous Transmission)   | Ian Hart, Faisal Malyar, Danial Shafique, Taha Shafique, Mohammad Malik, Elliot Callender and Colin Brain | UKAS          |

**Table 4**

Office Address:

TÜV SÜD  
Concorde Park  
Concorde Way  
Fareham  
Hampshire  
PO15 5FG  
United Kingdom



## 2 Test Details

### 2.1 Radiated Spurious Emissions (Simultaneous Transmission)

#### 2.1.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.209, 15.247(d) and 15.407(b)  
ISED RSS-247, Clause 5.5 and 6.2  
ISED RSS-GEN, Clause 8.9

#### 2.1.2 Equipment Under Test and Modification State

A2843, S/N: YWL2C4T4WY - Modification State 0

#### 2.1.3 Date of Test

18-August-2022 to 08-September-2022

#### 2.1.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

The EUT was placed on the non-conducting platform in a manner typical of a normal installation.

Ports on the EUT were terminated with loads as described in ANSI C63.4 clause 6.2.4 for each type of port on the EUT.

For frequencies > 1 GHz, plots for average measurements were taken in accordance with ANSI C63.10, clause 4.1.4.2.5 to characterize the EUT. Where emissions were detected, final average measurements were taken in accordance with ANSI C63.10, clause 4.1.4.2.2, 11.11, 11.12, 12.7.2 or 12.7.3 depending on the nature of the emission measured.

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dBuV/m) when compared to non-restricted band limits. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBuV/m to uV/m:  
 $10^{(\text{Field Strength in dBuV/m}/20)}$

At a measurement distance of 1 meter the limit line was increased by  $20 \cdot \log(3/1) = 9.54$  dB.

## 2.1.5 Test Setup Diagram

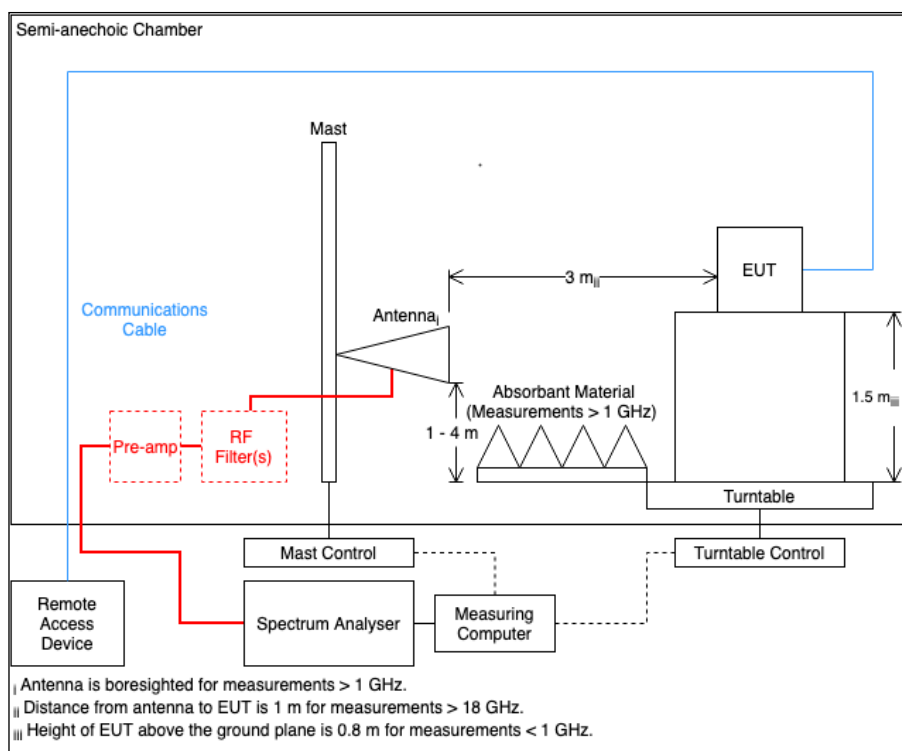


Figure 1

## 2.1.6 Environmental Conditions

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 21.3 - 23.2 °C |
| Relative Humidity   | 44.4 - 60.9 %  |



2.1.7 Test Results

CoTx - 5 GHz WLAN and Bluetooth

| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| *               |                |                |             |          |           |             |              |

Table 5 - U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1 and 2402 MHz (CH0), BDR, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

\*No emissions found within 10 dB of the limit.

