

FCC and ISED Test Report

Apple Inc
Model: A3590



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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Document 75967128-21 Issue 01

SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steven White	Senior Technical Specialist	Authorised Signatory	28 September 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	28 September 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.



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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).

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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	28 September 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: 2025 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	07-August-2026
Finish of Test	17-August-2026
Name of Engineer(s)	Ahmed Al Derdiri, Gridi Bilali, Ian Broomhall, Colin Brain, Nathan Ocom, Thilanka Savirunath Liyanage and Dulanjan Witharamalage, Morsalin Hossain, Akhil Rajendran Bhaskaran Nair.
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 and ISED (Simultaneous Transmission) 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)	6.6 and 7.3	-	6.13 and 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) and 15.407(b)	6.6	4.6.2	6.13 and 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) and 15.407(b)	6.6 and 7.3	-	6.13 and 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: 6 GHz WLAN and Thread							
2.1	15.209, 15.247(d) and 15.407(b)	6.6	4.6.2	6.13 and 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, 2.4 GHz Bluetooth and 5 GHz Narrowband							
2.1	15.209, 15.247(d) and 15.407(b)	6.6 and 7.3	-	6.13 and 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, Thread and 5 GHz Narrowband							
2.1	15.209, 15.247(d) and 15.407(b)	6.6 and 7.3	-	6.13 and 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, 2.4 GHz Bluetooth and 5 GHz WLAN							
2.1	15.209, 15.247(d) and 15.407(b)	6.6 and 7.3	-	6.13 and 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, 2.4 GHz Bluetooth and 6 GHz WLAN							
2.1	15.209, 15.247(d) and 15.407(b)	6.6	4.6.2	6.13 and 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, Thread and 5 GHz WLAN							
2.1	15.209, 15.247(d) and 15.407(b)	6.6 and 7.3	-	6.13 and 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, Thread and 6 GHz WLAN							
2.1	15.209, 15.247(d) and 15.407(b)	6.6	4.6.2	6.13 and 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 5 GHz Narrowband							
2.1	15.209, 15.247(d) and 15.407(b)	6.6 and 7.3	-	6.13 and 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: Thread and 5 GHz Narrowband							
2.1	15.209, 15.247(d) and 15.407(b)	6.6 and 7.3	-	6.13 and 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: A3590		
Serial Number	Hardware Version	Software Version
M43636QT4D	REV1.0	26A285
M3KDP4Q16R	REV1.0	26A285
H7PV7G21L2	REV1.0	26A285
M66LXF9WNN	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: A3590, Serial Number: M43636QT4D			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3590, Serial Number: M3KDP4Q16R			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3590, Serial Number: H7PV7G21L2			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3590, Serial Number: M66LXF9WNN			
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, Gridi Bilali, Ian Broomhall and Colin Brain	UKAS
Configuration and Mode: 6 GHz WLAN and 2.4 GHz Bluetooth		
Radiated Spurious Emissions (Simultaneous Transmission)	Ahmed Al Derdiri, Gridi Bilali, Nathan Ocom, Ian Broomhall and Colin Brain	UKAS
Configuration and Mode: 5 GHz WLAN and Thread		
Radiated Spurious Emissions (Simultaneous Transmission)	Ahmed Al Derdiri, Nathan Ocom, Gridi Bilali, Ian Broomhall and Colin Brain	UKAS
Configuration and Mode: 6 GHz WLAN and Thread		
Radiated Spurious Emissions (Simultaneous Transmission)	Ahmed Al Derdiri, Gridi Bilali and Ian Broomhall	UKAS
2.4 GHz WLAN, 2.4 GHz Bluetooth and 5 GHz Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Ahmed Al Derdiri, Gridi Bilali and Ian Broomhall	UKAS
Configuration and Mode: 2.4 GHz WLAN, Thread and 5 GHz Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Nathan Ocom, Thilanka Savirunath Liyanage and Dulanjan Witharamalage	UKAS
Configuration and Mode: 2.4 GHz WLAN, 2.4 GHz Bluetooth and 5 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Morsalin Hossain, Nathan Ocom, Dulanjan Witharamalage	UKAS
Configuration and Mode: 2.4 GHz WLAN, 2.4 GHz Bluetooth and 6 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Morsalin Hossain, Nathan Ocom, Dulanjan Witharamalage	UKAS
Configuration and Mode: 2.4 GHz WLAN, Thread and 5 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Morsalin Hossain, Nathan Ocom, Ian Broomhall	UKAS
Configuration and Mode: 2.4 GHz WLAN, Thread and 6 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Morsalin Hossain, Nathan Ocom, Ian Broomhall	UKAS
Configuration and Mode: 2.4 GHz Bluetooth and 5 GHz Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Ahmed Al Derdiri, Ian Broomhall and Akhil Rajendran Bhaskaran Nair	UKAS
Configuration and Mode: Thread and Narrowband		
Radiated Spurious Emissions (Simultaneous Transmission)	Akhil Rajendran Bhaskaran Nair and Ian Broomhall	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

A3590, S/N: M3KDP4Q16R - Modification State 0
A3590, S/N: M66LXF9WNN - Modification State 0
A3590, S/N: M43636QT4D - Modification State 0
A3590, S/N: H7PV7G21L2 - Modification State 0

2.1.3 Date of Test

07-August-2026 to 17-August-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.

Exploratory measurements were taken in accordance with ANSI C63.10, clause 6.4.6 to characterize the EUT and where emissions were detected, measurements were taken in accordance with ANSI C63.10, clause 6.4.7

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

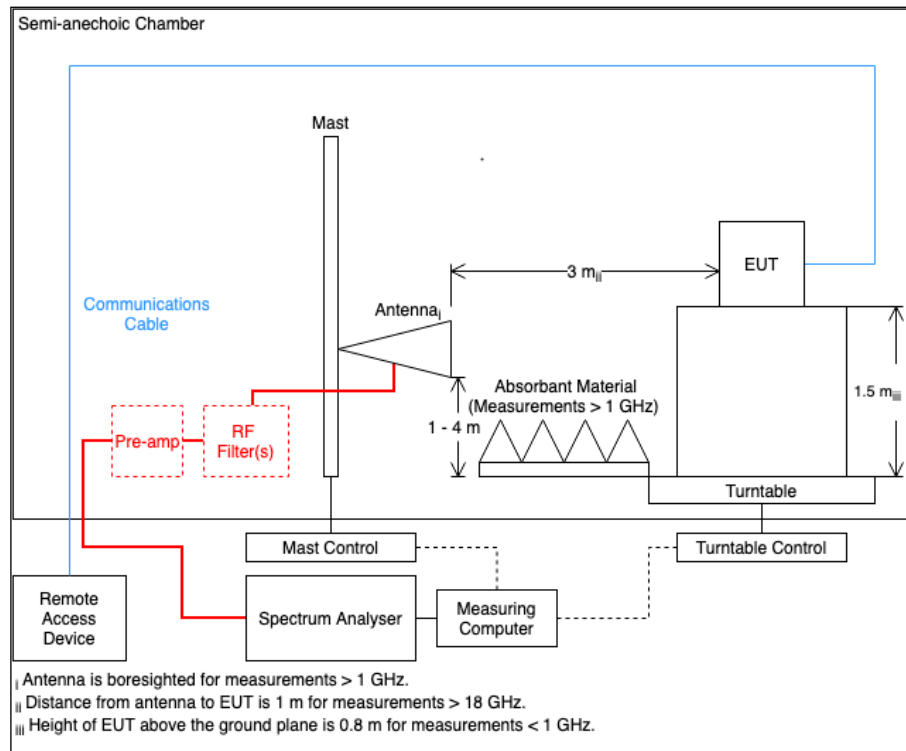


Figure 1

2.1.6 Environmental Conditions

Ambient Temperature	19.4 - 34.5 °C
Relative Humidity	36.8 - 48.2 %

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
73.094	17.82	40.00	-22.18	Q-Peak	227	335	Horizontal
73.552	17.82	40.00	-22.18	Q-Peak	3	398	Vertical
114.875	18.56	43.50	-24.94	Q-Peak	126	304	Vertical
125.574	19.29	43.50	-24.21	Q-Peak	10	281	Horizontal
1199.380	30.90	54.00	-23.10	CISPR Avg	108	146	Vertical
1200.100	30.38	54.00	-23.62	CISPR Avg	253	360	Horizontal
1439.758	29.41	54.00	-24.59	CISPR Avg	143	249	Horizontal
1440.075	33.35	54.00	-20.65	CISPR Avg	59	125	Vertical
2386.840	32.33	54.00	-21.67	CISPR Avg	176	172	Vertical
2387.604	32.71	54.00	-21.29	CISPR Avg	118	107	Horizontal
2484.249	33.15	54.00	-20.85	CISPR Avg	243	177	Horizontal
2486.589	33.02	54.00	-20.98	CISPR Avg	176	184	Vertical
5426.933	38.44	54.00	-15.56	CISPR Avg	32	144	Vertical
5443.112	56.03	74.00	-17.97	Peak	199	260	Horizontal
5450.405	41.14	54.00	-12.86	CISPR Avg	191	259	Horizontal

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

No other emissions found within 20 dB of the limit.

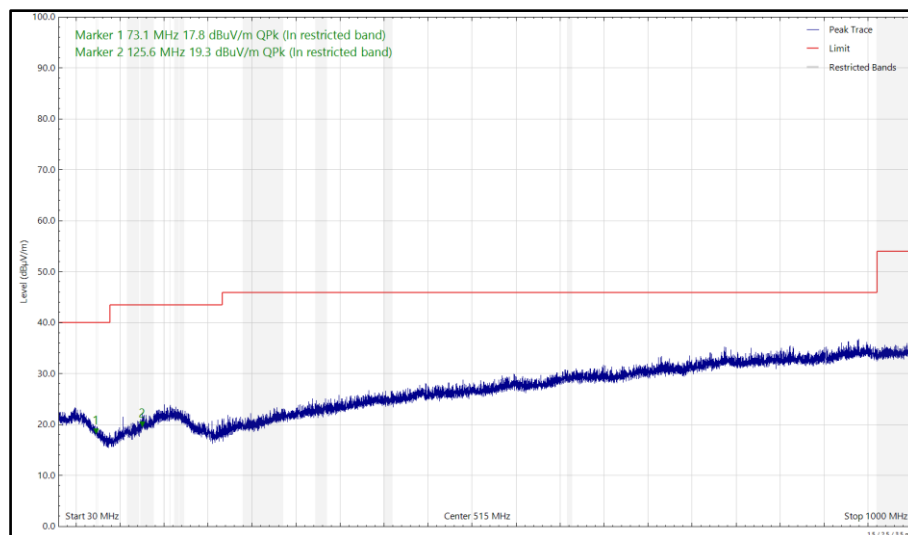


Figure 2 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

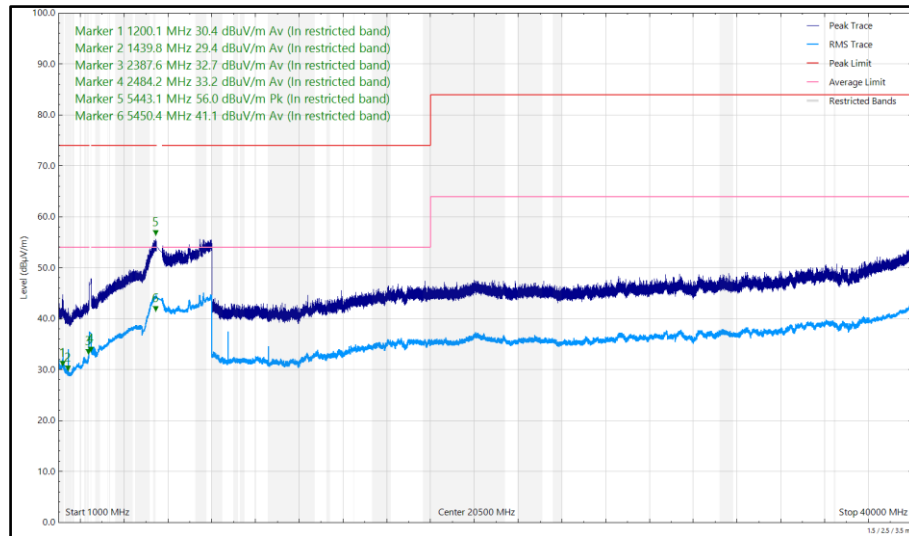


Figure 3 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

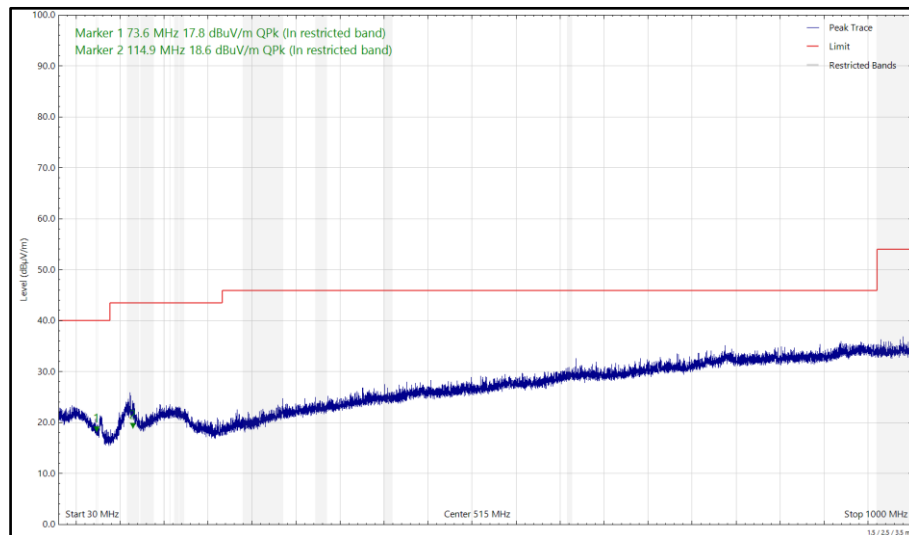


Figure 4 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

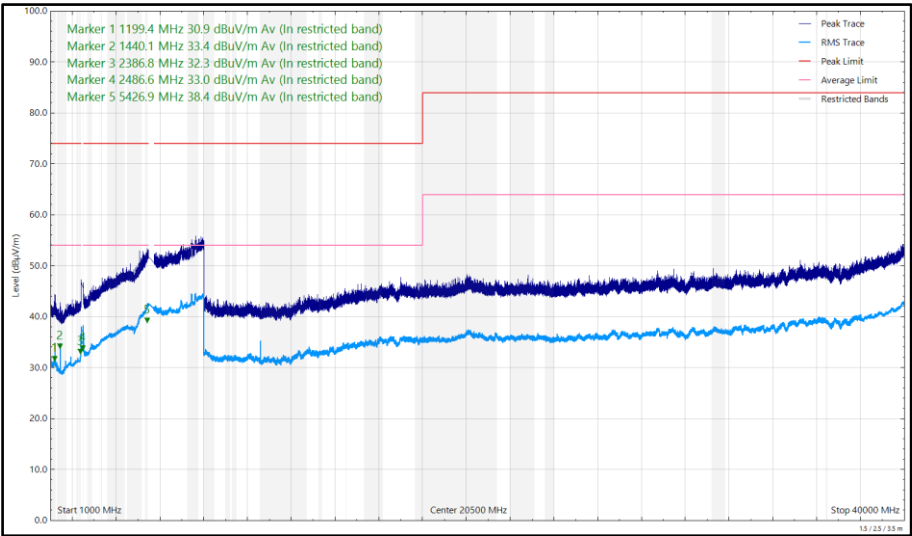


Figure 5 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2441 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 6.6, 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 (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.234	17.85	40.00	-22.15	Q-Peak	272	105	Horizontal
73.605	17.78	40.00	-22.22	Q-Peak	108	388	Vertical
112.545	18.96	43.50	-24.54	Q-Peak	229	157	Vertical
130.831	19.70	43.50	-23.80	Q-Peak	251	390	Horizontal
162.961	21.99	43.50	-21.51	Q-Peak	357	225	Horizontal
1197.764	31.06	54.00	-22.94	CISPR Avg	183	134	Vertical
1439.728	26.93	54.00	-27.07	CISPR Avg	26	353	Horizontal
1440.336	33.99	54.00	-20.01	CISPR Avg	315	123	Vertical
2385.757	32.23	54.00	-21.77	CISPR Avg	119	110	Horizontal
2389.093	30.95	54.00	-23.05	CISPR Avg	203	101	Vertical
2485.909	32.05	54.00	-21.95	CISPR Avg	243	167	Horizontal
2485.987	32.75	54.00	-21.25	CISPR Avg	193	210	Vertical
5416.008	35.48	54.00	-18.52	CISPR Avg	187	100	Horizontal
5437.483	34.75	54.00	-19.25	CISPR Avg	181	147	Vertical

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

No other emissions found within 20 dB of the limit.

