

# FCC and ISED Test Report

Apple Inc  
Model: A3240



In accordance with FCC 47 CFR Part 15, ISED  
RSS-247, ISED RSS-248 and ISED RSS-GEN  
(2.4 GHz Bluetooth, 2.4 GHz WLAN, 5 GHz  
WLAN, 6 GHz WLAN, Narrowband and Thread)

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FCC ID: BCGA3240

IC: 579C-A3240

## COMMERCIAL-IN-CONFIDENCE

Document 75962766-20 Issue 01

### SIGNATURE

| NAME           | JOB TITLE       | RESPONSIBLE FOR      | ISSUE DATE       |
|----------------|-----------------|----------------------|------------------|
| Steve Marshall | Senior Engineer | Authorised Signatory | 02 December 2024 |

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 15, ISED RSS-247, ISED RSS-248 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 | Rachael Watkins | 02 December 2024 |           |

FCC Accreditation  
553713/UK2026 Concorde Park, Fareham Test Laboratory

ISED Accreditation  
28798/UK0003 Concorde Park, Fareham Test Laboratory

### EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15: 2023, ISED RSS-247: Issue 3 (2023-08), ISED RSS-248: Issue 2 (2022-12) and ISED RSS-GEN: Issue 5 (2018-04) + 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           | 02-December-2024 |

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 15: 2023<br>ISED RSS-247: Issue 3 (2023-08)<br>ISED RSS-248: Issue 2 (2022-12)<br>ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02) |
| Start of Test                 | 11-October-2024                                                                                                                                  |
| Finish of Test                | 13-November-2024                                                                                                                                 |
| Name of Engineer(s)           | Ahmed Al Derdiri, Elliot Callender and Ian Hart                                                                                                  |
| Related Document(s)           | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v01r01                                                        |



### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 and ISED RSS-GEN is shown below.

| Section                                                  | Specification Clause            |             |         |              | Test Description                                        | Result | Comments/Base Standard                                                                    |
|----------------------------------------------------------|---------------------------------|-------------|---------|--------------|---------------------------------------------------------|--------|-------------------------------------------------------------------------------------------|
|                                                          | Part 15                         | RSS-247     | RSS-248 | RSS-GEN      |                                                         |        |                                                                                           |
| Configuration and Mode: 5 GHz WLAN and 2.4 GHz Bluetooth |                                 |             |         |              |                                                         |        |                                                                                           |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | 5.5 and 6.2 | -       | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v01r01 |
| Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth |                                 |             |         |              |                                                         |        |                                                                                           |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | 5.5         | 4.6     | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v01r01 |
| Configuration and Mode: 2.4 GHz WLAN and Narrowband      |                                 |             |         |              |                                                         |        |                                                                                           |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | 5.5 and 6.2 | -       | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v01r01 |
| Configuration and Mode: 5 GHz WLAN and Thread            |                                 |             |         |              |                                                         |        |                                                                                           |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | 5.5 and 6.2 | -       | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v01r01 |
| Configuration and Mode: 6 GHz WLAN and Thread            |                                 |             |         |              |                                                         |        |                                                                                           |
| 2.1                                                      | 15.209, 15.247(d) and 15.407(b) | 5.5         | 4.6     | 6.13 and 8.9 | Radiated Spurious Emissions (Simultaneous Transmission) | Pass   | ANSI C63.4 (2014)<br>ANSI C63.10 (2020)<br>KDB 789033 D02 v02r01<br>KDB 987594 D02 v01r01 |

**Table 2**



## 1.4 Product Information

### 1.4.1 Technical Description

The equipment under test (EUT) was a portable laptop computer.

## 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: A3240  |                  |                  |
| Serial Number | Hardware Version | Software Version |
| H2XGP4VW6W    | REV1.0           | 24A12461c        |
| K4L392N93P    | REV1.0           | 24A12461c        |

**Table 3**

## 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: A3240, Serial Number: K4L392N93P |                                                 |                        |                          |
| 0                                       | As supplied by the customer                     | Not Applicable         | Not Applicable           |
| Model: A3240, Serial Number: H2XGP4VW6W |                                                 |                        |                          |
| 0                                       | As supplied by the customer                     | Not Applicable         | Not Applicable           |

**Table 4**



## 1.8 Test Location

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

| Test Name                                                | Name of Engineer(s)           | Accreditation |
|----------------------------------------------------------|-------------------------------|---------------|
| Configuration and Mode: 5 GHz WLAN and 2.4 GHz Bluetooth |                               |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Ahmed Al Derdiri              | UKAS          |
| Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth |                               |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Ahmed Al Derdiri              | UKAS          |
| Configuration and Mode: 2.4 GHz WLAN and Narrowband      |                               |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Elliot Callender and Ian Hart | UKAS          |
| Configuration and Mode: 5 GHz WLAN and Thread            |                               |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Elliot Callender and Ian Hart | UKAS          |
| Configuration and Mode: 6 GHz WLAN and Thread            |                               |               |
| Radiated Spurious Emissions (Simultaneous Transmission)  | Elliot Callender              | UKAS          |

**Table 5**

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 15, Clause 15.209, 15.247(d) and 15.407(b)  
ISED RSS-247, Clause 5.5 and 6.2  
ISED RSS-248, Clause 4.6  
ISED RSS-GEN, Clause 6.13 and 8.9

#### 2.1.2 Equipment Under Test and Modification State

A3240, S/N: H2XGP4VW6W - Modification State 0  
A3240, S/N: K4L392N93P - Modification State 0

#### 2.1.3 Date of Test

11-October-2024 to 13-November-2024

#### 2.1.4 Test Method

Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

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

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 dBµV/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 dBµV/m to µV/m:  
 $10^{(\text{Field Strength in dB}\mu\text{V/m}/20)}$

To determine the emission characteristic of the EUT above 18 GHz, the test antenna was swept over all faces of the EUT whilst observing a spectral display. The frequency of any emissions of interest was noted for formal measurement at the correct measurement distance of 1m. This procedure was repeated for all relevant transmit operating channels.

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

### 2.1.5 Example Test Setup Diagram

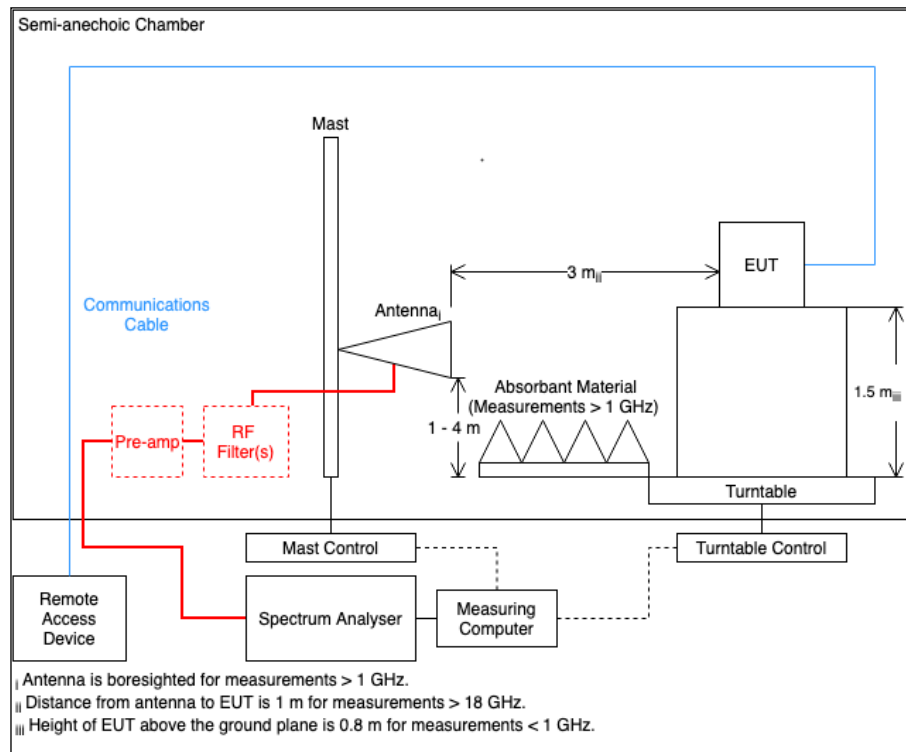


Figure 1

### 2.1.6 Environmental Conditions

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 21.6 - 23.3 °C |
| Relative Humidity   | 42.4 - 52.3 %  |

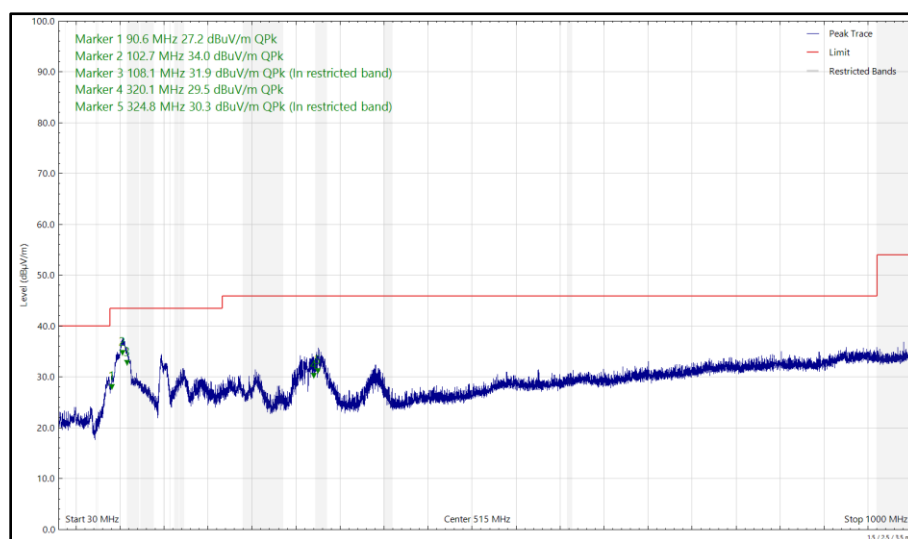
## 2.1.7 Test Results

### 5 GHz WLAN and 2.4 GHz Bluetooth

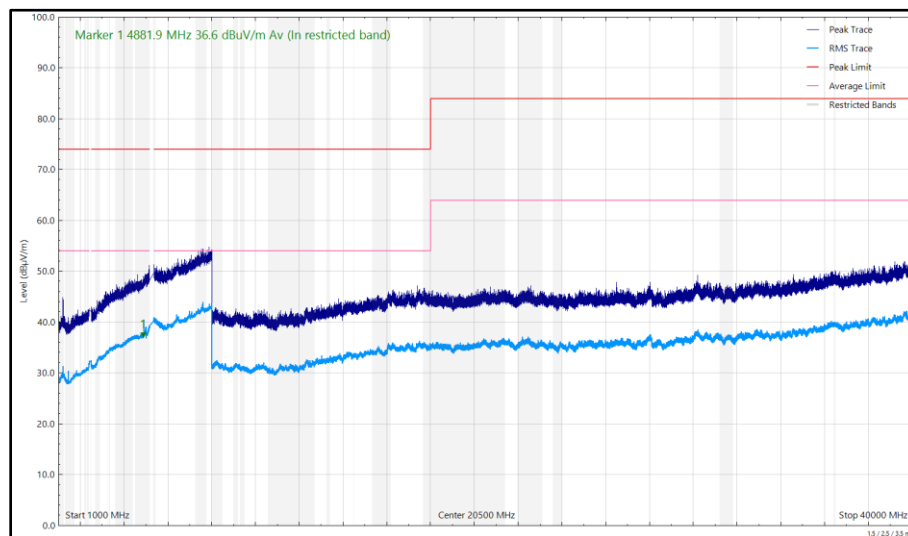
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 31.896          | 32.27          | 40.00          | -7.73       | Q-Peak    | 317       | 113         | Vertical     |
| 90.615          | 27.17          | 43.50          | -16.33      | Q-Peak    | 356       | 398         | Horizontal   |
| 99.007          | 30.86          | 43.50          | -12.64      | Q-Peak    | 40        | 125         | Vertical     |
| 102.715         | 33.98          | 43.50          | -9.52       | Q-Peak    | 0         | 341         | Horizontal   |
| 108.109         | 31.92          | 43.50          | -11.58      | Q-Peak    | 350       | 292         | Horizontal   |
| 112.093         | 31.93          | 43.50          | -11.57      | Q-Peak    | 119       | 100         | Vertical     |
| 233.242         | 25.63          | 46.00          | -20.37      | Q-Peak    | 287       | 107         | Vertical     |
| 253.033         | 24.58          | 46.00          | -21.42      | Q-Peak    | 279       | 102         | Vertical     |
| 320.099         | 29.45          | 46.00          | -16.55      | Q-Peak    | 91        | 100         | Horizontal   |
| 324.824         | 30.34          | 46.00          | -15.66      | Q-Peak    | 92        | 101         | Horizontal   |
| 2389.606        | 35.17          | 54.00          | -18.83      | CISPR Avg | 1         | 220         | Vertical     |
| 4881.948        | 36.60          | 54.00          | -17.40      | CISPR Avg | 309       | 376         | Horizontal   |
| 4882.357        | 45.87          | 54.00          | -8.13       | CISPR Avg | 353       | 270         | Vertical     |
| 4882.493        | 58.87          | 74.00          | -15.13      | Peak      | 0         | 290         | Vertical     |
| 5147.548        | 57.47          | 74.00          | -16.53      | Peak      | 336       | 284         | Vertical     |
| 5149.850        | 43.41          | 54.00          | -10.59      | CISPR Avg | 345       | 296         | Vertical     |
| 5363.198        | 58.89          | 74.00          | -15.11      | Peak      | 335       | 287         | Vertical     |
| 5368.147        | 42.58          | 54.00          | -11.42      | CISPR Avg | 325       | 266         | Vertical     |

**Table 6 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

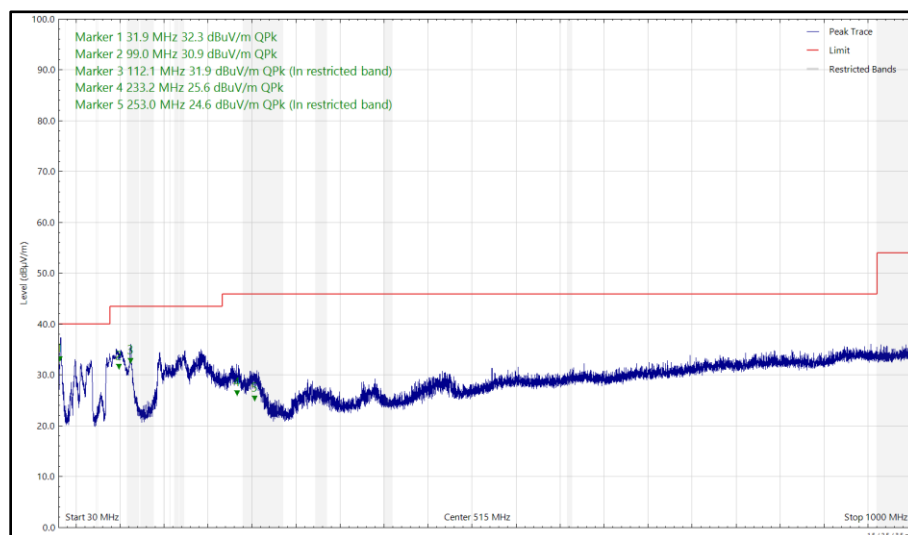
No other emissions found within 10 dB of the limit.