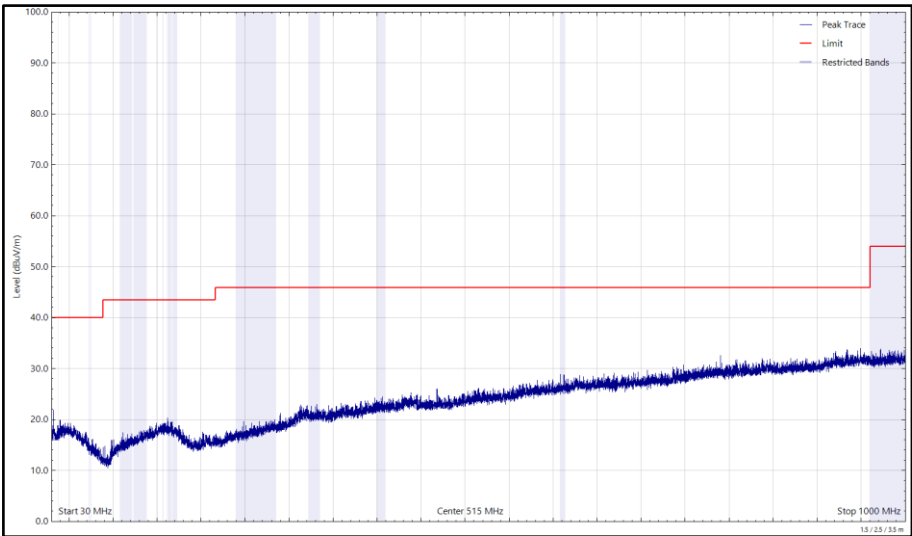


Figure 2 - U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1 and 2402 MHz (CH0), BDR, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

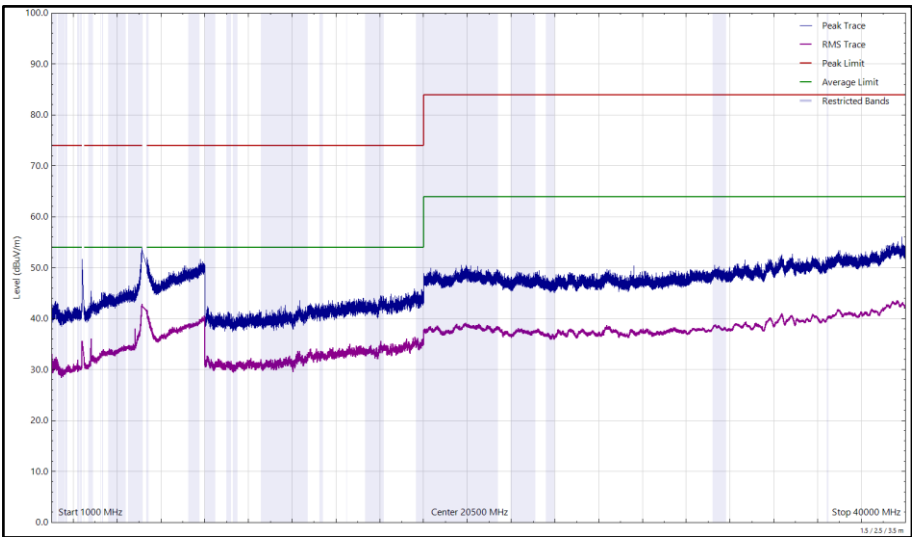
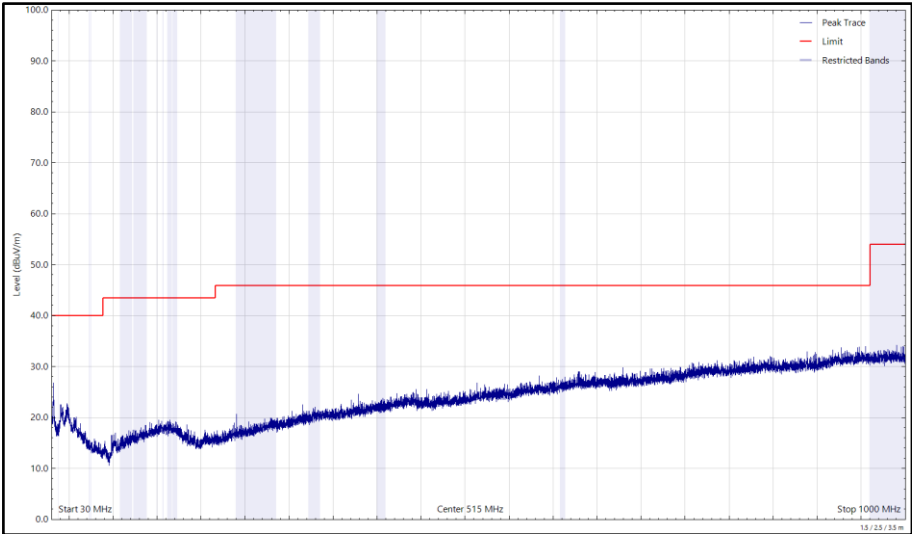
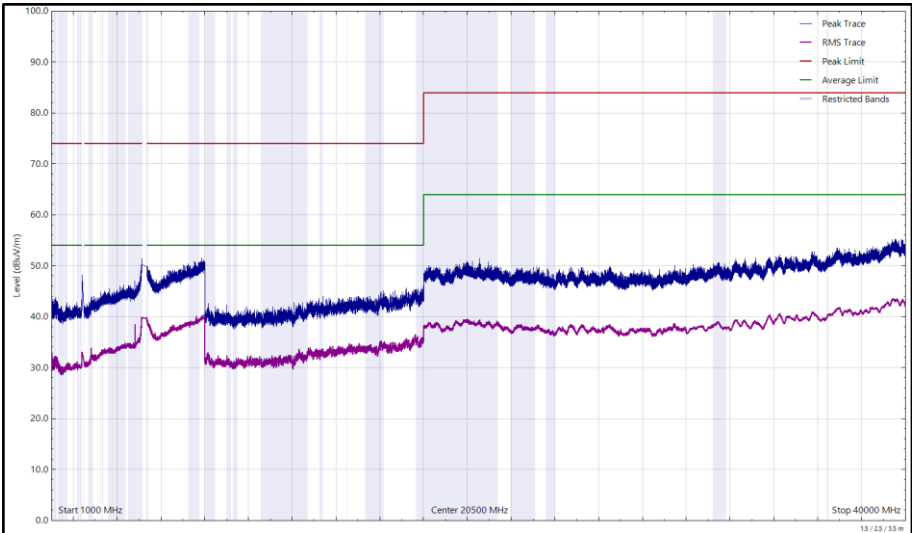