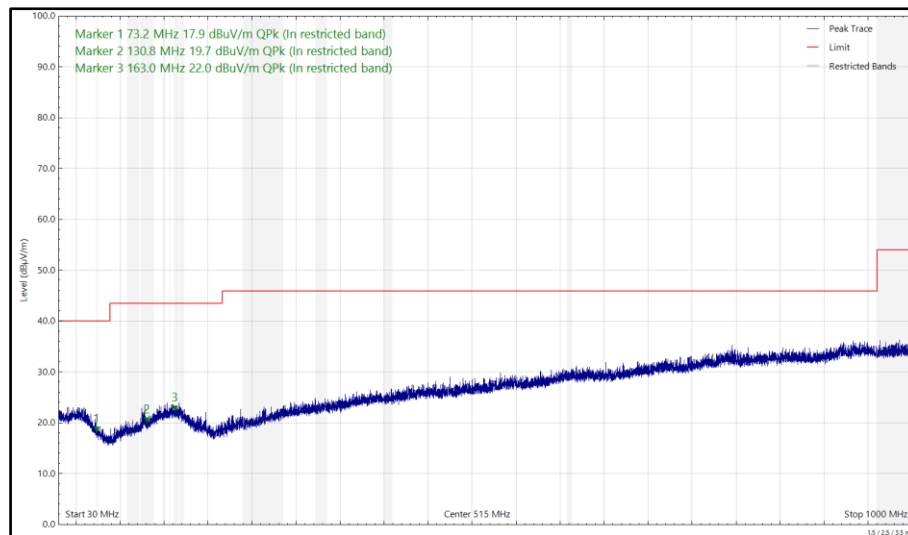


Figure 6 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

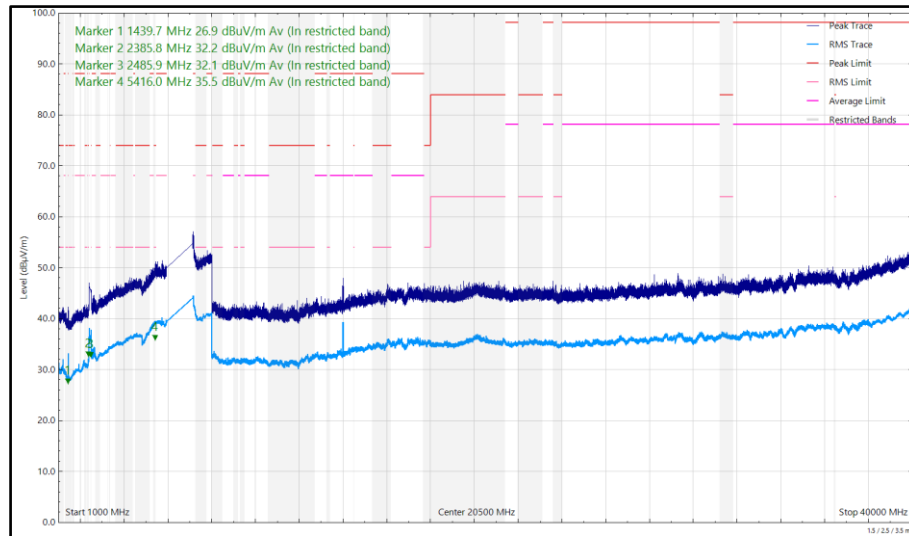


Figure 7 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

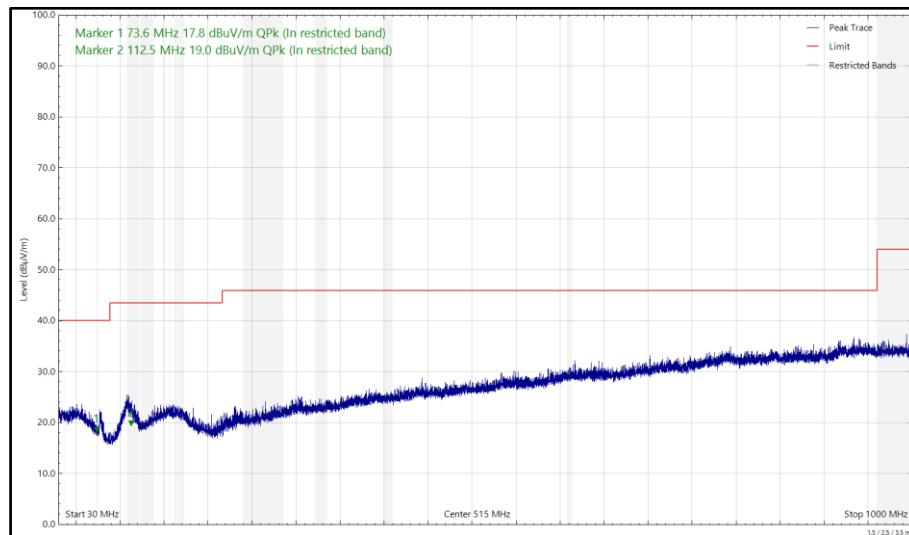


Figure 8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

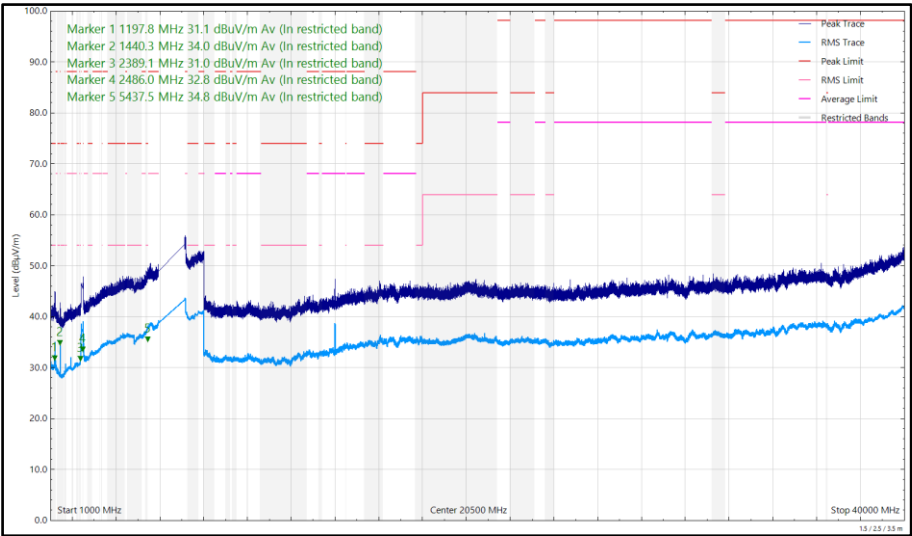


Figure 9 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2441 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.932	20.19	40.00	-19.81	Q-Peak	0	166	Vertical
74.407	17.64	40.00	-22.36	Q-Peak	356	396	Horizontal
113.016	18.30	43.50	-25.20	Q-Peak	124	203	Vertical
135.959	20.26	43.50	-23.24	Q-Peak	234	271	Horizontal
1440.017	31.77	54.00	-22.23	RMS	11	327	Horizontal
1440.214	31.79	54.00	-22.21	RMS	10	106	Vertical
2389.528	34.55	54.00	-19.45	RMS	0	100	Vertical
2389.663	35.22	54.00	-18.78	RMS	6	110	Horizontal
2483.860	35.71	54.00	-18.29	RMS	127	103	Vertical
2484.501	35.61	54.00	-18.39	RMS	357	100	Horizontal
5424.532	42.27	54.00	-11.73	RMS	201	100	Horizontal
5452.340	54.57	74.00	-19.43	Peak	191	125	Horizontal
5453.580	42.16	54.00	-11.84	RMS	25	144	Vertical

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.

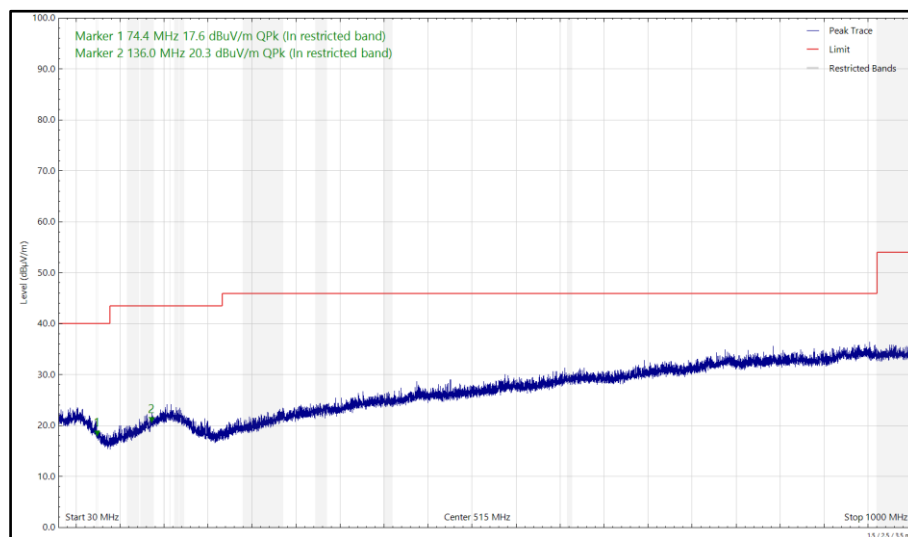


Figure 10 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

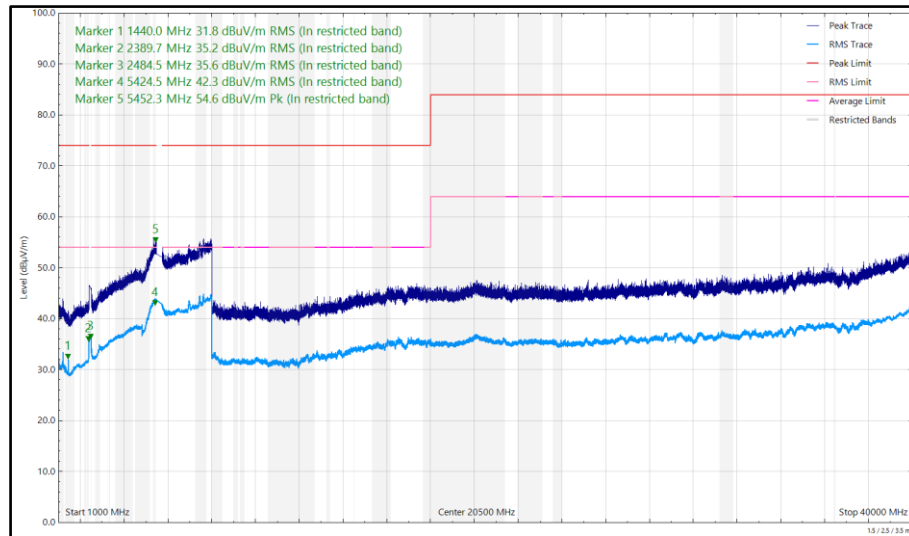


Figure 11 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

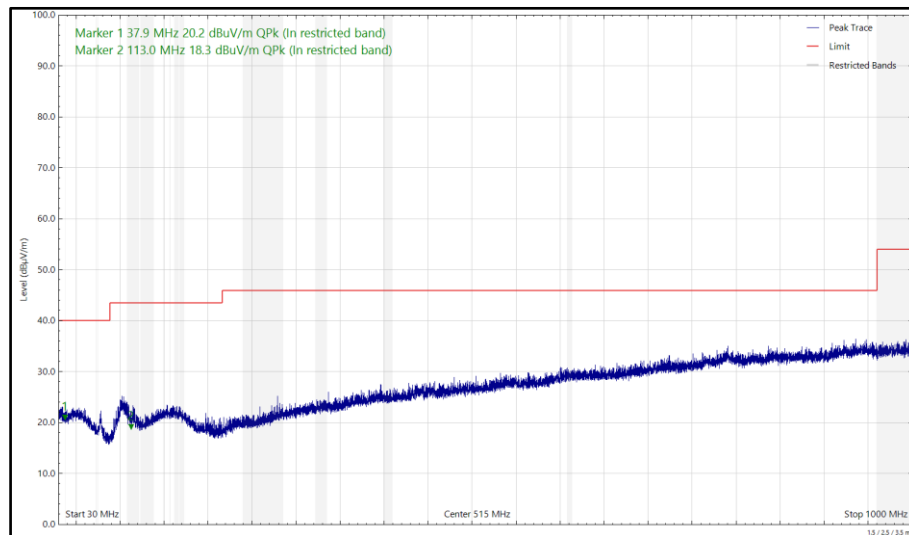


Figure 12 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

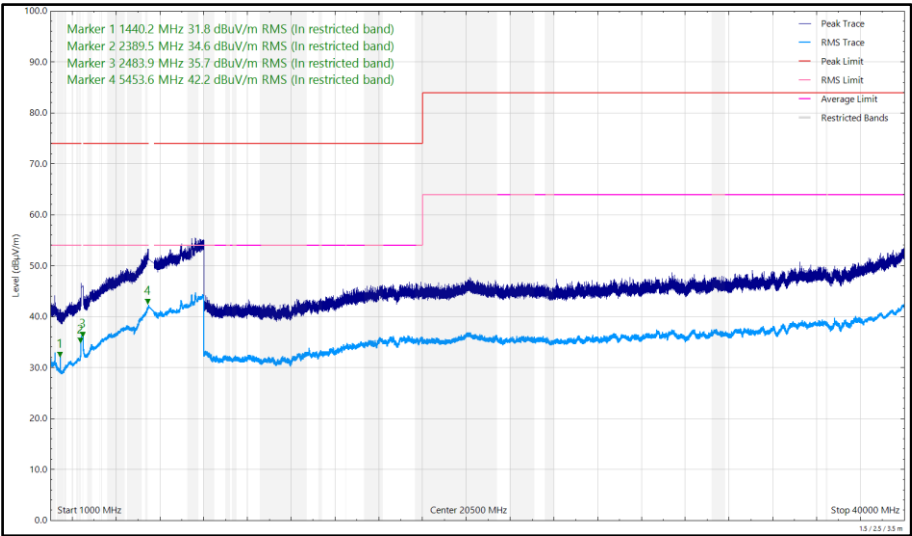


Figure 13 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.039	17.80	40.00	-22.20	Q-Peak	141	382	Vertical
73.511	17.79	40.00	-22.21	Q-Peak	1	353	Horizontal
111.334	18.48	43.50	-25.02	Q-Peak	56	129	Vertical
133.174	19.93	43.50	-23.57	Q-Peak	214	389	Horizontal
2387.292	34.53	54.00	-19.47	RMS	70	191	Horizontal
2483.733	35.91	54.00	-18.09	RMS	71	278	Horizontal
5359.621	54.09	74.00	-19.91	Peak	212	113	Horizontal
5452.191	41.07	54.00	-12.93	RMS	183	158	Vertical
5453.111	42.96	54.00	-11.04	RMS	204	212	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.