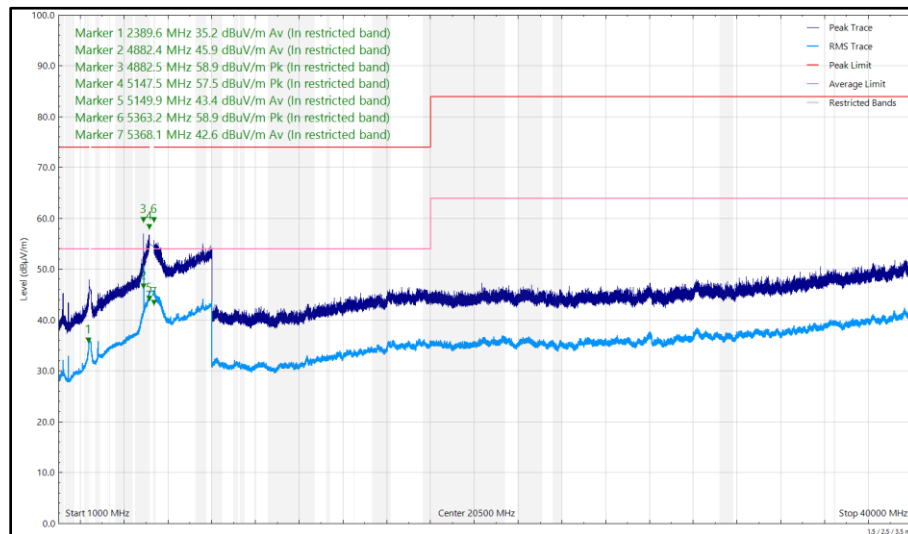
**Figure 2 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 3 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 4 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**

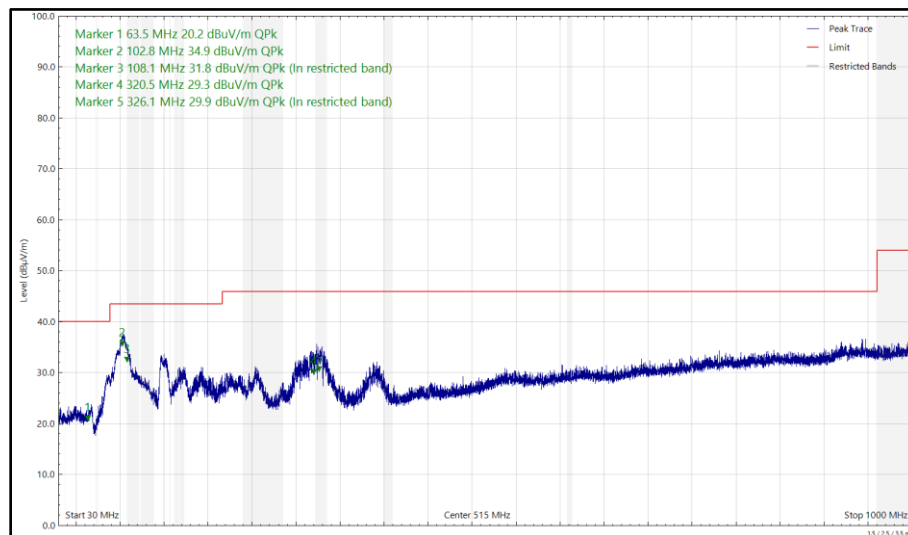


**Figure 5 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

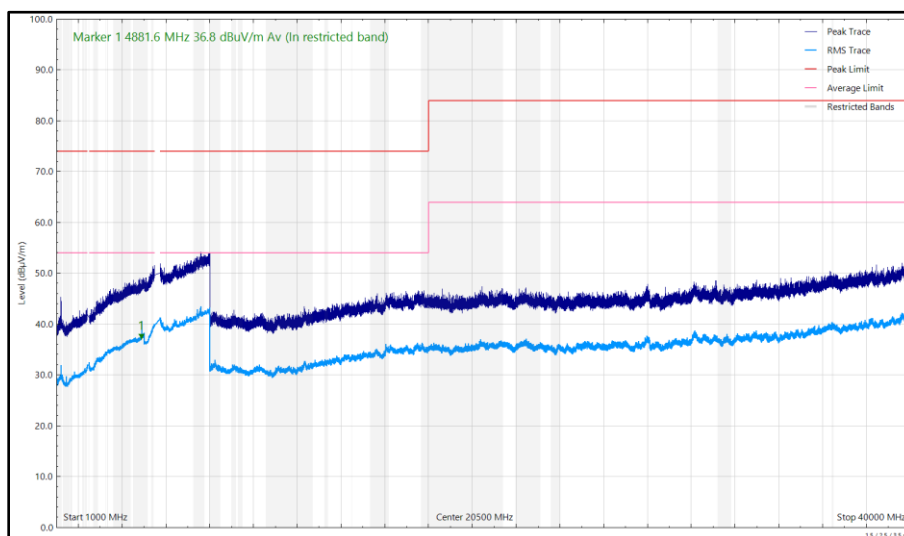
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|-----------|-----------|-------------|--------------|
| 31.971          | 32.33                | 40.00                | -7.67       | Q-Peak    | 216       | 113         | Vertical     |
| 63.522          | 20.18                | 40.00                | -19.82      | Q-Peak    | 316       | 356         | Horizontal   |
| 100.855         | 31.34                | 43.50                | -12.16      | Q-Peak    | 36        | 131         | Vertical     |
| 102.845         | 34.85                | 43.50                | -8.65       | Q-Peak    | 0         | 297         | Horizontal   |
| 108.088         | 31.77                | 43.50                | -11.73      | Q-Peak    | 15        | 277         | Horizontal   |
| 111.777         | 32.76                | 43.50                | -10.74      | Q-Peak    | 89        | 100         | Vertical     |
| 236.273         | 24.58                | 46.00                | -21.42      | Q-Peak    | 290       | 121         | Vertical     |
| 253.539         | 25.00                | 46.00                | -21.00      | Q-Peak    | 291       | 100         | Vertical     |
| 320.483         | 29.28                | 46.00                | -16.72      | Q-Peak    | 89        | 100         | Horizontal   |
| 326.133         | 29.94                | 46.00                | -16.06      | Q-Peak    | 95        | 100         | Horizontal   |
| 4881.583        | 36.75                | 54.00                | -17.25      | CISPR Avg | 310       | 390         | Horizontal   |
| 4881.818        | 58.05                | 74.00                | -15.95      | Peak      | 355       | 266         | Vertical     |
| 4882.088        | 45.05                | 54.00                | -8.95       | CISPR Avg | 359       | 319         | Vertical     |
| 5442.289        | 57.35                | 74.00                | -16.65      | Peak      | 323       | 275         | Vertical     |
| 5454.909        | 41.02                | 54.00                | -12.98      | CISPR Avg | 31        | 292         | Vertical     |

**Table 7 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

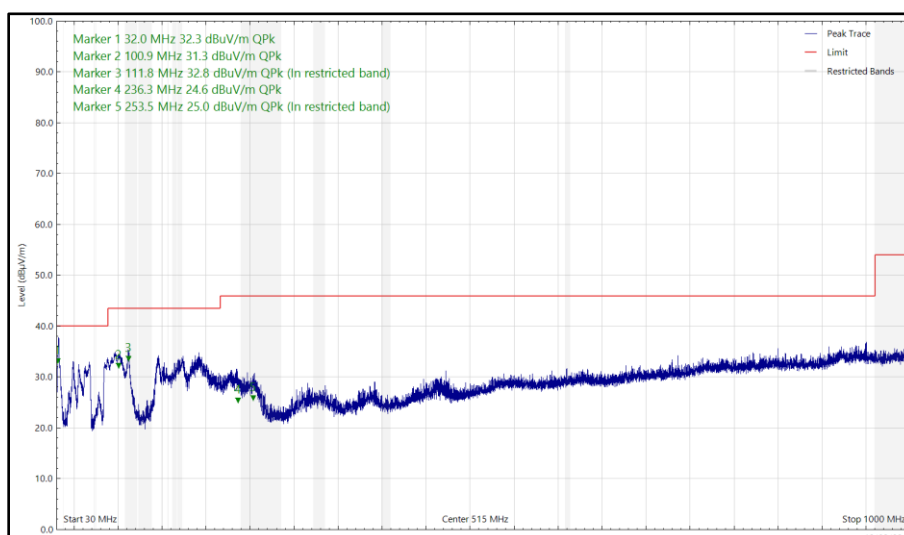
No other emissions found within 10 dB of the limit.



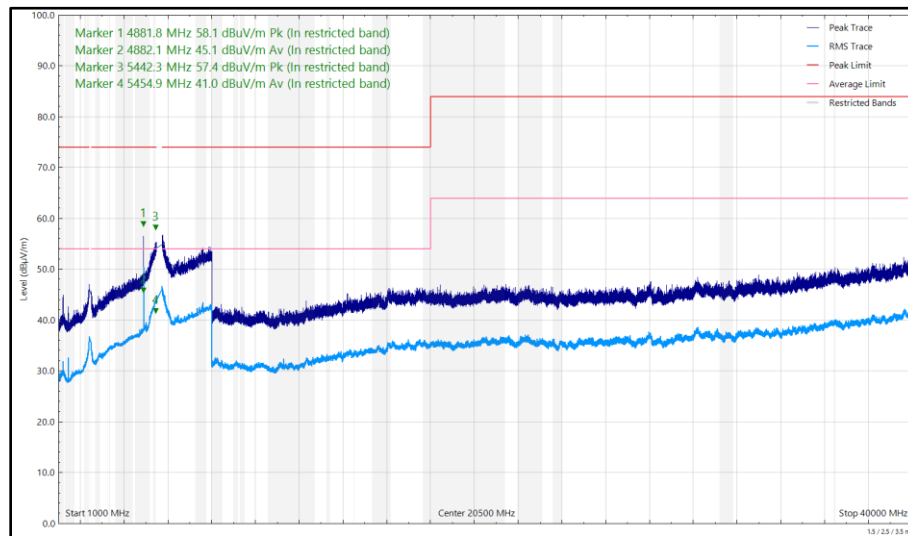
**Figure 6 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 7 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 8 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**

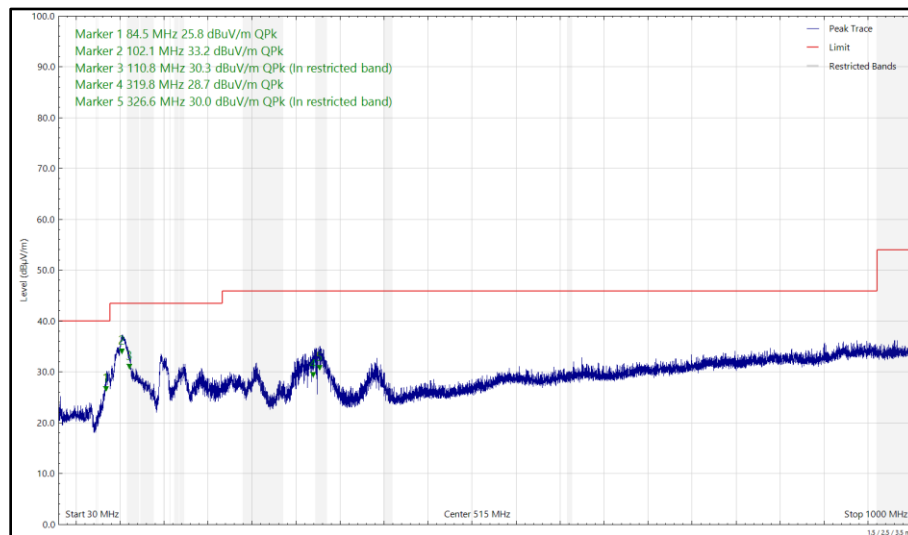


**Figure 9 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

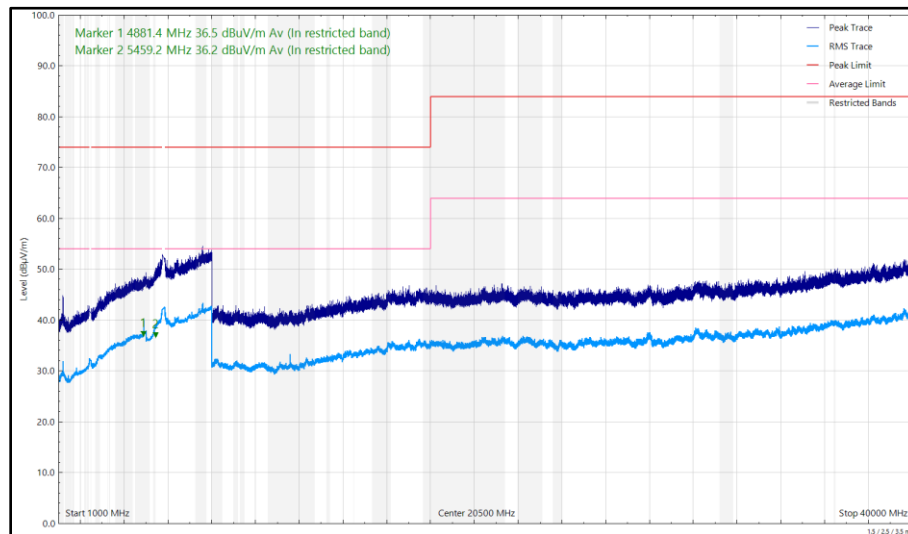
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 32.006          | 32.54          | 40.00          | -7.46       | Q-Peak    | 338       | 108         | Vertical     |
| 84.481          | 25.80          | 40.00          | -14.20      | Q-Peak    | 193       | 247         | Horizontal   |
| 95.744          | 30.88          | 43.50          | -12.62      | Q-Peak    | 132       | 105         | Vertical     |
| 102.116         | 33.20          | 43.50          | -10.30      | Q-Peak    | 2         | 399         | Horizontal   |
| 110.813         | 30.28          | 43.50          | -13.22      | Q-Peak    | 217       | 259         | Horizontal   |
| 111.907         | 32.27          | 43.50          | -11.23      | Q-Peak    | 115       | 100         | Vertical     |
| 227.172         | 26.50          | 46.00          | -19.50      | Q-Peak    | 309       | 110         | Vertical     |
| 250.693         | 24.82          | 46.00          | -21.18      | Q-Peak    | 320       | 102         | Vertical     |
| 319.835         | 28.66          | 46.00          | -17.34      | Q-Peak    | 81        | 106         | Horizontal   |
| 326.574         | 30.01          | 46.00          | -15.99      | Q-Peak    | 85        | 106         | Horizontal   |
| 4881.428        | 36.49          | 54.00          | -17.51      | CISPR Avg | 316       | 395         | Horizontal   |
| 4881.618        | 58.14          | 74.00          | -15.86      | Peak      | 357       | 293         | Vertical     |
| 4882.308        | 45.14          | 54.00          | -8.86       | CISPR Avg | 360       | 299         | Vertical     |
| 5455.859        | 40.15          | 54.00          | -13.85      | CISPR Avg | 328       | 272         | Vertical     |
| 5459.203        | 36.21          | 54.00          | -17.79      | CISPR Avg | 75        | 390         | Horizontal   |
| 11569.990       | 35.91          | 54.00          | -18.09      | CISPR Avg | 33        | 237         | Vertical     |

**Table 8 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

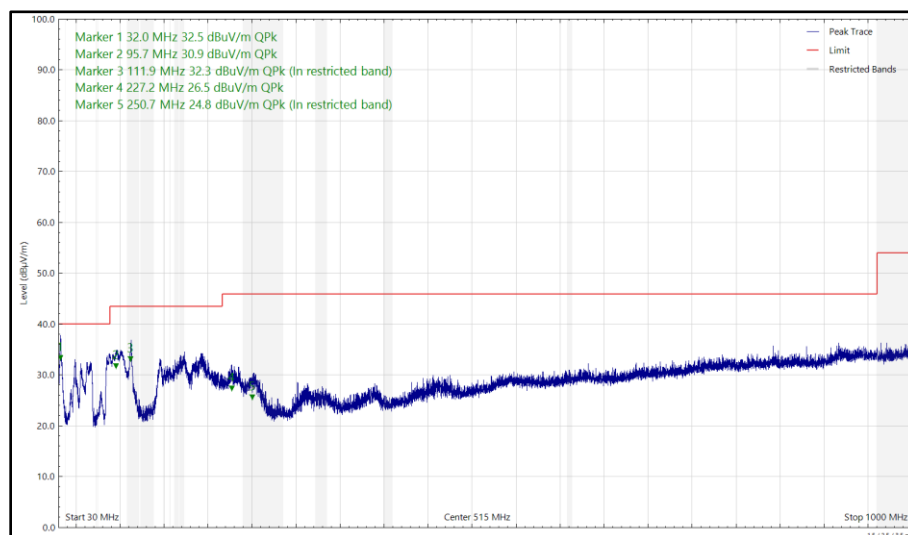
No other emissions found within 10 dB of the limit.



