

FCC and ISED Test Report

Manufacturer: Apple Inc
Model: A3434



In accordance with FCC 47 CFR Part 15C,
ISED RSS-247 and ISED RSS-GEN
(Thread)

Prepared for: Apple Inc
One Apple Park Way
Cupertino
California
95014
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TUV
SUD
Limited

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Document 75963494-16 Issue 02

SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steven White	Senior Technical Specialist	Authorised Signatory	29 July 2025

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

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15C, ISED RSS-247 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Report Generation	Rachael Watkins	29 July 2025	

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 15C: 2023, ISED RSS-247: Issue 3 (2023-08) ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02) for the tests detailed in section 1.3.



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1 Report Summary

1.1 Report Modification Record

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

Issue	Description of Change	Date of Issue
1	First Issue	28-April-2025
2	To add Blockchain verification logo	29 July 2025

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 15C: 2023 ISED RSS-247: Issue 3 (2023-08) ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02)
Start of Test	12-February-2025
Finish of Test	08-April-2025
Name of Engineer(s)	Gridi Bilali, David Hill, Akhil Rajendran Bhaskaran Nair, Colin Brain, Tony Baby, Marius Vasii.
Related Document(s)	ANSI C63.10 (2020)



1.3 Brief Summary of Results

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

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15C	RSS-247	RSS-GEN			
Configuration and Mode: Thread						
-	15.203	-	-	Antenna Requirement	N/T	The device complies with the provisions of this section, as it uses permanently attached integral antennas.
2.1	15.205	3.3	8.10	Restricted Band Edges	Pass	ANSI C63.10 (2020)
2.2	15.247 (a)(2)	5.2	6.7	Emission Bandwidth	Pass	ANSI C63.10 (2020)
2.3	15.247 (b)	5.4	6.12	Maximum Conducted Output Power	Pass	ANSI C63.10 (2020)
2.4	15.247 (d)	5.5	-	Authorised Band Edges	Pass	ANSI C63.10 (2020)
2.5	15.209 and 15.247 (d)	3.3 and 5.5	6.13 and 8.9	Spurious Radiated Emissions	Pass	ANSI C63.10 (2020)
2.6	15.247 (e)	5.2	6.12	Power Spectral Density	Pass	ANSI C63.10 (2020)

Table 2



1.4 Product Information

1.4.1 Technical Description

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

1.4.2 Test Modes

The EUT's 2.4 GHz Thread radio supports SISO operation on three different cores.

It operates at two power settings: low power "iPA" and high power "ePA", except for Core 2 which only supports the lower power mode.

The EUT uses the same output power per core for each power setting, but the antenna gains vary, resulting in a different radiated power per core.

The EUT was tested in the following modes:

SISO modes:

iPA - Core 0
iPA - Core 1
iPA - Core 2
ePA - Core 0
ePA - Core 1

1.4.3 Test Setup

For conducted tests the EUT antennas were disconnected and replaced with U. FL to SMA test cables to enable conducted testing on each core. The loss of these test cables were known and compensated for in any conducted measurements.

For all tests the EUT was put into a continuous transmit test mode with the chipset manufacturer's test commands to ensure the measured signals were representative.

All testing was performed with the EUT powered via a 120 V AC, 60 Hz source

1.4.4 Antenna Gain Table

Antenna Port	Frequency Range (MHz)	Peak Gain (dBi)	Conducted Cable Loss (dB)
Core 0	2400-2480	5.25	0.71
Core 1	2400-2480	4.30	0.71
Core 2	2400-2480	5.41	0.71

Table 3



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: A3434		
Serial Number	Hardware Version	Software Version
FM02PF6GWR	REV1.0	24E21570q
KW6HY7JMQQ	REV1.0	24E21570q
F4XG93M94R	REV1.0	24E21570q
G4G6GDQ52M	REV1.0	24E21570q
GNW32VL92V	REV1.0	24E21570q
J6MG2JN301	REV1.0	24E21570q
F5P6RDXMN4	REV1.0	24E21570q

Table 4

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: A3434, Serial Number: GNW32VL92V			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3434, Serial Number: FM02PF6GWR			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3434, Serial Number: KW6HY7JMQQ			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3434, Serial Number: F4XG93M94R			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3434, Serial Number: G4G6GDQ52M			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3434, Serial Number: J6MG2JN301			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3434, Serial Number: F5P6RDXMN4			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 5



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: Thread		
Restricted Band Edges	Gridi Bilali	UKAS
Emission Bandwidth	David Hill	UKAS
Maximum Conducted Output Power	David Hill	UKAS
Authorised Band Edges	Gridi Bilali	UKAS
Spurious Radiated Emissions	Akhil Rajendran Bhaskaran Nair, Colin Brain, Tony Baby, Marius Vasii	UKAS
Power Spectral Density	David Hill	UKAS

Table 6

Office Address:

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



2 Test Details

2.1 Restricted Band Edges

2.1.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.205
ISED RSS-247, Clause 3.3
ISED RSS-GEN, Clause 8.10

2.1.2 Equipment Under Test and Modification State

A3434, S/N: GNW32VL92V - Modification State 0
A3434, S/N: J6MG2JN301 - Modification State 0

2.1.3 Date of Test

12-February-2025 to 15-February-2025

2.1.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.10.5 and 11.12.1.

Plots for average measurements were taken in accordance with ANSI C63.10, clause 11.12.2.5.2.

The following conversion can be applied to convert from dB μ V/m to μ V/m:
 $10^{(\text{Field Strength in dB}\mu\text{V/m}/20)}$.

2.1.5 Environmental Conditions

Ambient Temperature	22.1 - 22.8 °C
Relative Humidity	35.9 - 36.2 %

2.1.6 Test Results

iPA - Core 0 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Thread	2405	2390	56.19	44.46
Thread	2475	2483.5	55.73	43.52