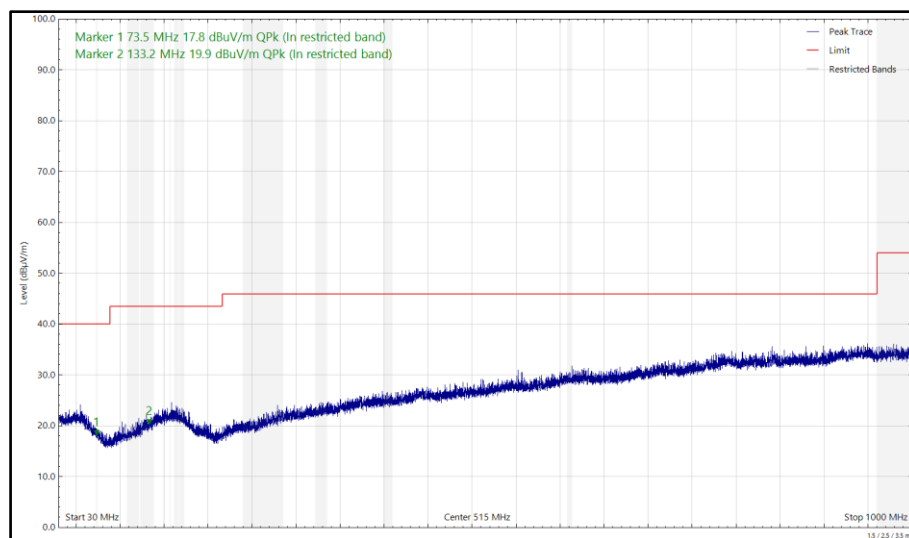


Figure 14 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

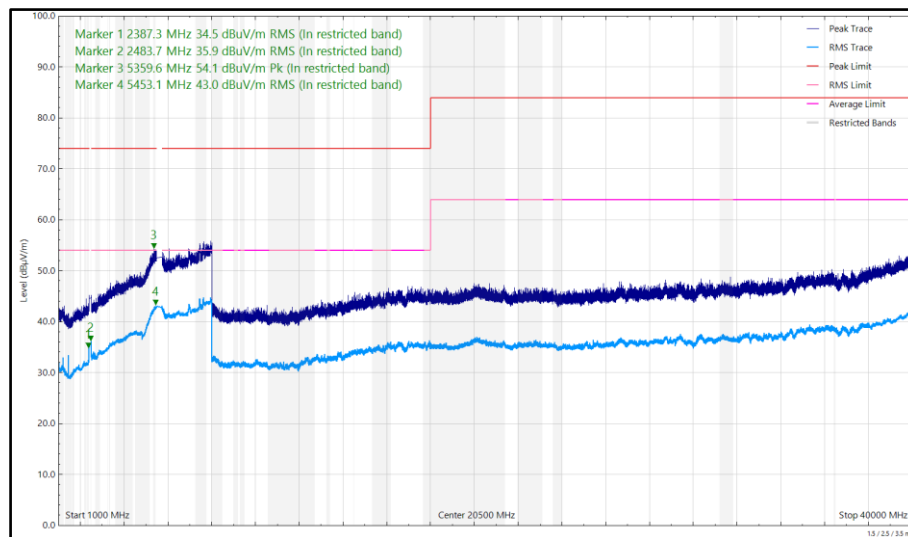


Figure 15 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

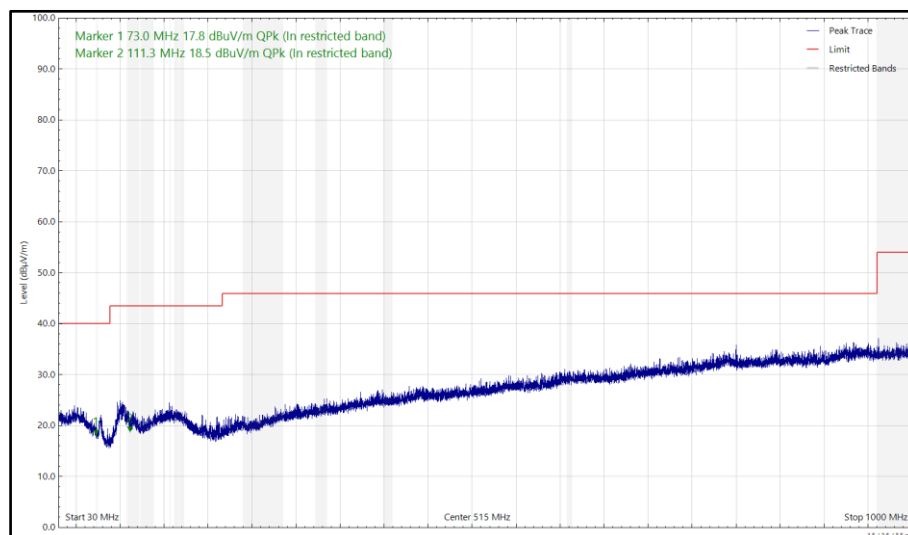


Figure 16 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

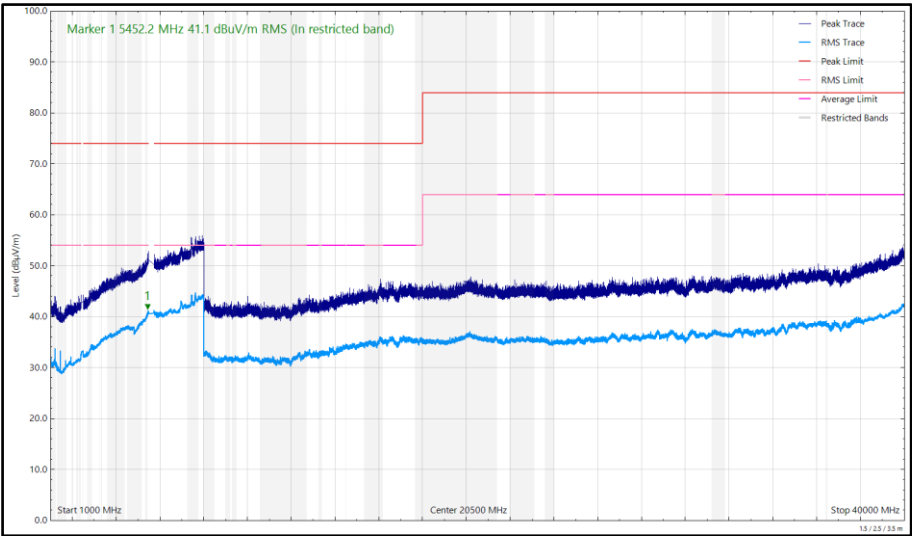


Figure 17 - 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

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	-20 dBc
Part 15.407 (b) / RSS-247 Clause 6.6, 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
73.298	17.80	40.00	-22.20	Q-Peak	208	342	Vertical
73.662	17.79	40.00	-22.21	Q-Peak	52	360	Horizontal
109.126	18.69	43.50	-24.81	Q-Peak	201	105	Vertical
127.673	19.24	43.50	-24.26	Q-Peak	84	280	Horizontal
2389.822	35.68	54.00	-18.32	RMS	125	100	Horizontal
2389.974	35.11	54.00	-18.89	RMS	178	130	Vertical
2483.591	36.55	54.00	-17.45	RMS	118	100	Horizontal
2484.689	37.12	54.00	-16.88	RMS	181	143	Vertical
5429.720	39.13	54.00	-14.87	RMS	206	103	Horizontal
5435.577	38.01	54.00	-15.99	RMS	186	141	Vertical

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.

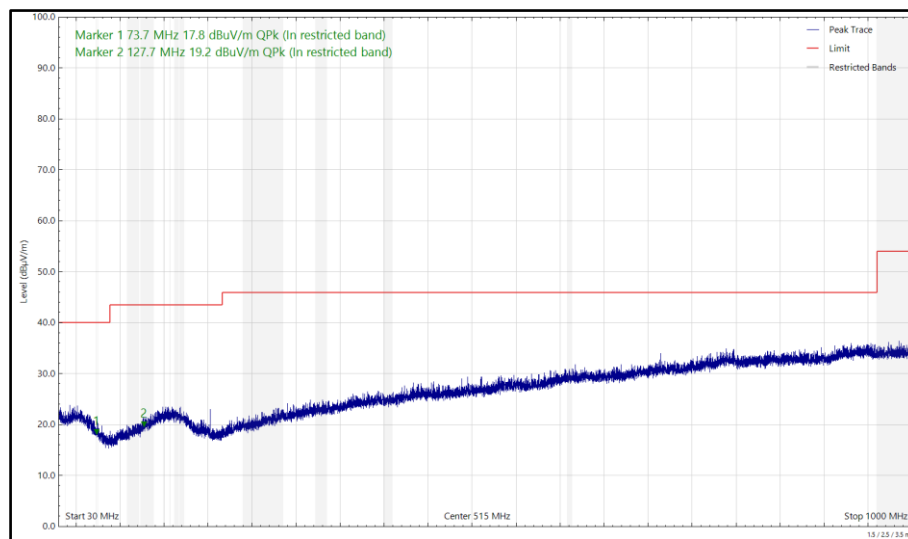


Figure 18 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

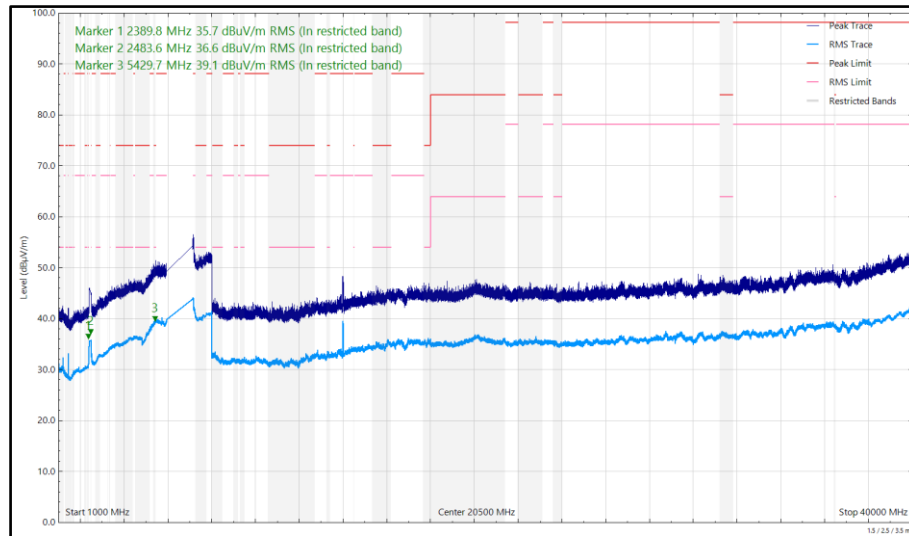


Figure 19 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Horizontal

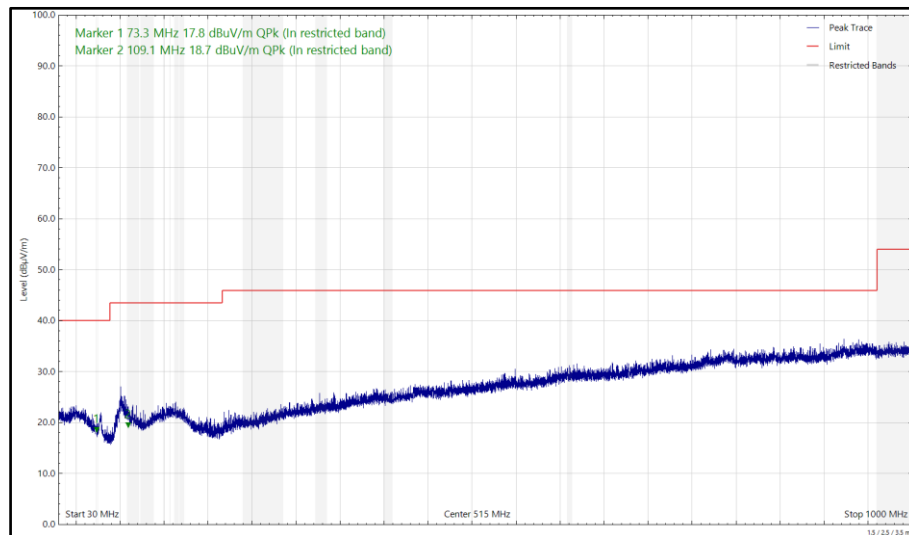


Figure 20 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

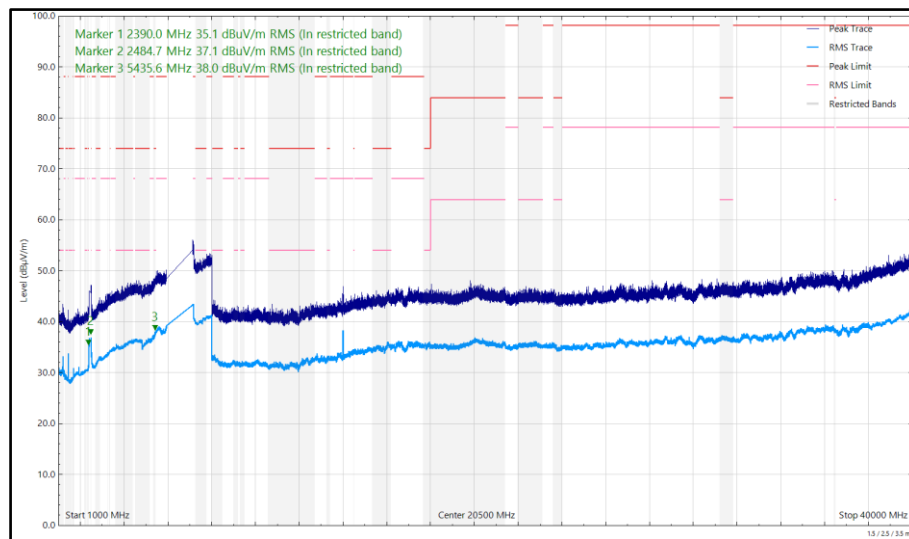


Figure 21 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.205	17.79	40.00	-22.21	Q-Peak	281	103	Vertical
75.071	17.54	40.00	-22.46	Q-Peak	301	240	Horizontal
113.011	18.60	43.50	-24.90	Q-Peak	73	100	Vertical
134.636	20.13	43.50	-23.37	Q-Peak	115	398	Horizontal
2389.966	34.71	54.00	-19.29	RMS	76	273	Horizontal
2484.786	36.21	54.00	-17.79	RMS	78	268	Horizontal
5423.404	39.80	54.00	-14.20	RMS	187	232	Horizontal
5437.506	37.51	54.00	-16.49	RMS	176	264	Vertical

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.