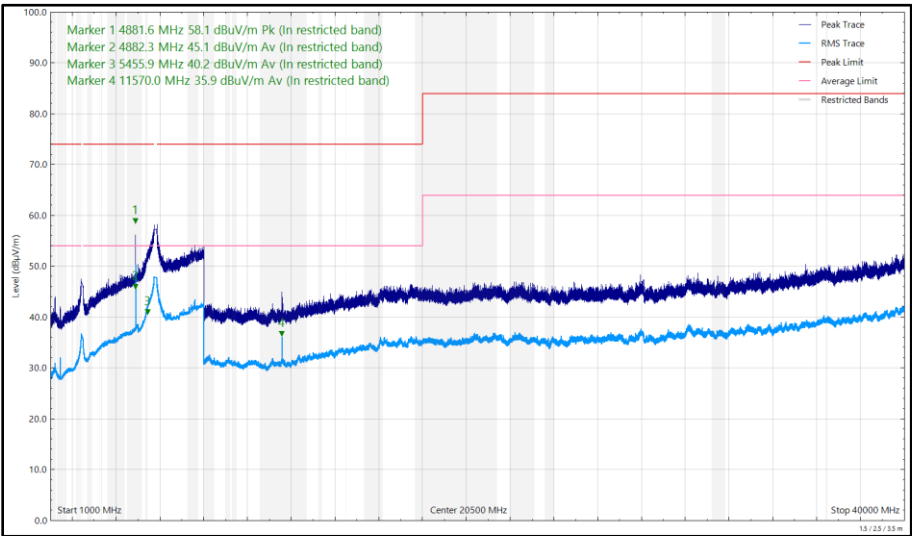
**Figure 10 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 11 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 12 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 13 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

FCC 47 CFR Part 15, ISSED RSS-247 and ISSED 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 15.407 (b) / RSS-247<br>Clause 6.2 | -27 dBm e.i.r.p                                                           |
| Part 15.209 / RSS-GEN<br>Clause 8.9     | Peak: 74 dBμV/m at 3m, Average 54 dBμV/m at 3m (Restricted bands > 1 GHz) |

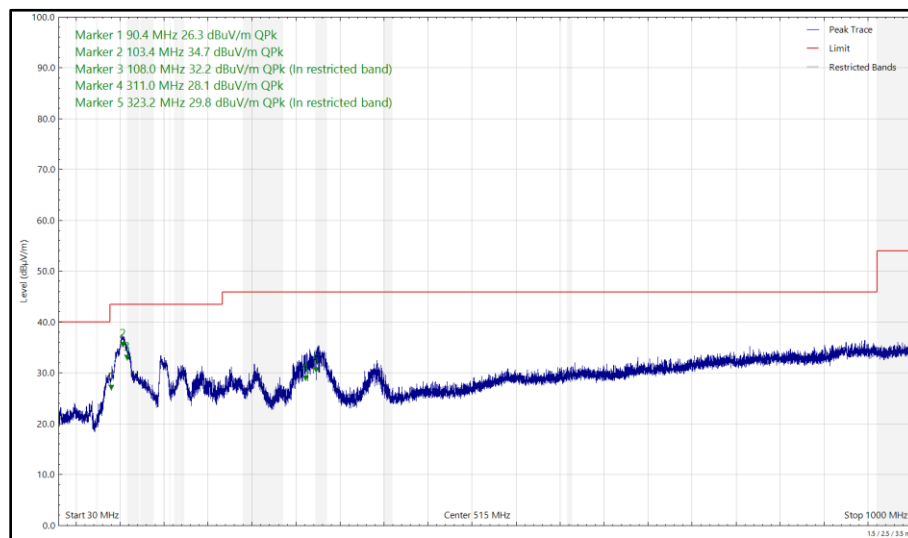
**Table 9**

## 6 GHz WLAN and 2.4 GHz Bluetooth

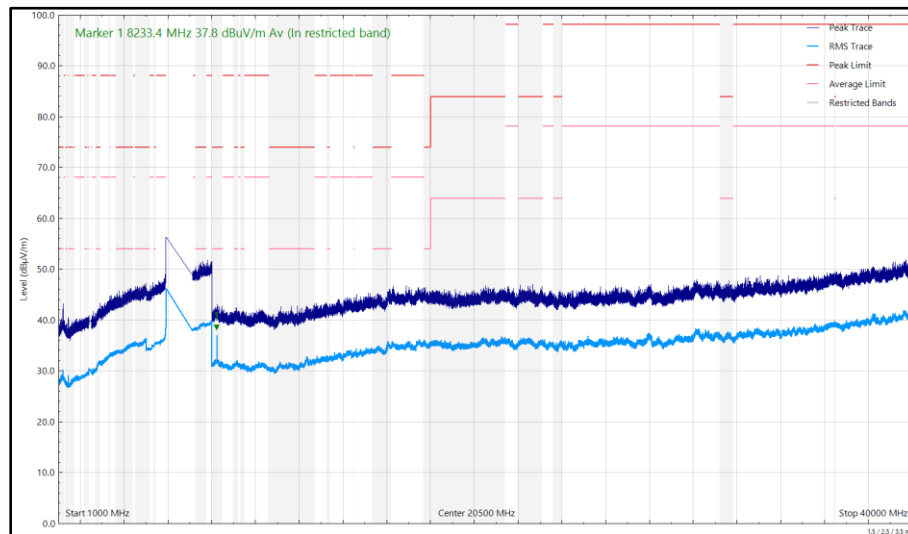
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|-----------|-----------|-------------|--------------|
| 32.169          | 32.83                | 40.00                | -7.17       | Q-Peak    | 311       | 105         | Vertical     |
| 90.398          | 26.31                | 43.50                | -17.19      | Q-Peak    | 0         | 396         | Horizontal   |
| 100.855         | 31.84                | 43.50                | -11.66      | Q-Peak    | 36        | 103         | Vertical     |
| 103.432         | 34.70                | 43.50                | -8.80       | Q-Peak    | 3         | 283         | Horizontal   |
| 108.037         | 32.15                | 43.50                | -11.35      | Q-Peak    | 0         | 289         | Horizontal   |
| 112.087         | 32.37                | 43.50                | -11.13      | Q-Peak    | 100       | 100         | Vertical     |
| 233.553         | 25.13                | 46.00                | -20.87      | Q-Peak    | 322       | 119         | Vertical     |
| 251.552         | 23.97                | 46.00                | -22.03      | Q-Peak    | 276       | 110         | Vertical     |
| 310.952         | 28.13                | 46.00                | -17.87      | Q-Peak    | 90        | 100         | Horizontal   |
| 323.162         | 29.78                | 46.00                | -16.22      | Q-Peak    | 85        | 100         | Horizontal   |
| 4881.693        | 36.88                | 54.00                | -17.12      | CISPR Avg | 4         | 100         | Vertical     |
| 7322.532        | 40.96                | 54.00                | -13.04      | CISPR Avg | 328       | 100         | Vertical     |
| 8233.130        | 38.29                | 54.00                | -15.71      | CISPR Avg | 305       | 243         | Vertical     |
| 8233.425        | 37.77                | 54.00                | -16.23      | CISPR Avg | 287       | 399         | Horizontal   |

**Table 10 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

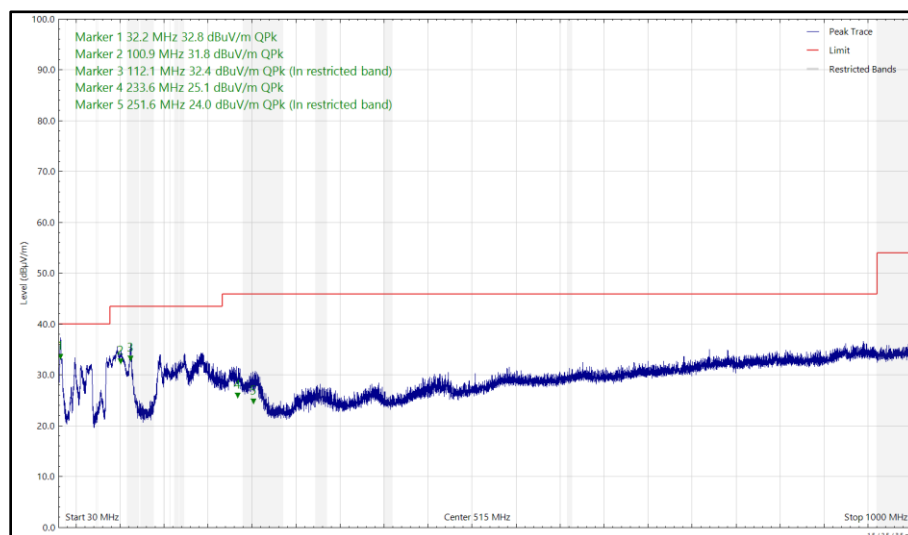
No other emissions found within 10 dB of the limit.



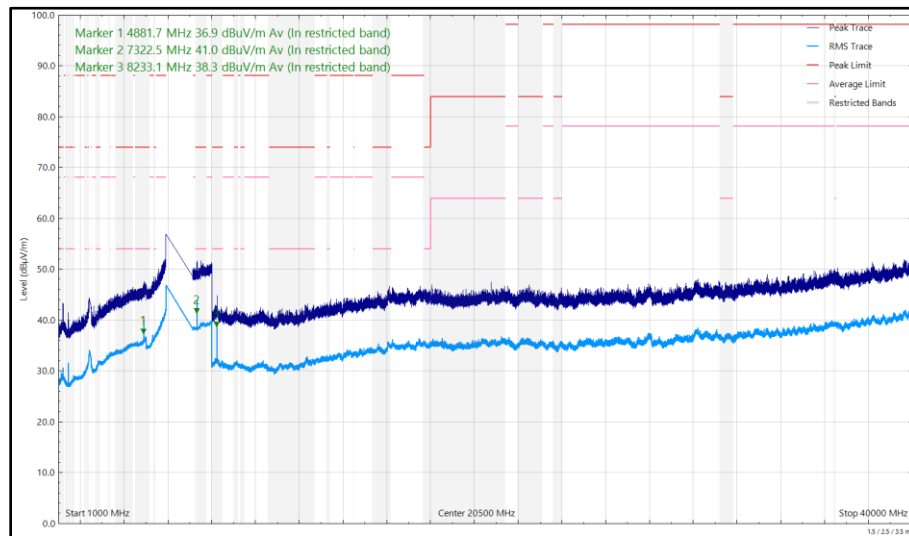
**Figure 14 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 15 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 16 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



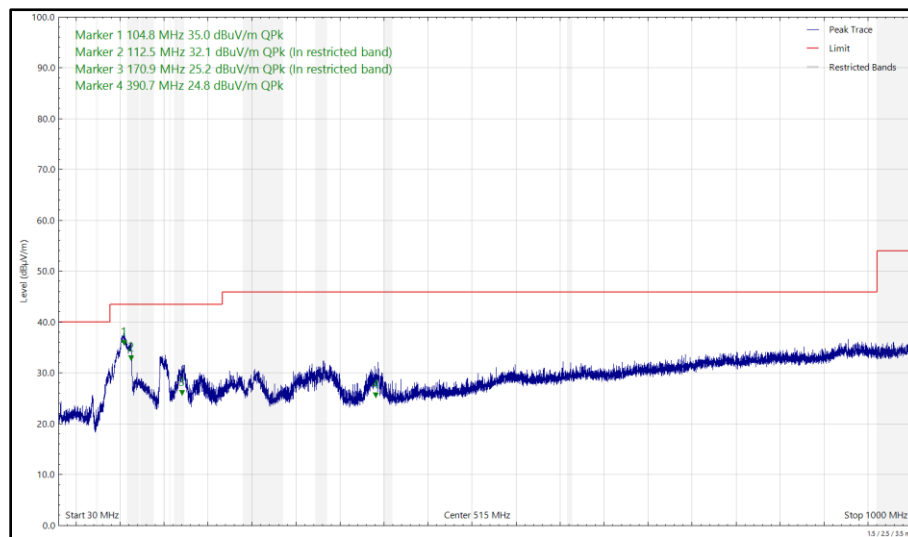
**Figure 17 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**



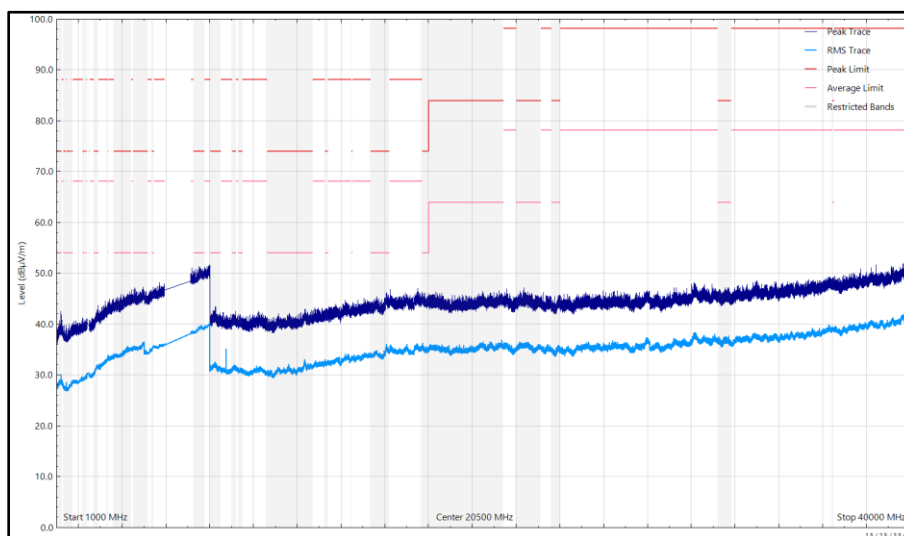
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 31.984          | 32.41          | 40.00          | -7.59       | Q-Peak    | 260       | 110         | Vertical     |
| 104.839         | 35.04          | 43.50          | -8.46       | Q-Peak    | 0         | 289         | Horizontal   |
| 112.486         | 32.13          | 43.50          | -11.37      | Q-Peak    | 6         | 273         | Horizontal   |
| 112.547         | 32.35          | 43.50          | -11.15      | Q-Peak    | 261       | 110         | Vertical     |
| 170.894         | 25.23          | 43.50          | -18.27      | Q-Peak    | 9         | 253         | Horizontal   |
| 194.518         | 28.32          | 43.50          | -15.18      | Q-Peak    | 214       | 102         | Vertical     |
| 250.592         | 24.52          | 46.00          | -21.48      | Q-Peak    | 228       | 108         | Vertical     |
| 390.688         | 24.83          | 46.00          | -21.17      | Q-Peak    | 224       | 386         | Horizontal   |
| 4881.828        | 37.18          | 54.00          | -16.82      | CISPR Avg | 0         | 100         | Vertical     |
| 7323.583        | 39.19          | 54.00          | -14.81      | CISPR Avg | 53        | 100         | Vertical     |