Table 7 - iPA, Core 0, SISO Restricted Band Edge Results

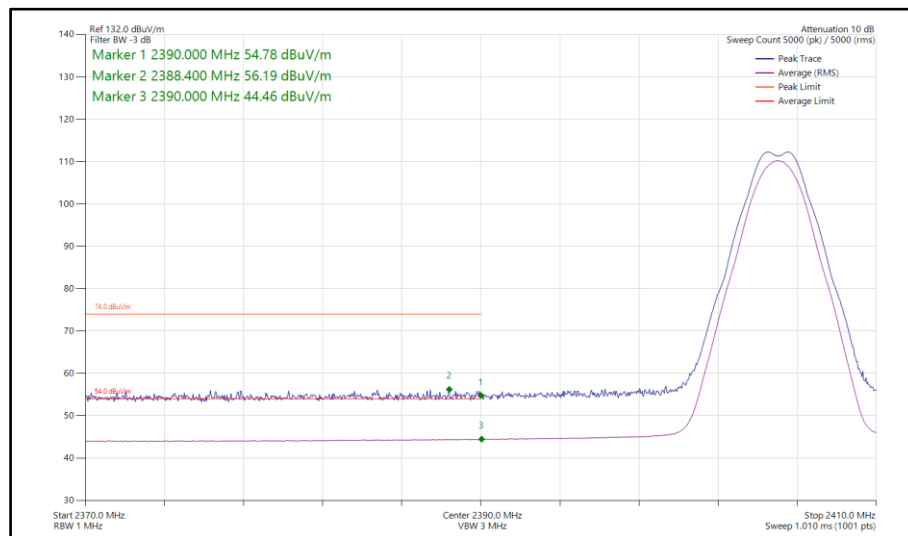


**Figure 1 - Thread, iPA, SISO, Core 0 - 2405 MHz
Band Edge Frequency 2390 MHz**

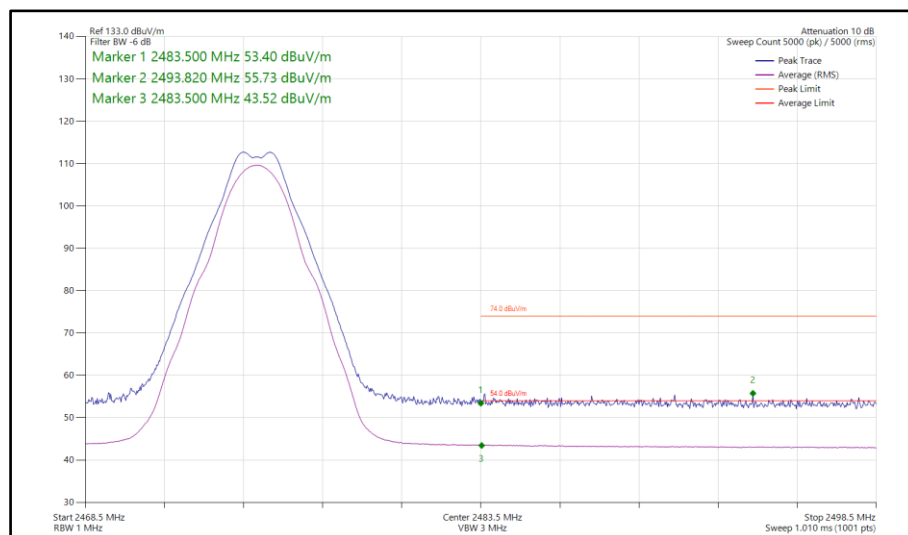


**Figure 2 - Thread, iPA, SISO, Core 0 - 2475 MHz
Band Edge Frequency 2483.5 MHz**

iPA - Core 1 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dB μ V/m)	Average Level (dB μ V/m)
Thread	2405	2390	56.26	44.41
Thread	2475	2483.5	55.33	43.58

Table 8 - iPA, Core 1, SISO Restricted Band Edge Results

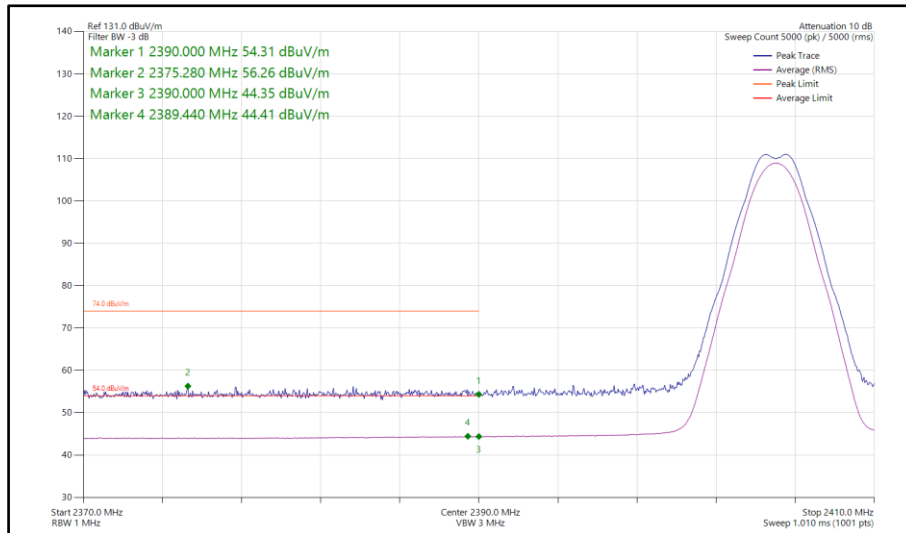


**Figure 3 - Thread, iPA, SISO, Core 1 - 2405 MHz
Band Edge Frequency 2390 MHz**

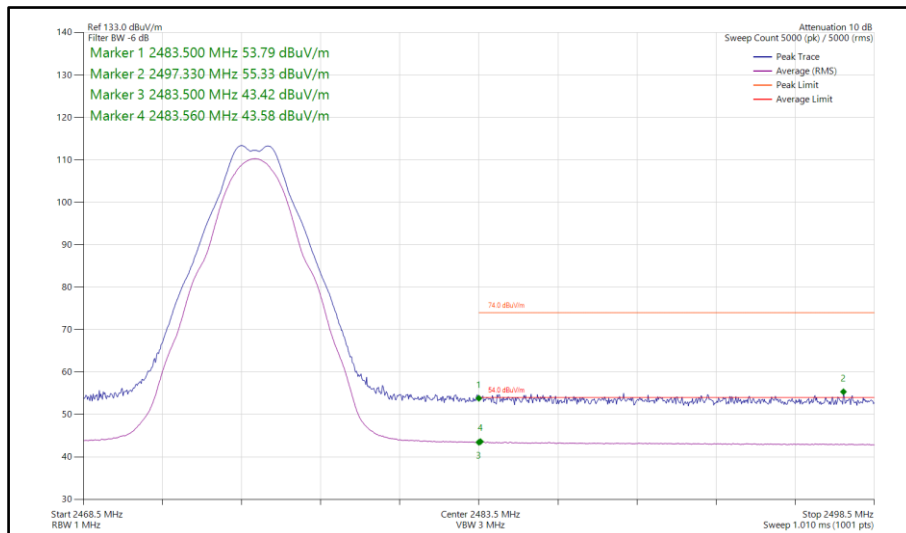


**Figure 4 - Thread, iPA, SISO, Core 1 - 2475 MHz
Band Edge Frequency 2483.5 MHz**



iPA - Core 2 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)	Average Level (dBµV/m)
Thread	2405	2390	56.78	44.03
Thread	2475	2483.5	54.62	42.89

