

FCC and ISED Test Report

Apple Inc
Model: A3545



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)

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

TUV SUD
SERVICES
(UK)
LIMITED

Digitally signed
by TUV SUD
SERVICES (UK)
LIMITED
Date: 2026.07.09
15:24:17 +01'00'

FCC ID: BCGA3545

IC: 579C-A3545

COMMERCIAL-IN-CONFIDENCE

Document 75966525-21 Issue 01



SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steven White	Senior Technical Specialist	Authorised Signatory	09 July 2026

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 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	09 July 2026	

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: 2024, ISED RSS-247: Issue 4 (2025-07), ISED RSS-248: Issue 3 (2024-10) and ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02) for the tests detailed in section 1.3.



DISCLAIMER AND COPYRIGHT

This non-binding report has been prepared by TÜV SÜD with all reasonable skill and care. The document is confidential to the potential Client and TÜV SÜD. No part of this document may be reproduced without the prior written approval of TÜV SÜD. © 2026 TÜV SÜD. This report relates only to the actual item/items tested.

ACCREDITATION

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation. Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited). Results of tests covered by our Flexible UKAS Accreditation Schedule are marked FS (Flexible Scope).

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

TÜV SÜD Ltd is a
TÜV SÜD Group Company

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

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



Contents

1 Report Summary2

1.1 Report Modification Record.....2

1.2 Introduction.....2

1.3 Brief Summary of Results3

1.4 Product Information6

1.5 Deviations from the Standard.....6

1.6 Identification of the EUT6

1.7 EUT Modification Record6

1.8 Test Location.....7

2 Test Details9

2.1 Radiated Spurious Emissions (Simultaneous Transmission)9

3 Measurement Uncertainty59



1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	09 July 2026

Table 1

1.2 Introduction

Applicant	Apple Inc
Manufacturer	Apple Inc
EUT/Sample Identification	Refer to section 1.6
Test Specification/Issue/Date	FCC 47 CFR Part 15: 2024 ISED RSS-247: Issue 4 (2025-07) ISED RSS-248: Issue 3 (2024-10) ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02)
Start of Test	14-May-2026
Finish of Test	29-May-2026
Name of Engineer(s)	Zeeshan Zia, Ahmed Al Derdiri, Nathan Ocom, Gridi Bilali, Morsalin Hossain.
Related Document(s)	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03



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) & 15.407(b)	5.5 & 6.2	-	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01
Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth							
2.1	15.209, 15.247(d) & 15.407(b)	6.6	4.6.2	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03
Configuration and Mode: 5 GHz WLAN and Thread							
2.1	15.209, 15.247(d) & 15.407(b)	6.6 and 7.3	-	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01
Configuration and Mode: 6 GHz WLAN and Thread							
2.1	15.209, 15.247(d) & 15.407(b)	6.6	4.6.2	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03



Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz Narrowband							
2.1	15.209, 15.247(d) & 15.407(b)	6.6 and 7.3	-	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a- 2024 KDB 789033 D02 v02r01
Configuration and Mode: 2.4 GHz WLAN and Thread and 5 GHz Narrowband							
2.1	15.209, 15.247(d) & 15.407(b)	6.6 and 7.3	-	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a- 2024 KDB 789033 D02 v02r01
Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz WLAN							
2.1	15.209, 15.247(d) & 15.407(b)	6.6 and 7.3		6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a- 2024 KDB 789033 D02 v02r01
Configuration and Mode: 2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz WLAN							
2.1	15.209, 15.247(d) & 15.407(b)	6.6	4.6.2	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a- 2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03
Configuration and Mode: 2.4 GHz WLAN and Thread and 5 GHz WLAN							
2.1	15.209, 15.247(d) & 15.407(b)	6.6 and 7.3	-	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a- 2024 KDB 789033 D02 v02r01



Configuration and Mode: 2.4 GHz WLAN and Thread and 6 GHz WLAN							
2.1	15.209, 15.247(d) & 15.407(b)	6.6	4.6.2	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a- 2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03
Configuration and Mode: 2.4 GHz Bluetooth and Narrowband							
2.1	15.247(d) & 15.407(b)	6.6 and 7.3	-	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a- 2024 KDB 789033 D02 v02r01 KDB 987594 D02 v03
Configuration and Mode: Thread and Narrowband							
2.1	15.247(d) & 15.407(b)	6.6 and 7.3	-	6.13 & 8.9	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a- 2024 KDB 789033 D02 v02r01

Table 2



1.4 Product Information

1.4.1 Technical Description

The equipment under test (EUT) was a desktop 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: A3545		
Serial Number	Hardware Version	Software Version
CQ4KHF6M2W	REV1.0	26A322
M9TDL77966	REV1.0	26A285

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: A3545, Serial Number: M9TDL77966			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3545, Serial Number: CQ4KHF6M2W			
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)	Zeeshan Zia, Ahmed Al Dirdiri, Nathan Ocom, Gridi Bilali	UKAS
Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia, Ahmed Al Dirdiri, Nathan Ocom and Gridi Bilali	UKAS
Configuration and Mode: 5 GHz WLAN and Thread		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia, Ahmed Al Dirdiri and Gridi Bilali	UKAS
Configuration and Mode: 6 GHz WLAN and Thread		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia, Ahmed Al Dirdiri, Morsalin Hossain, Gridi Bilali	UKAS
Configuration and Mode: 2.4 GHz WLAN, 2.4 GHz Bluetooth and 5 GHz Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia, Ahmed Al Dirdiri, Morsalin Hossain, Gridi Bilali	UKAS
Configuration and Mode: 2.4 GHz WLAN, Thread and 5 GHz Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia, Gridi Bilali, Morsalin Hossain	UKAS
Configuration and Mode: 2.4 GHz WLAN, 2.4 GHz Bluetooth and 5 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Gridi Bilali, Morsalin Hossain, Zeeshan Zia	UKAS
Configuration and Mode: 2.4 GHz WLAN, 2.4 GHz Bluetooth and 6 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Gridi Bilali, Morsalin Hossain, Zeeshan Zia	UKAS
Configuration and Mode: 2.4 GHz WLAN, Thread and 5 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Gridi Bilali, Morsalin Hossain, Zeeshan Zia	UKAS
Configuration and Mode: 2.4 GHz WLAN, Thread and 6 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Gridi Bilali, Zeeshan Zia	UKAS
Configuration and Mode: 2.4 GHz Bluetooth and Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia and Ahmed Al Dirdiri	UKAS
Configuration and Mode: Thread and Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Zeeshan Zia, Ahmed Al Dirdiri, Morsalin Hossain	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 6.6 and 7.3
ISED RSS-248, Clause 4.6
ISED RSS-GEN, Clause 6.13 and 8.9

2.1.2 Equipment Under Test and Modification State

A3545, S/N: CQ4KHF6M2W - Modification State 0
A3545, S/N: M9TDL77966 - Modification State 0

2.1.3 Date of Test

14-May-2026 to 29-May-2026

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.

Radiated spurious emissions tests have been conducted in DH5 (high power) mode for Narrowband technology as this represents the worst case with respect to Power and PSD.

2.1.5 Example Test Setup Diagram

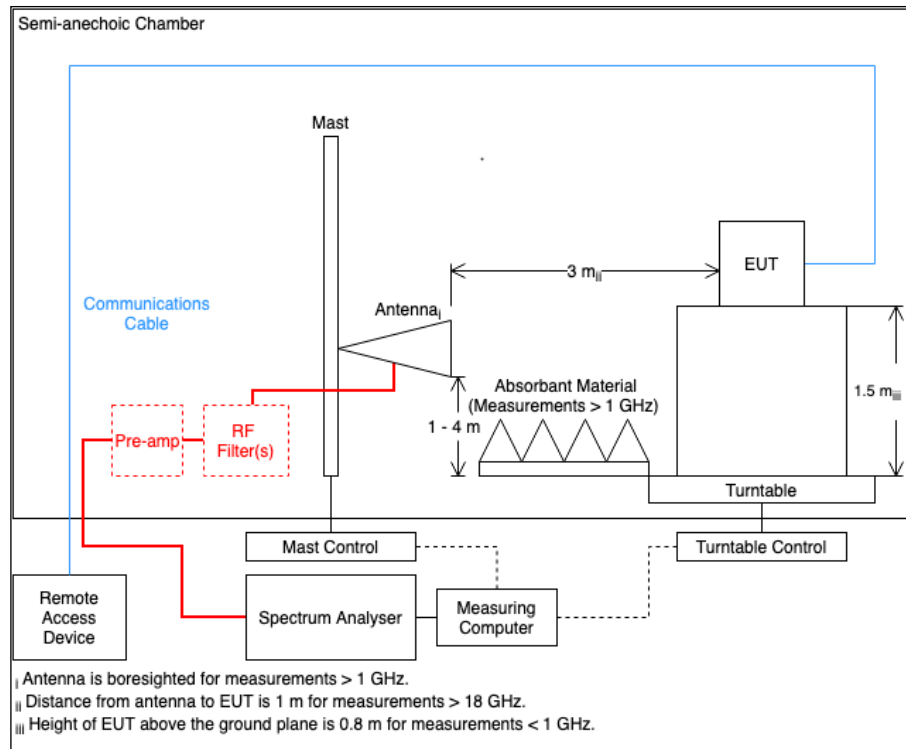


Figure 1

2.1.6 Environmental Conditions

Ambient Temperature	19.2 - 27.9 °C
Relative Humidity	27.9 - 41.3 %

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
31.137	26.08	40.00	-13.92	Q-Peak	0	110	Horizontal
31.347	32.21	40.00	-7.79	Q-Peak	214	102	Vertical
38.082	21.43	40.00	-18.57	Q-Peak	287	273	Vertical
2388.301	31.31	54.00	-22.69	CISPR Avg	0	117	Vertical
2483.524	30.69	54.00	-23.31	CISPR Avg	9	101	Vertical
5446.950	35.30	54.00	-18.70	CISPR Avg	5	361	Horizontal
5458.874	38.39	54.00	-15.61	CISPR Avg	357	139	Vertical

Table 6 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

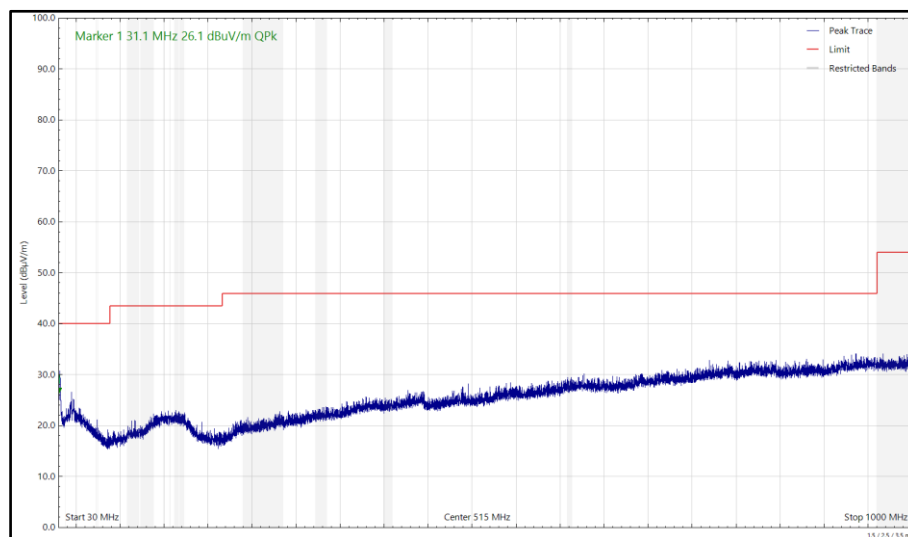


Figure 2 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

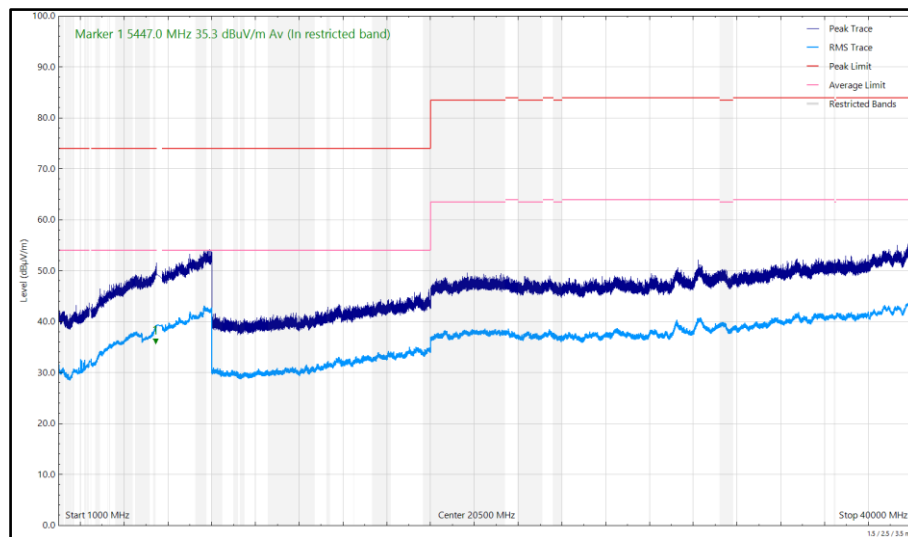


Figure 3 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

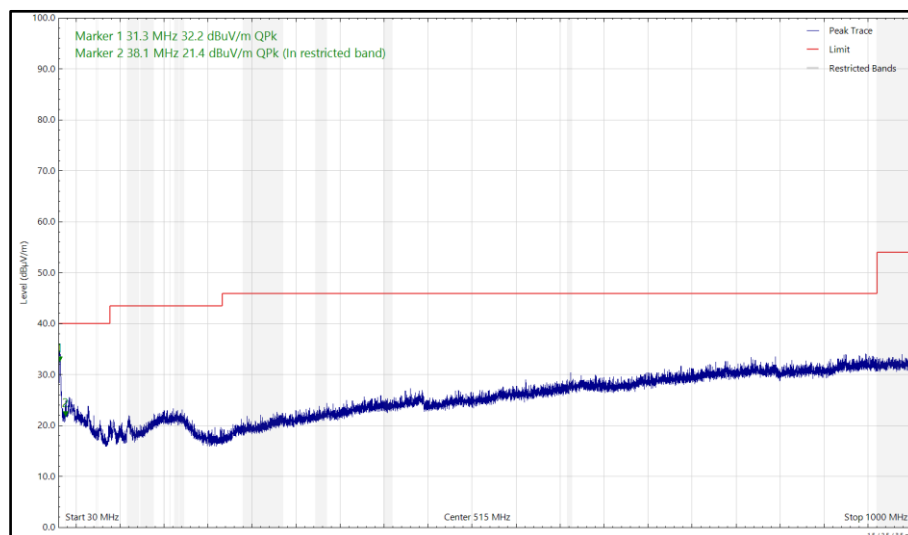


Figure 4 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

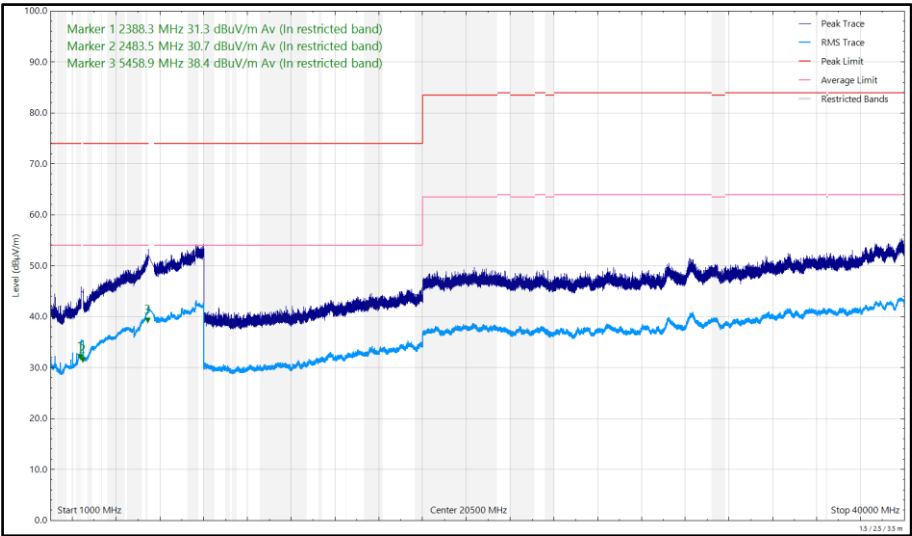


Figure 5 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-20 dBc
Part 15.407 (b) / RSS-247 Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBμV/m at 3m, Average 54 dBμV/m at 3m (Restricted bands > 1 GHz)

Table 7

6 GHz WLAN and 2.4 GHz Bluetooth

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.238	25.97	40.00	-14.03	Q-Peak	26	117	Horizontal
31.352	32.41	40.00	-7.59	Q-Peak	110	102	Vertical
37.906	21.16	40.00	-18.84	Q-Peak	238	377	Vertical
74.363	18.60	40.00	-21.40	Q-Peak	182	340	Horizontal
2389.764	30.96	54.00	-23.04	CISPR Avg	3	118	Vertical
2483.511	30.71	54.00	-23.29	CISPR Avg	359	363	Vertical

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

No other emissions found within 20 dB of the limit.