**Table 11 - U-NII-8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

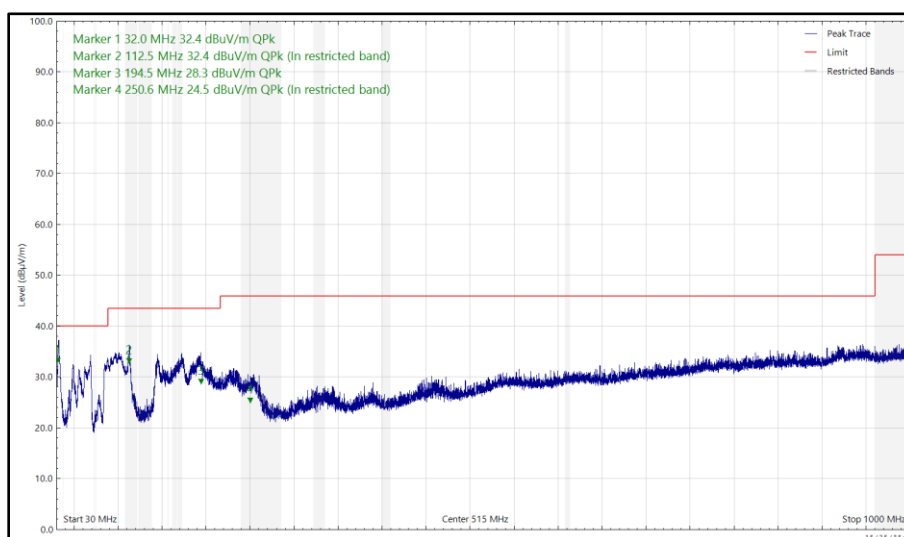
No other emissions found within 10 dB of the limit.



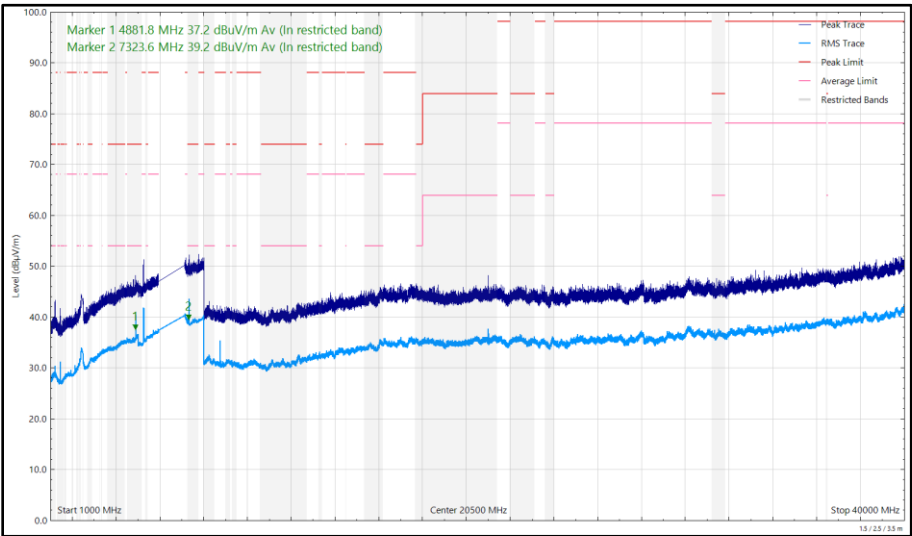
**Figure 18 - U-NII-8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 19 - U-NII-8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 20 - U-NII-8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 21 - U-NII-8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), 2-DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

FCC 47 CFR Part 15, ISED RSS-247, ISED RSS-248 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 15.407 (b) / RSS-248<br>Clause 4.7.2 | Peak: -7 dBm/MHz e.i.r.p, Average: -27 dBm/MHz e.i.r.p.                   |
| Part 15.209 / RSS-GEN<br>Clause 8.9       | Peak: 74 dBμV/m at 3m, Average 54 dBμV/m at 3m (Restricted bands > 1 GHz) |

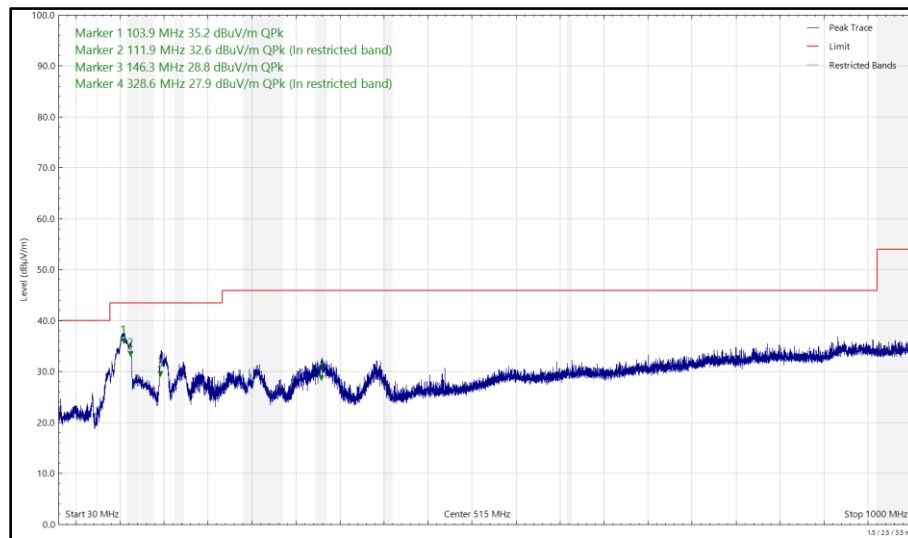
**Table 12**

## 2.4 GHz WLAN and Narrowband

| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 31.954          | 32.61                | 40.00                | -7.39       | Q-Peak   | 267       | 106         | Vertical     |
| 103.856         | 35.24                | 43.50                | -8.26       | Q-Peak   | 2         | 305         | Horizontal   |
| 111.899         | 32.63                | 43.50                | -10.87      | Q-Peak   | 350       | 279         | Horizontal   |
| 112.361         | 32.93                | 43.50                | -10.57      | Q-Peak   | 292       | 248         | Vertical     |
| 144.629         | 29.96                | 43.50                | -13.54      | Q-Peak   | 287       | 111         | Vertical     |
| 146.312         | 28.76                | 43.50                | -14.74      | Q-Peak   | 213       | 307         | Horizontal   |
| 227.884         | 26.30                | 46.00                | -19.70      | Q-Peak   | 311       | 115         | Vertical     |
| 328.562         | 27.89                | 46.00                | -18.11      | Q-Peak   | 91        | 100         | Horizontal   |
| 2389.841        | 34.92                | 54.00                | -19.08      | RMS      | 309       | 295         | Horizontal   |
| 2389.889        | 39.24                | 54.00                | -14.76      | RMS      | 9         | 290         | Vertical     |
| 2483.525        | 55.73                | 74.00                | -18.27      | Peak     | 349       | 346         | Vertical     |
| 2483.526        | 39.88                | 54.00                | -14.12      | RMS      | 350       | 254         | Vertical     |
| 2483.539        | 35.91                | 54.00                | -18.09      | RMS      | 305       | 371         | Horizontal   |
| 4882.198        | 38.84                | 54.00                | -15.16      | RMS      | 360       | 273         | Vertical     |

**Table 13 - 2442 MHz (CH7), HT20, Core 0 and 5204 MHz, DH5, ePA, Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 22 - 2442 MHz (CH7), HT20, Core 0 and 5204 MHz, DH5, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**

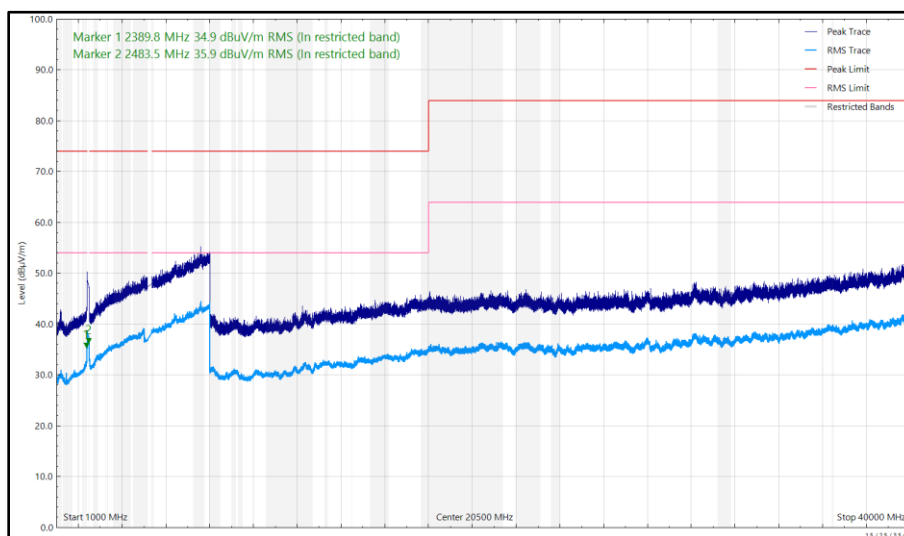


Figure 23 - 2442 MHz (CH7), HT20, Core 0 and 5204 MHz, DH5, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

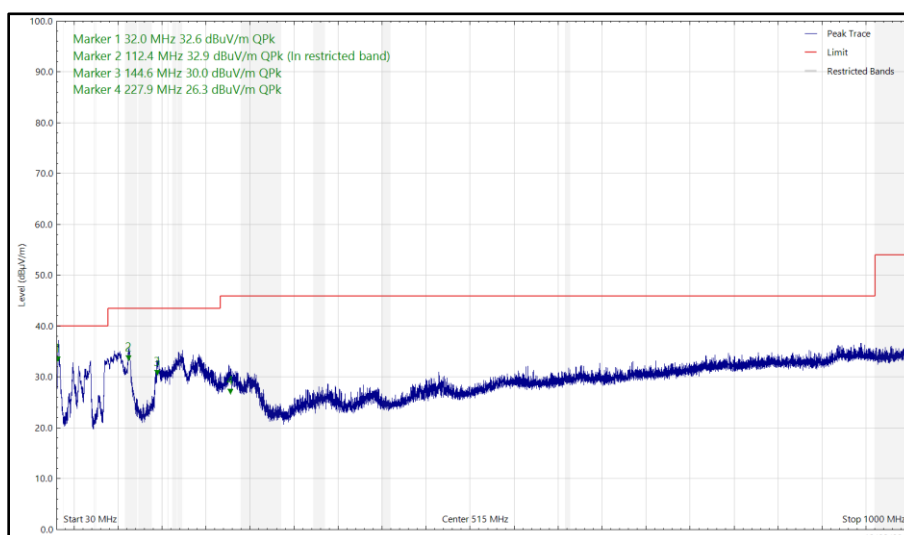
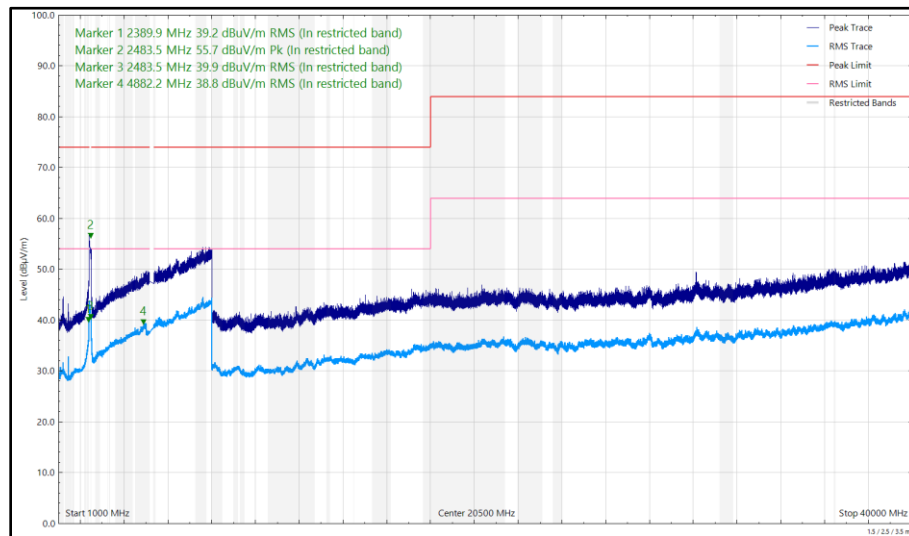


Figure 24 - 2442 MHz (CH7), HT20, Core 0 and 5204 MHz, DH5, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

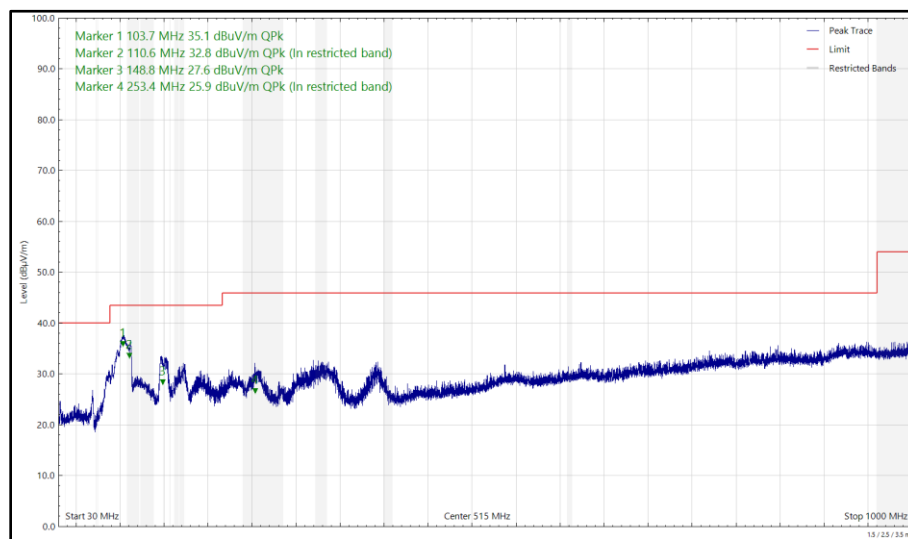


**Figure 25 - 2442 MHz (CH7), HT20, Core 0 and 5204 MHz, DH5, ePA, Core 1, 1 GHz to 40 GHz, Vertical**

| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 32.225          | 32.77          | 40.00          | -7.23       | Q-Peak   | 223       | 108         | Vertical     |
| 103.727         | 35.09          | 43.50          | -8.41       | Q-Peak   | 7         | 313         | Horizontal   |
| 110.648         | 32.80          | 43.50          | -10.70      | Q-Peak   | 0         | 289         | Horizontal   |
| 112.304         | 32.59          | 43.50          | -10.91      | Q-Peak   | 251       | 100         | Vertical     |
| 144.903         | 30.29          | 43.50          | -13.21      | Q-Peak   | 304       | 113         | Vertical     |
| 148.827         | 27.59          | 43.50          | -15.91      | Q-Peak   | 8         | 349         | Horizontal   |
| 253.394         | 25.85          | 46.00          | -20.15      | Q-Peak   | 121       | 103         | Horizontal   |
| 255.383         | 24.20          | 46.00          | -21.80      | Q-Peak   | 262       | 112         | Vertical     |
| 1440.207        | 33.45          | 54.00          | -20.55      | RMS      | 65        | 241         | Vertical     |
| 2389.966        | 38.62          | 54.00          | -15.38      | RMS      | 6         | 272         | Vertical     |
| 2389.999        | 34.51          | 54.00          | -19.49      | RMS      | 315       | 373         | Horizontal   |
| 2483.561        | 36.07          | 54.00          | -17.93      | RMS      | 302       | 385         | Horizontal   |
| 2483.616        | 40.48          | 54.00          | -13.52      | RMS      | 350       | 298         | Vertical     |
| 5374.610        | 41.57          | 54.00          | -12.43      | RMS      | 19        | 294         | Vertical     |