Table 9 - iPA, Core 2, SISO Restricted Band Edge Results

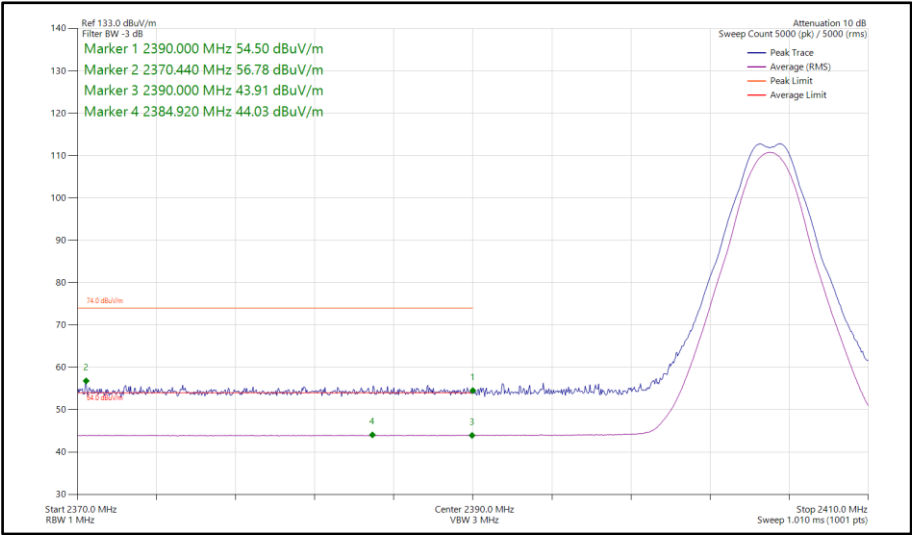


Figure 5 - Thread, iPA, SISO, Core 2 - 2405 MHz
Band Edge Frequency 2390 MHz

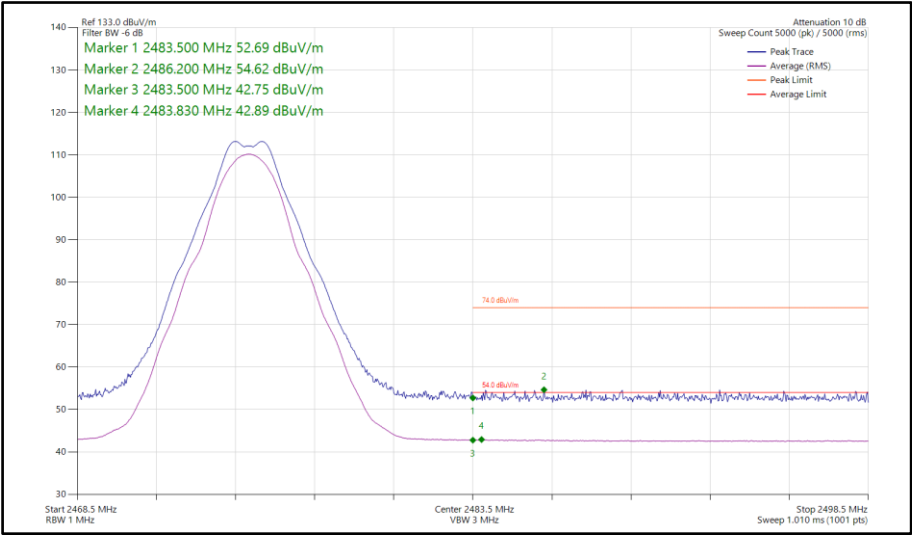


Figure 6 - Thread, iPA, SISO, Core 2 - 2475 MHz
Band Edge Frequency 2483.5 MHz

ePA - Core 0 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dB μ V/m)	Average Level (dB μ V/m)
Thread	2405	2390	58.84	46.41
Thread	2475	2483.5	57.80	46.12

Table 10 - ePA, Core 0, SISO Restricted Band Edge Results

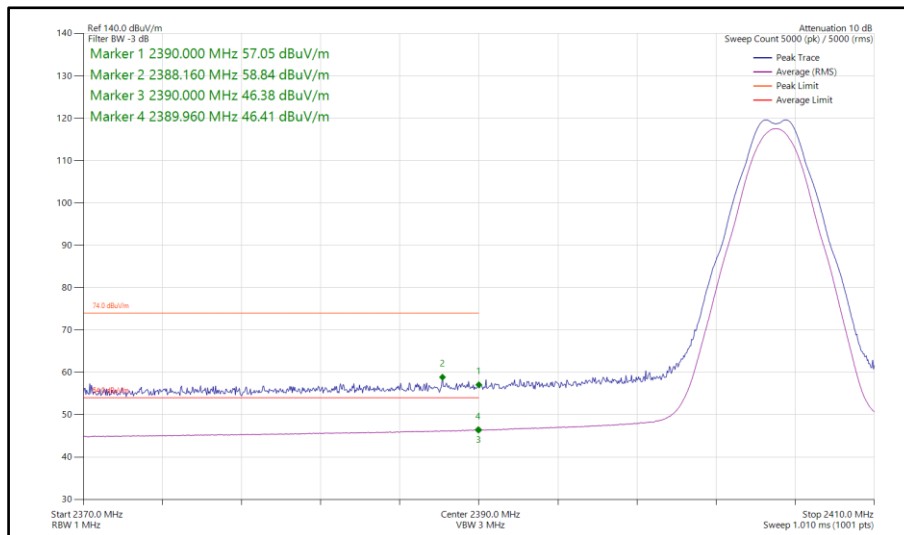


Figure 7 - Thread, ePA, SISO, Core 0 - 2405 MHz
Band Edge Frequency 2390 MHz

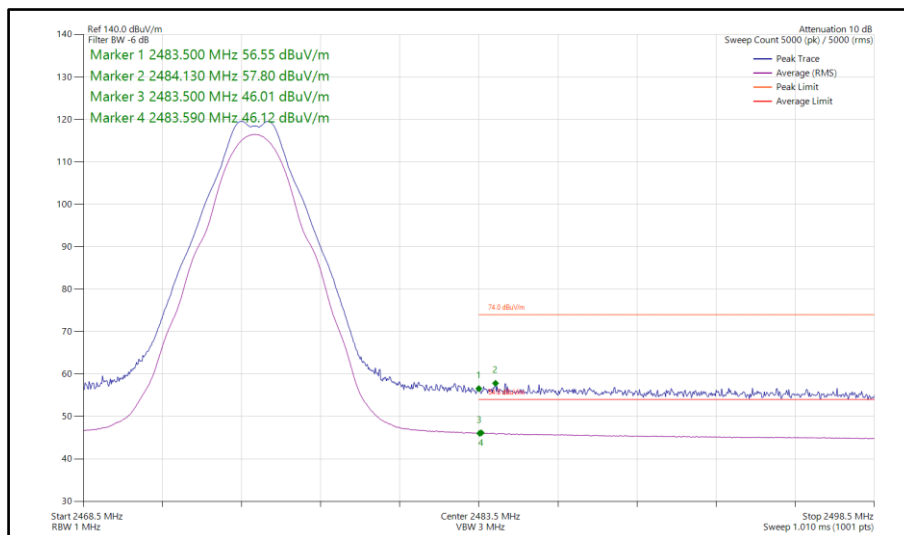


Figure 8 - Thread, ePA, SISO, Core 0 - 2475 MHz
Band Edge Frequency 2483.5 MHz

ePA - Core 1 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Thread	2405	2390	57.94	46.25
Thread	2475	2483.5	57.33	46.16