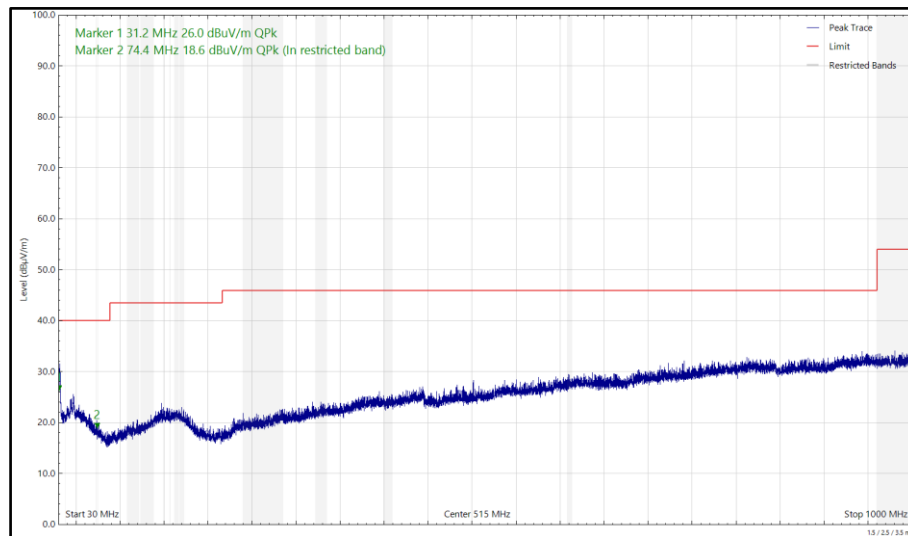


Figure 6 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

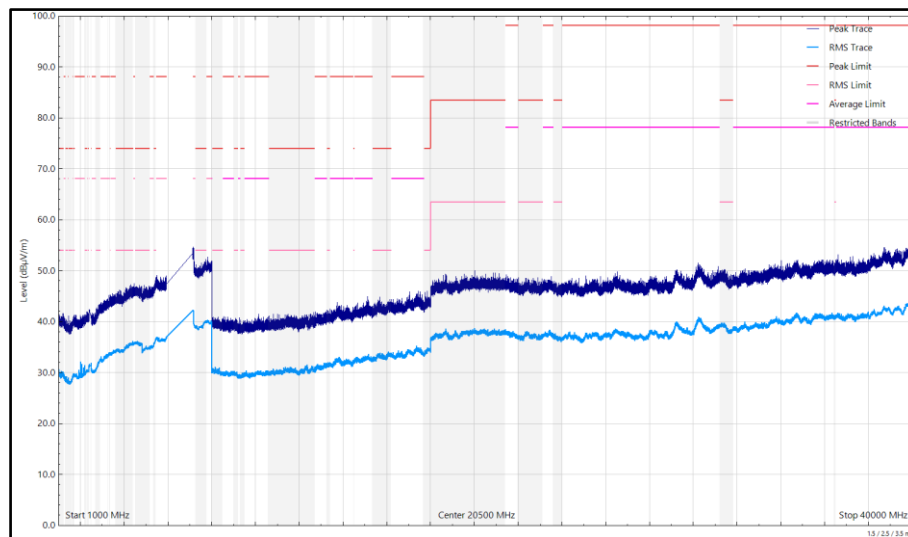


Figure 7 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

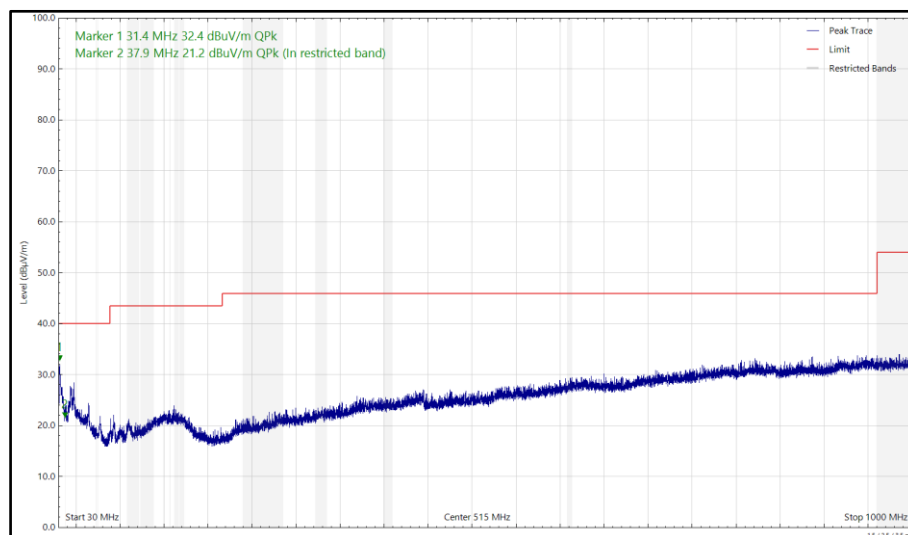


Figure 8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

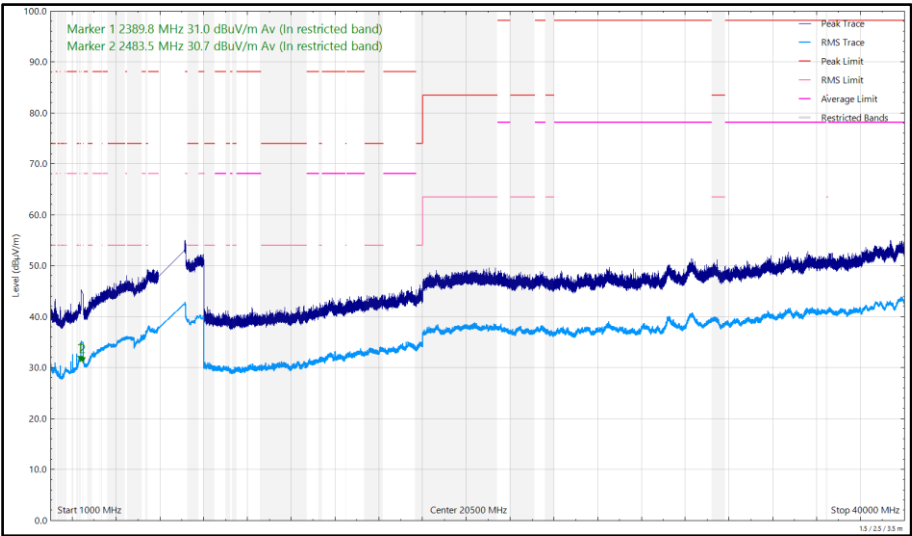


Figure 9 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz (CH39), DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-20 dBc
Part 15.407 (b) / RSS-248 Clause 4.6.2	Peak: -7 dBm/MHz e.i.r.p, Average: -27 dBm/MHz e.i.r.p.
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz)

Table 9

5 GHz WLAN and Thread

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.137	32.40	40.00	-7.60	Q-Peak	78	110	Vertical
31.507	23.00	40.00	-17.00	Q-Peak	121	132	Horizontal
37.505	21.11	40.00	-18.89	Q-Peak	315	399	Vertical
37.880	21.10	40.00	-18.90	Q-Peak	283	372	Horizontal
2389.792	34.93	54.00	-19.07	RMS	262	233	Vertical
2484.085	33.58	54.00	-20.42	RMS	255	173	Vertical
5354.594	40.48	54.00	-13.52	RMS	272	353	Vertical
5448.586	38.65	54.00	-15.35	RMS	347	114	Horizontal

Table 10 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

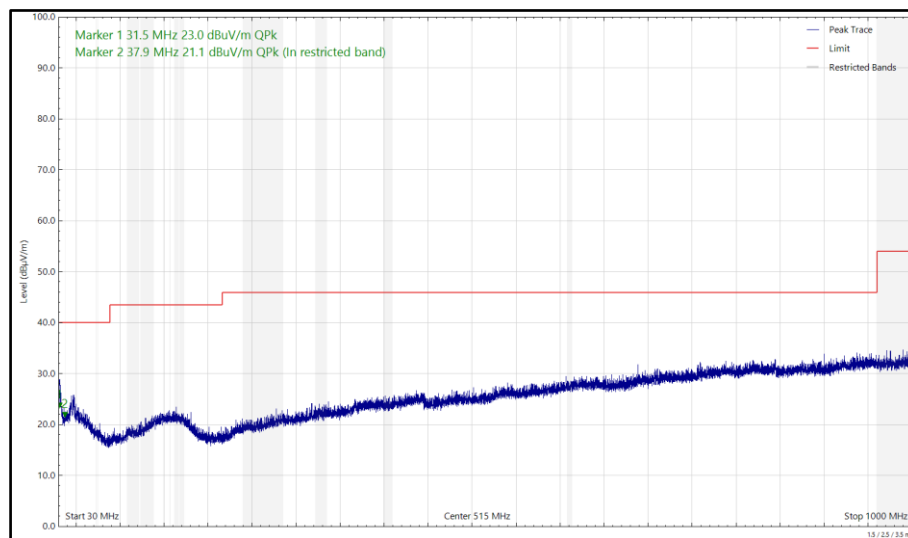


Figure 10 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

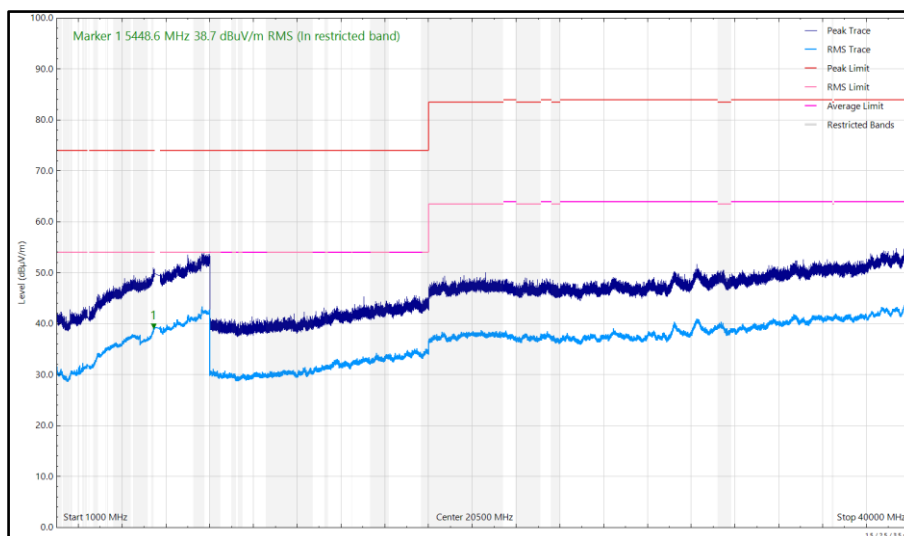


Figure 11 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

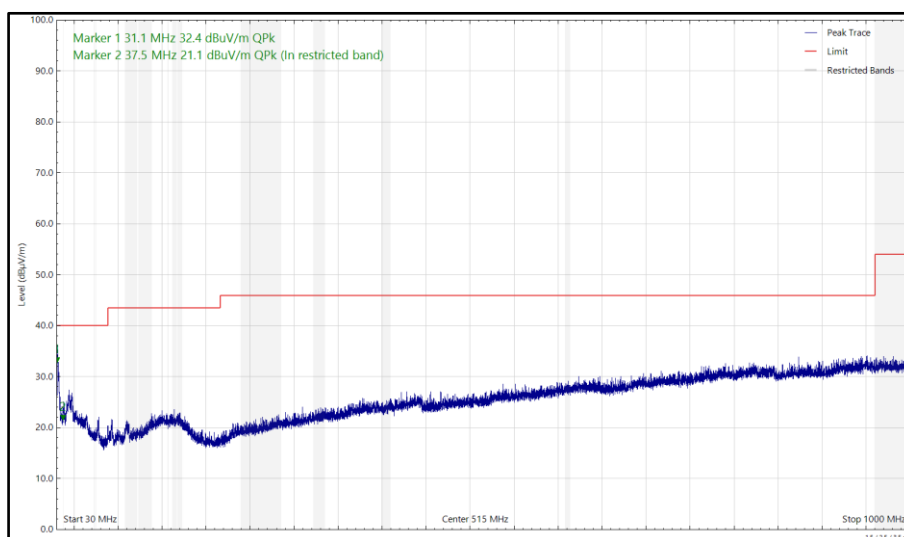


Figure 12 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

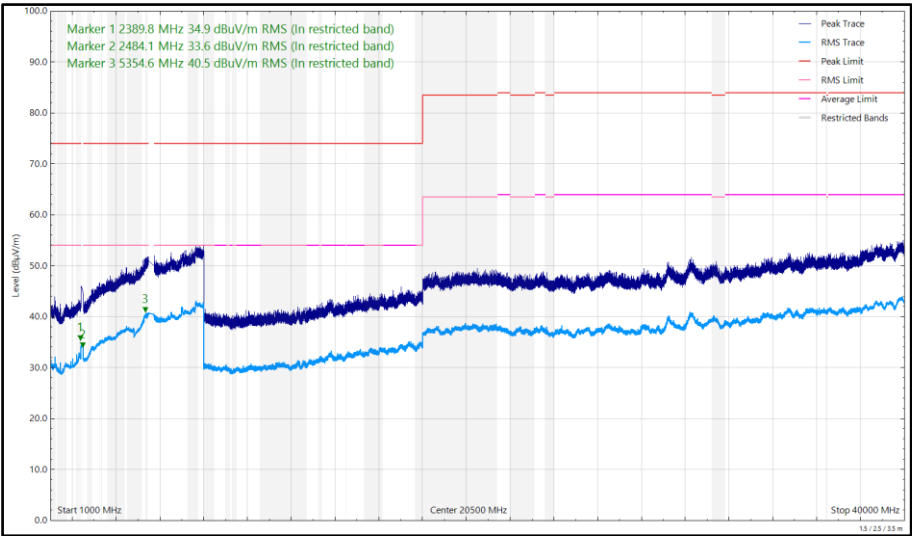


Figure 13 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.332	31.98	40.00	-8.02	Q-Peak	188	100	Vertical
31.353	24.67	40.00	-15.33	Q-Peak	24	110	Horizontal
37.635	21.07	40.00	-18.93	Q-Peak	360	305	Horizontal
42.219	21.71	40.00	-18.29	Q-Peak	81	111	Vertical
2389.719	35.19	54.00	-18.81	RMS	345	345	Vertical
2484.160	35.42	54.00	-18.58	RMS	352	151	Vertical
5352.032	39.41	54.00	-14.59	RMS	290	379	Vertical
5455.423	38.95	54.00	-15.05	RMS	150	100	Horizontal