**Table 14 - 2442 MHz (CH7), HT20, Core 0 and 5788 MHz, DH5, ePA, Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 26 - 2442 MHz (CH7), HT20, Core 0 and 5788 MHz, DH5, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**

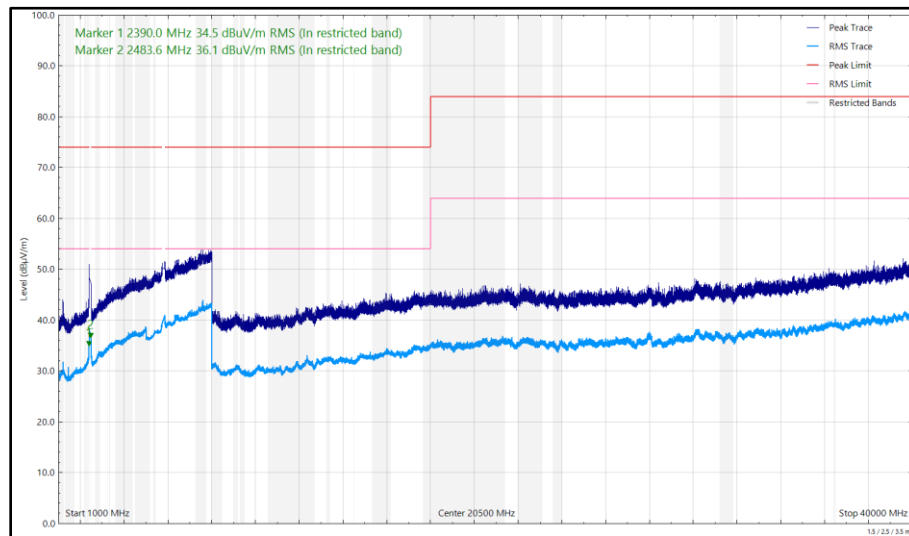


Figure 27 - 2442 MHz (CH7), HT20, Core 0 and 5788 MHz, DH5, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

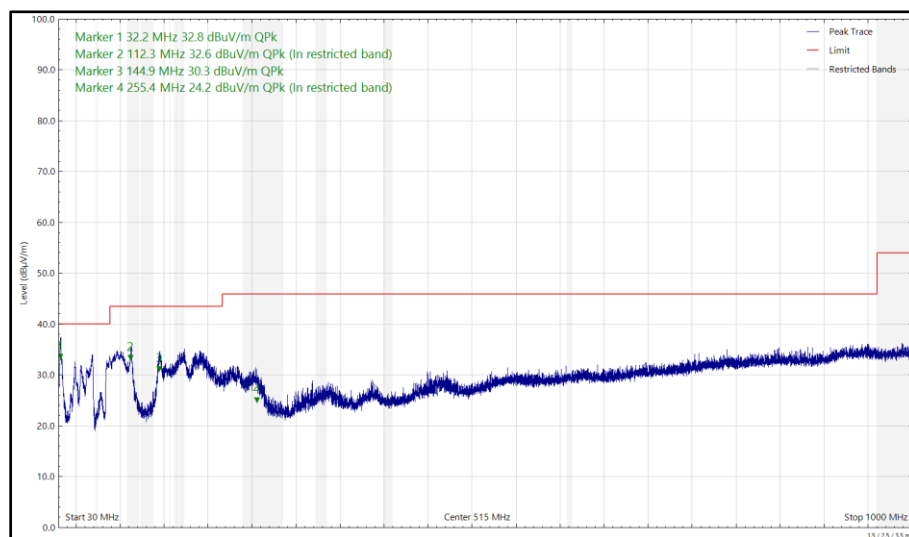


Figure 28 - 2442 MHz (CH7), HT20, Core 0 and 5788 MHz, DH5, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

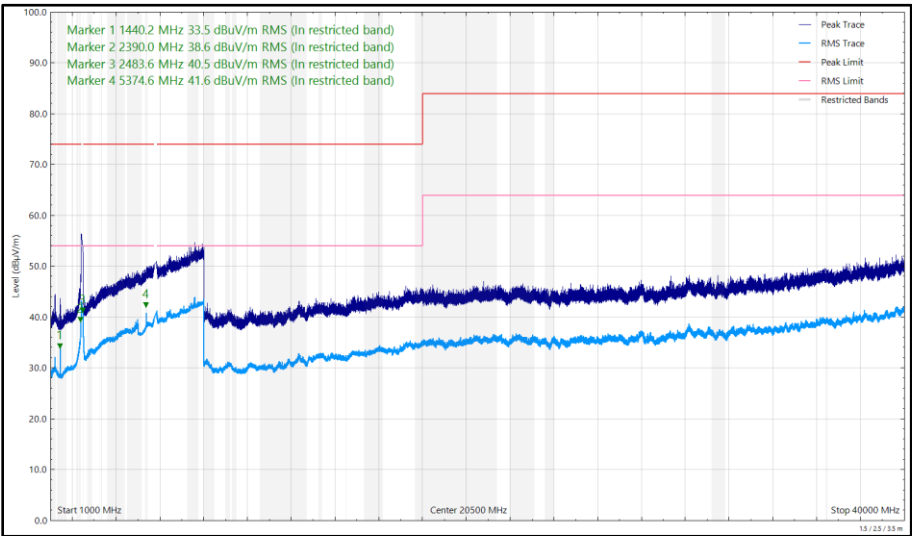
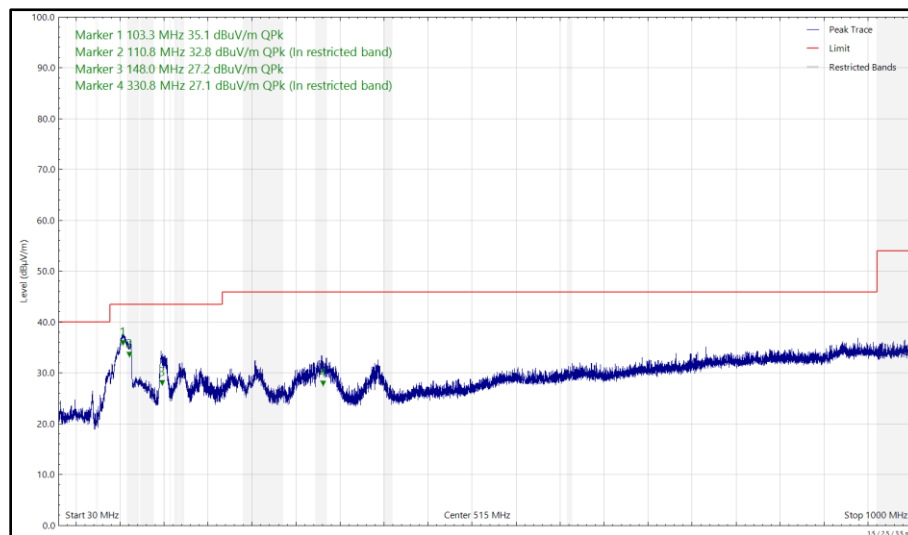


Figure 29 - 2442 MHz (CH7), HT20, Core 0 and 5788 MHz, DH5, ePA, Core 1, 1 GHz to 40 GHz, Vertical

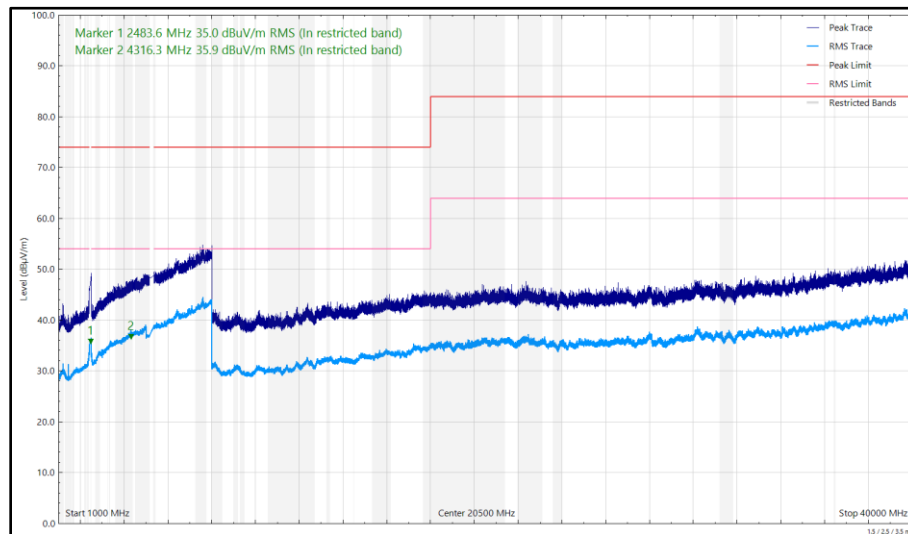
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 32.224          | 33.05          | 40.00          | -6.95       | Q-Peak   | 258       | 100         | Vertical     |
| 103.343         | 35.05          | 43.50          | -8.45       | Q-Peak   | 2         | 273         | Horizontal   |
| 110.778         | 32.76          | 43.50          | -10.74      | Q-Peak   | 0         | 271         | Horizontal   |
| 112.079         | 32.41          | 43.50          | -11.09      | Q-Peak   | 289       | 279         | Vertical     |
| 147.990         | 27.23          | 43.50          | -16.27      | Q-Peak   | 0         | 315         | Horizontal   |
| 194.663         | 28.61          | 43.50          | -14.89      | Q-Peak   | 215       | 100         | Vertical     |
| 254.173         | 25.11          | 46.00          | -20.89      | Q-Peak   | 246       | 101         | Vertical     |
| 330.765         | 27.09          | 46.00          | -18.91      | Q-Peak   | 89        | 100         | Horizontal   |
| 1440.165        | 33.72          | 54.00          | -20.28      | RMS      | 66        | 238         | Vertical     |
| 2389.939        | 37.95          | 54.00          | -16.05      | RMS      | 346       | 389         | Vertical     |
| 2483.509        | 40.35          | 54.00          | -13.65      | RMS      | 0         | 325         | Vertical     |
| 2483.572        | 34.99          | 54.00          | -19.01      | RMS      | 56        | 198         | Horizontal   |
| 2484.531        | 57.80          | 74.00          | -16.20      | Peak     | 360       | 353         | Vertical     |
| 4316.266        | 35.85          | 54.00          | -18.15      | RMS      | 179       | 113         | Horizontal   |
| 4883.053        | 40.16          | 54.00          | -13.84      | RMS      | 359       | 254         | Vertical     |

**Table 15 - 2442 MHz (CH7), HT20, Core 1 and 5204 MHz, DH5, ePA, Core 0, 30 MHz to 40 GHz**

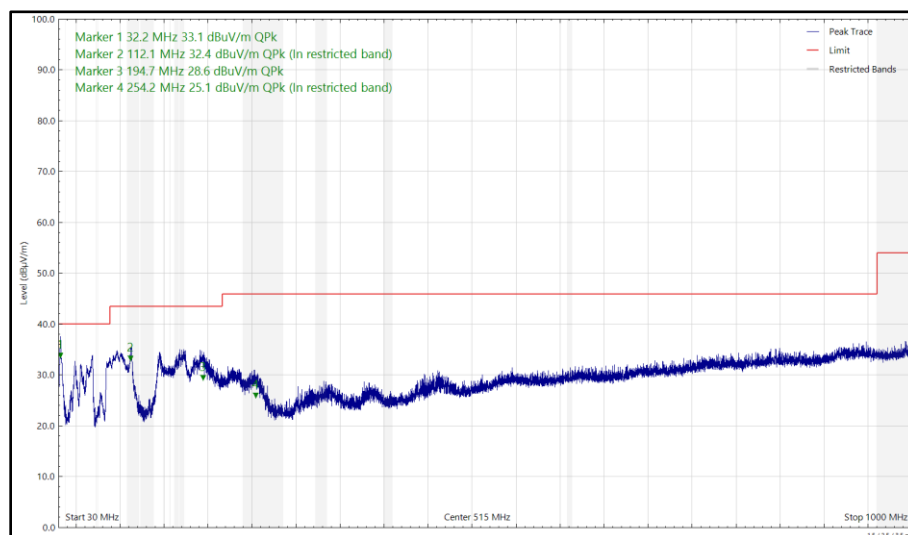
No other emissions found within 10 dB of the limit.