Table 11 - ePA, Core 1, SISO Restricted Band Edge Results

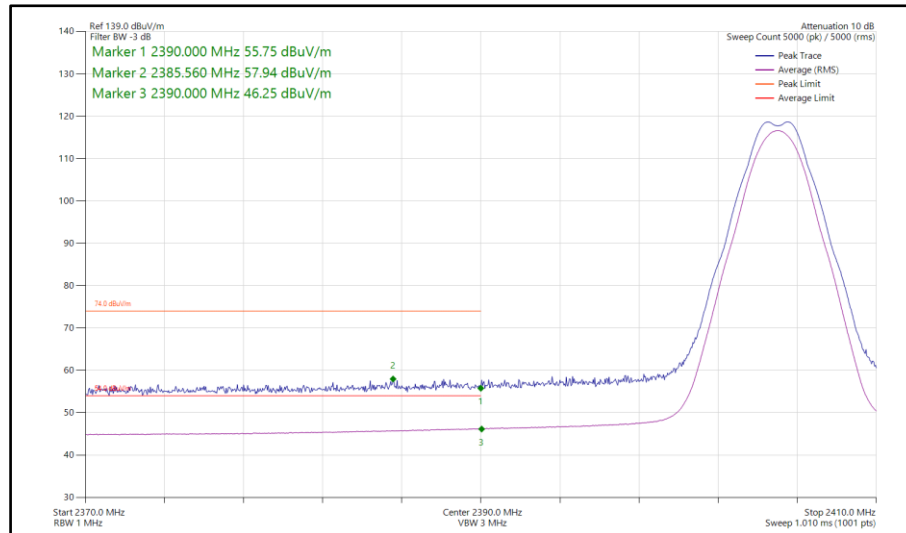


Figure 9 - Thread, ePA, SISO, Core 1 - 2405 MHz
Band Edge Frequency 2390 MHz

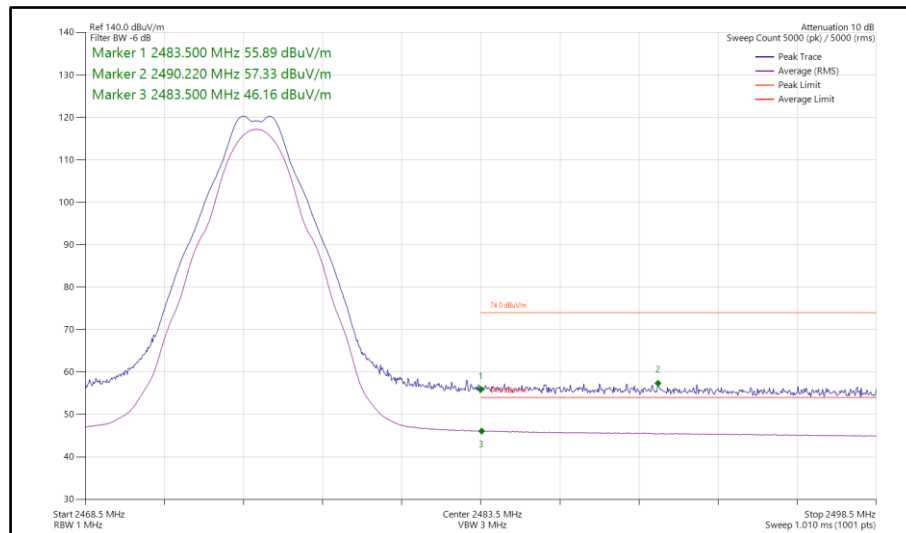


Figure 10 - Thread, ePA, SISO, Core 1 - 2475 MHz
Band Edge Frequency 2483.5 MHz



FCC 47 CFR Part 15, Limit Clause 15.209

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

Table 12

ISED RSS-GEN, Limit Clause 8.9

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960*	500

Table 13

*Unless otherwise specified, for all frequencies greater than 1 GHz, the radiated emission limits for licence-exempt radio apparatus stated in applicable RSSs (including RSS-Gen) are based on measurements using a linear average detector function having a minimum resolution bandwidth of 1 MHz. If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for such factors as pulse desensitization to ensure the peak emission is less than 20 dB above the average limit.



2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.4.2 V.	5125	-	Software
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis), Chamber 15	Albatross Projects	RF Chamber 15	5963	36	28-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5964	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
Horn Antenna (1-10.5 GHz)	Schwarzbeck	BBHA9120B	6140	12	05-May-2025
SAC Switch Unit	TUV SUD	TUV_SSU_001	6144	12	11-Dec-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
USB Spectrum Analyser	Signal Hound	SA124B	6297	-	TU
Humidity and Temperature Meter	R.S Components	1364	6486	12	04-Jun-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	12	29-May-2025
1M SMA Cable	Junkosha	MWX221-01000AMSAMS/B	6832	12	14-Aug-2025
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6845	12	05-Sep-2025
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6850	12	06-Nov-2025
Cable Assembly	SpecTech	PE300-60	6856	-	TU
Cable Assembly	SpecTech	PE300-60	6868	-	TU

Table 14

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



2.2 Emission Bandwidth

2.2.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (a)(2)
ISED RSS-247, Clause 5.2
ISED RSS-GEN, Clause 6.7

2.2.2 Equipment Under Test and Modification State

A3434, S/N: F5P6RDXMN4 - Modification State 0

2.2.3 Date of Test

01-April-2025 to 02-April-2025

2.2.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 11.8.1 for 6 dB BW and 6.9.3 for 99% occupied bandwidth measurements.

2.2.5 Environmental Conditions

Ambient Temperature	21.3 - 22.0 °C
Relative Humidity	32.4 - 37.8 %

2.2.6 Test Results

Thread

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA	Duty Cycle (%):	-
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	1.600	-	-	-	≥500.0
2440	1.600	-	-	-	≥500.0
2475	1.610	-	-	-	≥500.0

Table 15 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	2.330	-	-	-	-
2440	2.330	-	-	-	-
2475	2.340	-	-	-	-