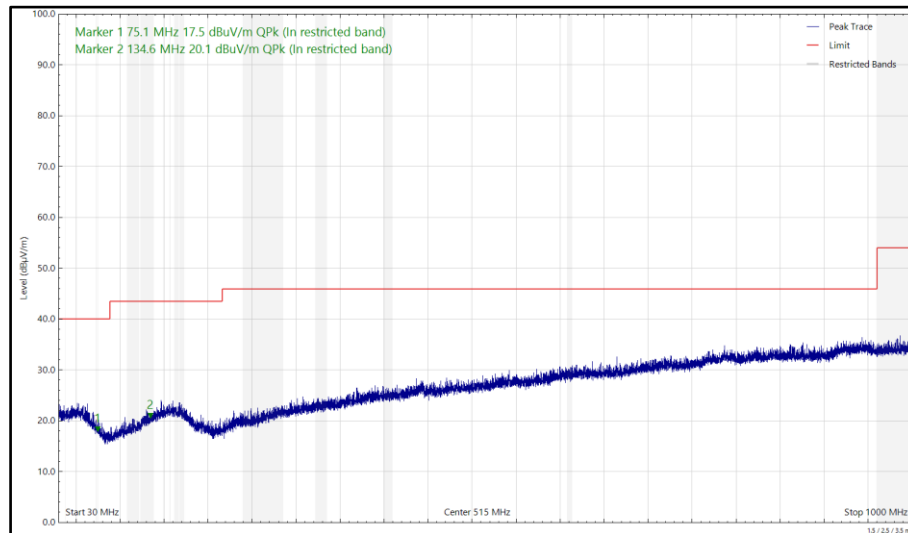


Figure 22 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

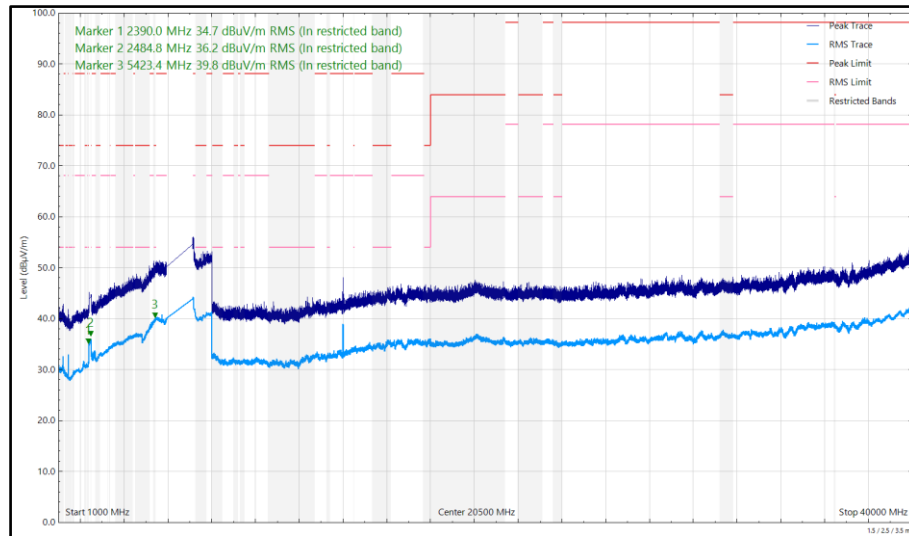


Figure 23 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Horizontal

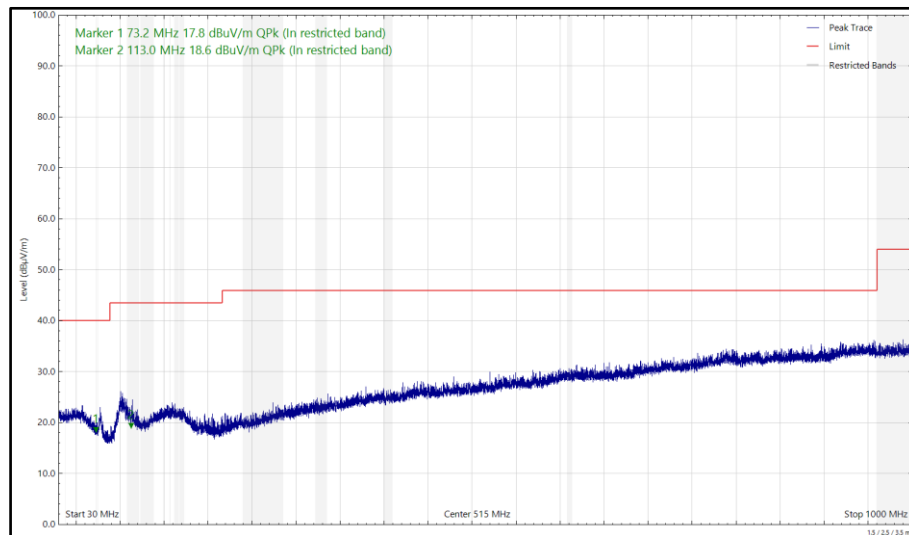


Figure 24 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

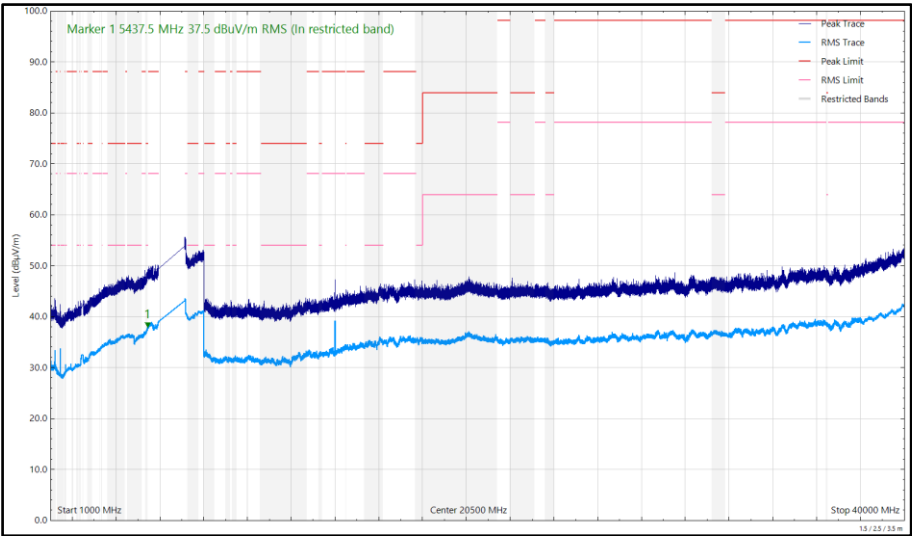


Figure 25 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 40 GHz, Vertical

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	-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 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
37.623	20.19	40.00	-19.81	Q-Peak	350	102	Vertical
38.123	20.16	40.00	-19.84	Q-Peak	83	230	Horizontal
164.494	21.86	43.50	-21.64	Q-Peak	10	399	Horizontal
168.440	21.78	43.50	-21.72	Q-Peak	192	379	Vertical
249.571	20.14	46.00	-25.86	Q-Peak	347	378	Horizontal
2387.934	39.81	54.00	-14.19	CISPR Avg	184	107	Vertical
2388.125	40.52	54.00	-13.48	CISPR Avg	118	100	Horizontal
2398.182	65.76	74.00	-8.24	Peak	115	143	Horizontal
2399.442	67.84	74.00	-6.16	Peak	174	164	Vertical
2483.726	58.40	74.00	-15.60	Peak	113	146	Horizontal
2485.437	57.69	74.00	-16.31	Peak	169	135	Vertical
2485.853	41.48	54.00	-12.52	CISPR Avg	160	104	Vertical
2489.879	36.22	54.00	-17.78	CISPR Avg	132	331	Horizontal
5111.059	34.05	54.00	-19.95	CISPR Avg	12	218	Vertical
5149.578	34.84	54.00	-19.16	CISPR Avg	180	150	Horizontal
5403.613	37.40	54.00	-16.60	CISPR Avg	193	173	Horizontal
5459.995	36.17	54.00	-17.83	CISPR Avg	350	179	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.

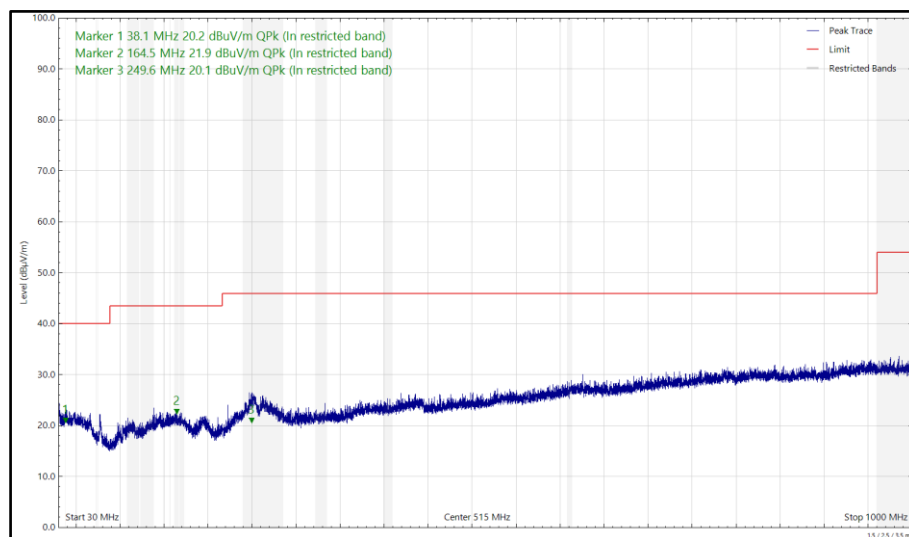


Figure 26 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

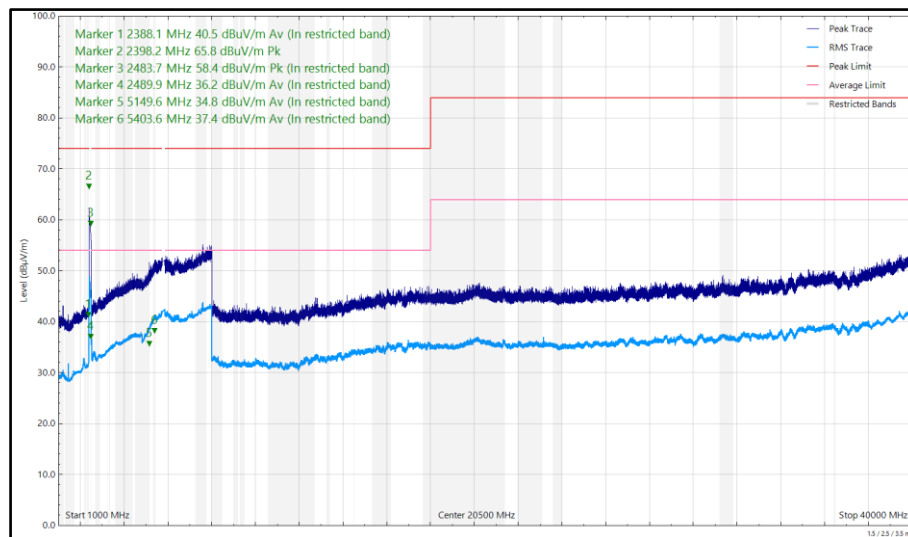


Figure 27 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

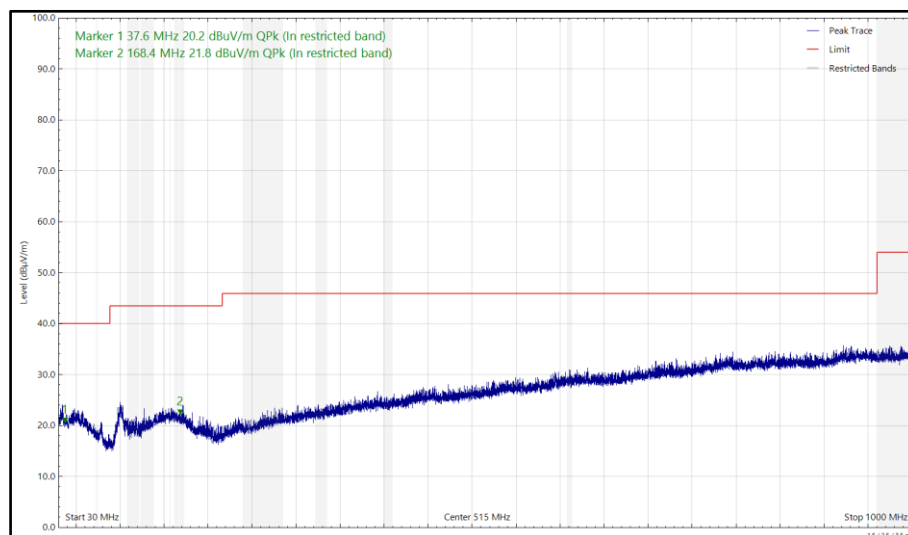


Figure 28 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

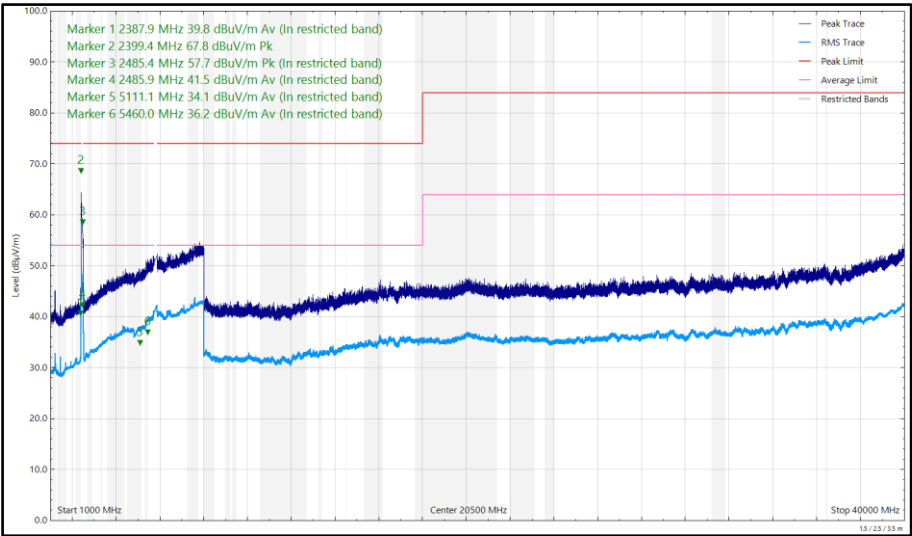


Figure 29 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz, DH5, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 6.6, 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
37.562	19.92	40.00	-20.08	Q-Peak	52	119	Horizontal
37.888	21.14	40.00	-18.86	Q-Peak	350	245	Vertical
118.151	22.23	43.50	-21.27	Q-Peak	276	143	Vertical
120.453	20.31	43.50	-23.19	Q-Peak	305	283	Horizontal
165.970	21.54	43.50	-21.96	Q-Peak	342	160	Horizontal
250.105	25.59	46.00	-20.41	Q-Peak	174	107	Horizontal
2389.750	43.79	54.00	-10.21	RMS	170	173	Vertical
2389.974	44.38	54.00	-9.62	RMS	118	106	Horizontal
2483.737	45.31	54.00	-8.69	RMS	114	124	Horizontal
2484.146	58.65	74.00	-15.35	Peak	188	107	Vertical
2484.315	45.51	54.00	-8.49	RMS	188	107	Vertical
2485.166	52.79	74.00	-21.21	Peak	272	268	Horizontal
5030.686	36.77	54.00	-17.23	RMS	73	323	Vertical
5145.235	37.99	54.00	-16.01	RMS	171	271	Horizontal
5449.015	39.25	54.00	-14.75	RMS	343	179	Vertical
5457.376	40.34	54.00	-13.66	RMS	202	110	Horizontal

Table 18 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450MHz (CH20), 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.