Table 11 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

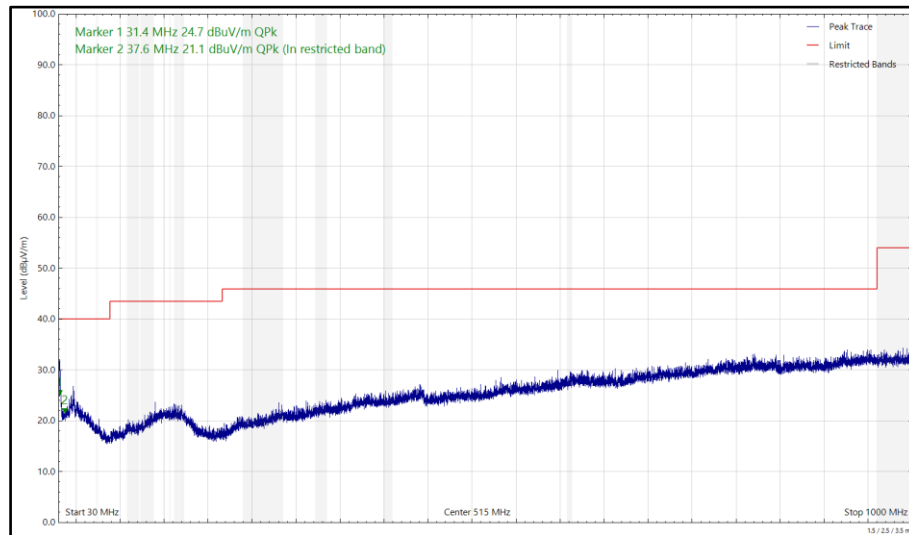
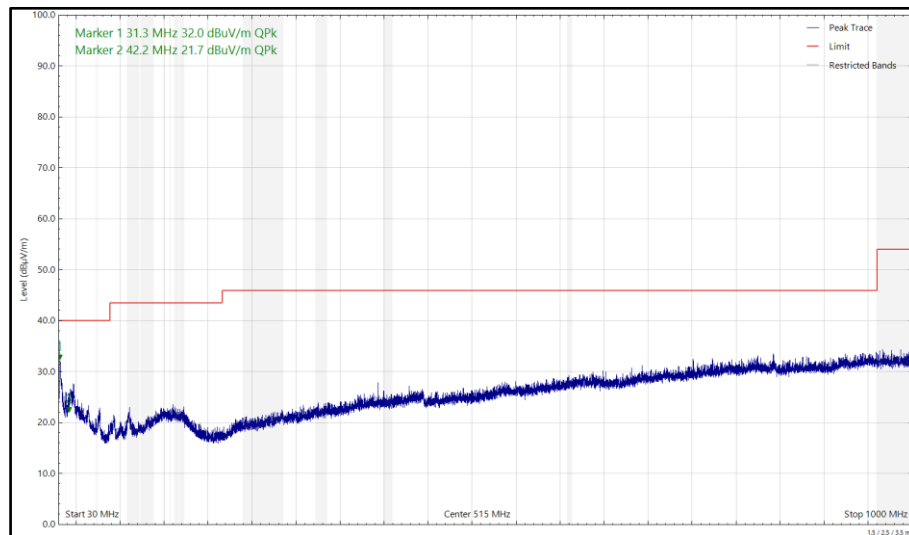
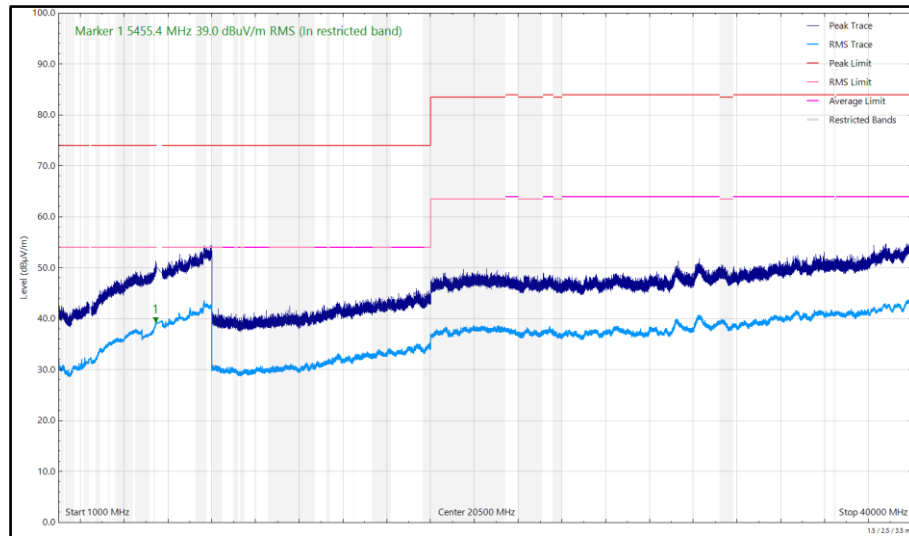


Figure 14 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)



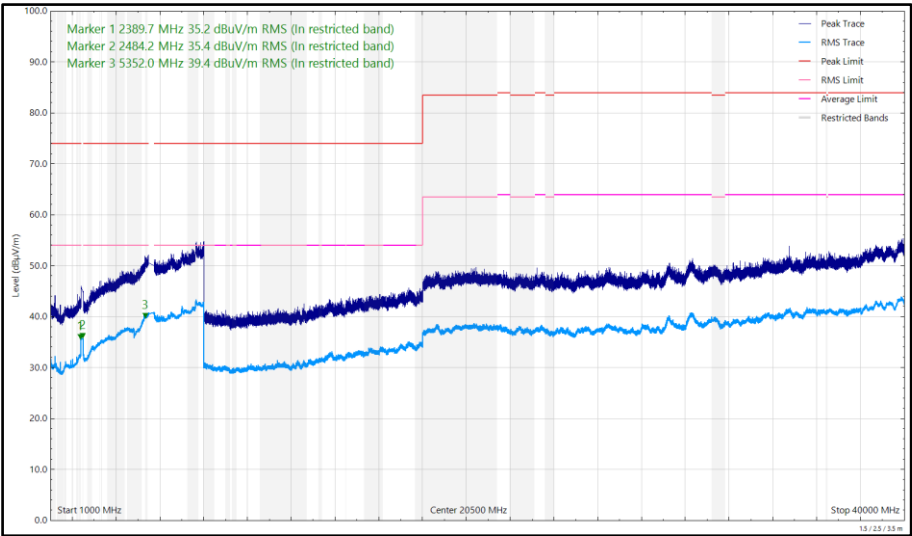


Figure 17 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-30 dBc
Part 15.407 (b) / RSS-247 Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz)

Table 12

6 GHz WLAN and Thread

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.272	32.40	40.00	-7.60	Q-Peak	234	100	Vertical
31.353	23.57	40.00	-16.43	Q-Peak	308	105	Horizontal
37.646	21.09	40.00	-18.91	Q-Peak	189	370	Horizontal
38.171	22.02	40.00	-17.98	Q-Peak	117	128	Vertical
2484.568	34.47	54.00	-19.53	RMS	258	243	Vertical
5148.453	35.19	54.00	-18.81	RMS	76	149	Vertical
5149.823	34.69	54.00	-19.31	RMS	340	327	Horizontal
5456.081	36.89	54.00	-17.11	RMS	35	107	Vertical
5459.149	36.28	54.00	-17.72	RMS	350	256	Horizontal

Table 13 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

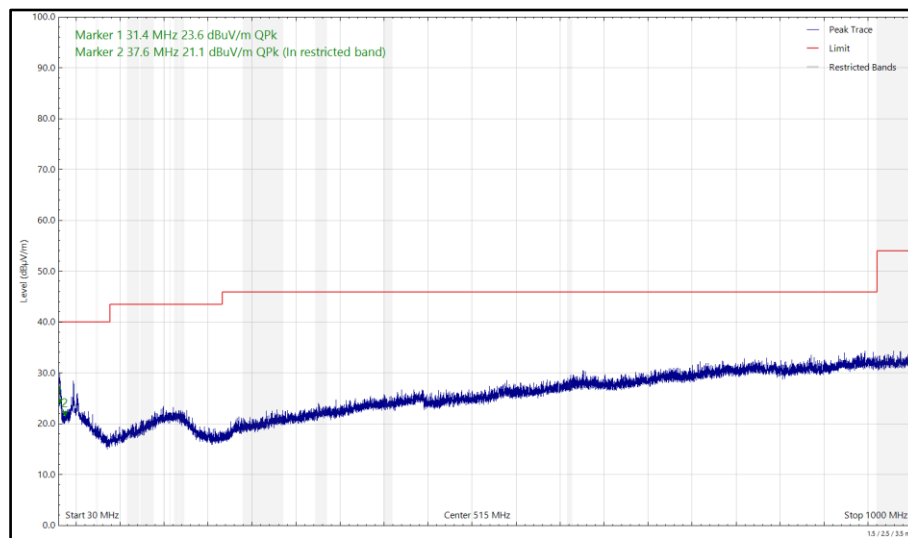


Figure 18 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

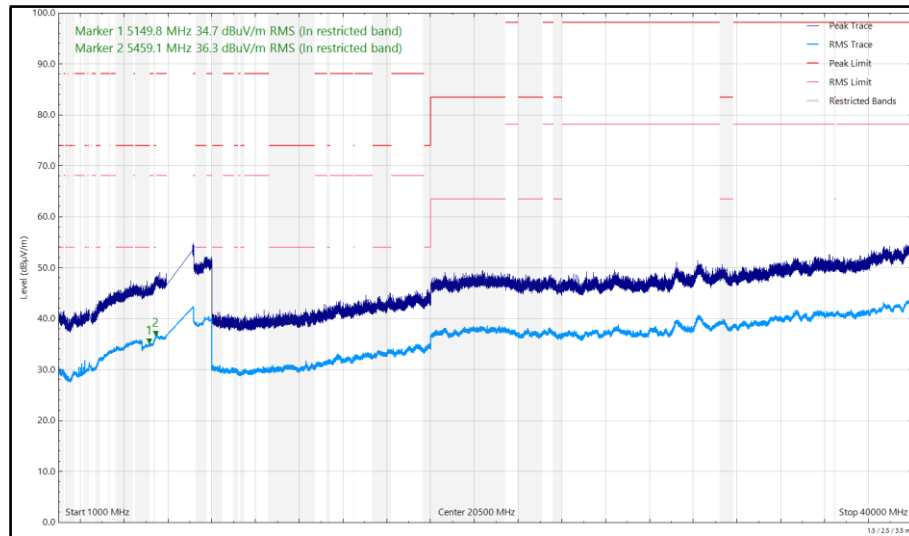


Figure 19 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

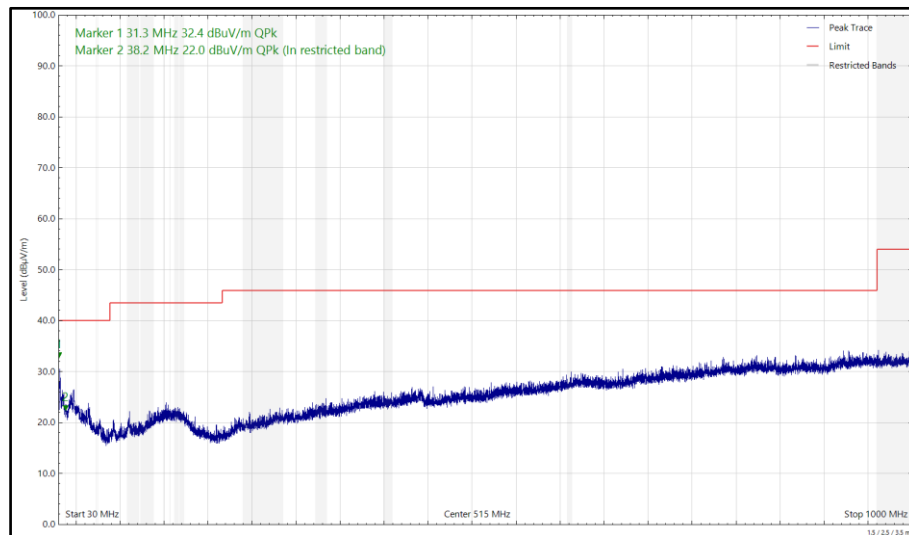


Figure 20 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

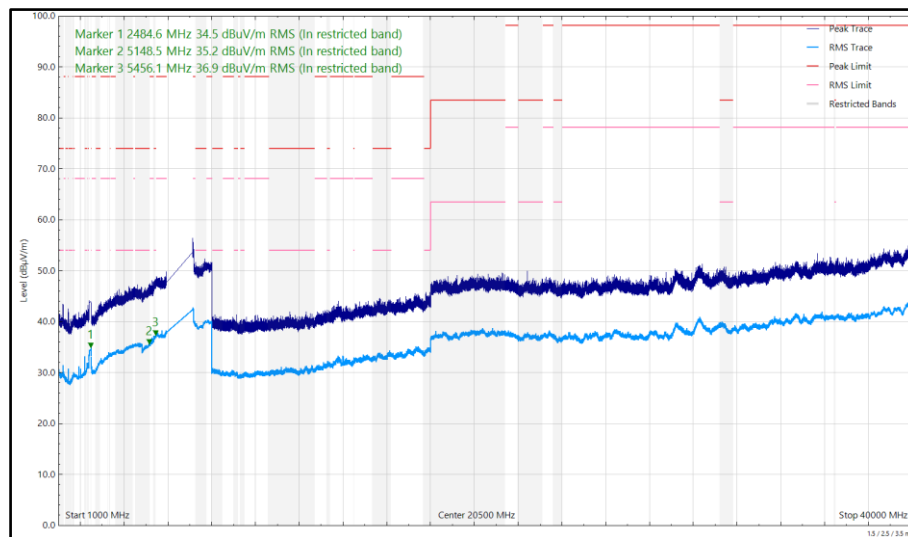


Figure 21 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.107	24.09	40.00	-15.91	Q-Peak	217	100	Horizontal
31.205	32.86	40.00	-7.14	Q-Peak	144	107	Vertical
37.709	21.12	40.00	-18.88	Q-Peak	32	250	Horizontal
41.257	21.47	40.00	-18.53	Q-Peak	320	100	Vertical
2389.862	35.06	54.00	-18.94	RMS	351	237	Vertical
2484.617	35.36	54.00	-18.64	RMS	350	157	Vertical
5147.495	34.71	54.00	-19.29	RMS	160	358	Horizontal
5149.467	36.09	54.00	-17.91	RMS	350	104	Vertical
5458.759	36.87	54.00	-17.13	RMS	206	146	Vertical
5459.483	36.30	54.00	-17.70	RMS	94	243	Horizontal