Figure 3 - U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1 and 2402 MHz (CH0), BDR, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal



**Figure 4 - U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1 and 2402 MHz (CH0), BDR, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 5 - U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1 and 2402 MHz (CH0), BDR, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**



| Frequency (MHz) | Level (dBuv/m) | Limit (dBuv/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| *               |                |                |             |          |           |             |              |

Table 6 - U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1 and 2480 MHz (CH78), BDR, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

\*No emissions found within 10 dB of the limit.

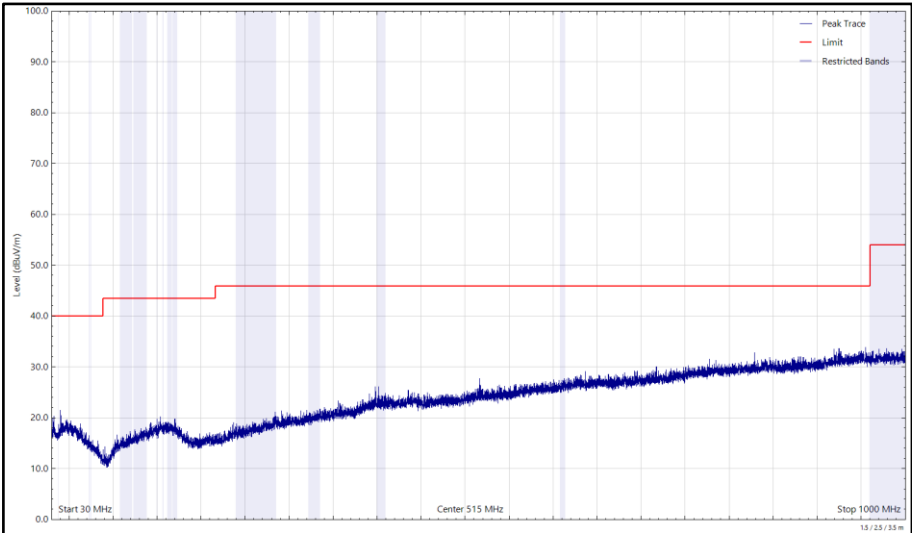


Figure 6 - U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1 and 2480 MHz (CH78), BDR, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