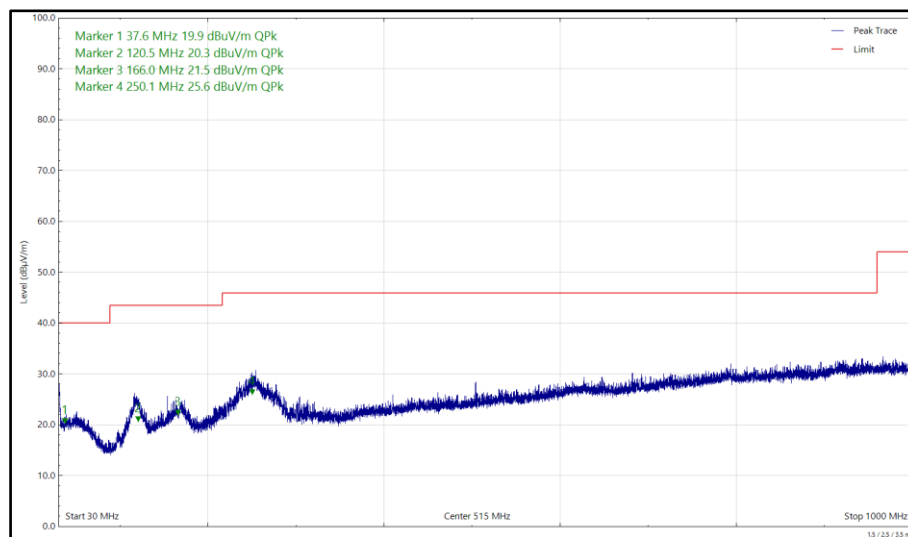


Figure 30 - 2437MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

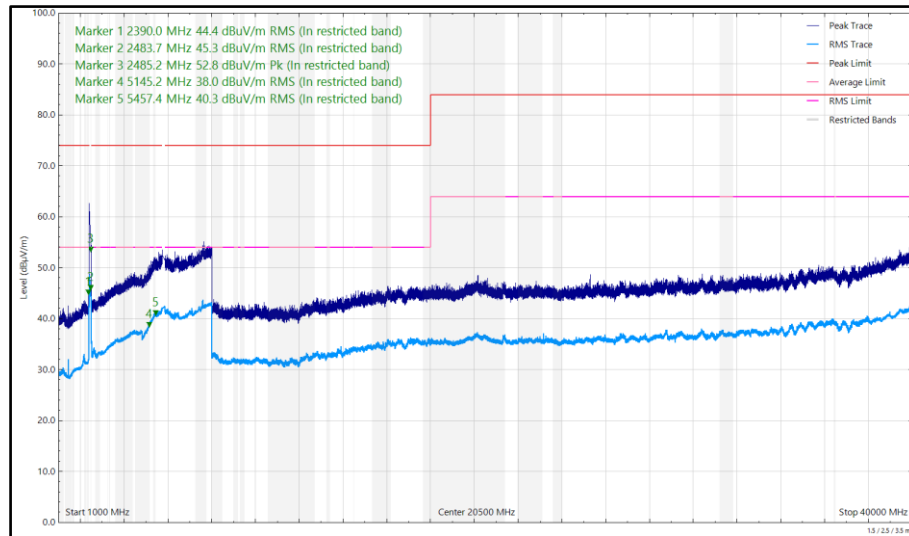


Figure 31 - 2437MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

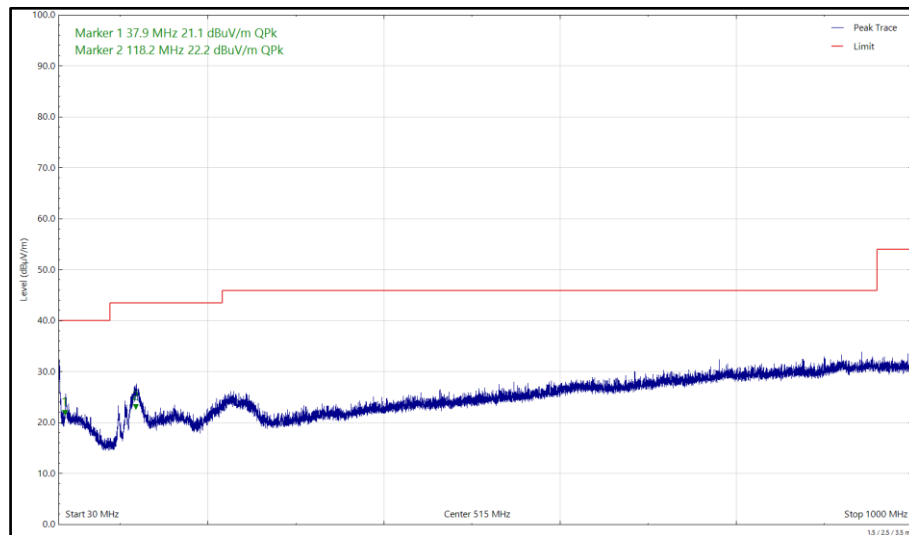


Figure 32 - 2437MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

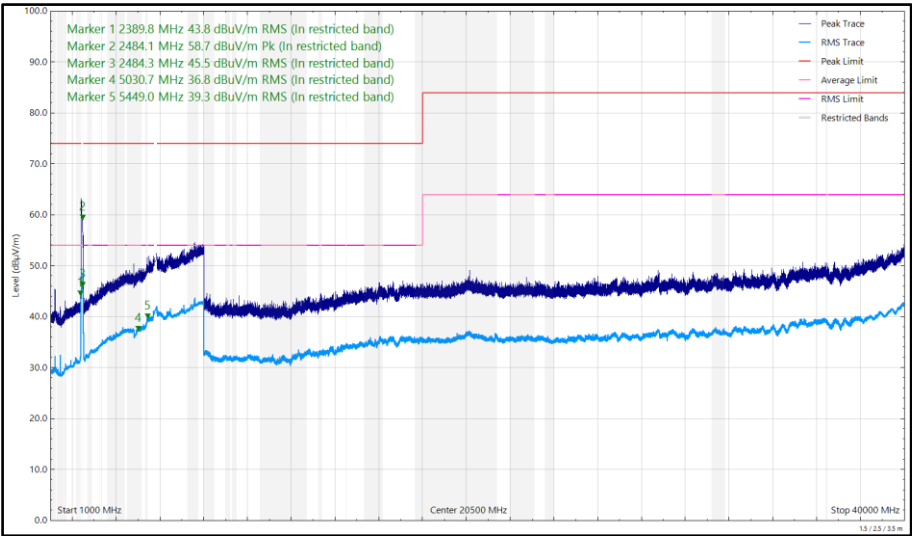


Figure 33 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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	-20 dBc
Part 15.407 (b)	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 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
37.809	20.70	40.00	-19.30	Q-Peak	210	400	Horizontal
117.603	18.46	43.50	-25.04	Q-Peak	193	300	Horizontal
131.181	20.67	43.50	-22.83	Q-Peak	360	351	Horizontal
2389.688	40.92	54.00	-13.08	CISPR Avg	123	100	Horizontal
2389.747	40.53	54.00	-13.47	CISPR Avg	189	108	Vertical
2398.266	65.93	74.00	-8.07	Peak	117	100	Horizontal
2399.942	67.74	74.00	-6.26	Peak	175	139	Vertical
2483.819	42.52	54.00	-11.48	CISPR Avg	192	100	Vertical
2483.999	40.77	54.00	-13.23	CISPR Avg	46	180	Horizontal
2484.246	56.00	74.00	-18.00	Peak	120	232	Horizontal
2485.087	57.40	74.00	-16.60	Peak	180	110	Vertical
5385.356	55.07	74.00	-18.93	Peak	196	198	Horizontal
5453.725	40.91	54.00	-13.09	CISPR Avg	201	169	Horizontal
5456.347	53.15	74.00	-20.85	Peak	321	146	Vertical
5459.058	39.34	54.00	-14.66	CISPR Avg	345	108	Vertical

Table 20 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30MHz to 40 GHz

No other emissions found within 20 dB of the limit.

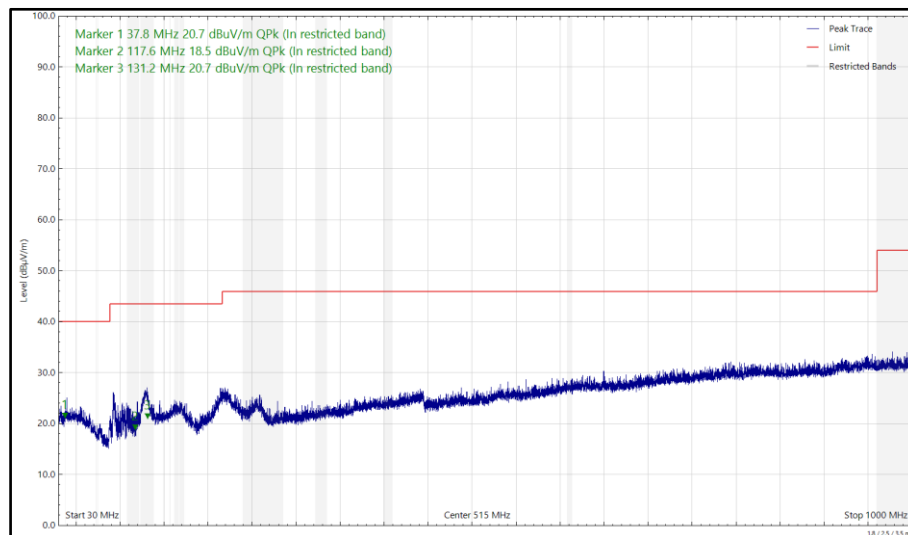


Figure 34 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

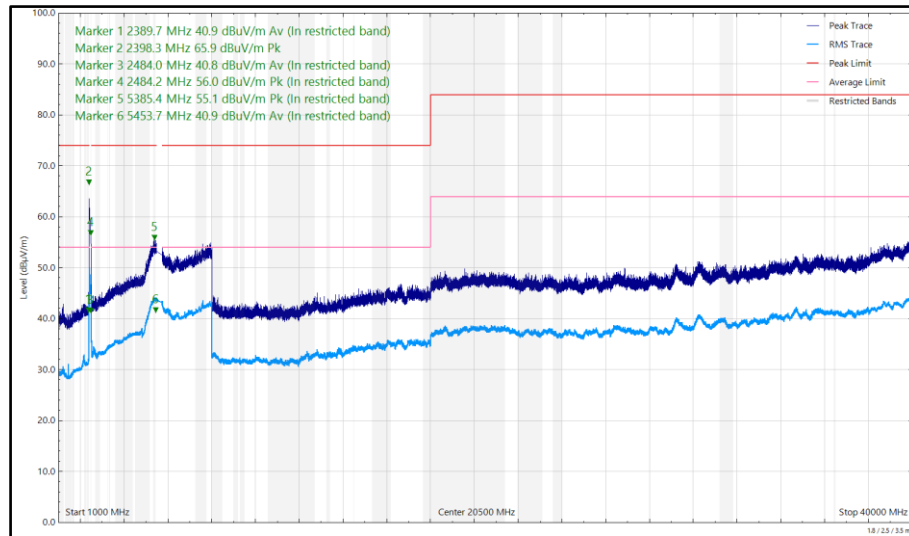


Figure 35 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

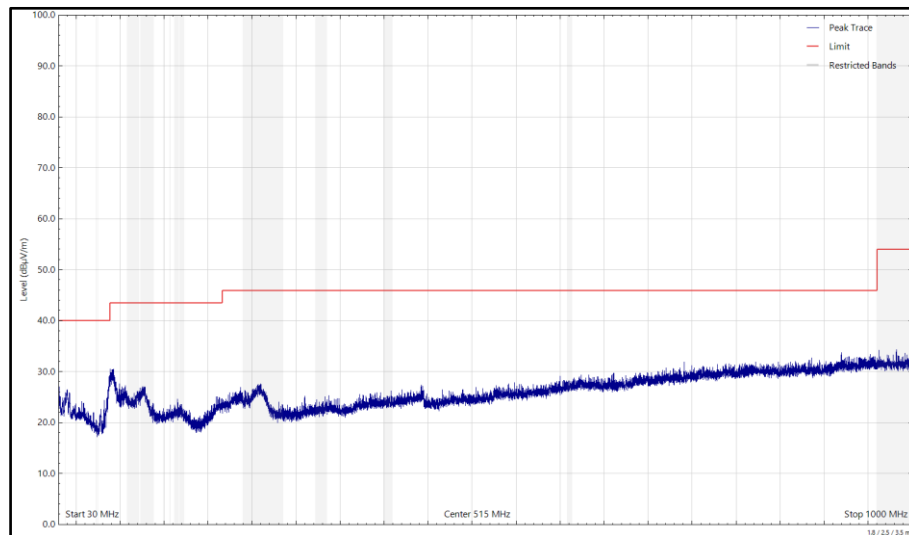


Figure 36 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

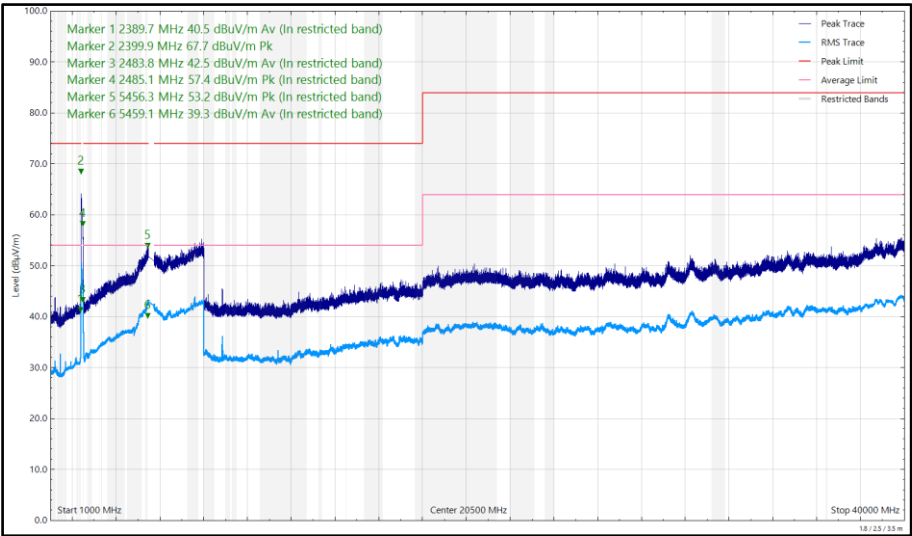


Figure 37 - 2437 MHz (CH6), HT20, CDD, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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

Table 21

2.4 GHz WLAN and 2.4 GHz Bluetooth and 6 GHz WLAN

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.789	24.32	40.00	-15.68	Q-Peak	220	168	Vertical
128.614	20.97	43.50	-22.53	Q-Peak	55	390	Horizontal
129.461	21.84	43.50	-21.66	Q-Peak	305	100	Vertical
2386.632	55.83	74.00	-18.17	Peak	183	154	Vertical
2388.899	40.29	54.00	-13.71	CISPR Avg	123	115	Horizontal
2389.996	41.47	54.00	-12.53	CISPR Avg	181	101	Vertical
2483.821	57.24	74.00	-16.76	Peak	118	154	Horizontal
2485.245	41.87	54.00	-12.13	CISPR Avg	187	137	Vertical
2485.317	58.55	74.00	-15.45	Peak	185	102	Vertical
2492.639	33.64	54.00	-20.36	CISPR Avg	230	188	Horizontal
4189.915	31.37	54.00	-22.63	CISPR Avg	273	385	Vertical
4562.501	32.21	54.00	-21.79	CISPR Avg	356	112	Vertical
5360.168	36.86	54.00	-17.14	CISPR Avg	194	166	Horizontal
5424.772	35.37	54.00	-18.63	CISPR Avg	354	144	Vertical
7254.787	37.92	54.00	-16.08	CISPR Avg	216	275	Horizontal
7586.922	37.15	54.00	-16.85	CISPR Avg	332	146	Vertical