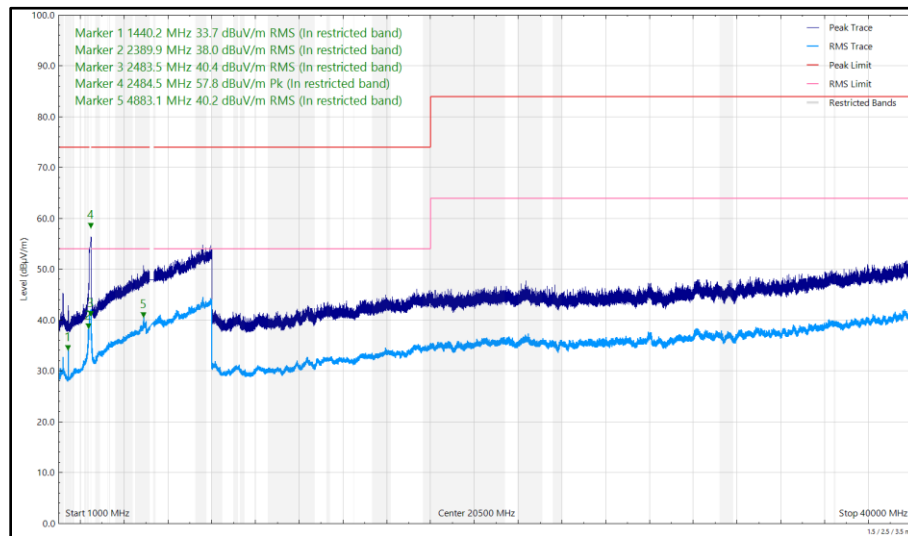
**Figure 30 - 2442 MHz (CH7), HT20, Core 1 and 5204 MHz, DH5, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 31 - 2442 MHz (CH7), HT20, Core 1 and 5204 MHz, DH5, ePA, Core 0, 1 GHz to 40 GHz, Horizontal**



**Figure 32 - 2442 MHz (CH7), HT20, Core 1 and 5204 MHz, DH5, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)**

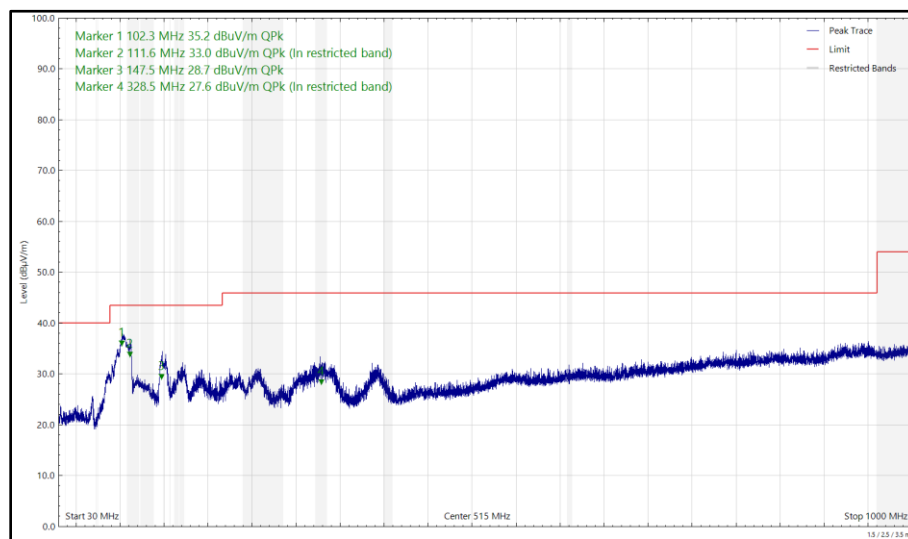


**Figure 33 - 2442 MHz (CH7), HT20, Core 1 and 5204 MHz, DH5, ePA, Core 0, 1 GHz to 40 GHz, Vertical**

| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 32.064          | 32.64          | 40.00          | -7.36       | Q-Peak   | 274       | 113         | Vertical     |
| 102.317         | 35.16          | 43.50          | -8.34       | Q-Peak   | 1         | 312         | Horizontal   |
| 111.621         | 33.04          | 43.50          | -10.46      | Q-Peak   | 360       | 299         | Horizontal   |
| 112.482         | 32.54          | 43.50          | -10.96      | Q-Peak   | 255       | 100         | Vertical     |
| 144.779         | 30.47          | 43.50          | -13.03      | Q-Peak   | 290       | 100         | Vertical     |
| 147.542         | 28.67          | 43.50          | -14.83      | Q-Peak   | 28        | 331         | Horizontal   |
| 254.215         | 25.11          | 46.00          | -20.89      | Q-Peak   | 309       | 100         | Vertical     |
| 328.542         | 27.60          | 46.00          | -18.40      | Q-Peak   | 93        | 100         | Horizontal   |
| 2389.608        | 38.85          | 54.00          | -15.15      | RMS      | 352       | 248         | Vertical     |
| 2483.519        | 41.21          | 54.00          | -12.79      | RMS      | 10        | 310         | Vertical     |
| 2483.768        | 36.08          | 54.00          | -17.92      | RMS      | 50        | 345         | Horizontal   |
| 2485.347        | 58.36          | 74.00          | -15.64      | Peak     | 5         | 240         | Vertical     |
| 4883.118        | 40.41          | 54.00          | -13.59      | RMS      | 360       | 311         | Vertical     |
| 5374.545        | 42.08          | 54.00          | -11.92      | RMS      | 334       | 309         | Vertical     |

**Table 16 - 2442 MHz (CH7), HT20, Core 1 and 5788 MHz, DH5, ePA, Core 0, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 34 - 2442 MHz (CH7), HT20, Core 1 and 5788 MHz, DH5, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**

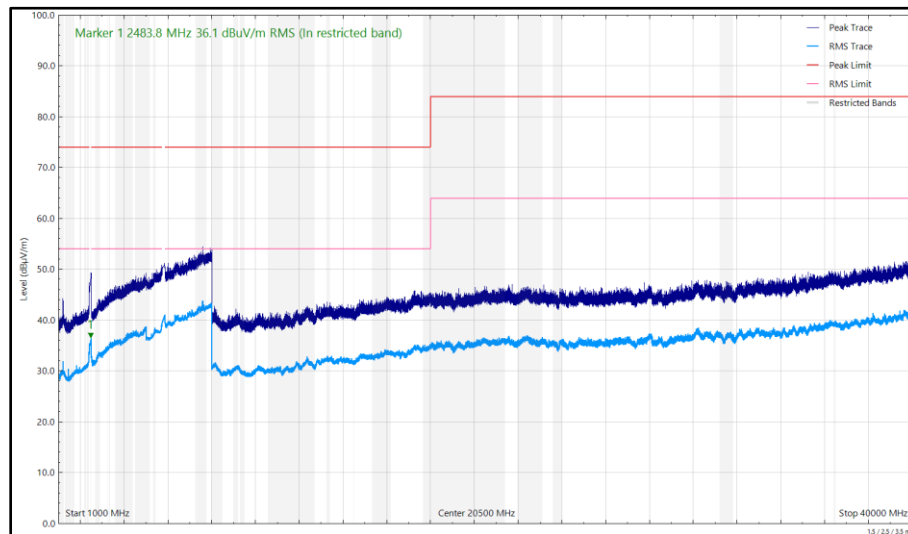


Figure 35 - 2442 MHz (CH7), HT20, Core 1 and 5788 MHz, DH5, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

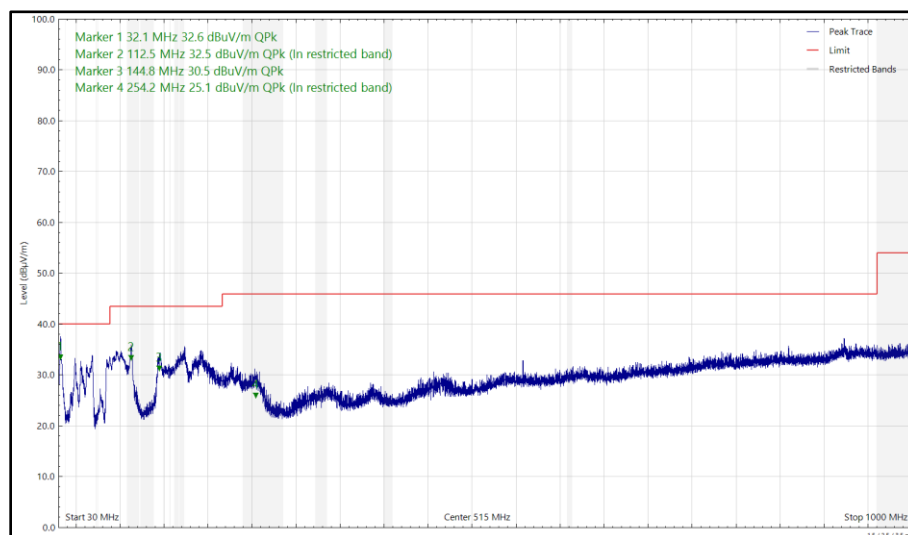
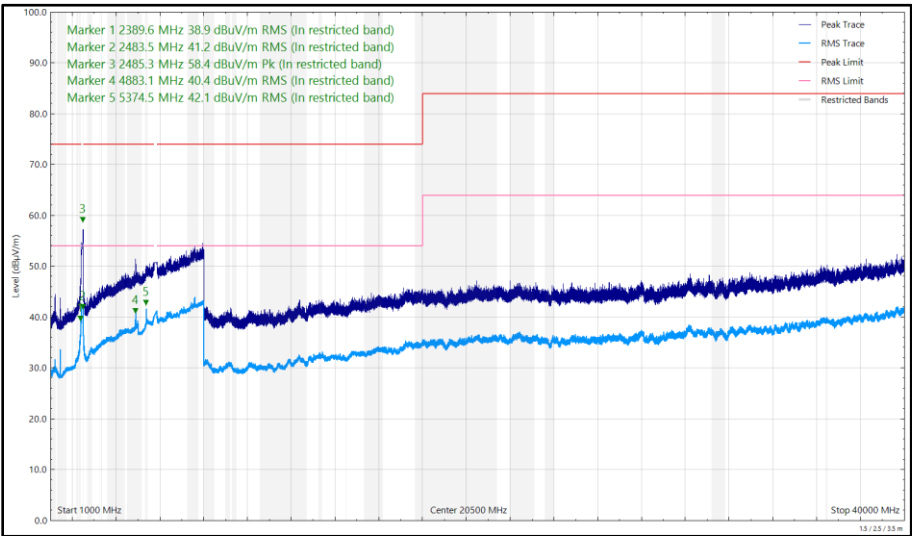


Figure 36 - 2442 MHz (CH7), HT20, Core 1 and 5788 MHz, DH5, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)



**Figure 37 - 2442 MHz (CH7), HT20, Core 1 and 5788 MHz, DH5, ePA, Core 0, 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 15.407 (b) / RSS-247<br>Clause 4.6.1.2 | -27 dBm/MHz e.i.r.p.                                                      |
| Part 15.209 / RSS-GEN<br>Clause 8.9         | Peak: 74 dBµV/m at 3m, Average 54 dBµV/m at 3m (Restricted bands > 1 GHz) |

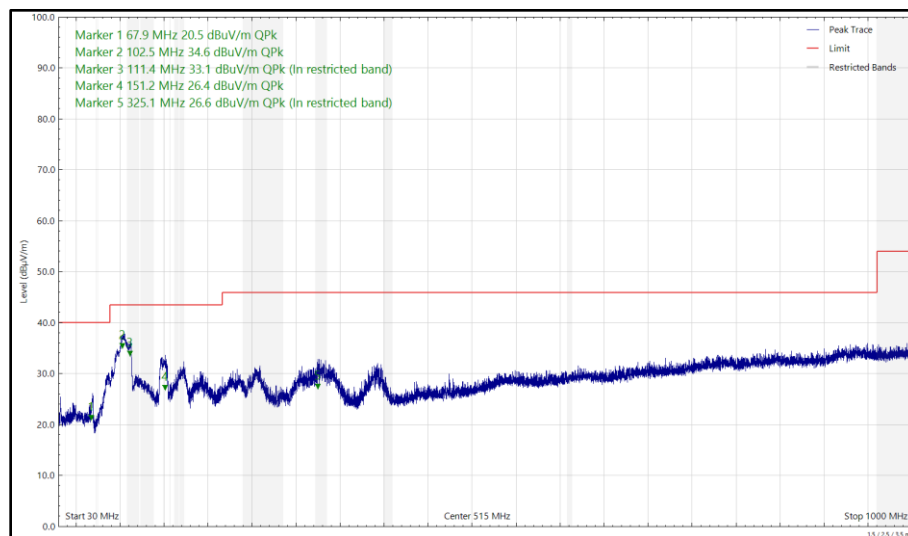
**Table 17**

## 5 GHz WLAN and Thread

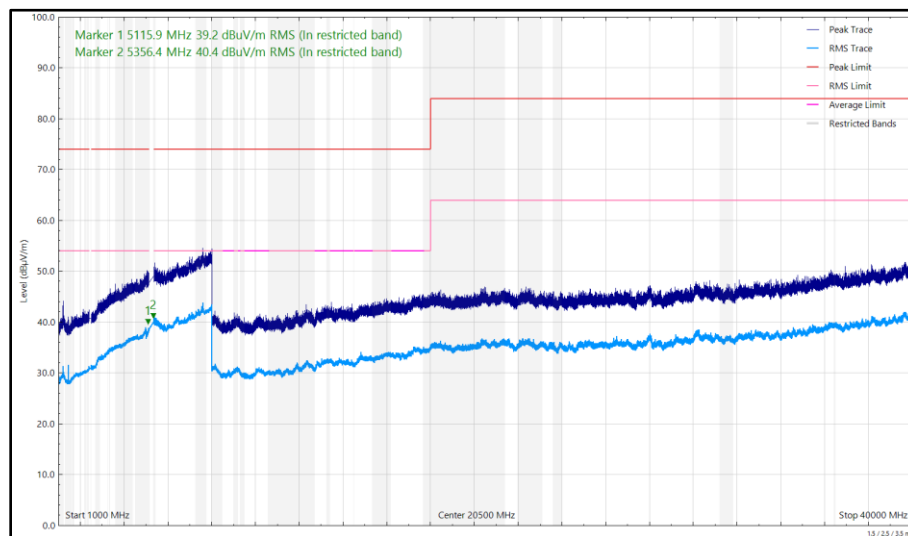
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 32.244          | 33.24                | 40.00                | -6.76       | Q-Peak   | 327       | 103         | Vertical     |
| 67.857          | 20.54                | 40.00                | -19.46      | Q-Peak   | 240       | 272         | Horizontal   |
| 102.508         | 34.63                | 43.50                | -8.87       | Q-Peak   | 176       | 304         | Horizontal   |
| 111.381         | 33.11                | 43.50                | -10.39      | Q-Peak   | 350       | 281         | Horizontal   |
| 112.321         | 32.41                | 43.50                | -11.09      | Q-Peak   | 245       | 116         | Vertical     |
| 151.199         | 26.44                | 43.50                | -17.06      | Q-Peak   | 0         | 339         | Horizontal   |
| 191.707         | 29.24                | 43.50                | -14.26      | Q-Peak   | 200       | 103         | Vertical     |
| 255.328         | 24.88                | 46.00                | -21.12      | Q-Peak   | 227       | 106         | Vertical     |
| 325.111         | 26.61                | 46.00                | -19.39      | Q-Peak   | 97        | 104         | Horizontal   |
| 4880.857        | 44.35                | 54.00                | -9.65       | RMS      | 0         | 272         | Vertical     |
| 5109.321        | 57.00                | 74.00                | -17.00      | Peak     | 350       | 291         | Vertical     |
| 5115.872        | 39.21                | 54.00                | -14.79      | RMS      | 62        | 397         | Horizontal   |
| 5119.944        | 45.74                | 54.00                | -8.26       | RMS      | 343       | 278         | Vertical     |
| 5355.547        | 46.20                | 54.00                | -7.80       | RMS      | 336       | 286         | Vertical     |
| 5356.386        | 40.44                | 54.00                | -13.56      | RMS      | 301       | 397         | Horizontal   |
| 5452.285        | 57.42                | 74.00                | -16.58      | Peak     | 27        | 279         | Vertical     |

**Table 18 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 30 MHz to 40 GHz**

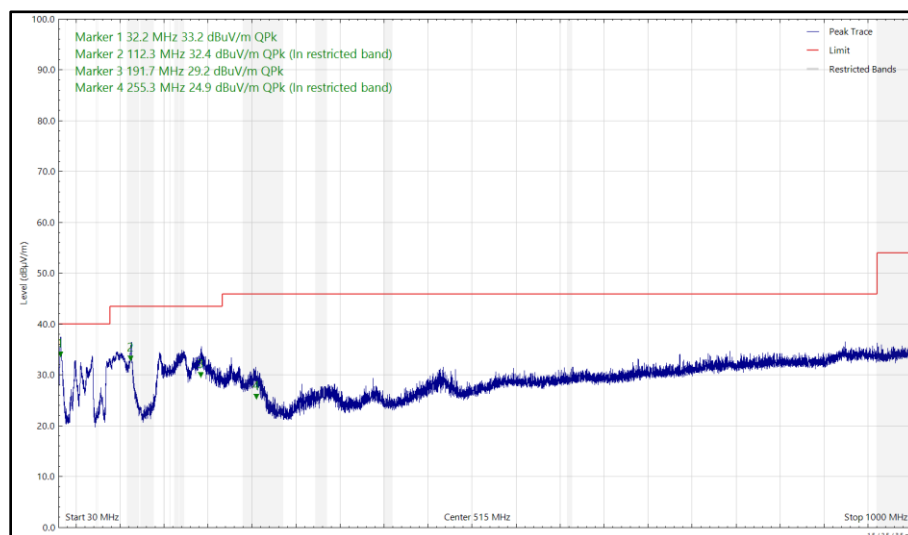
No other emissions found within 10 dB of the limit.