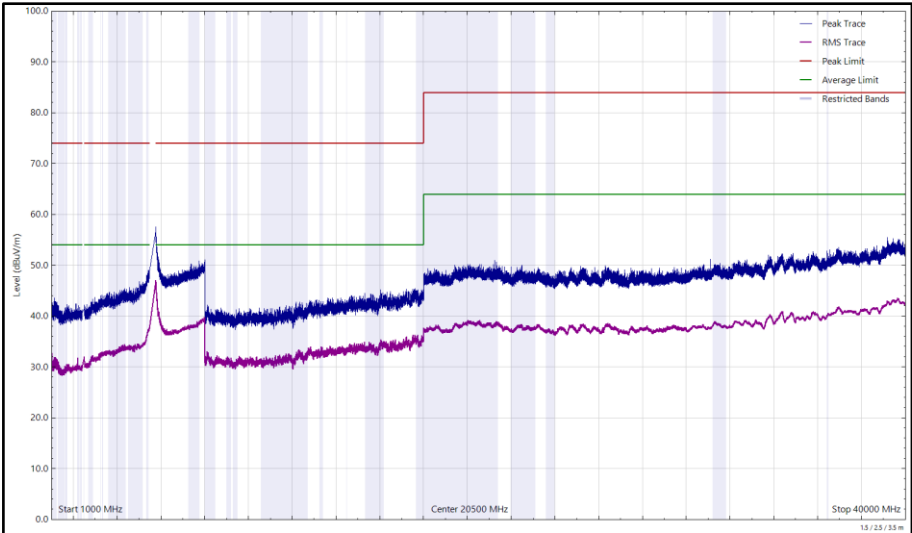
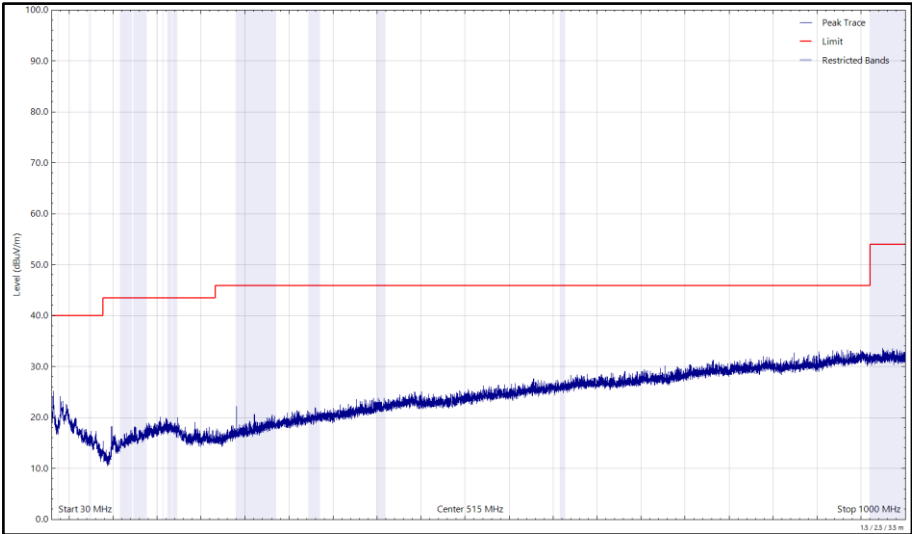
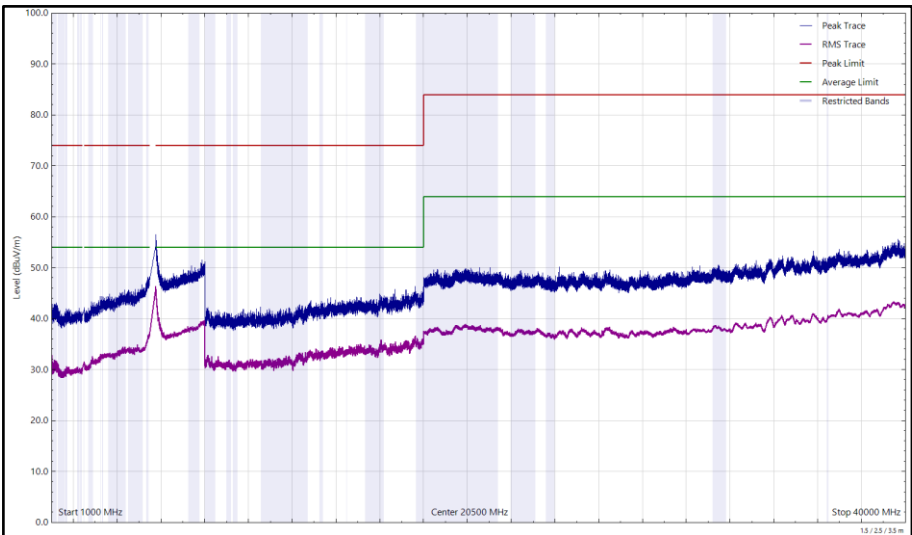


Figure 7 - U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1 and 2480 MHz (CH78), BDR, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal



**Figure 8 - U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1 and 2480 MHz (CH78), BDR, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 9 - U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1 and 2480 MHz (CH78), BDR, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**



FCC 47 CFR Part 15, ISED RSS-247 and ISED RSS-GEN

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

| Clause                                  | Limit                                                      |
|-----------------------------------------|------------------------------------------------------------|
| Part 15.247 (d) / RSS-247<br>Clause 5.5 | -20 dBc                                                    |
| Part 15.209 / RSS-GEN<br>Clause 6.13    | Peak: 74 dB $\mu$ V/m at 3m, Average 54 dB $\mu$ V/m at 3m |