Table 22 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

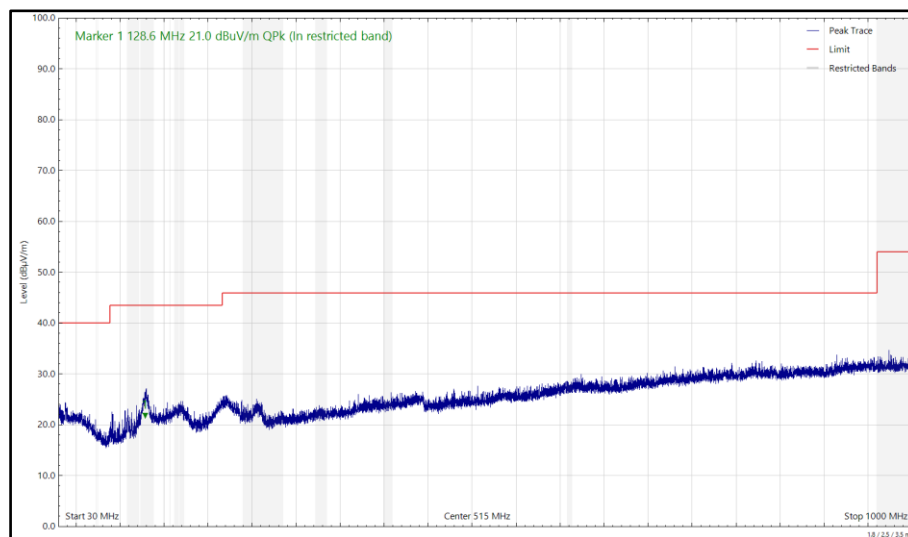


Figure 38 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

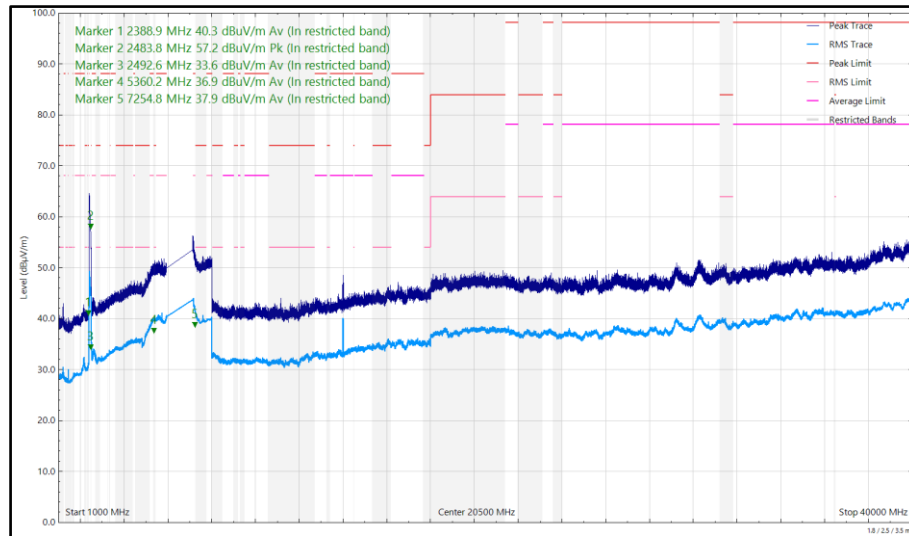


Figure 39 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

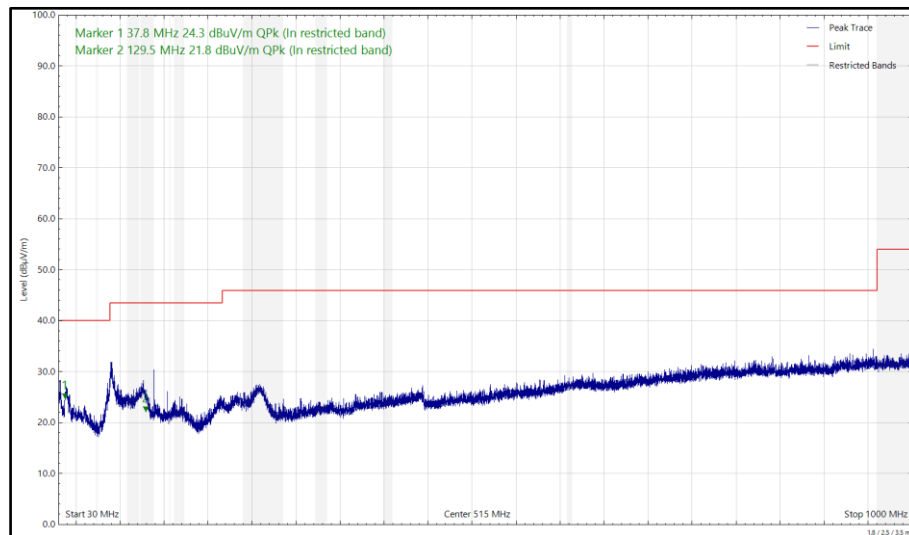


Figure 40 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

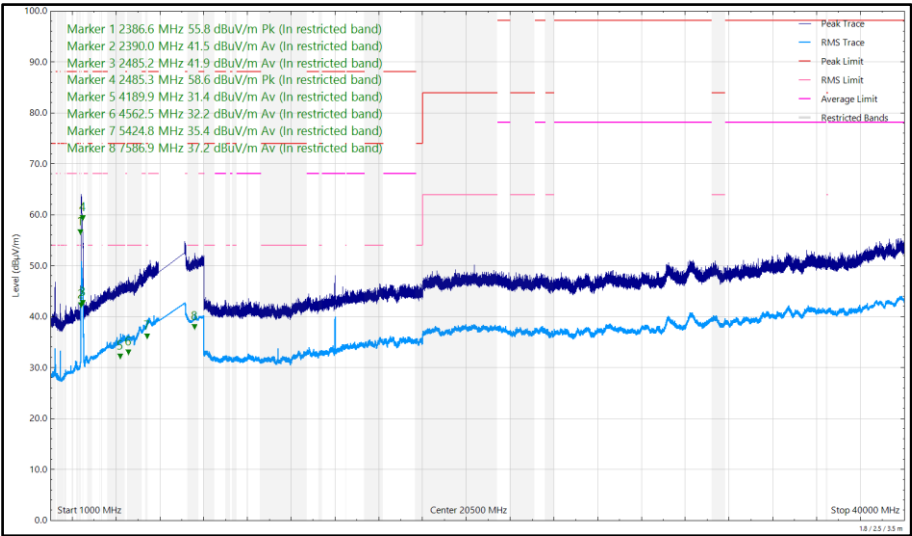


Figure 41 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH48), DH5, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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
38.167	23.69	40.00	-16.31	Q-Peak	150	245	Vertical
108.548	21.45	43.50	-22.05	Q-Peak	360	269	Horizontal
128.337	21.26	43.50	-22.24	Q-Peak	231	271	Horizontal
2389.325	54.09	74.00	-19.91	Peak	169	135	Vertical
2389.644	42.50	54.00	-11.50	RMS	188	100	Vertical
2389.868	44.60	54.00	-9.40	RMS	113	104	Horizontal
2483.572	44.76	54.00	-9.24	RMS	115	110	Horizontal
2485.558	44.49	54.00	-9.51	RMS	163	104	Vertical
2485.728	58.40	74.00	-15.60	Peak	163	104	Vertical
5119.610	40.48	54.00	-13.52	RMS	24	211	Vertical
5149.554	41.40	54.00	-12.60	RMS	179	171	Horizontal
5357.164	44.05	54.00	-9.95	RMS	197	211	Horizontal
5388.032	54.78	74.00	-19.22	Peak	186	195	Horizontal
5458.526	42.80	54.00	-11.20	RMS	346	182	Vertical

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

No other emissions found within 20 dB of the limit.

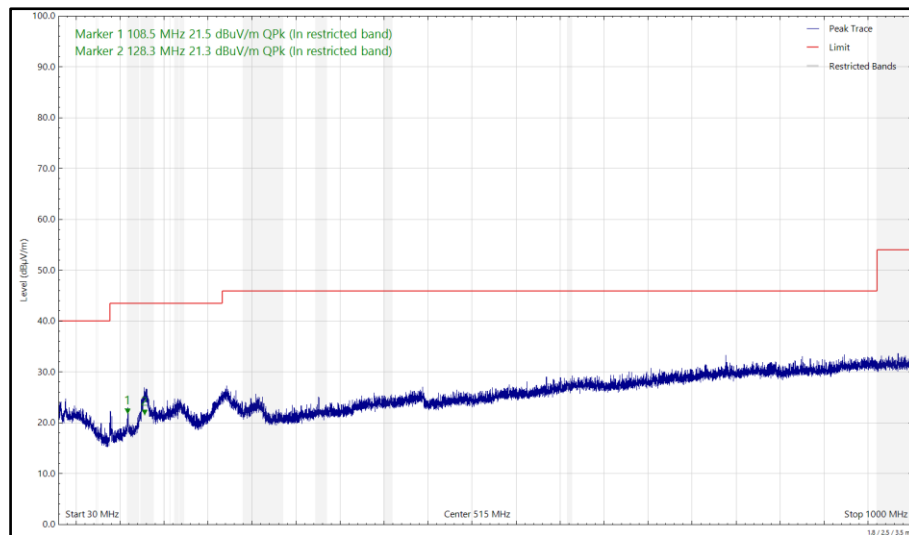


Figure 42 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

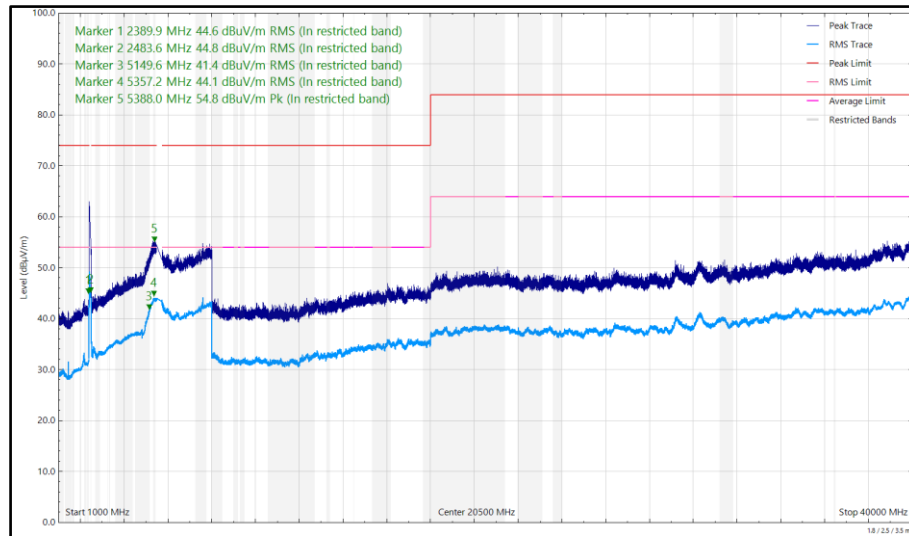


Figure 43 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

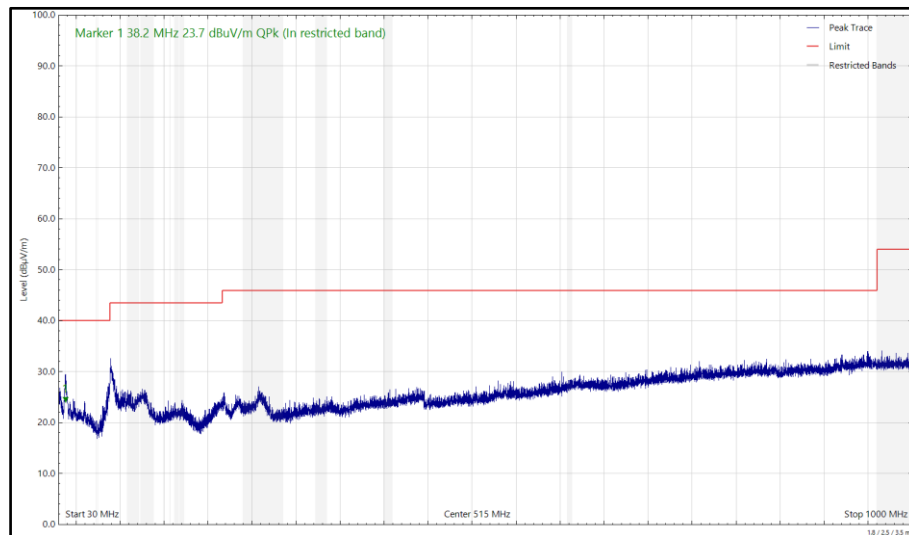


Figure 44 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

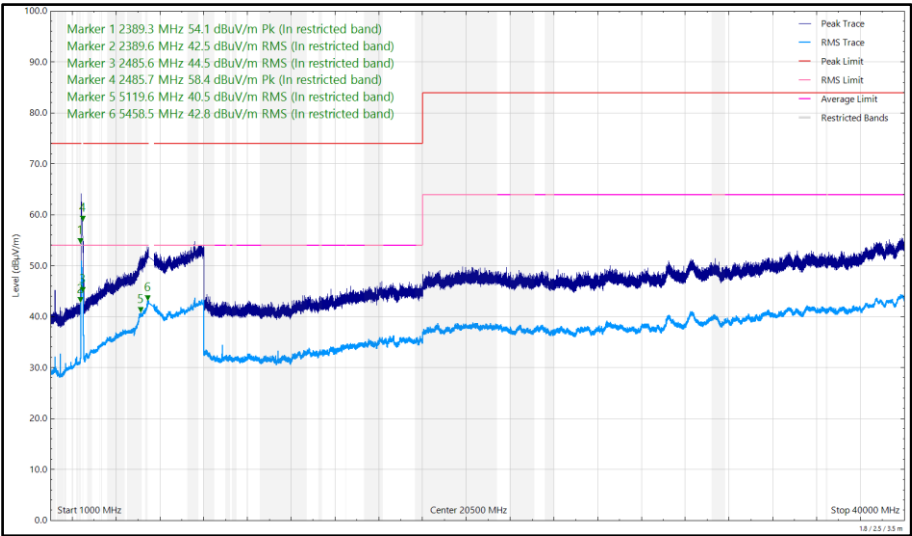


Figure 45 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 5640 MHz (CH128), HT20, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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 6.6, 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
110.736	20.79	43.50	-22.71	Q-Peak	26	102	Vertical
128.716	20.74	43.50	-22.76	Q-Peak	252	197	Horizontal
171.824	20.94	43.50	-22.56	Q-Peak	3	190	Vertical
2388.477	56.34	74.00	-17.66	Peak	118	100	Horizontal
2389.205	42.97	54.00	-11.03	RMS	185	120	Vertical
2389.604	44.38	54.00	-9.62	RMS	120	107	Horizontal
2484.513	58.21	74.00	-15.79	Peak	180	100	Vertical
2485.872	44.21	54.00	-9.79	RMS	111	104	Horizontal
2485.947	42.16	54.00	-11.84	RMS	144	307	Vertical
2485.970	59.03	74.00	-14.97	Peak	115	104	Horizontal
3979.958	33.98	54.00	-20.02	RMS	148	393	Vertical
4039.452	34.02	54.00	-19.98	RMS	186	390	Vertical
5110.461	37.48	54.00	-16.52	RMS	21	115	Vertical
5148.754	37.75	54.00	-16.25	RMS	199	221	Horizontal
5394.072	39.74	54.00	-14.26	RMS	199	253	Horizontal
5453.142	38.31	54.00	-15.69	RMS	22	213	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), Thread, iPA, Core 2, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