Table 14 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

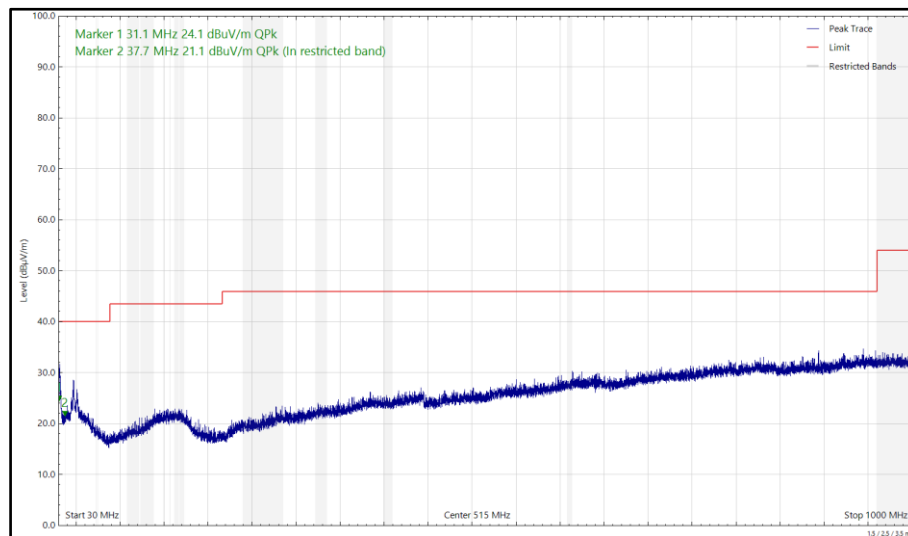


Figure 22 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

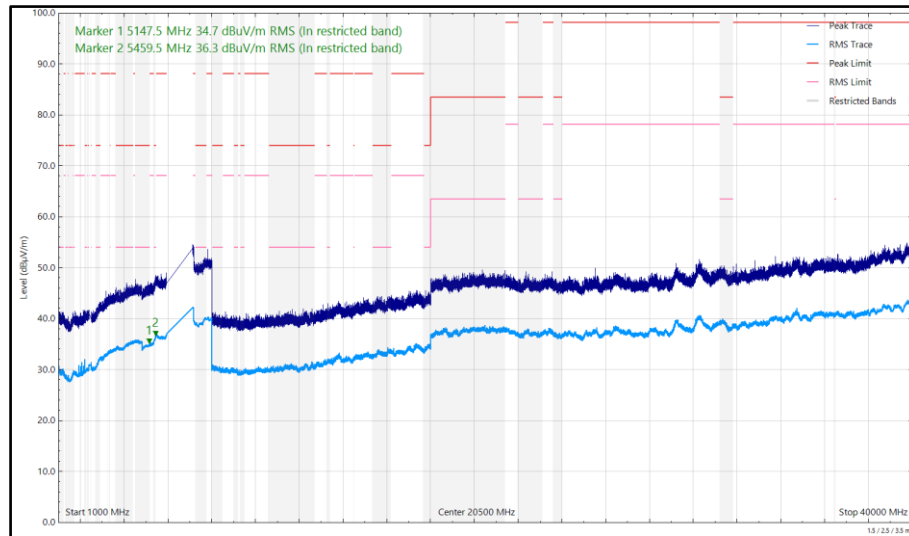


Figure 23 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

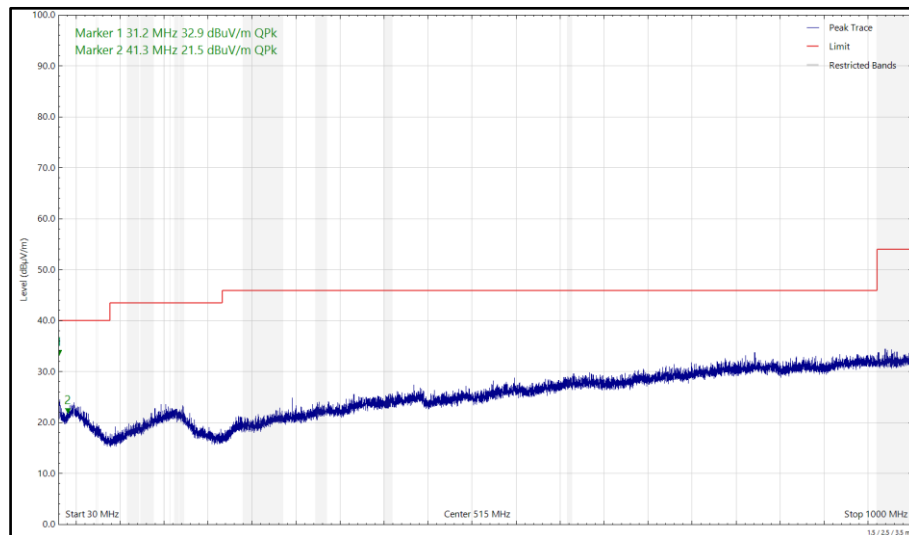


Figure 24 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

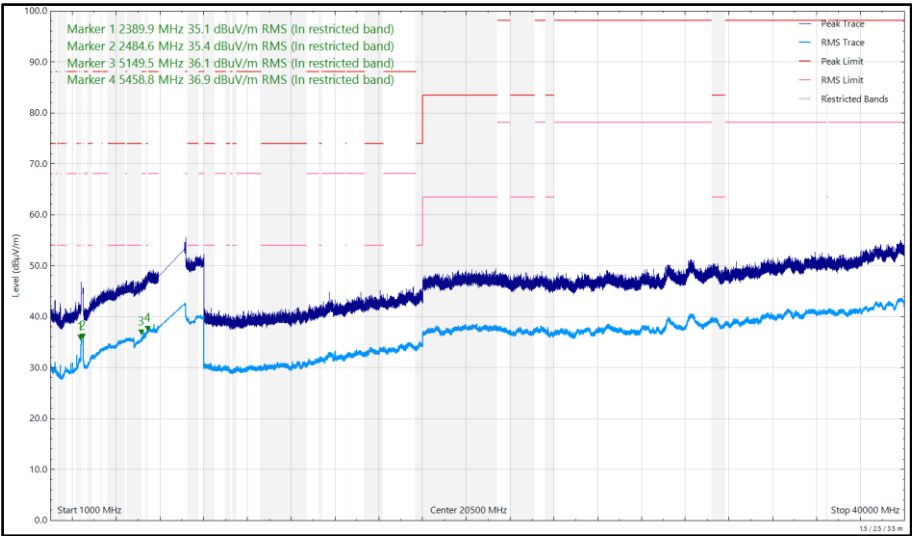


Figure 25 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-30 dBc
Part 15.407 (b) / RSS-248 Clause 4.6.2	Peak: -7 dBm/MHz e.i.r.p, Average: -27 dBm/MHz e.i.r.p.
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz)

Table 15

2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz Narrowband

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.983	21.12	40.00	-18.88	Q-Peak	236	331	Horizontal
38.087	21.69	40.00	-18.31	Q-Peak	191	201	Vertical
2385.343	29.61	54.00	-24.39	CISPR Avg	63	398	Horizontal
2388.544	37.66	54.00	-16.34	CISPR Avg	0	358	Vertical
2399.255	55.44	74.00	-18.56	Peak	135	250	Horizontal
2399.584	66.00	74.00	-8.00	Peak	0	113	Vertical
2483.540	54.99	74.00	-19.01	Peak	350	104	Vertical
2486.192	30.86	54.00	-23.14	CISPR Avg	213	101	Horizontal
2486.961	38.34	54.00	-15.66	CISPR Avg	350	106	Vertical
2878.577	29.25	54.00	-24.75	CISPR Avg	178	400	Vertical
5425.183	35.02	54.00	-18.98	CISPR Avg	196	394	Horizontal
5456.626	35.44	54.00	-18.56	CISPR Avg	0	100	Vertical

Table 16 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

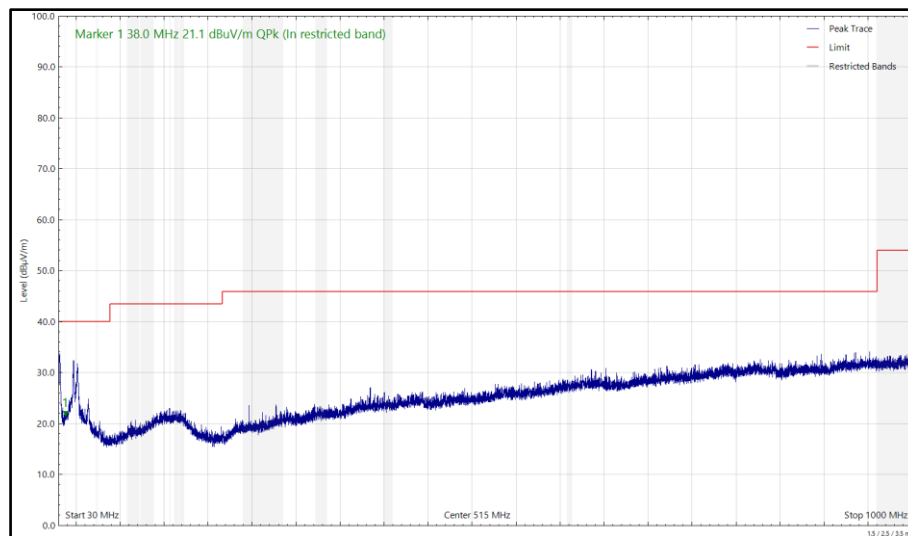


Figure 26 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

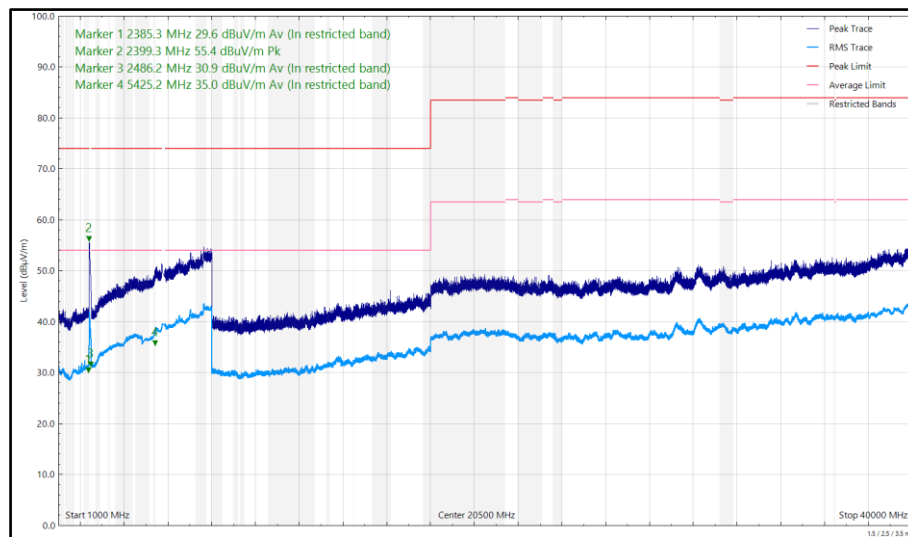


Figure 27 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

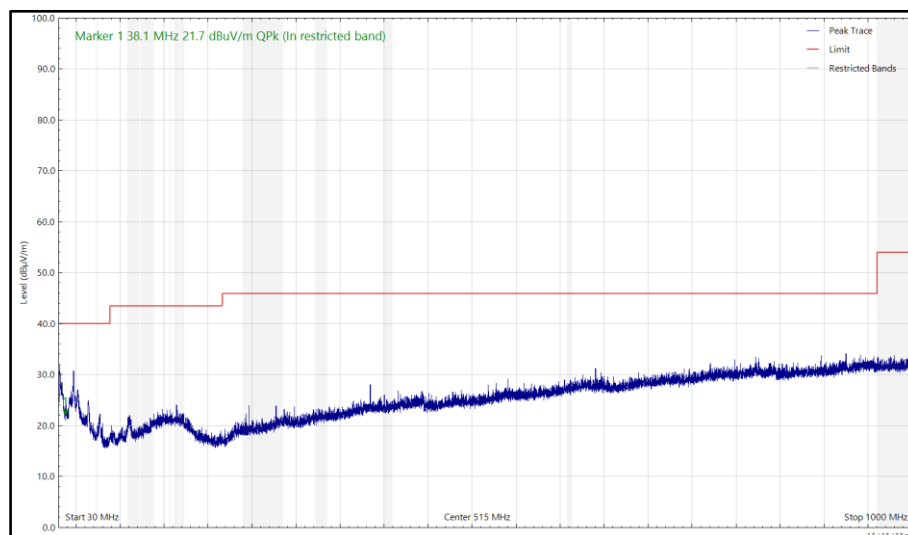


Figure 28 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

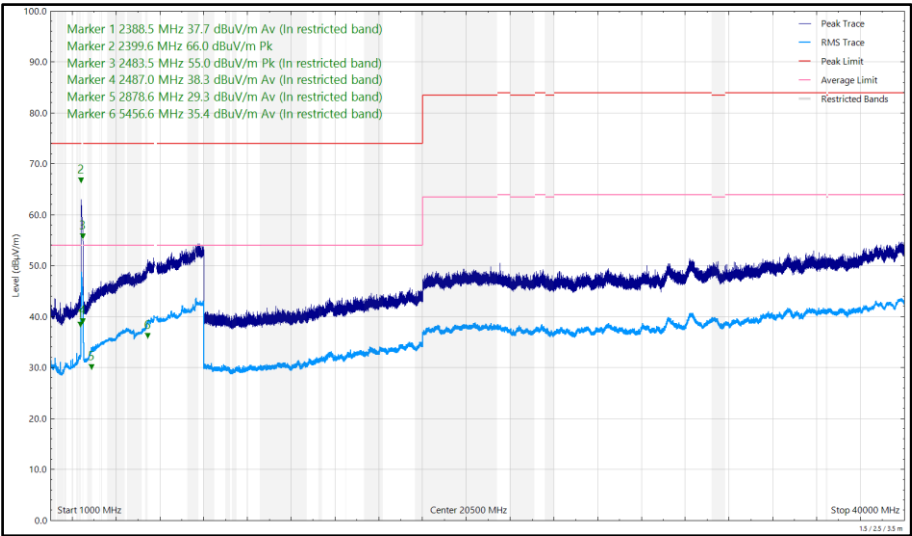


Figure 29 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-20 dBc
Part 15.407 (b) / RSS-247 Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBµV/m at 3m, Average 54 dBµV/m at 3m (Restricted bands > 1 GHz)

Table 17

2.4 GHz WLAN and Thread and 5 GHz Narrowband

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.643	21.23	40.00	-18.77	Q-Peak	354	389	Vertical
37.782	21.44	40.00	-18.56	Q-Peak	151	390	Horizontal
1440.125	30.72	54.00	-23.28	RMS	197	356	Vertical
2389.309	37.05	54.00	-16.95	RMS	155	134	Horizontal
2389.934	41.61	54.00	-12.39	RMS	355	111	Vertical
2399.210	59.29	74.00	-14.71	Peak	159	157	Horizontal
2399.626	63.61	74.00	-10.39	Peak	25	100	Vertical
2483.517	31.84	54.00	-22.16	RMS	333	158	Vertical
2483.517	30.88	54.00	-23.12	RMS	313	186	Horizontal
2483.633	55.93	74.00	-18.07	Peak	86	202	Vertical
4529.351	36.73	54.00	-17.27	RMS	139	129	Vertical
4542.889	36.75	54.00	-17.25	RMS	10	178	Horizontal
5046.634	36.79	54.00	-17.21	RMS	220	182	Vertical
5396.348	38.15	54.00	-15.85	RMS	351	141	Vertical
5397.692	37.82	54.00	-16.18	RMS	235	261	Horizontal

Table 18 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2455 MHz (CH21), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