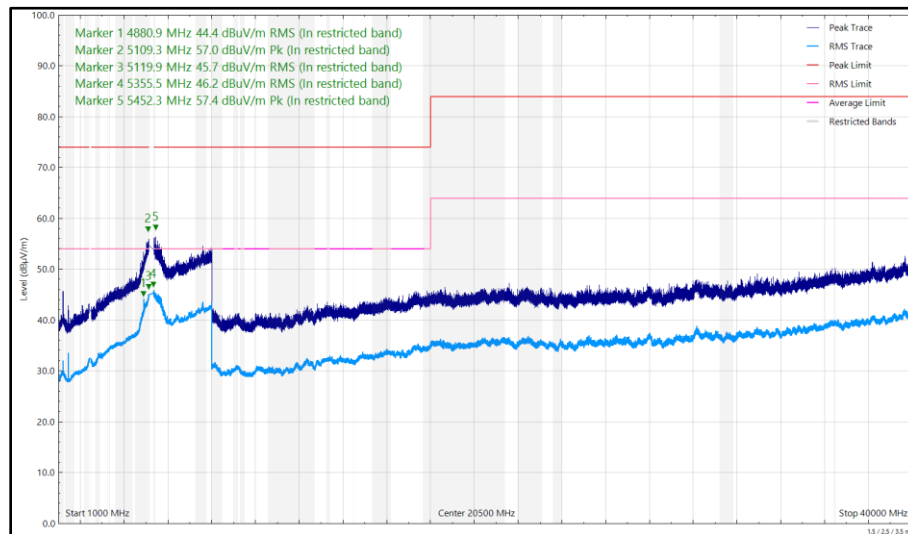
**Figure 38 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 39 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 1 GHz to 40 GHz, Horizontal**



**Figure 40 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)**

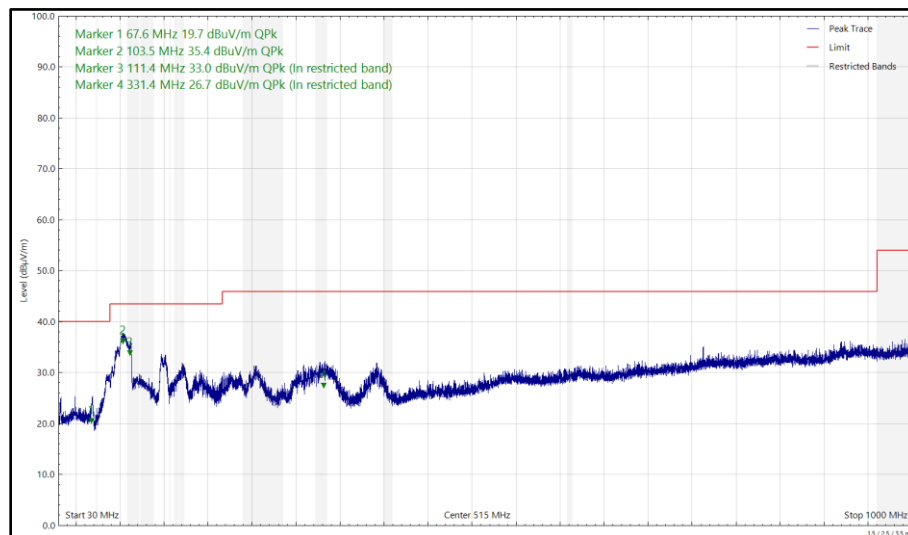


**Figure 41 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 1 GHz to 40 GHz, Vertical**

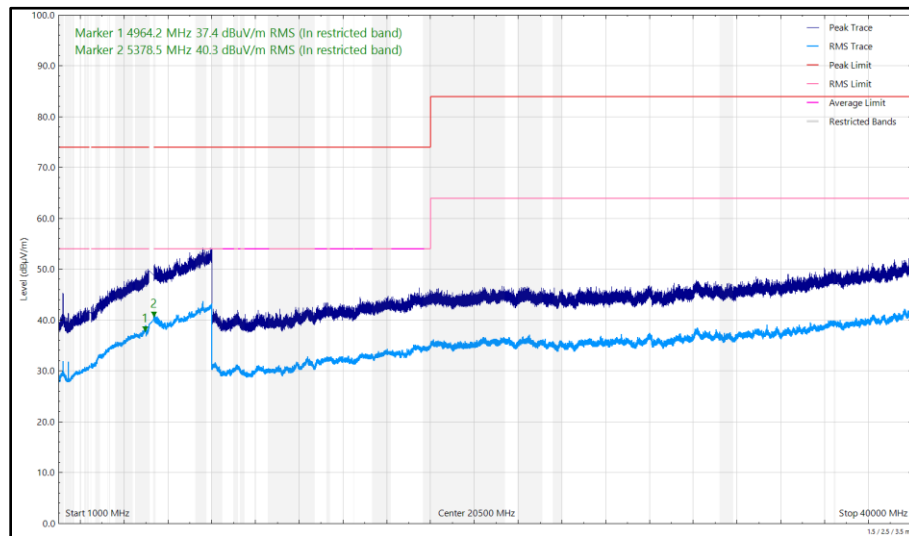
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 32.079          | 33.47                | 40.00                | -6.53       | Q-Peak   | 314       | 100         | Vertical     |
| 67.592          | 19.74                | 40.00                | -20.26      | Q-Peak   | 359       | 390         | Horizontal   |
| 103.456         | 35.35                | 43.50                | -8.15       | Q-Peak   | 0         | 294         | Horizontal   |
| 111.434         | 32.98                | 43.50                | -10.52      | Q-Peak   | 210       | 261         | Horizontal   |
| 113.009         | 30.69                | 43.50                | -12.81      | Q-Peak   | 290       | 222         | Vertical     |
| 187.021         | 28.23                | 43.50                | -15.27      | Q-Peak   | 328       | 100         | Vertical     |
| 255.862         | 25.09                | 46.00                | -20.91      | Q-Peak   | 238       | 100         | Vertical     |
| 331.420         | 26.70                | 46.00                | -19.30      | Q-Peak   | 91        | 109         | Horizontal   |
| 4879.093        | 43.47                | 54.00                | -10.53      | RMS      | 352       | 283         | Vertical     |
| 4964.180        | 37.39                | 54.00                | -16.61      | RMS      | 313       | 185         | Horizontal   |
| 4986.533        | 55.58                | 74.00                | -18.42      | Peak     | 360       | 280         | Vertical     |
| 4998.100        | 43.45                | 54.00                | -10.55      | RMS      | 360       | 280         | Vertical     |
| 5374.701        | 57.41                | 74.00                | -16.59      | Peak     | 333       | 260         | Vertical     |
| 5378.535        | 40.34                | 54.00                | -13.66      | RMS      | 72        | 385         | Horizontal   |
| 5379.285        | 45.43                | 54.00                | -8.57       | RMS      | 333       | 260         | Vertical     |

**Table 19 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 30 MHz to 40 GHz**

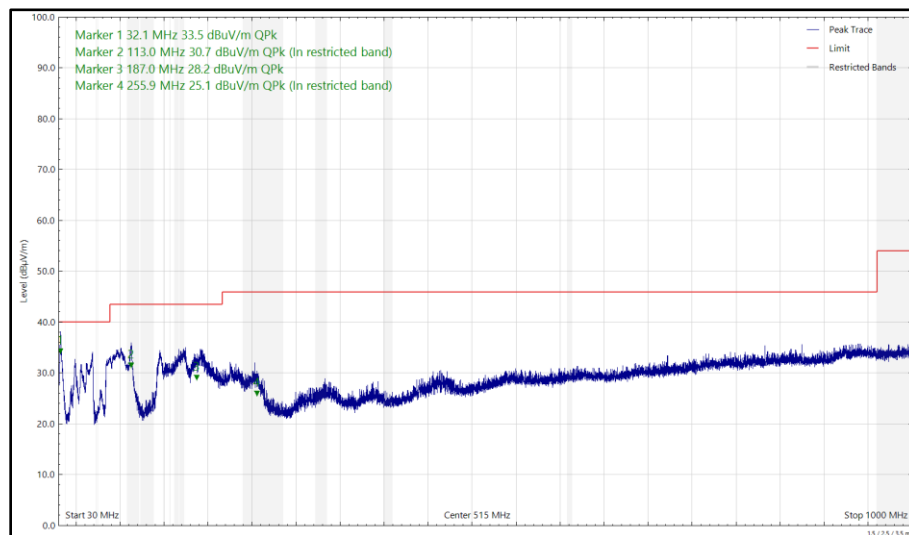
No other emissions found within 10 dB of the limit.



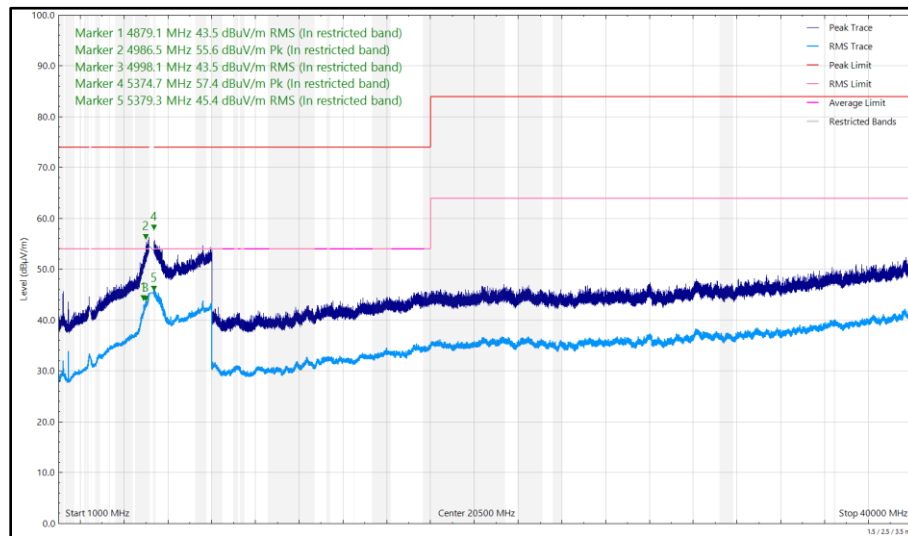
**Figure 42 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 43 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 44 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)**

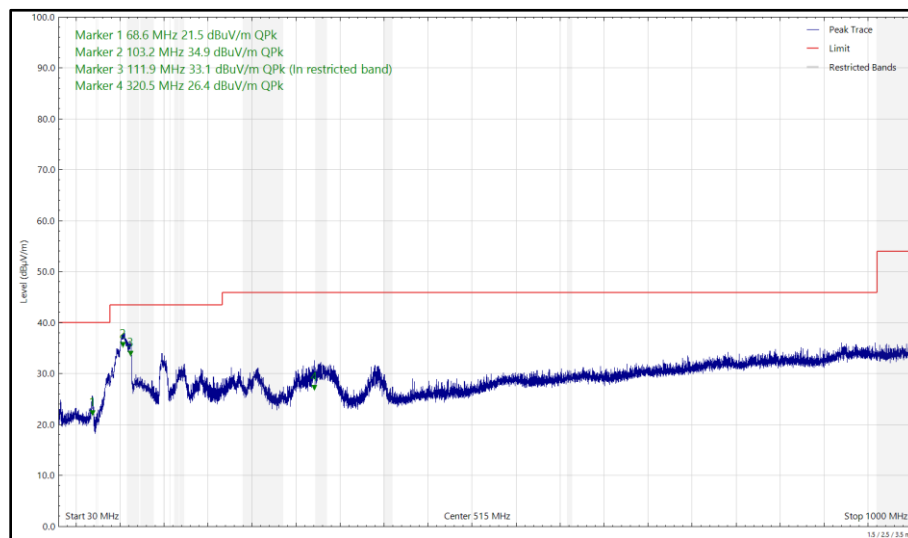


**Figure 45 - U-NII-1 - 5240 MHz (CH48), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 1 GHz to 40 GHz, Vertical**

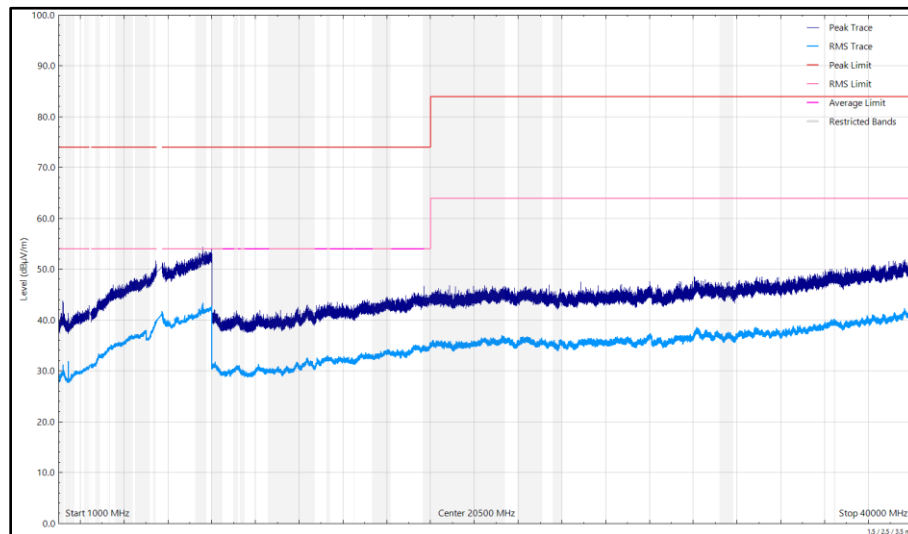
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 32.242          | 33.39          | 40.00          | -6.61       | Q-Peak   | 3         | 100         | Vertical     |
| 68.611          | 21.46          | 40.00          | -18.54      | Q-Peak   | 262       | 355         | Horizontal   |
| 103.166         | 34.88          | 43.50          | -8.62       | Q-Peak   | 352       | 292         | Horizontal   |
| 111.892         | 33.10          | 43.50          | -10.40      | Q-Peak   | 350       | 283         | Horizontal   |
| 112.588         | 31.56          | 43.50          | -11.94      | Q-Peak   | 247       | 121         | Vertical     |
| 143.926         | 30.02          | 43.50          | -13.48      | Q-Peak   | 302       | 100         | Vertical     |
| 252.019         | 24.70          | 46.00          | -21.30      | Q-Peak   | 268       | 102         | Vertical     |
| 320.539         | 26.36          | 46.00          | -19.64      | Q-Peak   | 95        | 100         | Horizontal   |
| 4880.803        | 43.31          | 54.00          | -10.69      | RMS      | 357       | 314         | Vertical     |
| 5439.961        | 43.48          | 54.00          | -10.52      | RMS      | 322       | 323         | Vertical     |
| 5444.107        | 55.28          | 74.00          | -18.72      | Peak     | 322       | 323         | Vertical     |

**Table 20 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 30 MHz to 40 GHz**

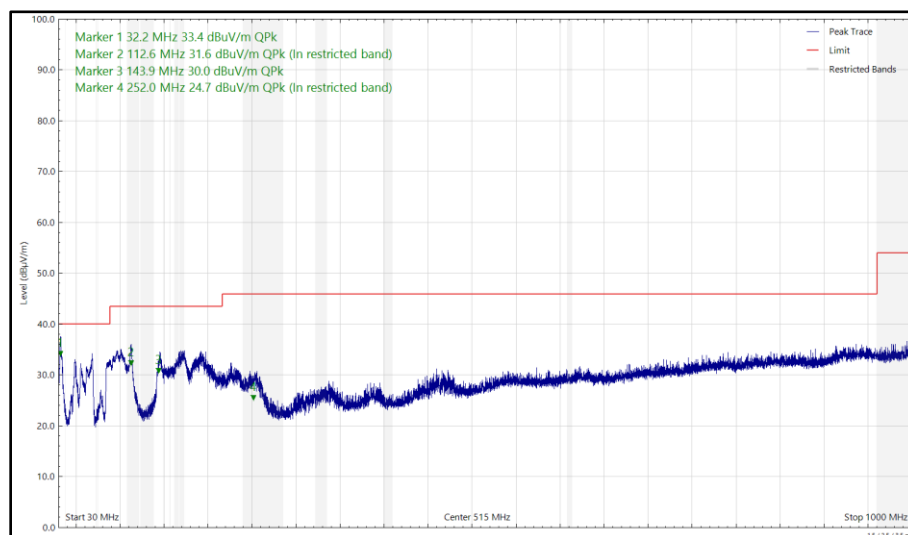
No other emissions found within 10 dB of the limit.