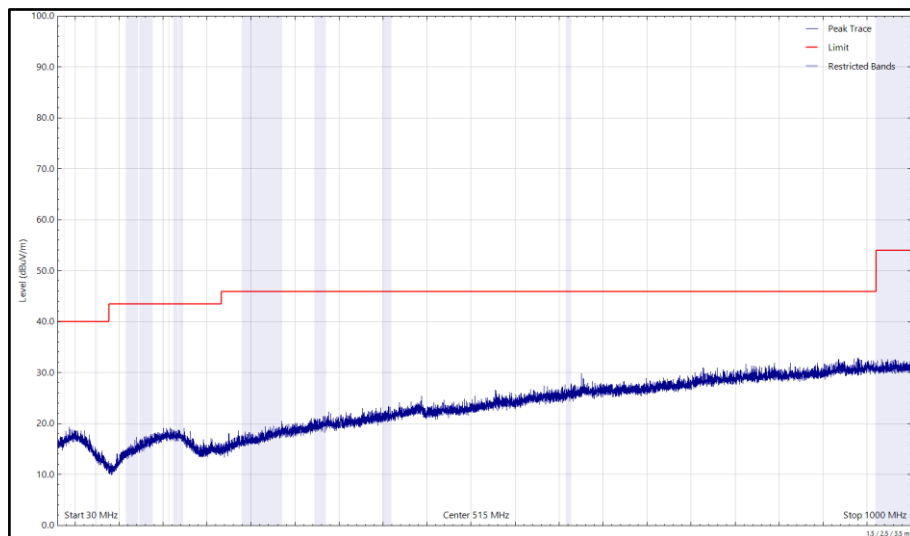
**Table 7**

# SDB - 2.4 GHz WLAN and 5 GHz WLAN

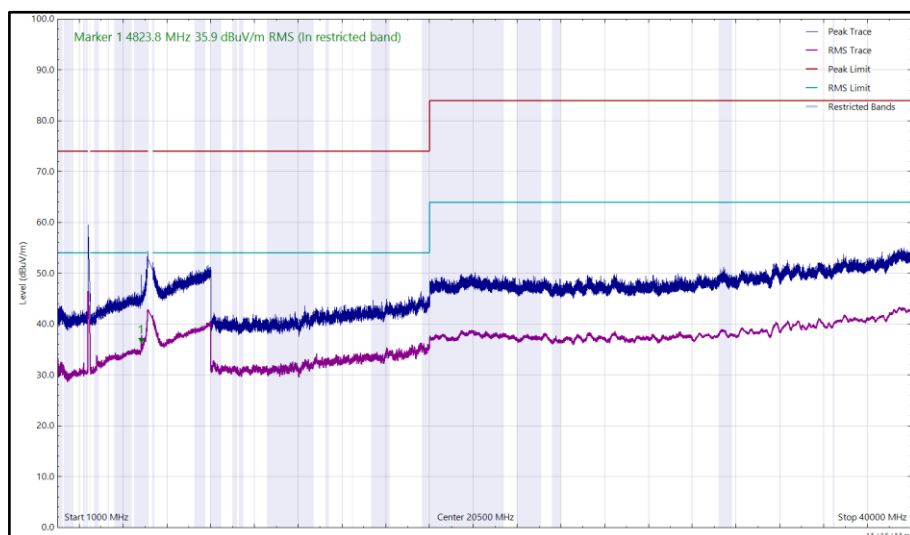
| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 4823.501        | 36.3           | 54.0           | -17.8       | RMS      | 250       | 113         | Vertical     |
| 4823.783        | 35.9           | 54.0           | -18.1       | RMS      | 310       | 240         | Horizontal   |

**Table 8 - 2412 MHz (CH1), HT20, Core 0 + Core 1 and U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 10 - 2412 MHz (CH1), HT20, Core 0 + Core 1 and U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 11 - 2412 MHz (CH1), HT20, Core 0 + Core 1 and U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

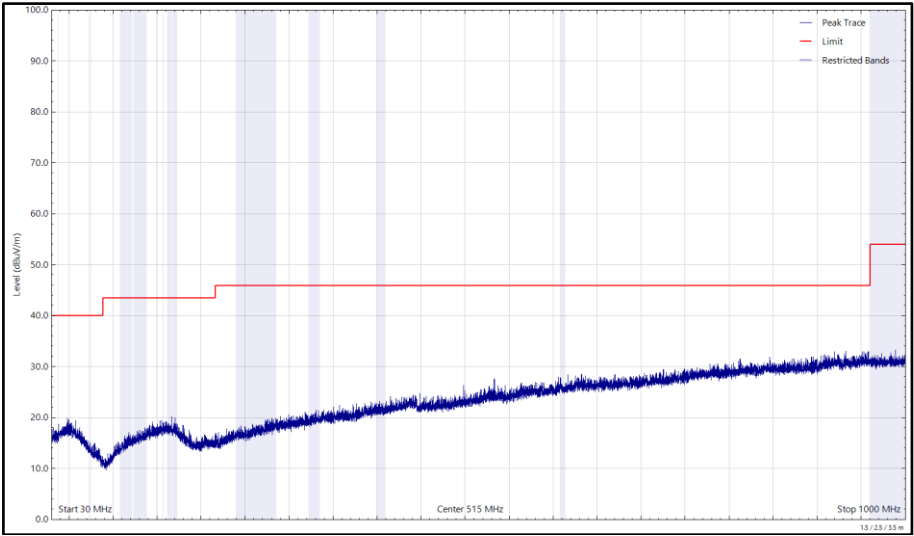


Figure 12 - 2412 MHz (CH1), HT20, Core 0 + Core 1 and U-NII-1 -5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