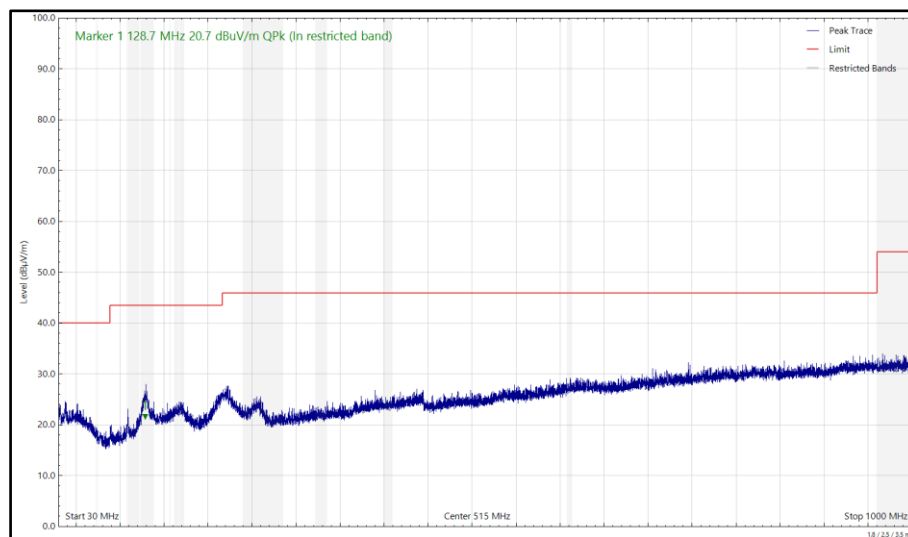


Figure 46 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

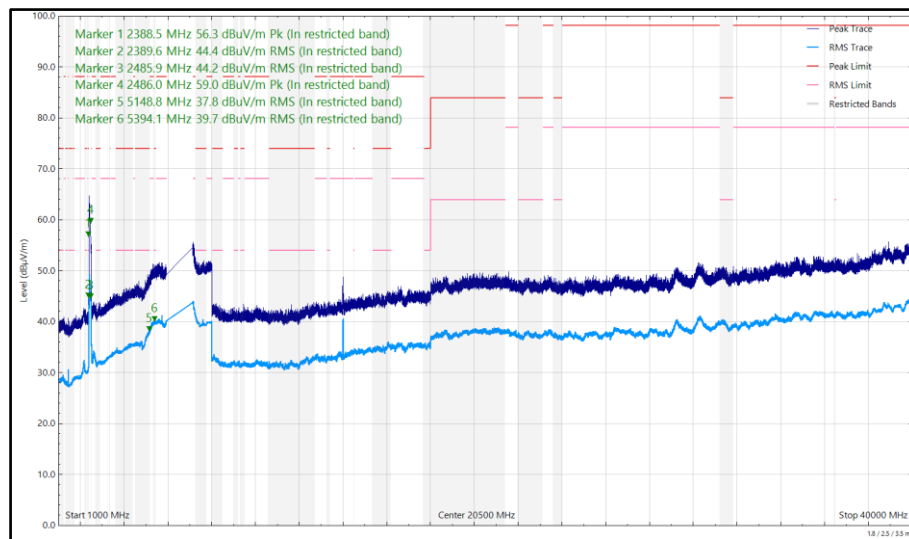


Figure 47 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 1 GHz to 40 GHz, Horizontal

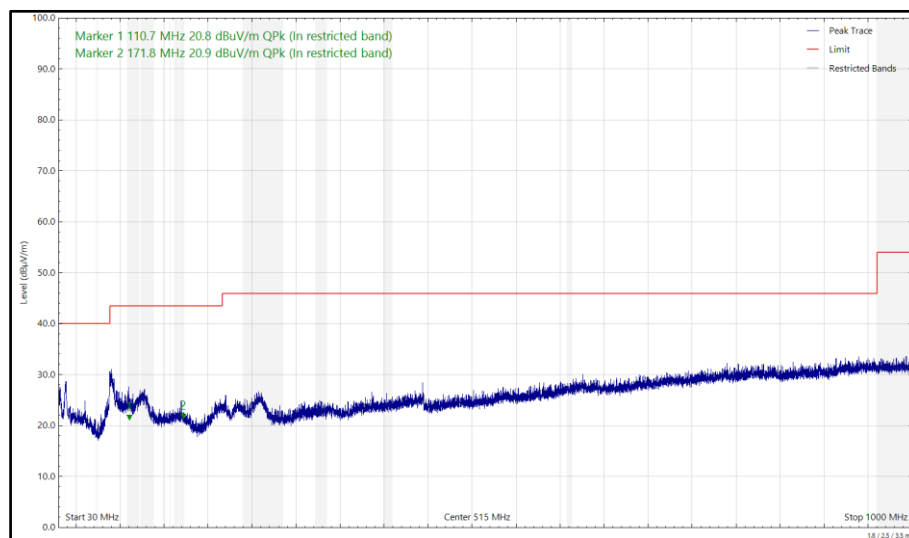


Figure 48 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

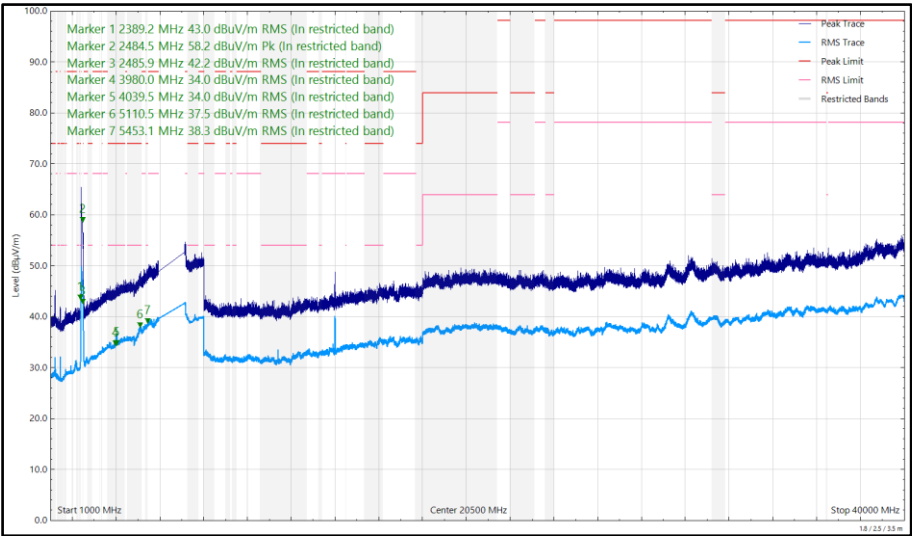


Figure 49 - 2437 MHz (CH6), HT20, Core 0 + Core 1 and 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1 and 2450 MHz (CH20), Thread, iPA, Core 2, 1 GHz to 40 GHz, Vertical

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 27

2.4 GHz Bluetooth and Narrowband

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.670	17.77	40.00	-22.23	Q-Peak	10	368	Vertical
73.750	17.71	40.00	-22.29	Q-Peak	25	298	Horizontal
112.559	18.35	43.50	-25.15	Q-Peak	0	225	Vertical
132.121	19.89	43.50	-23.61	Q-Peak	180	346	Horizontal
1200.615	31.70	54.00	-22.30	CISPR Avg	176	326	Vertical
1440.276	31.67	54.00	-22.33	CISPR Avg	150	253	Horizontal
2387.937	33.03	54.00	-20.97	CISPR Avg	120	100	Horizontal
2388.368	31.15	54.00	-22.85	CISPR Avg	172	135	Vertical
2483.693	32.44	54.00	-21.56	CISPR Avg	78	263	Horizontal
2485.127	33.07	54.00	-20.93	CISPR Avg	188	161	Vertical

Table 28 - 2441 MHz, 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.

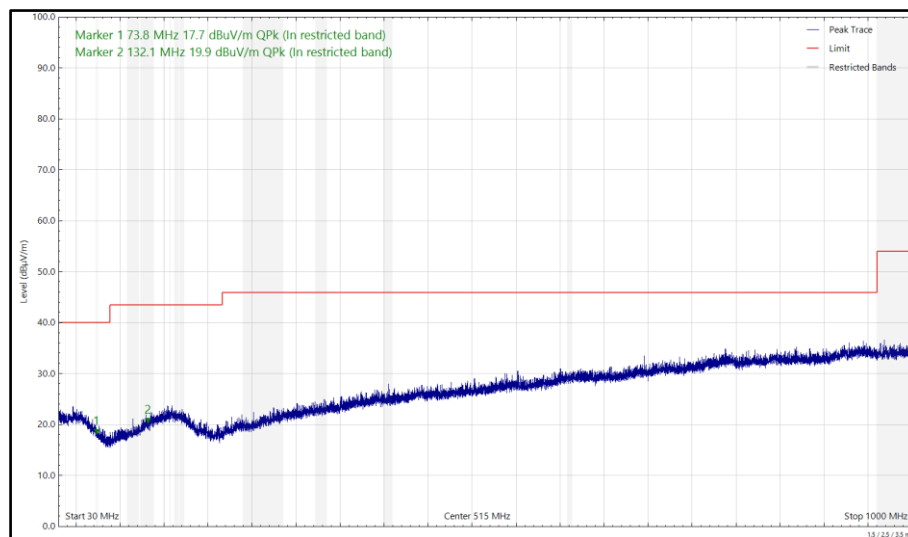


Figure 50 - 2441 MHz, DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

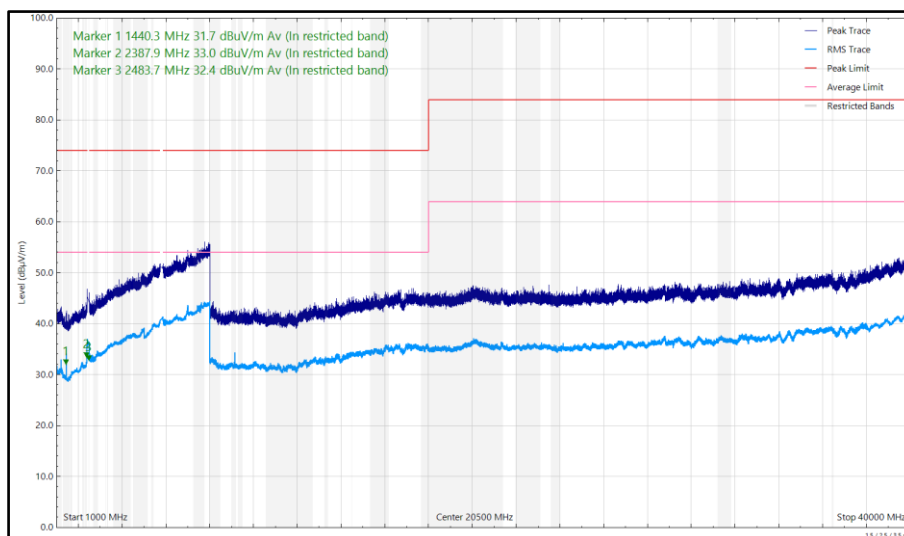


Figure 51 - 2441 MHz, DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

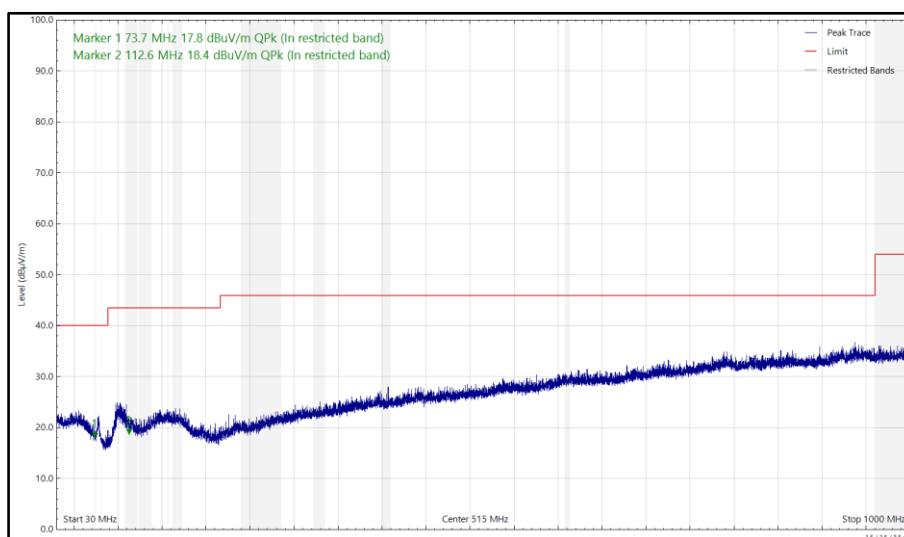


Figure 52 - 2441 MHz, DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

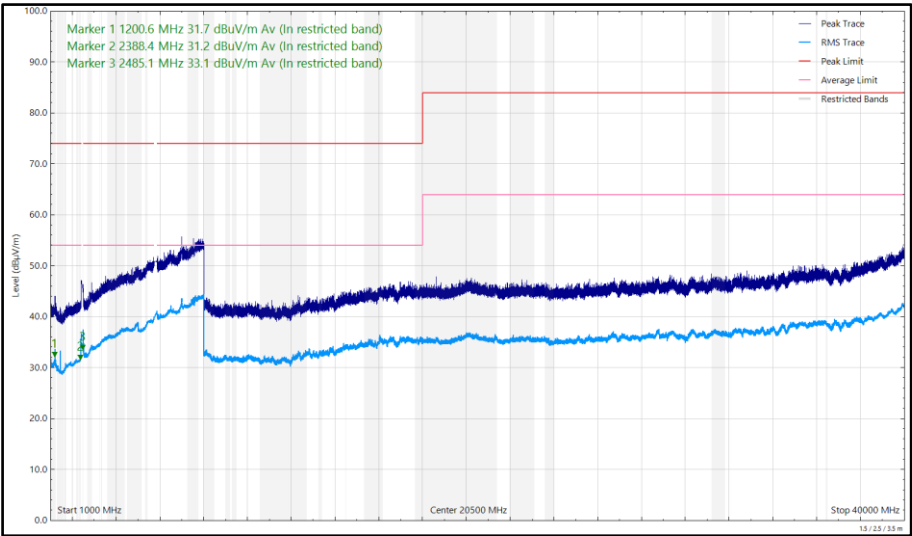


Figure 53 - 2441 MHz, DH5, ePA, Core 0 + Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, ISED RSS-247 & 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 5.5	-20 dBc
Part 15.407 (b) / RSS-247 Clause 6.2	-27 dBm e.i.r.p

Table 29

Thread and Narrowband

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.249	17.81	40.00	-22.19	Q-Peak	205	363	Horizontal
73.718	17.69	40.00	-22.31	Q-Peak	214	188	Vertical
128.566	19.37	43.50	-24.13	Q-Peak	0	399	Horizontal
164.727	21.90	43.50	-21.60	Q-Peak	50	263	Vertical
1199.969	31.83	54.00	-22.17	RMS	173	270	Vertical
1440.053	33.27	54.00	-20.73	RMS	138	347	Vertical
2389.860	34.61	54.00	-19.39	RMS	240	212	Horizontal
2389.953	35.51	54.00	-18.49	RMS	174	100	Vertical
2484.520	36.48	54.00	-17.52	RMS	118	110	Horizontal
2484.600	36.49	54.00	-17.51	RMS	186	178	Vertical

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.