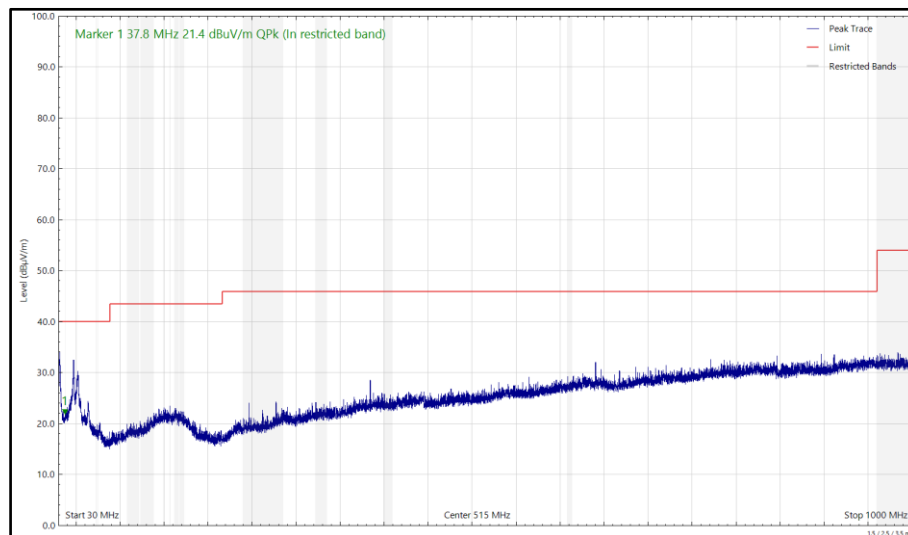


Figure 30 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2455 MHz (CH21), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

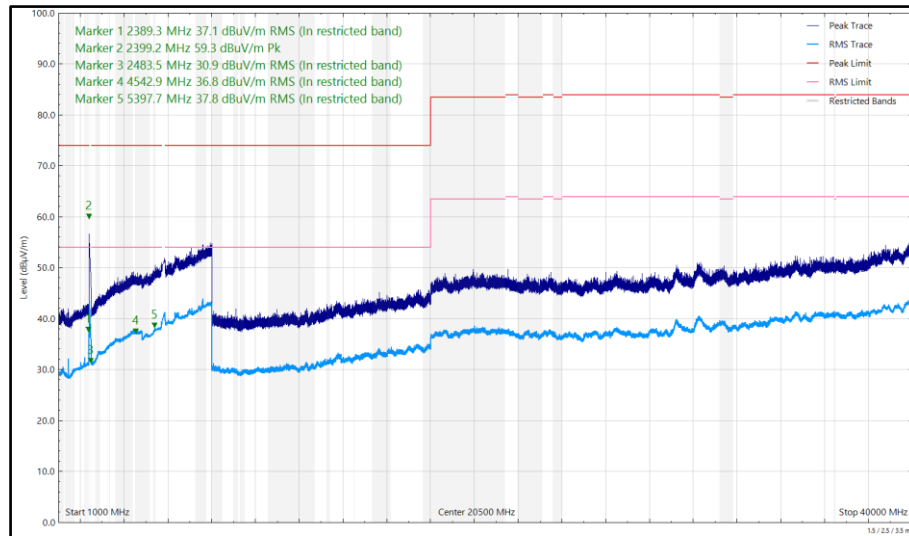


Figure 31 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2455 MHz (CH21), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

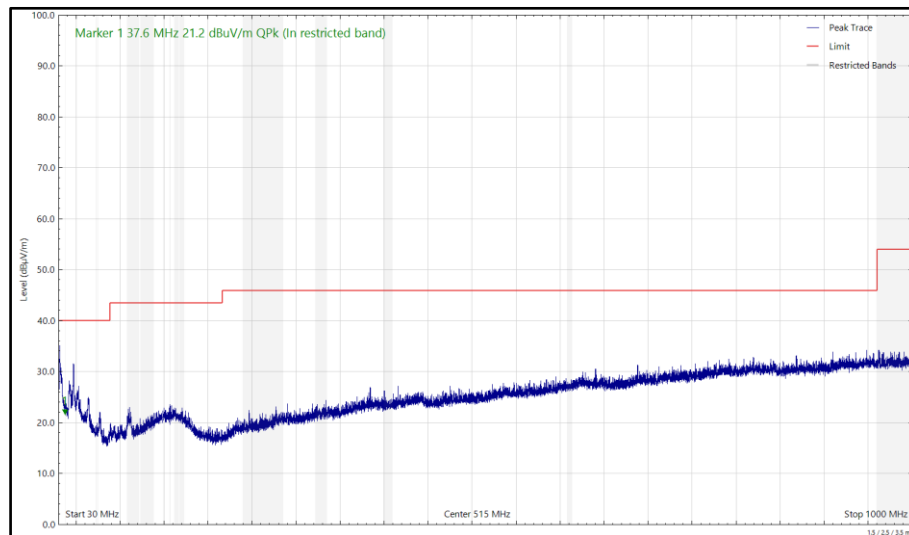


Figure 32 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2455 MHz (CH21), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

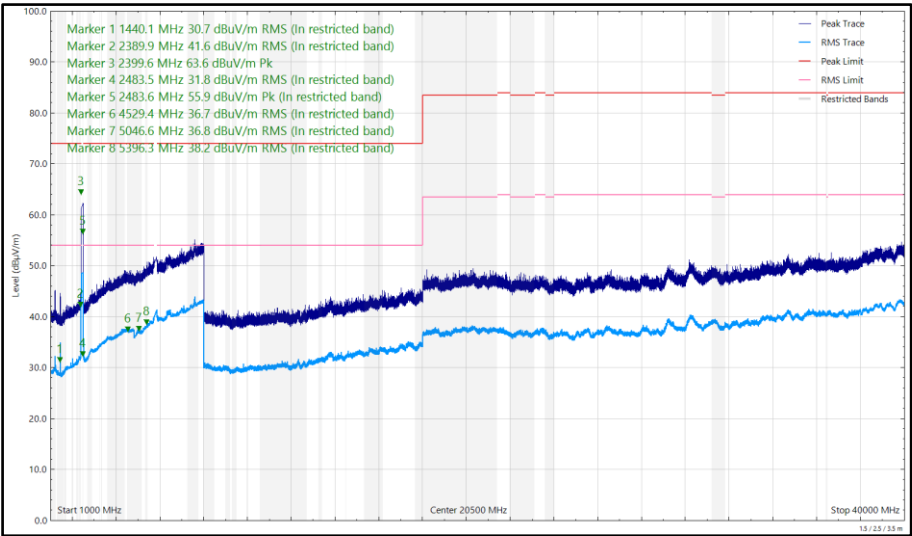


Figure 33 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2455 MHz (CH21), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-30 dBc
Part 15.407 (b) / RSS-247 Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBµV/m at 3m, Average 54 dBµV/m at 3m (Restricted bands > 1 GHz)

Table 19

2.4 GHz WLAN and 2.4 GHz Bluetooth and 5 GHz WLAN

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.513	19.57	40.00	-20.43	Q-Peak	82	340	Vertical
37.863	19.65	40.00	-20.35	Q-Peak	14	307	Horizontal
66.565	18.59	40.00	-21.41	Q-Peak	338	158	Horizontal
102.557	25.09	43.50	-18.41	Q-Peak	137	100	Vertical
2388.014	32.65	54.00	-21.35	CISPR Avg	138	165	Horizontal
2389.736	37.86	54.00	-16.14	CISPR Avg	350	359	Vertical
2399.742	61.93	74.00	-12.07	Peak	359	399	Vertical
2399.990	56.61	74.00	-17.39	Peak	46	351	Horizontal
2483.774	33.56	54.00	-20.44	CISPR Avg	143	125	Horizontal
2484.088	38.91	54.00	-15.09	CISPR Avg	353	102	Vertical

Table 20 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

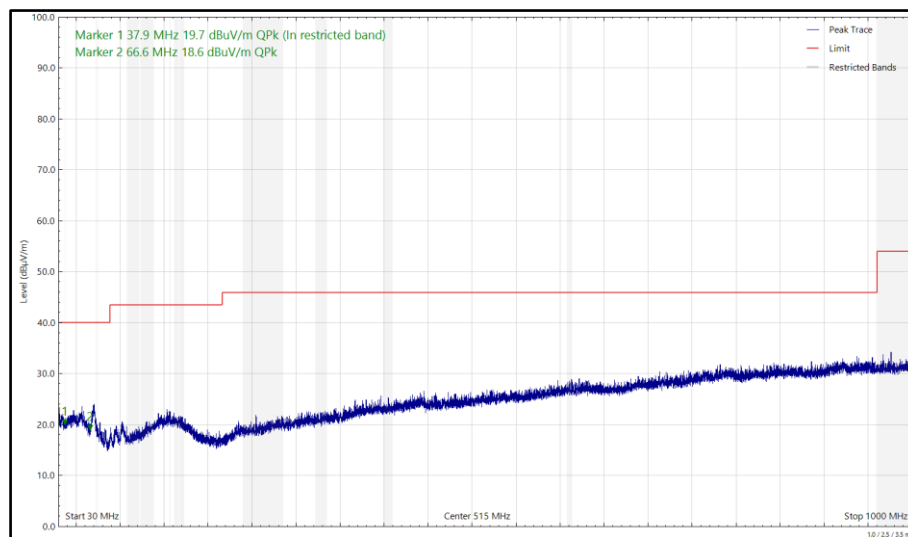


Figure 34 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal

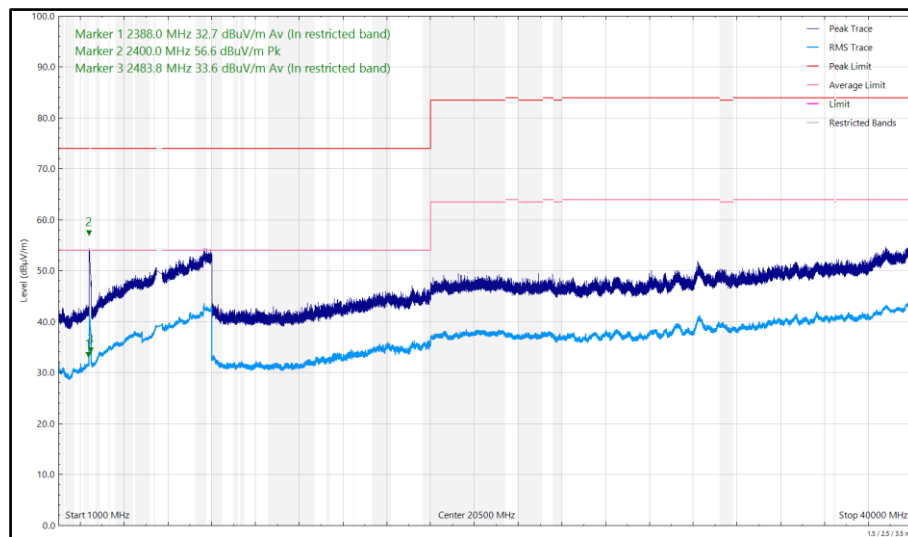


Figure 35 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

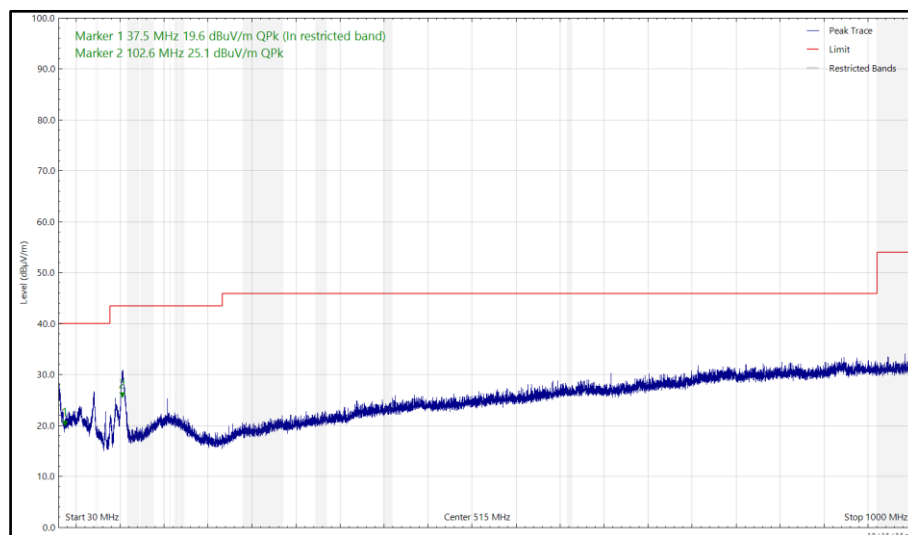


Figure 36 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical

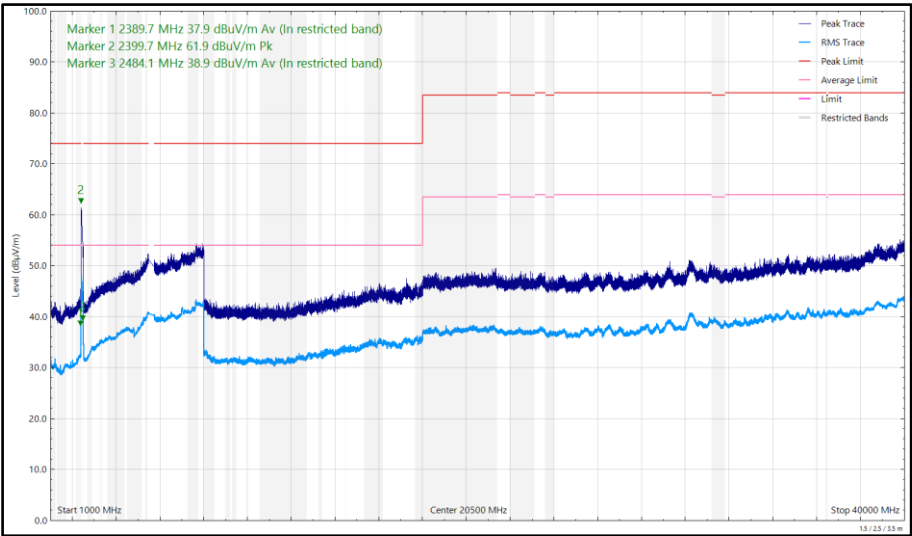


Figure 37 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-20 dBc
Part 15.407 (b) / RSS-247 Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBµV/m at 3m, Average 54 dBµV/m at 3m (Restricted bands > 1 GHz)

Table 21

2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz WLAN

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
33.922	20.11	40.00	-19.89	Q-Peak	23	116	Horizontal
38.209	19.70	40.00	-20.30	Q-Peak	306	339	Vertical
73.879	17.34	40.00	-22.66	Q-Peak	226	314	Horizontal
102.276	25.41	43.50	-18.09	Q-Peak	196	100	Vertical
2387.747	32.05	54.00	-21.95	CISPR Avg	315	279	Horizontal
2387.932	37.26	54.00	-16.74	CISPR Avg	2	273	Vertical
2483.946	38.30	54.00	-15.70	CISPR Avg	0	369	Vertical
2486.256	32.57	54.00	-21.43	CISPR Avg	123	100	Horizontal