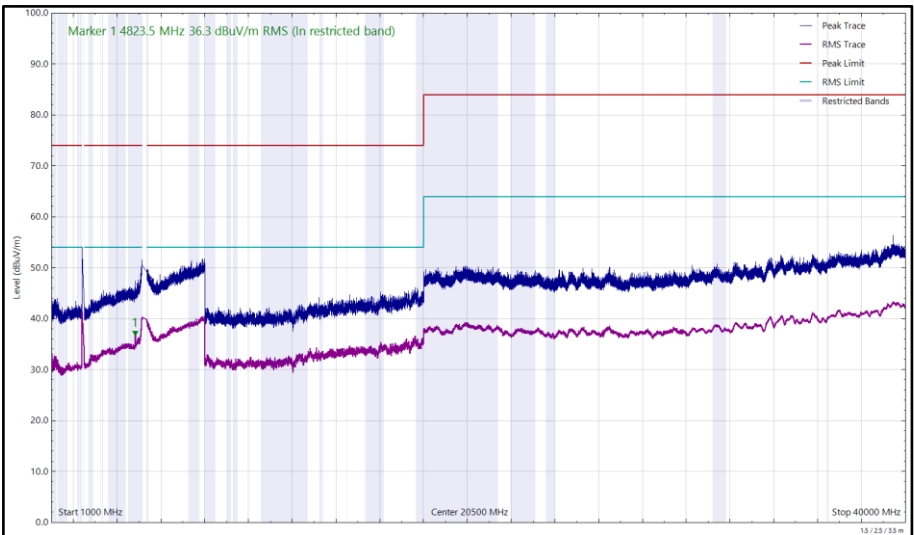


Figure 13 - 2412 MHz (CH1), HT20, Core 0 + Core 1 and U-NII-1 - 5200 MHz (CH40), VHT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| *               |                |                |             |          |           |             |              |

Table 9 - 2472 MHz (CH13), HT20, Core 0 + Core 1 and U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

\*No emissions found within 10 dB of the limit.

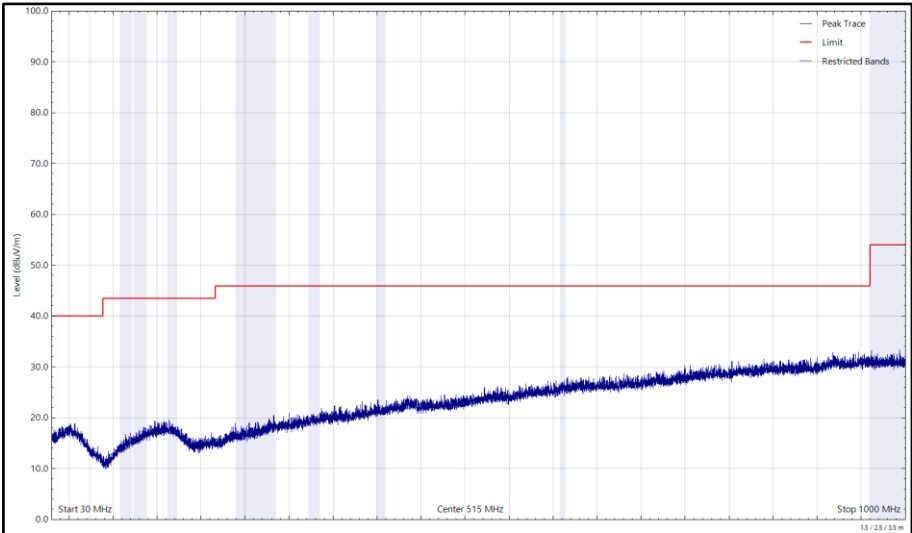


Figure 14 - 2472 MHz (CH13), HT20, Core 0 + Core 1 and U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

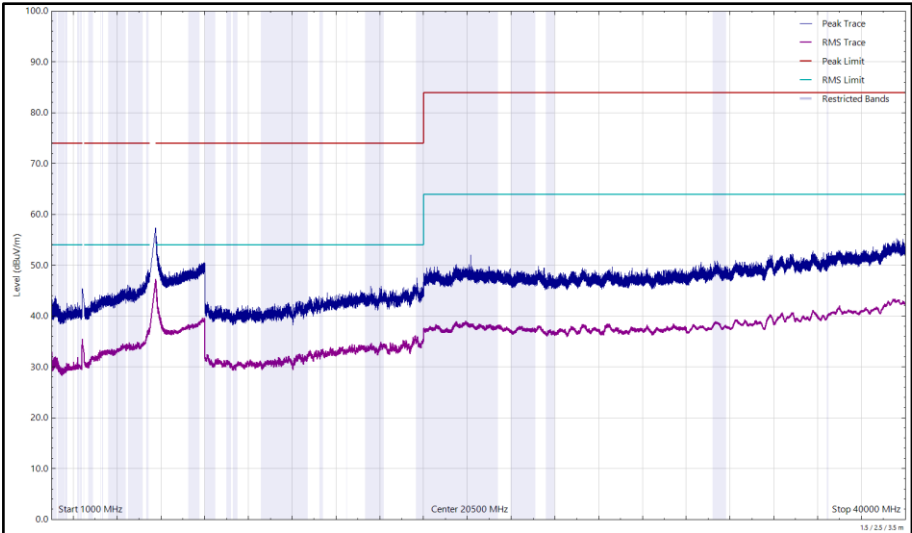


Figure 15 - 2472 MHz (CH13), HT20, Core 0 + Core 1 and U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