Table 16 - 99% Bandwidth Results



Figure 11 - Core 0 (A) 2405 MHz (CH11) 99% Bandwidth

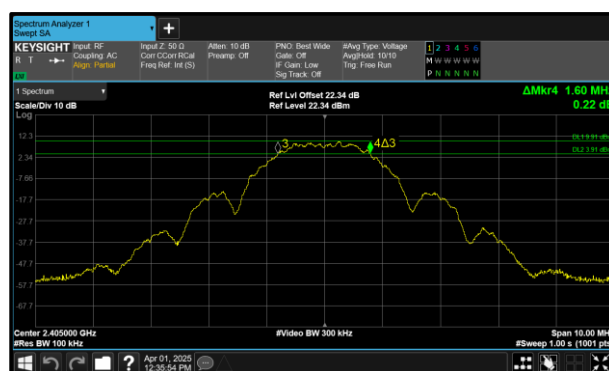


Figure 12 - Core 0 (A) 2405 MHz (CH11) 6 dB Bandwidth

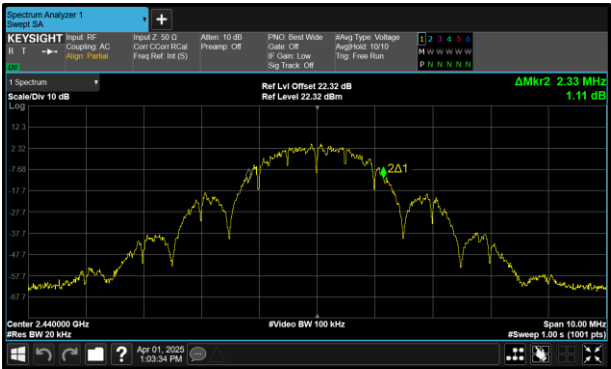


Figure 13 - Core 0 (A) 2440 MHz (CH18) 99% Bandwidth

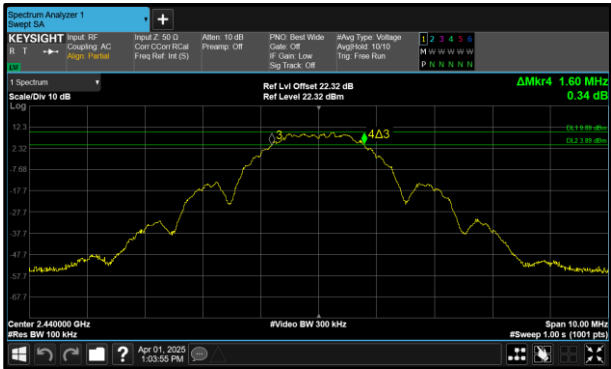


Figure 14 - Core 0 (A) 2440 MHz (CH18) 6 dB Bandwidth

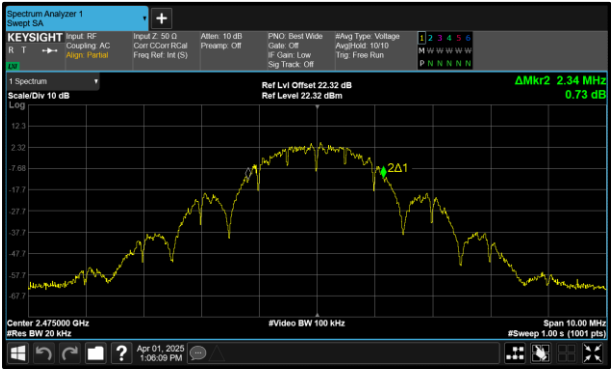


Figure 15 - Core 0 (A) 2475 MHz (CH25) 99% Bandwidth

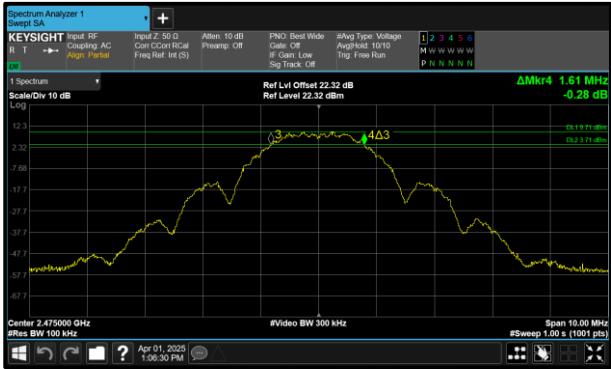


Figure 16 - Core 0 (A) 2475 MHz (CH25) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA	Duty Cycle (%):	-
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	1.610	-	-	≥500.0
2440	-	1.600	-	-	≥500.0
2475	-	1.600	-	-	≥500.0

Table 17 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	2.340	-	-	-
2440	-	2.320	-	-	-
2475	-	2.340	-	-	-