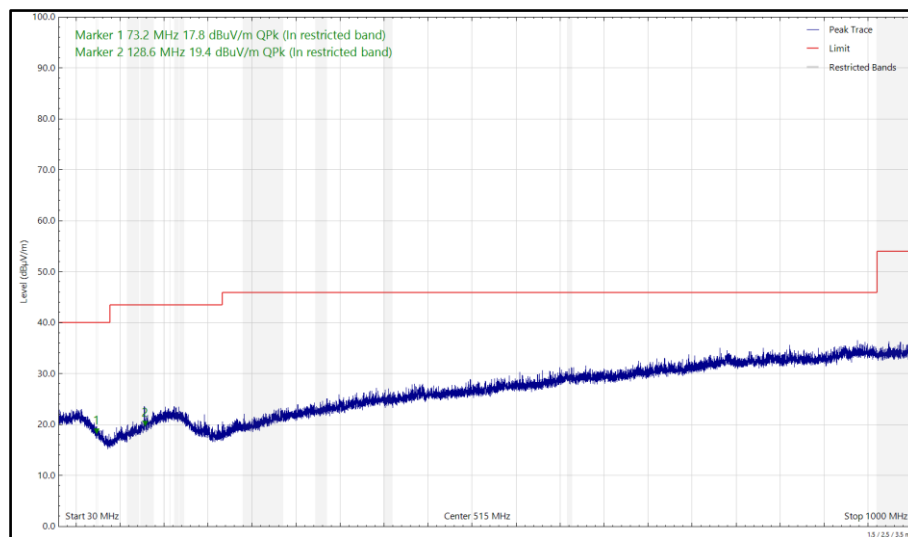


Figure 54 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

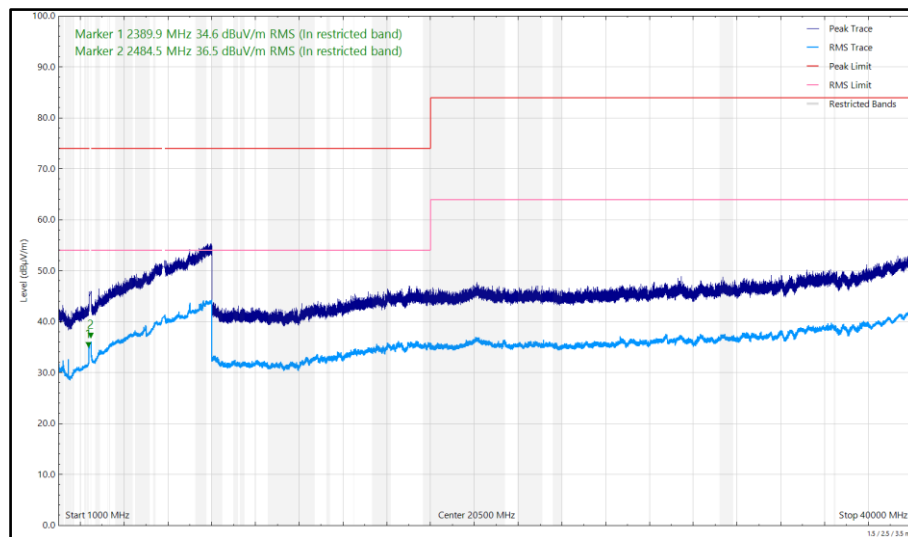


Figure 55 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

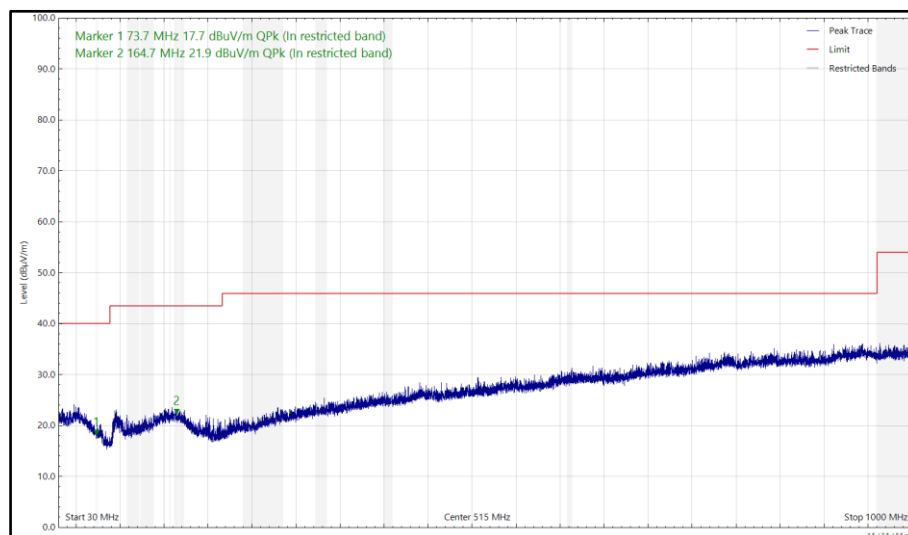


Figure 56 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

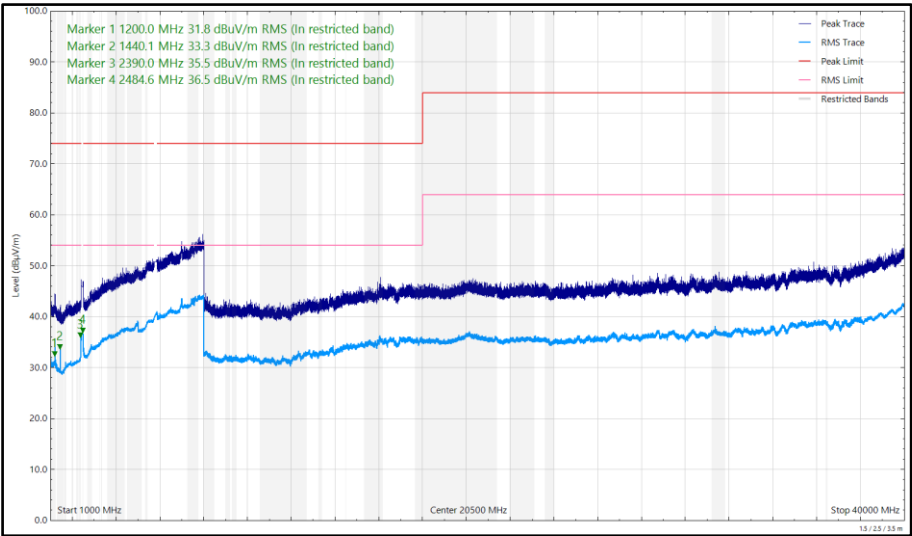


Figure 57 - 2440 MHz (CH18), Thread, ePA, Core 0 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
37.534	20.24	40.00	-19.76	Q-Peak	96	202	Vertical
37.643	20.14	40.00	-19.86	Q-Peak	56	100	Horizontal
168.860	21.80	43.50	-21.70	Q-Peak	281	275	Vertical
171.344	21.59	43.50	-21.91	Q-Peak	1	351	Horizontal
1440.101	34.28	54.00	-19.72	RMS	142	357	Vertical
2389.333	35.06	54.00	-18.94	RMS	70	247	Horizontal
2483.820	36.01	54.00	-17.99	RMS	74	277	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.

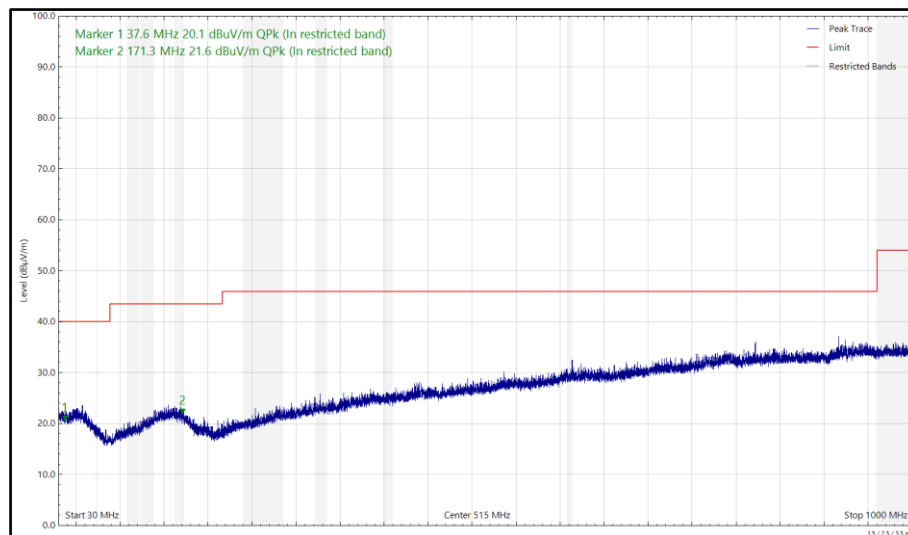


Figure 58 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

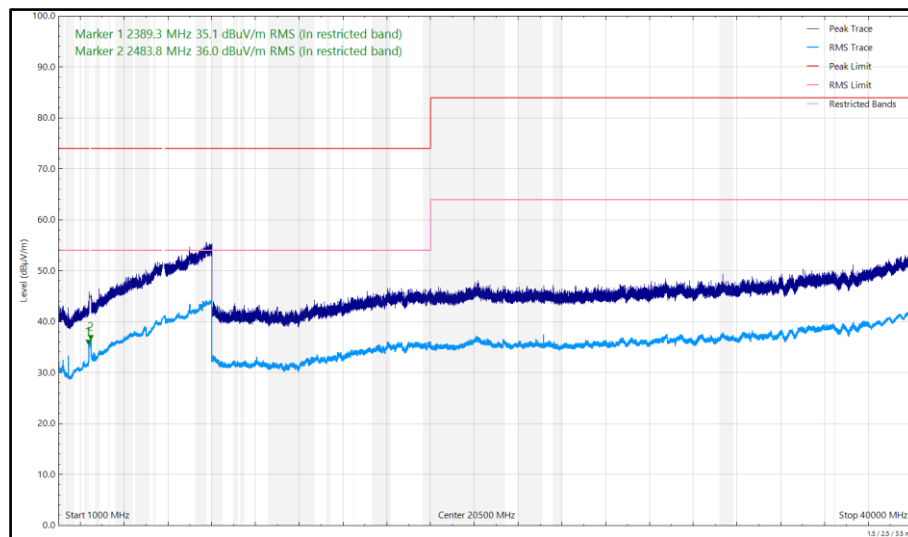


Figure 59 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

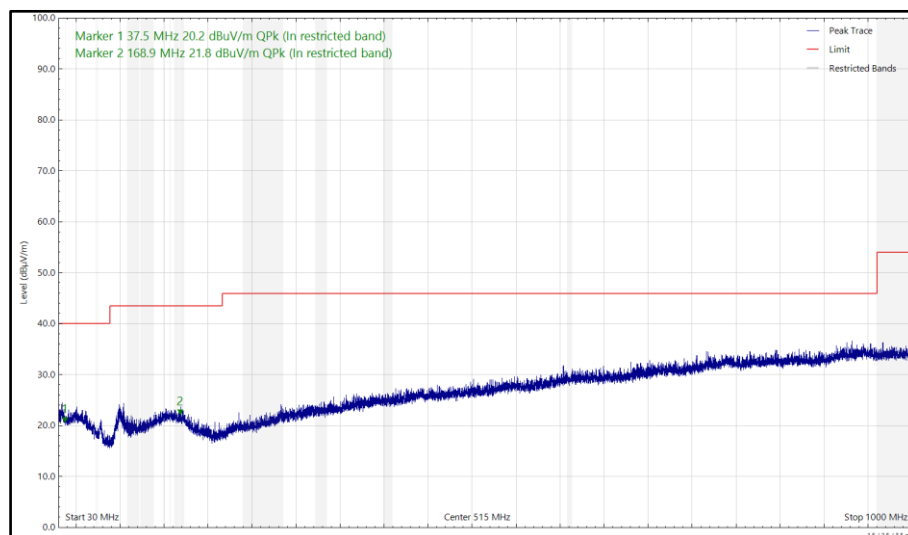


Figure 60 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

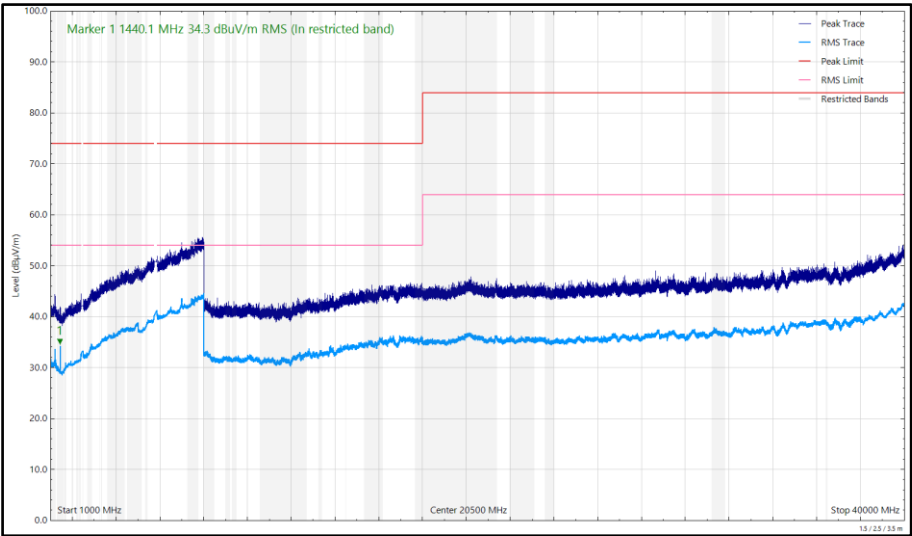


Figure 61 - 2440 MHz (CH18), Thread, ePA, Core 1 and 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 5.5	-20 dBc
Part 15.407 (b) / RSS-247 Clause 6.2	-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 32



2.1.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14, RF Chamber 15, RF Chamber 16 & RF Chamber 17

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.6.3	5125	-	TU
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	04-Sep-2026
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5941	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	5956	-	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
Turntable	Maturo Gmbh	TT1.5SI	5962	-	TU
5m Semi-Anechoic Chamber (Dual-Axis), Chamber 15	Albatross Projects	RF Chamber 15	5963	36	23-Apr-2028
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5964	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
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	6141	12	14-Sep-2026
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	14-Sep-2026
SAC Switch Unit	TUV SUD	TUV_SSU_001	6144	12	05-Dec-2026
Digital Multimeter	Fluke	115	6145	12	02-Jun-2027
Digital Multimeter	Fluke	115	6146	12	03-Jun-2027
Digital Multimeter	Fluke	115	6147	12	03-Jun-2027
Double Ridge Active Horn Antenna (18-40 GHz)	Com-Power	AHA-840	6187	24	03-Sep-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	6191	12	18-Dec-2026



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
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	6220	12	23-Apr-2027
EMI Test Receiver	Rohde & Schwarz	ESW44	6294	12	23-Mar-2027
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	6323	12	27-Apr-2027
Cable (SMA to SMA 1m)	Junkosha	MWX221/B	6305	12	19-May-2027
EMC Test Receiver	Rohde & Schwarz	ESW44	6333	12	08-May-2027
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6349	12	18-May-2027
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6456	24	13-Mar-2027
Horn Antenna (1–10.5 GHz)	Schwarzbeck	BBHA 9120 B	6457	12	14-Sep-2026
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
2m Cable	Junkosha	MWX241-02000KMSKMS/B	6742	12	27-Apr-2027
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
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	60	22-Sep-2026
1M SMA Cable	Junkosha	MWX221-01000AMSAMS/B	6832	12	18-Aug-2026
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6833	12	18-Aug-2026



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
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	6840	12	23-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6844	12	06-Sep-2026
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6845	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	6849	12	06-Nov-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6851	12	06-Nov-2026

Table 33

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



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.