**Figure 46 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 47 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 1 GHz to 40 GHz, Horizontal**



**Figure 48 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)**

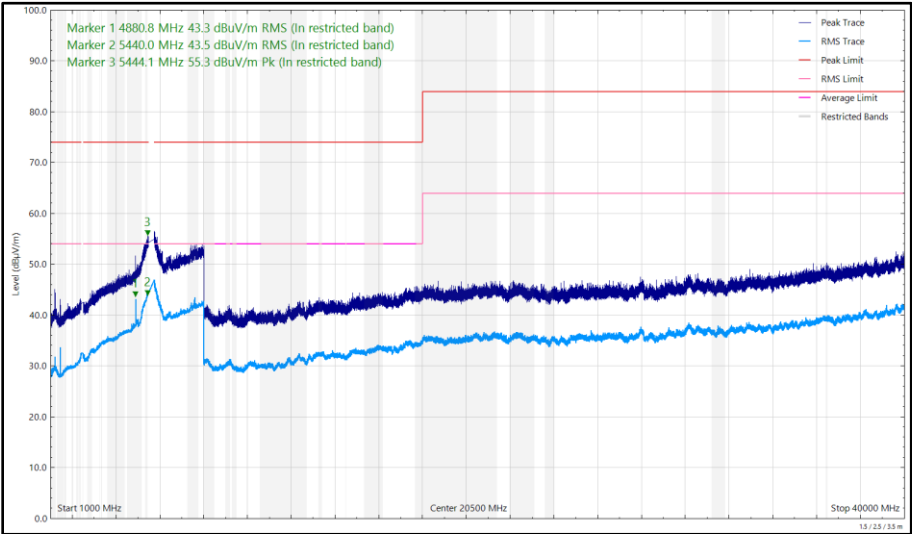
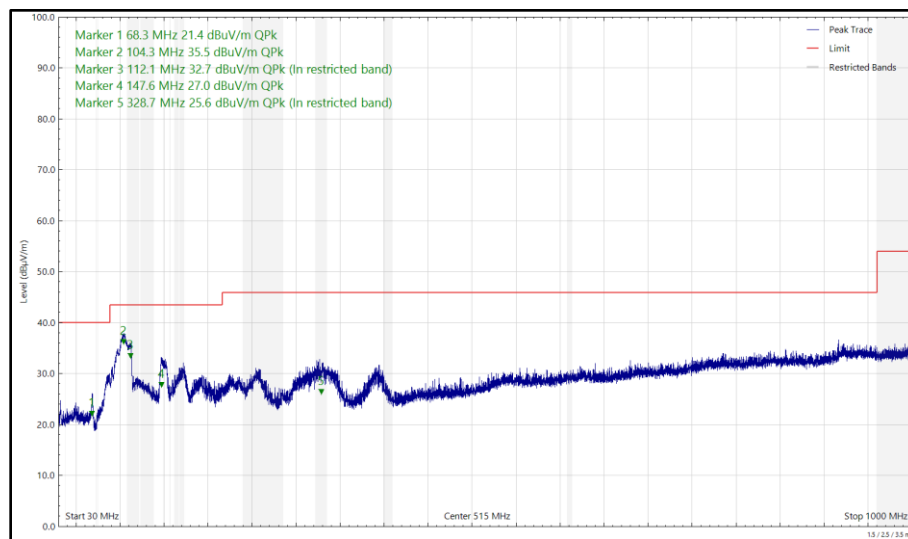


Figure 49 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 1 GHz to 40 GHz, Vertical

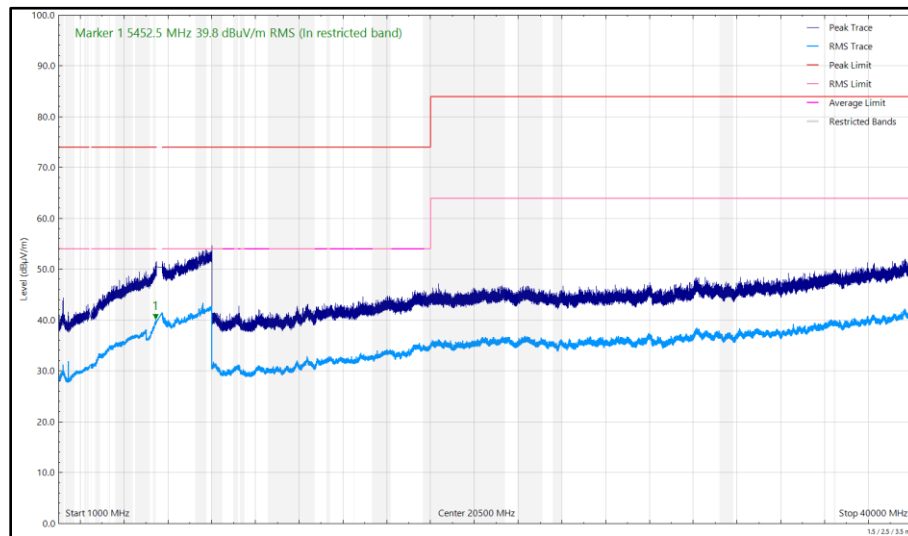
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 31.882          | 32.28          | 40.00          | -7.72       | Q-Peak   | 250       | 108         | Vertical     |
| 68.278          | 21.35          | 40.00          | -18.65      | Q-Peak   | 276       | 379         | Horizontal   |
| 104.298         | 35.45          | 43.50          | -8.05       | Q-Peak   | 0         | 298         | Horizontal   |
| 112.088         | 32.70          | 43.50          | -10.80      | Q-Peak   | 350       | 276         | Horizontal   |
| 112.588         | 32.35          | 43.50          | -11.15      | Q-Peak   | 297       | 250         | Vertical     |
| 147.633         | 27.03          | 43.50          | -16.47      | Q-Peak   | 35        | 360         | Horizontal   |
| 191.178         | 29.09          | 43.50          | -14.41      | Q-Peak   | 304       | 100         | Vertical     |
| 256.663         | 24.64          | 46.00          | -21.36      | Q-Peak   | 251       | 100         | Vertical     |
| 328.662         | 25.60          | 46.00          | -20.40      | Q-Peak   | 39        | 128         | Horizontal   |
| 4879.138        | 41.02          | 54.00          | -12.98      | RMS      | 350       | 269         | Vertical     |
| 5434.791        | 56.37          | 74.00          | -17.63      | Peak     | 326       | 284         | Vertical     |
| 5439.507        | 44.45          | 54.00          | -9.55       | RMS      | 326       | 284         | Vertical     |
| 5452.537        | 39.78          | 54.00          | -14.22      | RMS      | 302       | 366         | Horizontal   |

**Table 21 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 30 MHz to 40 GHz**

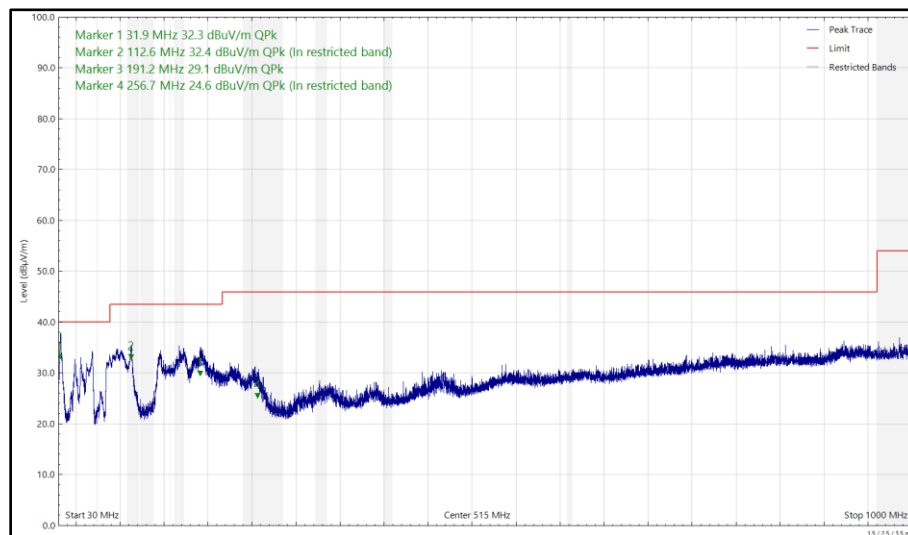
No other emissions found within 10 dB of the limit.



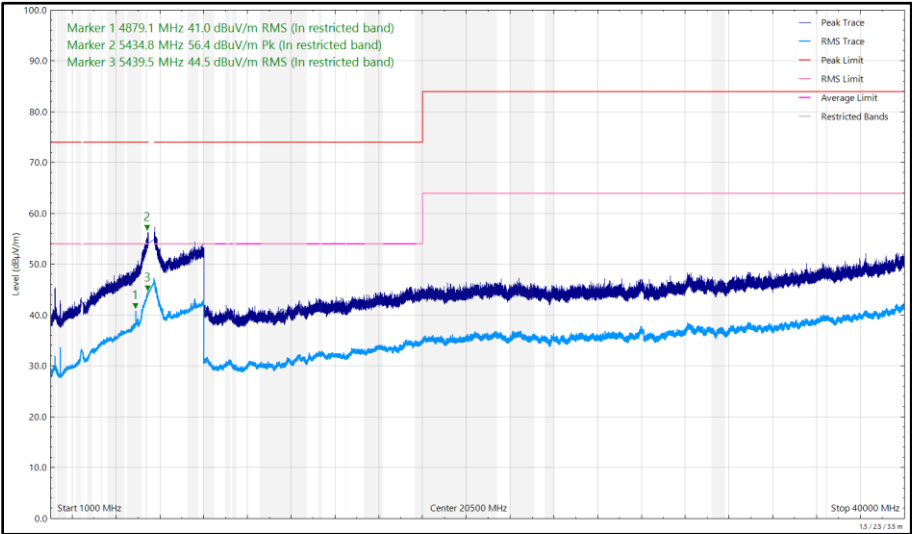
**Figure 50 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 51 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 52 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)**

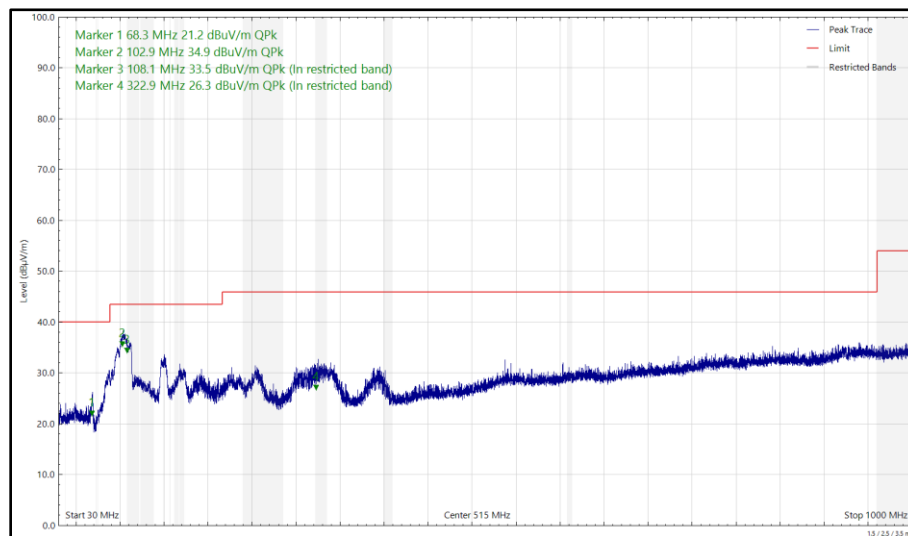


**Figure 53 - U-NII-2C - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 1, 1 GHz to 40 GHz, Vertical**

| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 32.404          | 33.10          | 40.00          | -6.90       | Q-Peak   | 233       | 100         | Vertical     |
| 68.314          | 21.16          | 40.00          | -18.84      | Q-Peak   | 236       | 346         | Horizontal   |
| 102.931         | 34.89          | 43.50          | -8.61       | Q-Peak   | 0         | 267         | Horizontal   |
| 108.082         | 33.54          | 43.50          | -9.96       | Q-Peak   | 4         | 296         | Horizontal   |
| 112.955         | 31.69          | 43.50          | -11.81      | Q-Peak   | 238       | 110         | Vertical     |
| 144.762         | 29.94          | 43.50          | -13.56      | Q-Peak   | 316       | 110         | Vertical     |
| 252.493         | 25.11          | 46.00          | -20.89      | Q-Peak   | 297       | 100         | Vertical     |
| 322.904         | 26.25          | 46.00          | -19.75      | Q-Peak   | 96        | 100         | Horizontal   |
| 4880.808        | 44.39          | 54.00          | -9.61       | RMS      | 0         | 246         | Vertical     |
| 5398.256        | 42.32          | 54.00          | -11.68      | RMS      | 328       | 303         | Vertical     |
| 5399.290        | 54.56          | 74.00          | -19.44      | Peak     | 328       | 303         | Vertical     |
| 5452.114        | 38.74          | 54.00          | -15.26      | RMS      | 307       | 389         | Horizontal   |

**Table 22 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 54 - U-NII-3 - 5785 MHz (CH157), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)**