Table 18 - 99% Bandwidth Results

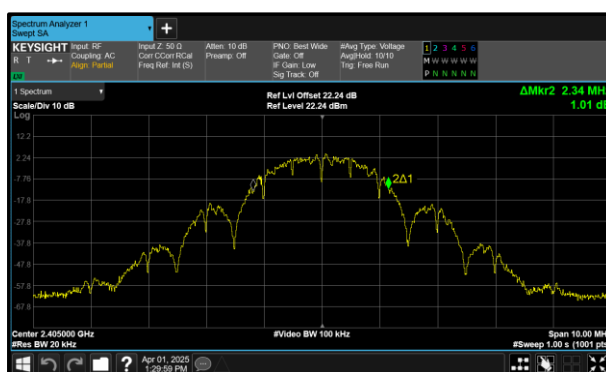


Figure 17 - Core 1 (B) 2405 MHz (CH11) 99% Bandwidth

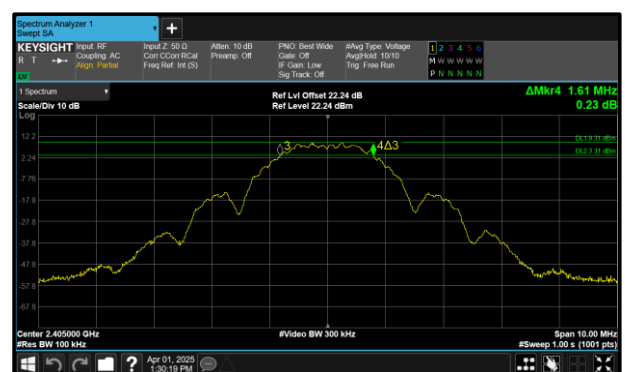


Figure 18 - Core 1 (B) 2405 MHz (CH11) 6 dB Bandwidth

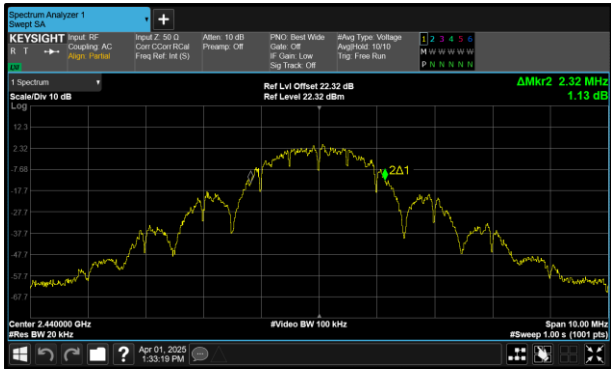


Figure 19 - Core 1 (B) 2440 MHz (CH18) 99% Bandwidth

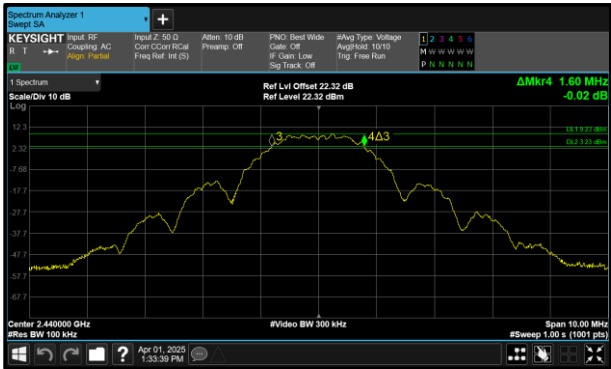


Figure 20 - Core 1 (B) 2440 MHz (CH18) 6 dB Bandwidth

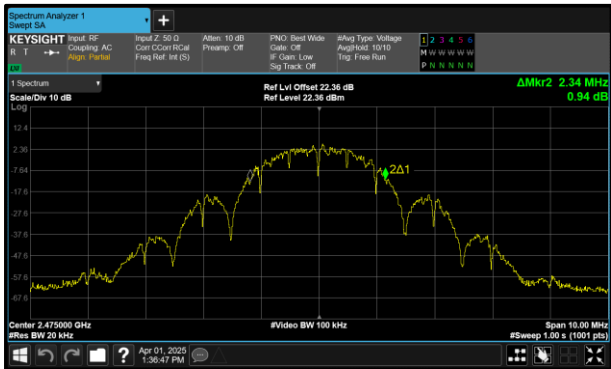


Figure 21 - Core 1 (B) 2475 MHz (CH25) 99% Bandwidth

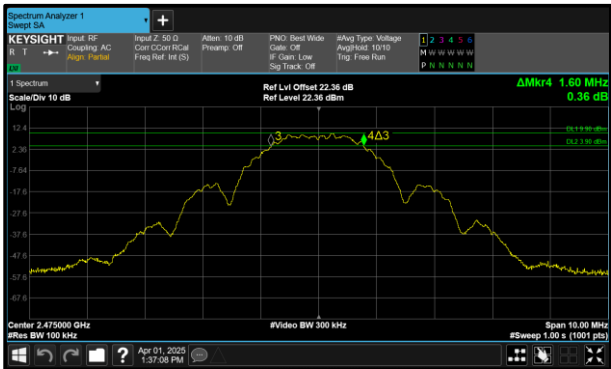


Figure 22 - Core 1 (B) 2475 MHz (CH25) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA	Duty Cycle (%):	-
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	C (Core 2)	Active Chain(s):	2

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	-	1.600	-	≥500.0
2440	-	-	1.600	-	≥500.0
2475	-	-	1.580	-	≥500.0

Table 19 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	-	2.330	-	-
2440	-	-	2.320	-	-
2475	-	-	2.320	-	-