Table 22 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

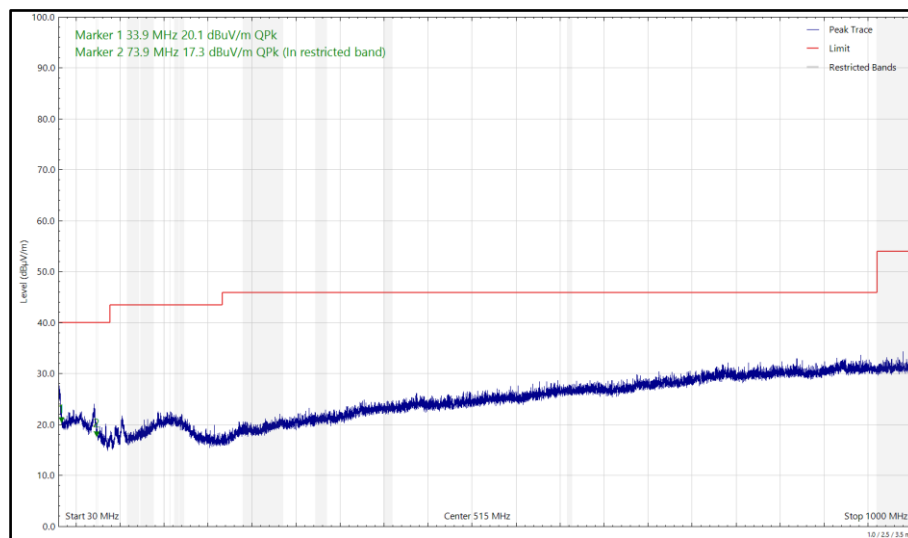


Figure 38 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal

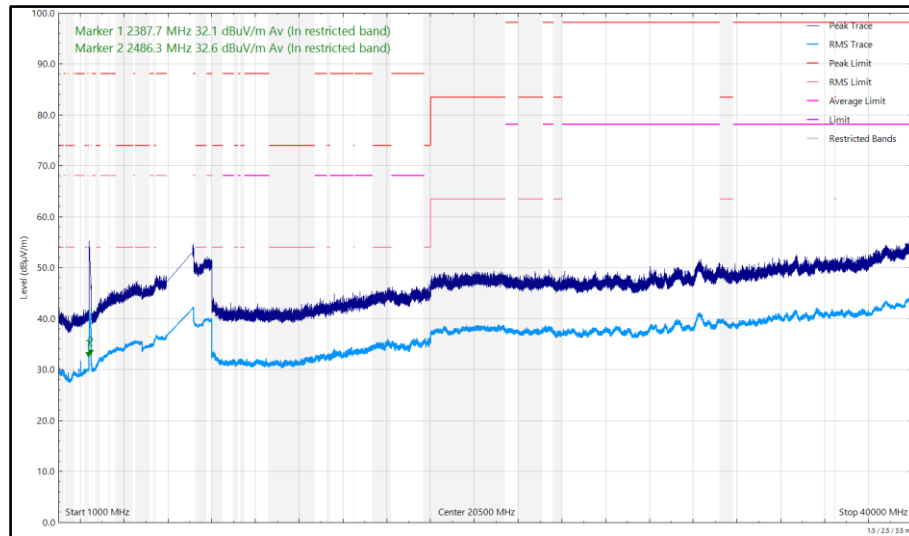


Figure 39 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

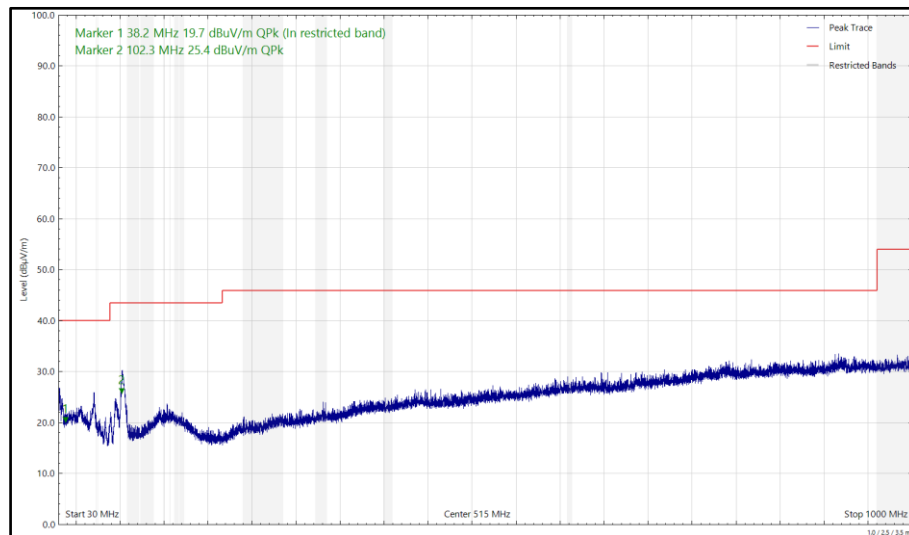


Figure 40 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical

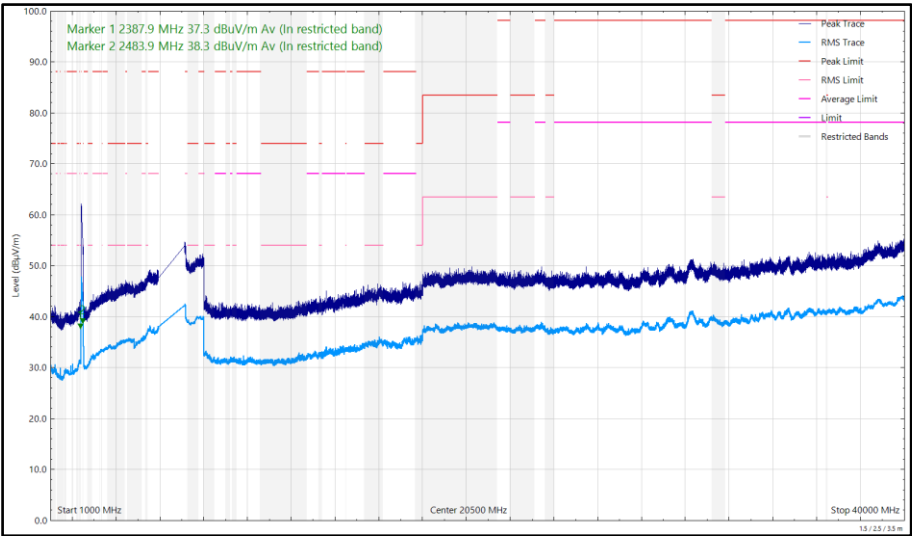


Figure 41 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-20 dBc
Part 15.407 (b) / RSS-248 Clause 4.6.2	Peak: -7 dBm/MHz e.i.r.p, Average: -27 dBm/MHz e.i.r.p.
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz)

Table 23

2.4 GHz WLAN and Thread and 5 GHz WLAN

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
32.658	19.85	40.00	-20.15	Q-Peak	179	140	Horizontal
33.419	19.90	40.00	-20.10	Q-Peak	40	191	Vertical
73.151	18.45	40.00	-21.55	Q-Peak	360	116	Vertical
102.356	24.46	43.50	-19.04	Q-Peak	12	126	Vertical
164.367	20.20	43.50	-23.30	Q-Peak	57	269	Horizontal
1440.125	36.51	54.00	-17.49	RMS	0	208	Vertical
2389.703	31.41	54.00	-22.59	RMS	135	100	Horizontal
2389.920	32.81	54.00	-21.19	RMS	346	232	Vertical
2399.976	58.60	74.00	-15.40	Peak	0	106	Vertical
2483.675	33.31	54.00	-20.69	RMS	0	210	Vertical
2483.676	31.61	54.00	-22.39	RMS	140	100	Horizontal
5456.598	40.40	54.00	-13.60	RMS	350	146	Vertical
5458.409	38.29	54.00	-15.71	RMS	143	218	Horizontal

Table 24 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

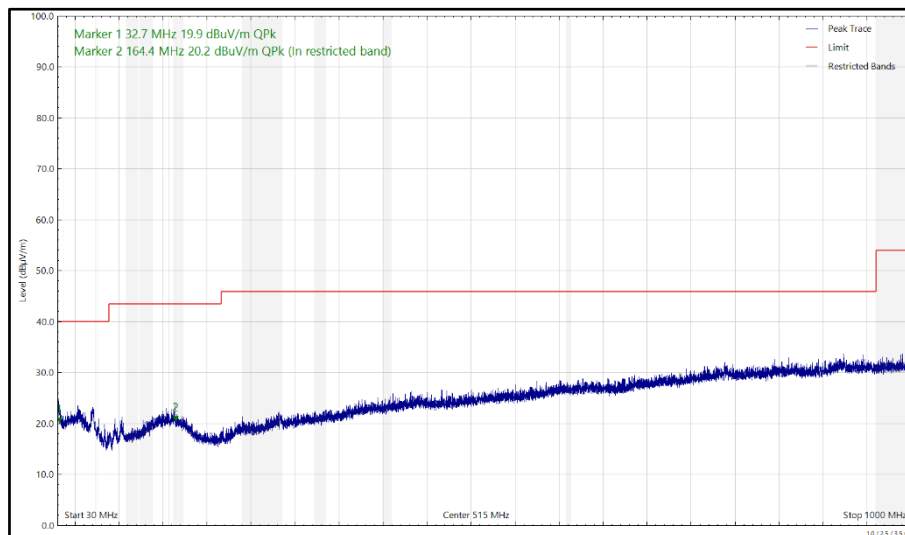


Figure 42 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

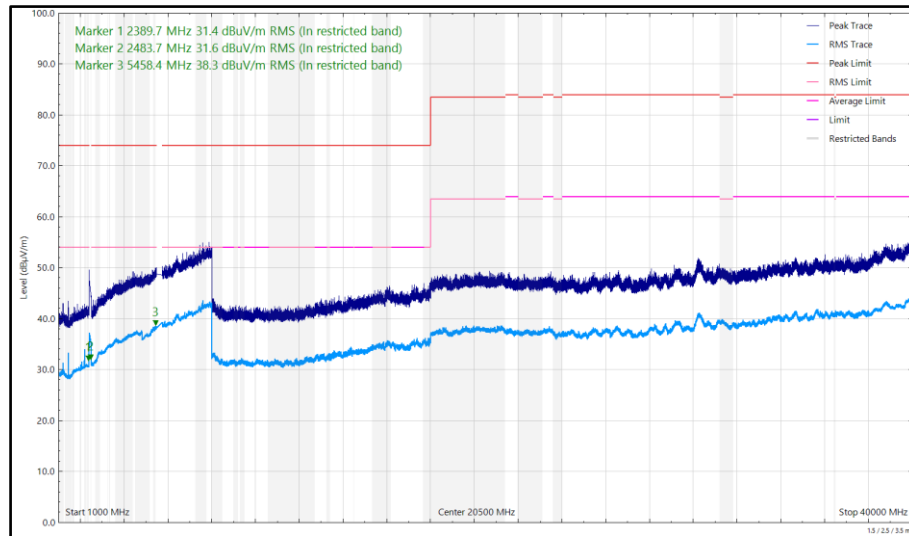


Figure 43 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

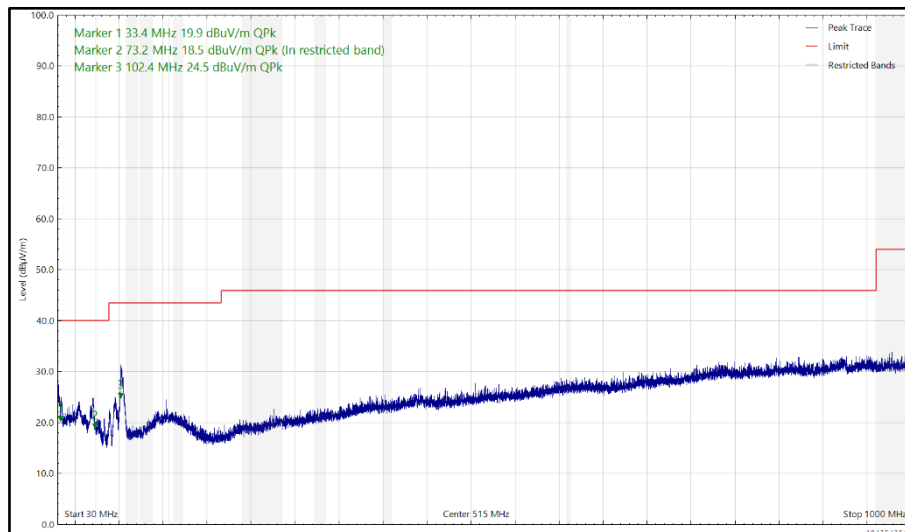


Figure 44 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

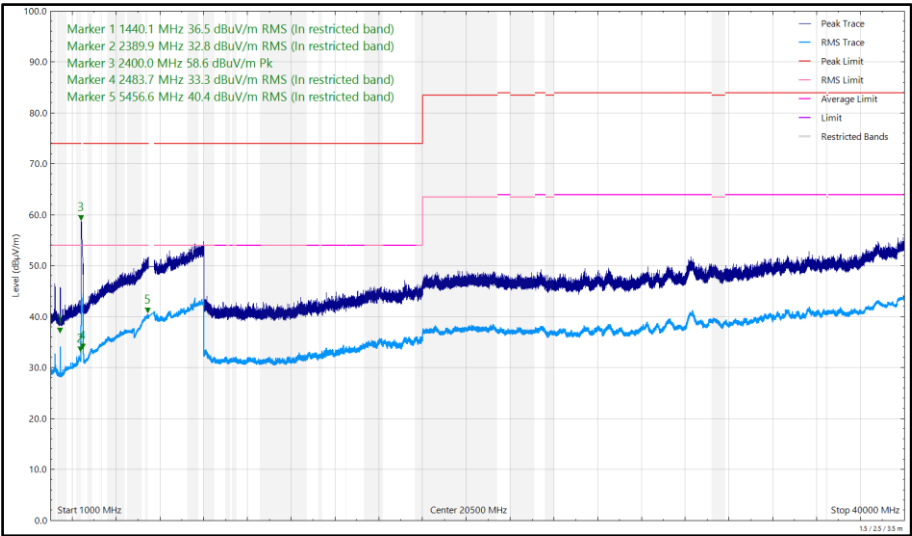


Figure 45 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-30 dBc
Part 15.407 (b) / RSS-247 Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBμV/m at 3m, Average 54 dBμV/m at 3m (Restricted bands > 1 GHz)

Table 25

2.4 GHz WLAN and Thread and 6 GHz WLAN

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.585	19.67	40.00	-20.33	Q-Peak	104	166	Vertical
102.517	25.04	43.50	-18.46	Q-Peak	191	106	Vertical
1440.276	32.55	54.00	-21.45	RMS	285	117	Vertical
2389.507	32.49	54.00	-21.51	RMS	0	150	Vertical
2483.807	30.41	54.00	-23.59	RMS	49	335	Horizontal
2484.121	33.97	54.00	-20.03	RMS	0	100	Vertical
5457.739	35.43	54.00	-18.57	RMS	1	359	Horizontal
5459.000	36.25	54.00	-17.75	RMS	275	108	Vertical