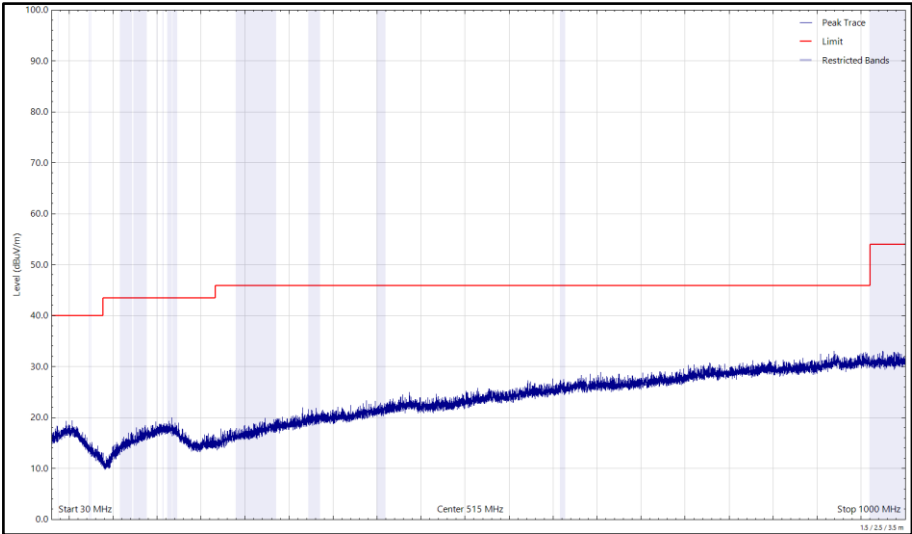


Figure 16 - 2472 MHz (CH13), HT20, Core 0 + Core 1 and U-NII-2C - 5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

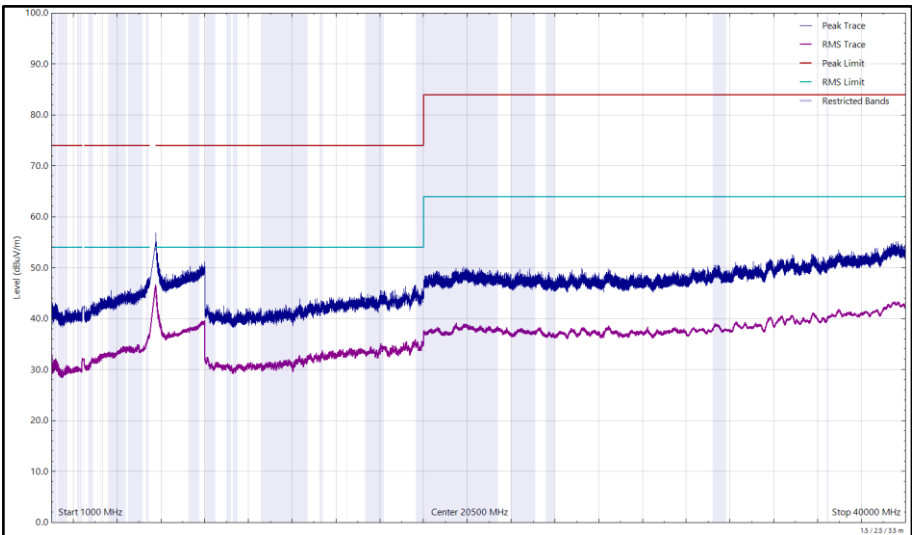


Figure 17 - 2472 MHz (CH13), HT20, Core 0 + Core 1 and U-NII-2C -5680 MHz (CH136), VHT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



FCC 47 CFR Part 15, ISED RSS-247 and ISED RSS-GEN

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

| Clause                                  | Limit                                                      |
|-----------------------------------------|------------------------------------------------------------|
| Part 15.247 (d) / RSS-247<br>Clause 5.5 | -30 dBc                                                    |
| Part 15.209 / RSS-GEN<br>Clause 6.13    | Peak: 74 dB $\mu$ V/m at 3m, Average 54 dB $\mu$ V/m at 3m |