Table 20 - 99% Bandwidth Results

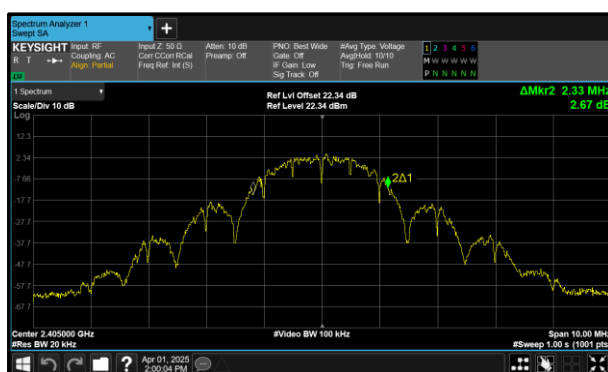


Figure 23 - Core 2 (C) 2405 MHz (CH11) 99% Bandwidth

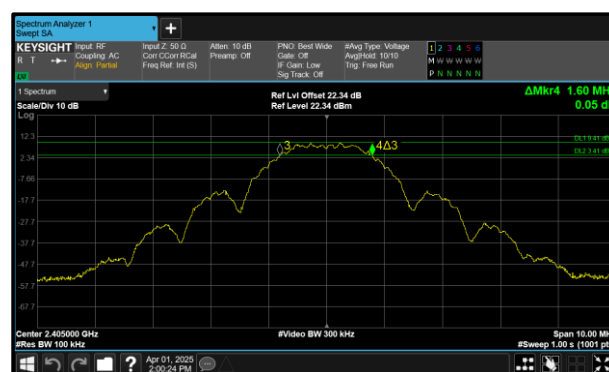


Figure 24 - Core 2 (C) 2405 MHz (CH11) 6 dB Bandwidth

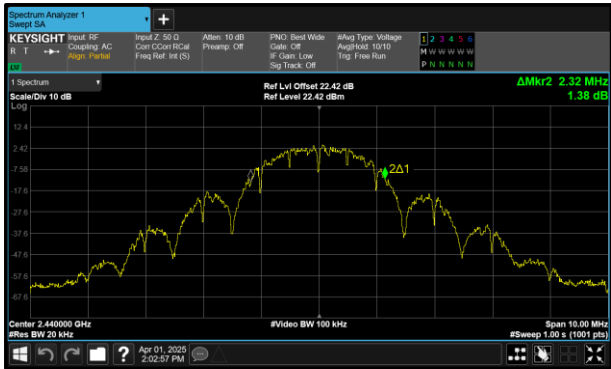


Figure 25 - Core 2 (C) 2440 MHz (CH18) 99% Bandwidth

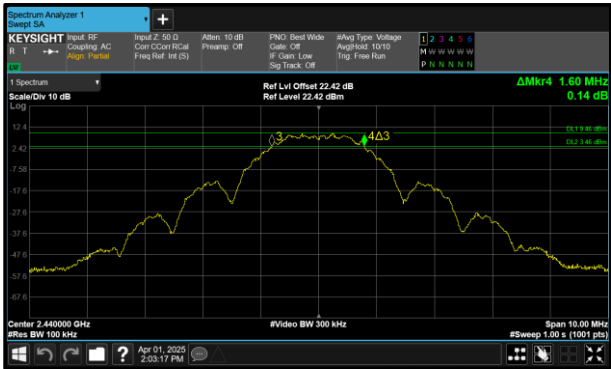


Figure 26 - Core 2 (C) 2440 MHz (CH18) 6 dB Bandwidth

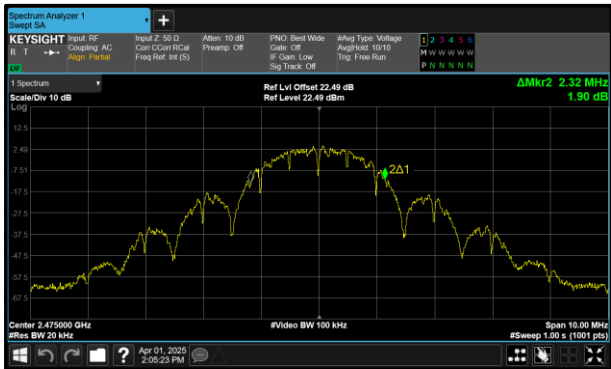


Figure 27 - Core 2 (C) 2475 MHz (CH25) 99% Bandwidth

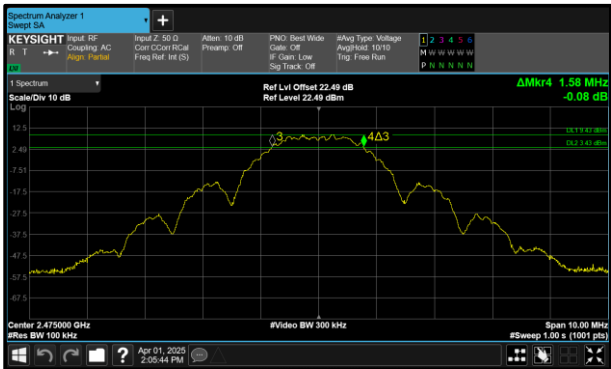


Figure 28 - Core 2 (C) 2475 MHz (CH25) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread ePA	Duty Cycle (%):	-
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	1.600	-	-	-	≥500.0
2440	1.600	-	-	-	≥500.0
2475	1.600	-	-	-	≥500.0

Table 21 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	2.350	-	-	-	-
2440	2.340	-	-	-	-
2475	2.350	-	-	-	-

Table 22 - 99% Bandwidth Results



Figure 29 - Core 0 (A) 2405 MHz (CH11) 99% Bandwidth

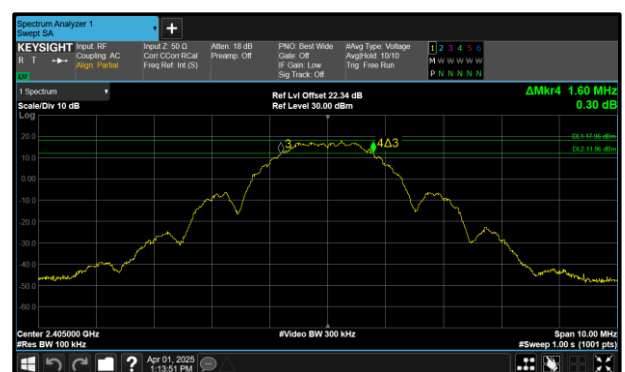


Figure 30 - Core 0 (A) 2405 MHz (CH11) 6 dB Bandwidth

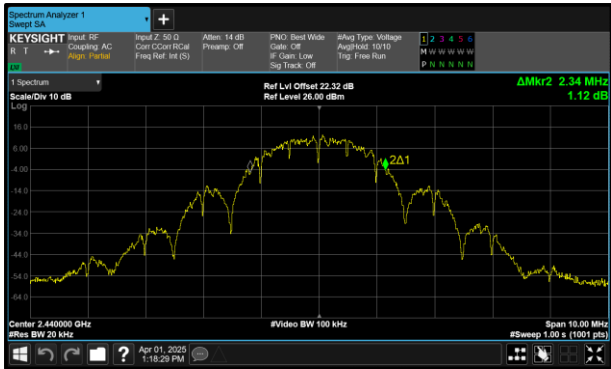


Figure 31 - Core 0 (A) 2440 MHz (CH18) 99% Bandwidth

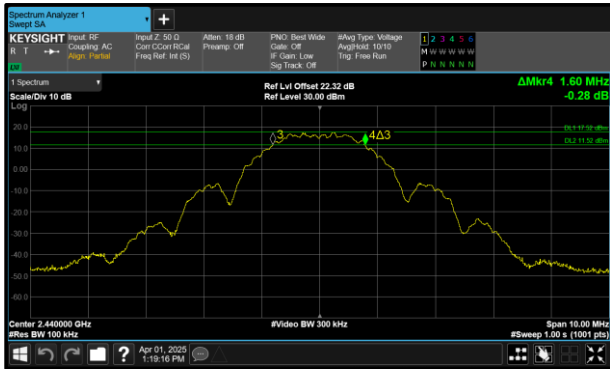


Figure 32 - Core 0 (A) 2440 MHz (CH18) 6 dB Bandwidth

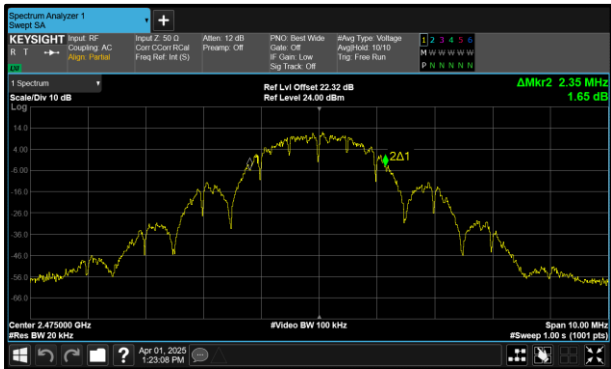


Figure 33 - Core 0 (A) 2475 MHz (CH25) 99% Bandwidth

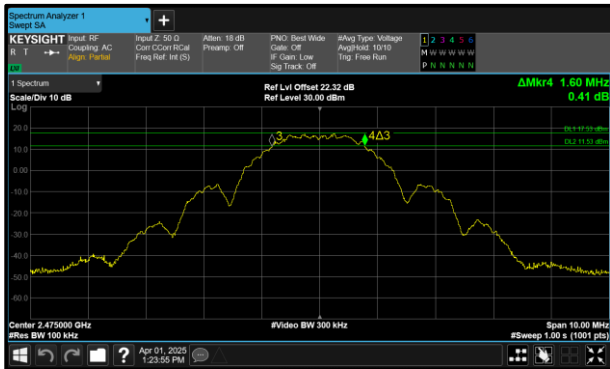


Figure 34 - Core 0 (A) 2475 MHz (CH25) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread ePA	Duty Cycle (%):	-
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	1.600	-	-	≥500.0
2440	-	1.610	-	-	≥500.0
2475	-	1.600	-	-	≥500.0

Table 23 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	2.350	-	-	-
2440	-	2.350	-	-	-
2475	-	2.350	-	-	-