Table 26 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

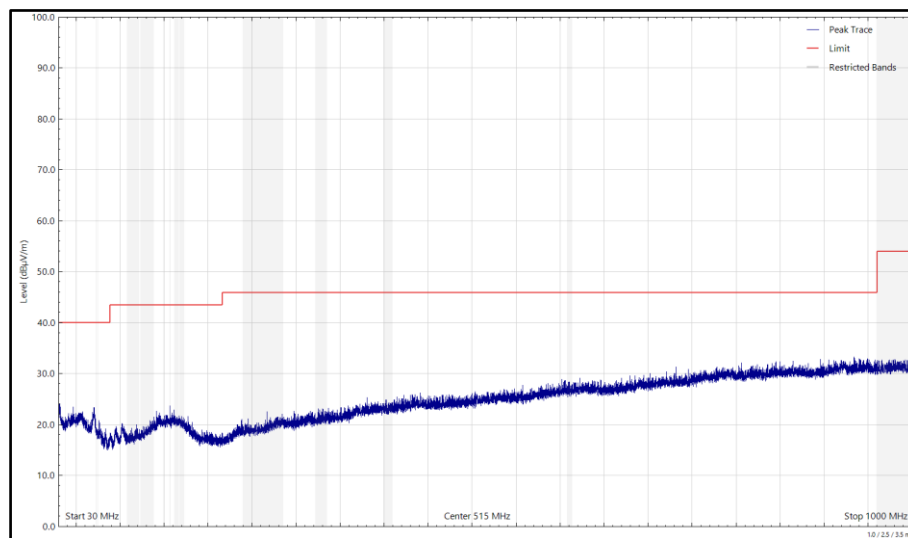


Figure 46 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

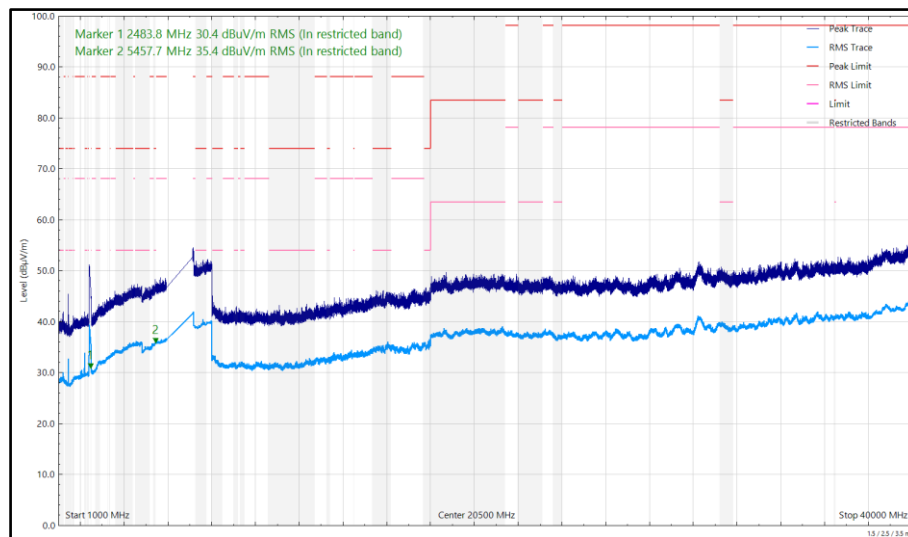


Figure 47 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

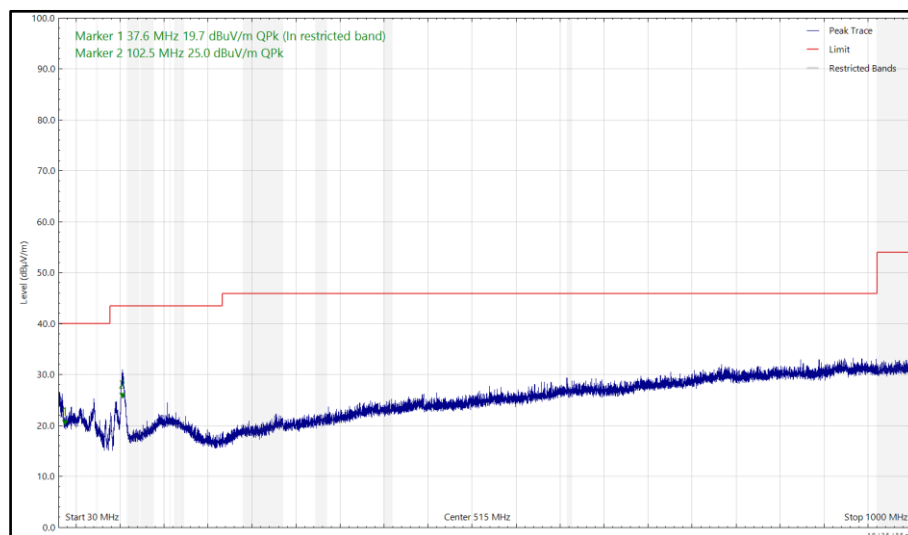


Figure 48 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

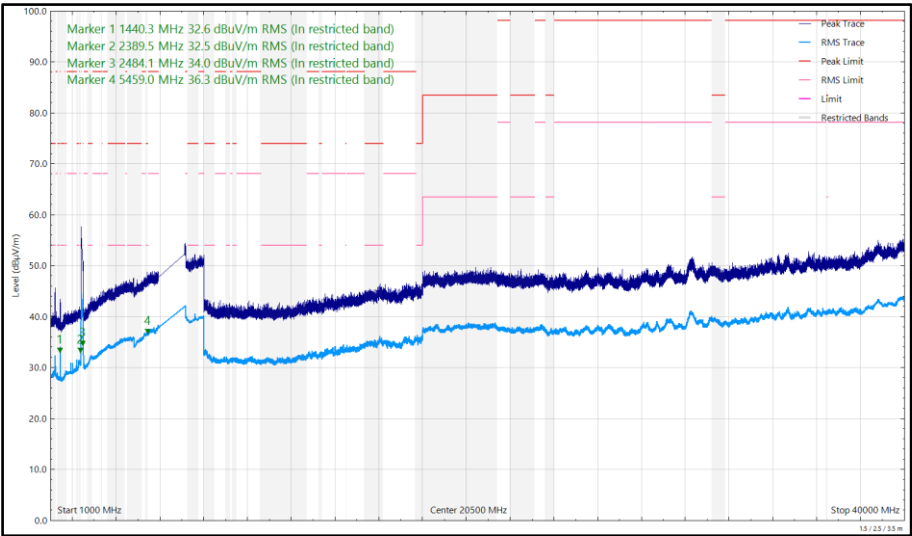


Figure 49 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-30 dBc
Part 15.407 (b) / RSS-248 Clause 4.6.2	Peak: -7 dBm/MHz e.i.r.p, Average: -27 dBm/MHz e.i.r.p.
Part 15.209 / RSS-GEN Clause 8.9	Peak: 74 dBuV/m at 3m, Average 54 dBuV/m at 3m (Restricted bands > 1 GHz)

Table 27

2.4 GHz Bluetooth and Narrowband

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.134	32.65	40.00	-7.35	Q-Peak	350	109	Vertical
31.142	23.96	40.00	-16.04	Q-Peak	2	110	Horizontal
37.562	21.09	40.00	-18.91	Q-Peak	0	336	Horizontal
37.872	22.00	40.00	-18.00	Q-Peak	41	102	Vertical
2389.854	34.25	54.00	-19.75	RMS	360	245	Vertical
2484.186	35.17	54.00	-18.83	RMS	352	100	Vertical
4971.975	37.15	54.00	-16.85	RMS	262	215	Vertical
4978.221	37.03	54.00	-16.97	RMS	227	232	Horizontal
5421.091	38.45	54.00	-15.55	RMS	0	228	Vertical
5423.882	38.19	54.00	-15.81	RMS	198	219	Horizontal

Table 28 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

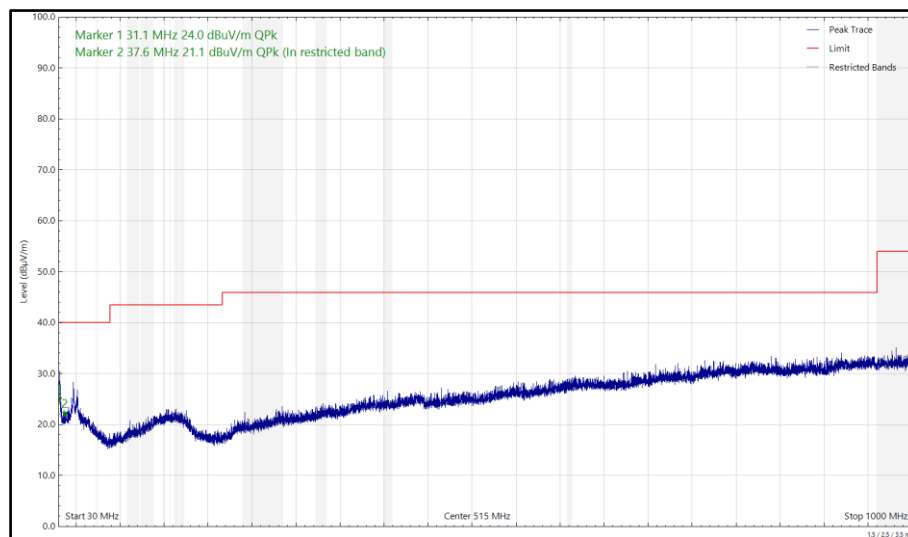


Figure 50 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

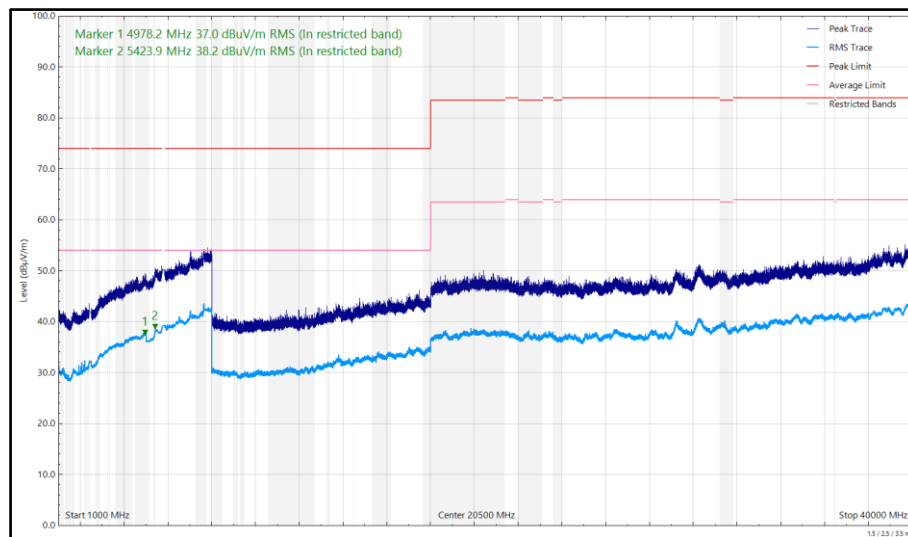


Figure 51 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

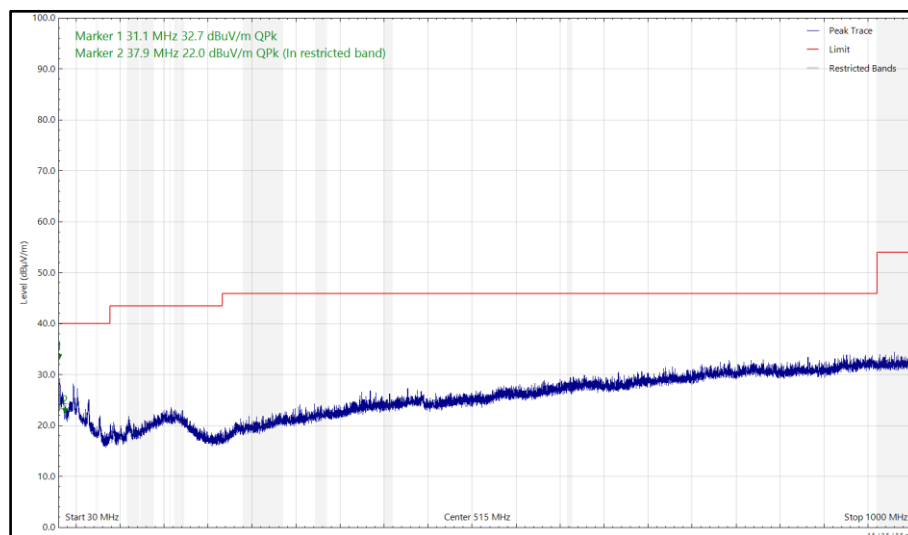


Figure 52 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

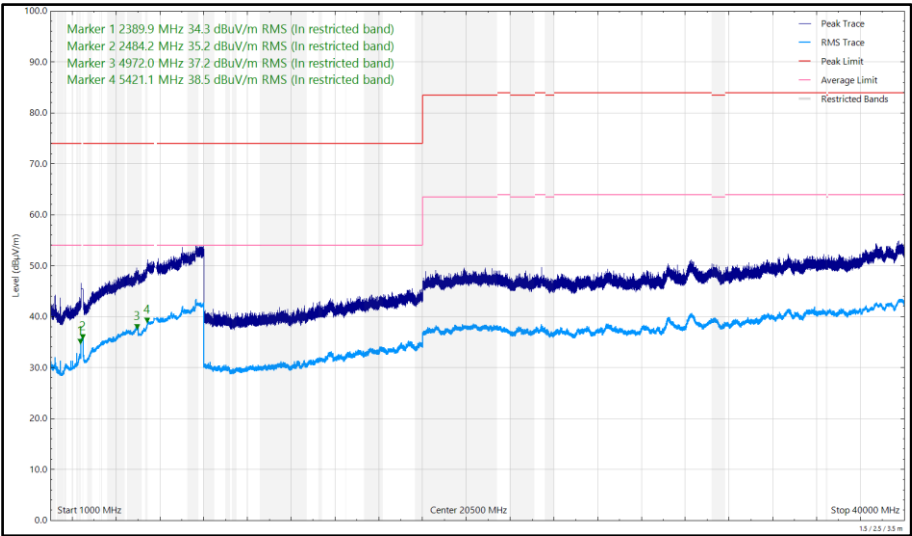


Figure 53 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-20 dBc
Part 15.407 (b) / RSS-247 Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p

Table 29

Thread and Narrowband

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.801	21.19	40.00	-18.81	Q-Peak	179	358	Horizontal
2389.816	33.79	54.00	-20.21	RMS	281	234	Vertical
2484.295	33.84	54.00	-20.16	RMS	255	180	Vertical
4934.548	37.04	54.00	-16.96	RMS	102	228	Horizontal
4981.742	37.08	54.00	-16.92	RMS	306	304	Vertical
5425.252	38.39	54.00	-15.61	RMS	210	143	Vertical
5427.482	38.17	54.00	-15.83	RMS	0	104	Horizontal