**Table 10**



### 2.1.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15.

| Instrument                           | Manufacturer         | Type No                                  | TE No | Calibration Period (months) | Calibration Expires |
|--------------------------------------|----------------------|------------------------------------------|-------|-----------------------------|---------------------|
| Band Reject Filter - 2.425 GHz       | Wainwright           | WRCGV14-2390-2400-2450-2460-50SS         | 5067  | 12                          | 29-Sep-2022         |
| Band Reject Filter - 2.4585 GHz      | Wainwright           | WRCGV14-2423.5-2433.5-2483.5-2493.5-50SS | 5069  | 12                          | 11-Oct-2022         |
| Band Reject Filter - 5.22 GHz        | Wainwright           | WRCJV12-5120-5150-5290-5320-50SS         | 5073  | 12                          | 29-Sep-2022         |
| Band Reject Filter - 5.690 GHz       | Wainwright           | WRCJV8-5635-5670-5710-5745-50SS          | 5081  | 12                          | 29-Sep-2022         |
| Emissions Software                   | TUV SUD              | EmX V3.1.4                               | 5125  | -                           | Software            |
| Pre Amp 1 - 26.5 GHz                 | Agilent Technologies | 8449B                                    | 5445  | 12                          | 12-May-2023         |
| 3 GHz High pass Filter               | Wainwright           | WHKX12-2580-3000-18000-80SS              | 5548  | 12                          | 11-May-2023         |
| EMI Test Receiver                    | Rohde & Schwarz      | ESW44                                    | 5911  | 12                          | 24-Feb-2023         |
| Cable (K Type 2m)                    | Junkosha             | MWX241-01000KMSKMS/B                     | 5937  | 12                          | 14-May-2023         |
| DRG Horn Antenna (7.5-18GHz)         | Schwarzbeck          | HWRD750                                  | 5939  | 12                          | 29-May-2023         |
| TRILOG Super Broadband Test Antenna  | Schwarzbeck          | VULB 9168                                | 5944  | 24                          | 03-Feb-2024         |
| AC Power Source                      | iTech                | IT7324                                   | 5956  | -                           | O/P Mon             |
| 5m Semi-Anechoic Chamber (Dual-Axis) | Albatross Projects   | RF Chamber 15                            | 5963  | 36                          | 28-Apr-2025         |
| Compact Antenna Mast                 | Maturo Gmbh          | CAM4.0-P                                 | 5964  | -                           | TU                  |
| Mast & Turntable Controller          | Maturo Gmbh          | FCU3.0                                   | 5966  | -                           | TU                  |
| Tilt Antenna Mast                    | Maturo Gmbh          | BAM4.5-P                                 | 5967  | -                           | TU                  |
| Turntable                            | Maturo Gmbh          | TT1.5SI                                  | 5968  | -                           | TU                  |
| Cable (SMA 1m)                       | Junkosha             | MWX221-01000AMSAMS/A                     | 5996  | 12                          | 06-Jun-2023         |
| Cable (N to N 1m)                    | Junkosha             | MWX221-01000NMSNMS/B                     | 5999  | 12                          | 05-Jun-2023         |
| Cable (N to N 7m)                    | Junkosha             | MWX221-07000NMSNMS/B                     | 6005  | 12                          | 05-Jun-2023         |
| Cable (N to N 8m)                    | Junkosha             | MWX221-08000NMSNMS/A                     | 6006  | 12                          | 05-Jun-2023         |



| Instrument                                   | Manufacturer        | Type No                   | TE No | Calibration Period (months) | Calibration Expires |
|----------------------------------------------|---------------------|---------------------------|-------|-----------------------------|---------------------|
| Cable (SMA to SMA 1m)                        | Junkosha            | MWX221-01000AMSAMS/A      | 6007  | 12                          | 06-Jun-2023         |
| Cable (N to N 1m)                            | Junkosha            | MWX221-01000AMSAMS/B      | 6009  | 12                          | 07-Jun-2023         |
| Cable (SMA to SMA 6.5m)                      | Junkosha            | MWX221-06500AMSAMS/B      | 6014  | 12                          | 07-Jun-2023         |
| Horn Antenna (1-10 GHz)                      | Schwarzbeck         | BBHA9120B                 | 6140  | 12                          | 21-Jun-2023         |
| Digital Multimeter                           | Fluke               | 115                       | 6147  | 12                          | 16-Jun-2023         |
| Humidity & Temperature meter                 | R.S Components      | 1364                      | 6150  | 12                          | 17-Jun-2023         |
| Double Ridge Active Horn Antenna (18-40 GHz) | Com-Power           | AHA-840                   | 6188  | 24                          | 02-Jun-2024         |
| SAC Switch Unit                              | TUV SUD             | SSU003                    | 6191  | 12                          | 15-Jul-2023         |
| 8GHz Highpass Filter                         | Wainwright          | WHKX 7150 8000 18000 50SS | 6195  | 12                          | 15-Jul-2023         |
| Pre Amp 8 - 18 GHz                           | Wright Technologies | APS06 0061                | 6198  | 12                          | 19-Jul-2023         |
| Attenuator 4dB                               | Pasternack          | PE7074-4                  | 6203  | 24                          | 16-Jul-2024         |
| Cable (SMA to SMA 20cm)                      | TUV SUD             | MH-FH 8-18                | 6214  | 12                          | 25-Jul-2023         |

**Table 11**

O/P Mon – Output Monitored using calibrated test equipment.  
TU - Traceability Unscheduled



### 3 Measurement Uncertainty

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

| Test Name                                               | Measurement Uncertainty                                        |
|---------------------------------------------------------|----------------------------------------------------------------|
| Radiated Spurious Emissions (Simultaneous Transmission) | 30 MHz to 1 GHz: $\pm 5.2$ dB<br>1 GHz to 40 GHz: $\pm 6.3$ dB |

**Table 12**

#### Measurement Uncertainty Decision Rule – Accuracy Method

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2007, Clause 4.4.3 and 4.5.1. (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.