Table 30 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

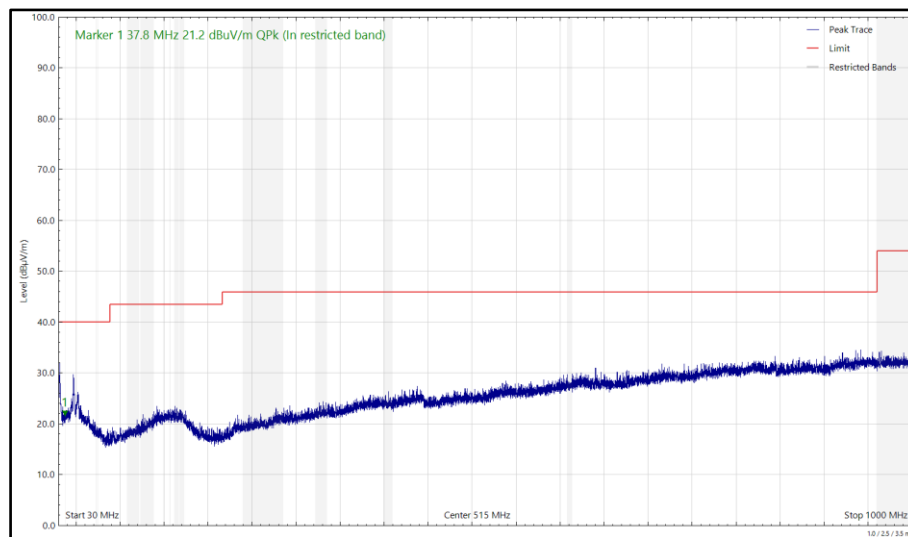


Figure 54 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal

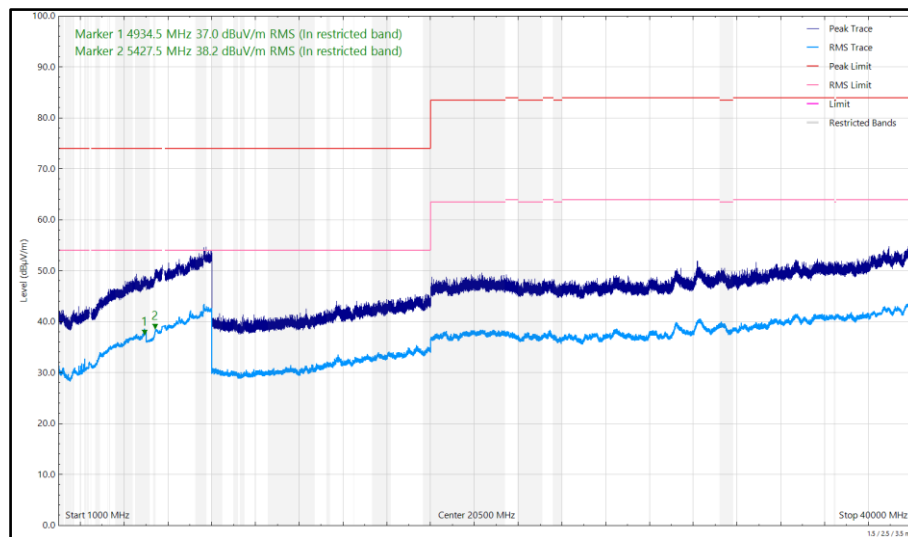


Figure 55 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

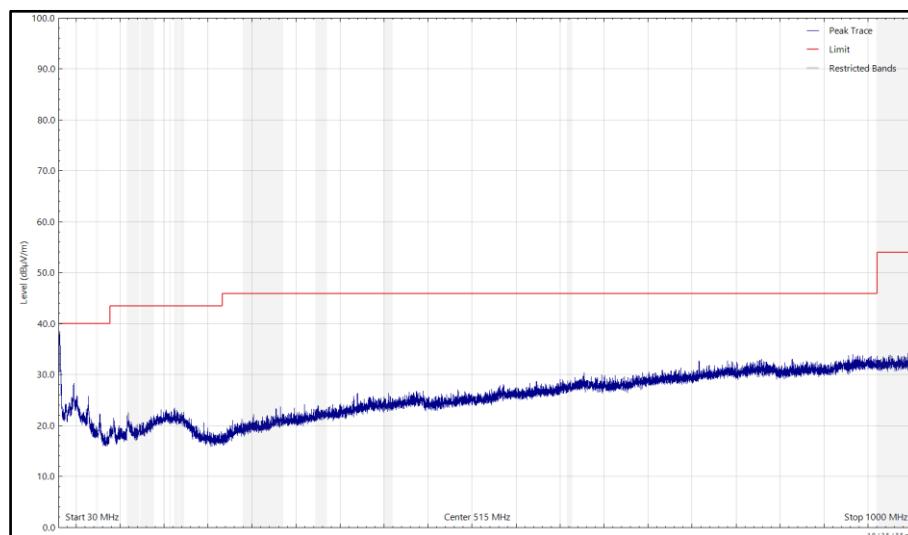


Figure 56 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical

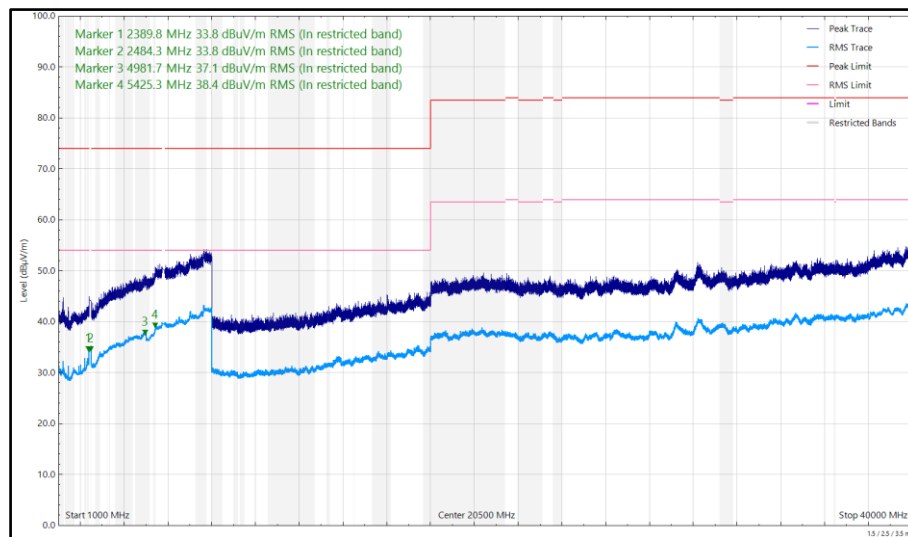


Figure 57 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.678	21.13	40.00	-18.87	Q-Peak	217	282	Horizontal
38.089	21.17	40.00	-18.83	Q-Peak	350	390	Vertical
2389.969	35.44	54.00	-18.56	RMS	350	233	Vertical
2484.647	35.88	54.00	-18.12	RMS	350	107	Vertical
4927.721	37.11	54.00	-16.89	RMS	259	181	Horizontal
4936.749	37.12	54.00	-16.88	RMS	360	395	Vertical
5423.541	38.51	54.00	-15.49	RMS	266	328	Vertical
5424.111	38.25	54.00	-15.75	RMS	193	121	Horizontal

Table 31 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

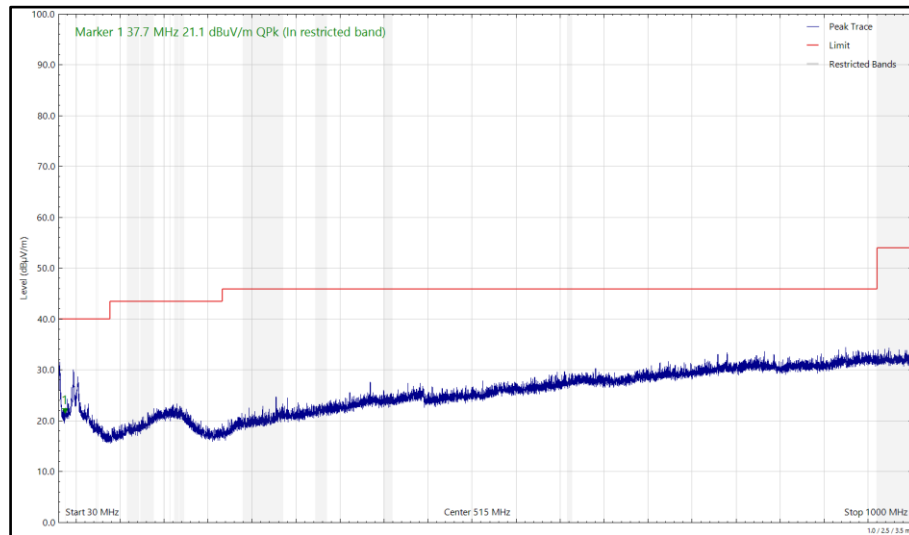


Figure 58 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal

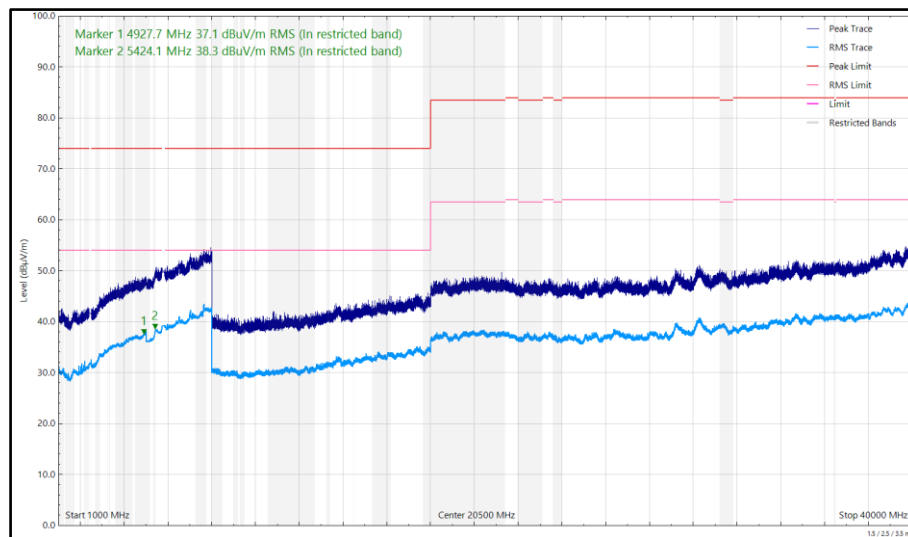


Figure 59 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

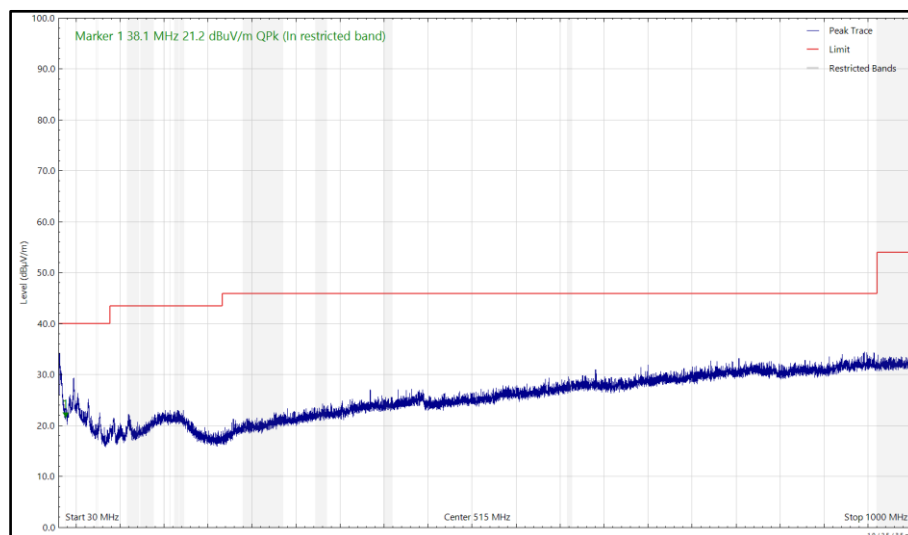


Figure 60 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical

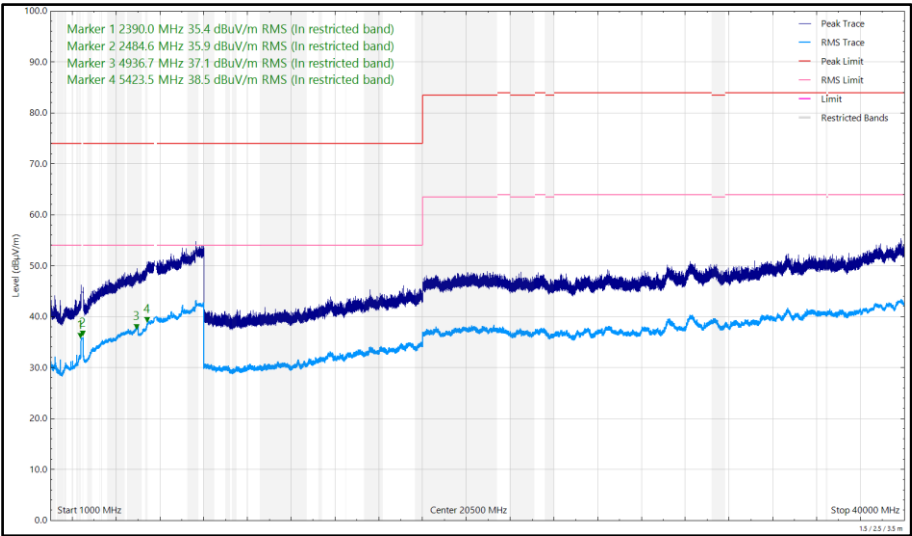


Figure 61 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 Clause 6.6	-30 dBc
Part 15.407 (b) / RSS-247 Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4	-27 dBm e.i.r.p

Table 32



2.1.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14, RF Chamber 16, RF Chamber 17 and RF Chamber 18.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	TU
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	29-Oct-2026
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	04-Sep-2026
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5933	12	12-Jun-2026
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5937	12	12-Jun-2026
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5941	12	23-May-2027
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5942	24	03-Jan-2027
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5940	12	23-May-2027
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5944	24	03-Jan-2027
1500W (300V 12A) AC Power Supply	iTech	IT7324	5955	-	TU
1500W (300V 12A) AC Power Supply	iTech	IT7324	5957	-	TU
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 14	5958	36	23-Apr-2028
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5959	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5962	-	TU
3m Semi-Anechoic Chamber, Chamber16	Albatross Projects	RF Chamber 16	5972	36	07-May-2028
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5973	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5974	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5975	-	TU
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/A	6017	12	12-Sep-2026
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	14-Sep-2026
Digital Multimeter	Fluke	115	6145	12	06-Jun-2026
Digital Multimeter	Fluke	115	6147	12	05-Jun-2026
Humidity & Temperature meter	R.S Components	1364	6149	12	28-Aug-2026
Double Ridge Active Horn Antenna (18-40 GHz)	Com-Power	AHA-840	6189	24	26-Sep-2026
SAC Switch Unit	TUV SUD	TUV_SSU_001	6190	12	11-Dec-2026
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	18-Dec-2026
8GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6195	12	23-Apr-2027



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
8GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6196	12	23-Apr-2027
Pre Amp 8 - 18 GHz	Wright Technologies	APS06 0061	6198	12	09-Jun-2026
Attenuator (4 dB)	Pasternack	PE7074-4	6202	24	03-Jan-2027
Attenuator 4dB	Pasternack	PE7074-4	6203	24	03-Jan-2027
Attenuator 4dB	Pasternack	PE7074-4	6204	24	13-Mar-2027
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6214	12	23-Apr-2027
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6220	12	23-Apr-2027
EMI Test Receiver	Rohde & Schwarz	ESW44	6294	12	23-Mar-2027
Digital Multimeter	Fluke	115	6345	12	24-Jul-2026
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6456	24	13-Mar-2027
3m Semi-Anechoic Chamber	Albatross Projects	Chamber 18	6597	36	08-May-2028
AC Power Supply	iTech	IT7324	6657	-	TU
3m Semi-Anechoic Chamber	Albatross Projects	RF Chamber 17	6658	36	07-May-2028
Mast and Turntable Controller	Maturo Gmbh	FCU3.0	6659	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	6660	-	TU
Turntable	Maturo Gmbh	TT1.5SI	6661	-	TU
Pre Amp 8 - 18 GHz	Wright Technologies	APS06-0061	6783	12	23-Apr-2027
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	6795	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	6796	-	TU
Turntable	Maturo Gmbh	TT1.5SI	6797	-	TU
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	12	24-Jul-2026
AC Programmable Power Supply	iTech	IT7324	6812	-	TU
Broad-Band Horn Antenna 1-10GHz N	Schwarzbeck	BBHA9120B	6825	12	14-Sep-2026
1M SMA Cable	Junkosha	MWX221-01000AMSAMS/B	6832	12	18-Aug-2026
Handheld Hygrometer	Fluke	971	6837	12	16-Sep-2026
Handheld Hygrometer	Fluke	971	6838	12	16-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6841	12	23-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6842	12	23-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6843	12	06-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6844	12	06-Sep-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6847	12	06-Nov-2026



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6848	12	23-Oct-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6849	12	06-Nov-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6850	12	23-Oct-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6851	12	06-Nov-2026
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6886	12	02-Dec-2026
Handheld Hygrometer	Fluke	971	6838	12	16-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6841	12	23-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6842	12	23-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6843	12	06-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6844	12	06-Sep-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6847	12	06-Nov-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6848	12	23-Oct-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6849	12	06-Nov-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6850	12	23-Oct-2026
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6886	12	02-Dec-2026

Table 33

TU - Traceability Unscheduled

*Equipment was only employed during its calibration period



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: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 34

Measurement Uncertainty Decision Rule – Accuracy Method

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.