Table 24 - 99% Bandwidth Results



Figure 35 - Core 1 (B) 2405 MHz (CH11) 99% Bandwidth

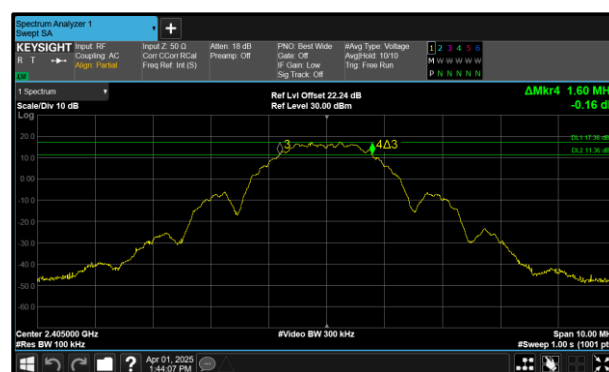


Figure 36 - Core 1 (B) 2405 MHz (CH11) 6 dB Bandwidth

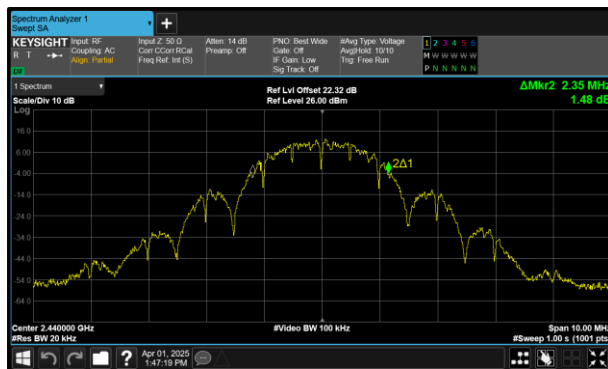


Figure 37 - Core 1 (B) 2440 MHz (CH18) 99% Bandwidth

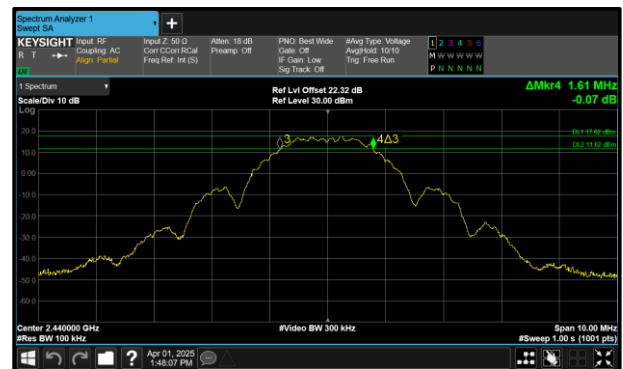


Figure 38 - Core 1 (B) 2440 MHz (CH18) 6 dB Bandwidth

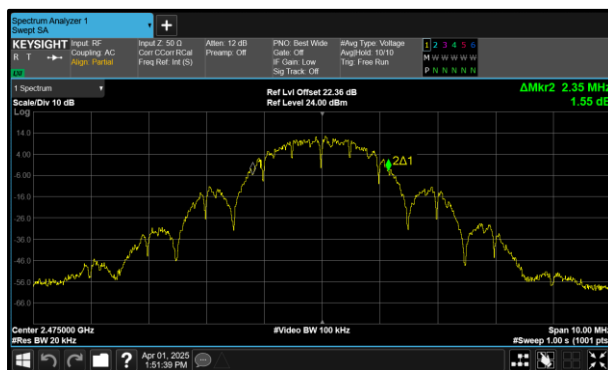


Figure 39 - Core 1 (B) 2475 MHz (CH25) 99% Bandwidth

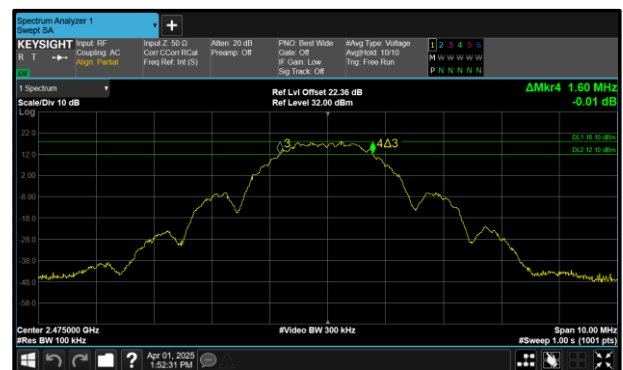


Figure 40 - Core 1 (B) 2475 MHz (CH25) 6 dB Bandwidth

FCC 47 CFR Part 15, Limit Clause 15.247(a)(2) and ISCED RSS-247, Clause 5.2(a)

The minimum 6 dB Bandwidth shall be at least 500 kHz.



2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	19-Nov-2025
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	17-Mar-2027
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	23-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	13-Mar-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	23-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6531	12	23-Feb-2026
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 25

O/P Mon - Output Monitored using calibrated equipment



2.3 Maximum Conducted Output Power

2.3.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (b)
ISED RSS-247, Clause 5.4
ISED RSS-GEN, Clause 6.12

2.3.2 Equipment Under Test and Modification State

A3434, S/N: F5P6RDXMN4 - Modification State 0

2.3.3 Date of Test

01-April-2025 to 08-April-2025

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10 clause 11.9.2.3.2 Method AVGPM-G.

2.3.5 Environmental Conditions

Ambient Temperature	21.3 - 23.3 °C
Relative Humidity	30.0 - 37.8 %



2.3.6 Test Results

Thread

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA	Duty Cycle (%):	88.6
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	5.25
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2405	12.78	-	-	-	12.78	30.00	-17.22
2440	12.99	-	-	-	12.99	30.00	-17.01
2475	12.72	-	-	-	12.72	30.00	-17.28

Table 26 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2405	12.78	-	-	-	12.78	30.00	-17.22	18.03	36.00	-17.97
2440	12.99	-	-	-	12.99	30.00	-17.01	18.24	36.00	-17.76
2475	12.72	-	-	-	12.72	30.00	-17.28	17.97	36.00	-18.03

Table 27 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA	Duty Cycle (%):	88.7
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.30
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2405	-	12.92	-	-	12.92	30.00	-17.08
2440	-	12.98	-	-	12.98	30.00	-17.02
2475	-	12.85	-	-	12.85	30.00	-17.15

Table 28 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2405	-	12.92	-	-	12.92	30.00	-17.08	17.22	36.00	-18.78
2440	-	12.98	-	-	12.98	30.00	-17.02	17.28	36.00	-18.72
2475	-	12.85	-	-	12.85	30.00	-17.15	17.15	36.00	-18.85

Table 29 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA	Duty Cycle (%):	88.9
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	5.41
Active Port(s):	C (Core 2)	Active Chain(s):	2

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2405	-	-	12.29	-	12.29	30.00	-17.71
2440	-	-	12.41	-	12.41	30.00	-17.59
2475	-	-	12.37	-	12.37	30.00	-17.63

Table 30 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2405	-	-	12.29	-	12.29	30.00	-17.71	17.70	36.00	-18.30
2440	-	-	12.41	-	12.41	30.00	-17.59	17.82	36.00	-18.18
2475	-	-	12.37	-	12.37	30.00	-17.63	17.78	36.00	-18.22

Table 31 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread ePA	Duty Cycle (%):	88.6
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	5.25
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2405	20.80	-	-	-	20.80	30.00	-9.20
2440	20.55	-	-	-	20.55	30.00	-9.45
2475	20.59	-	-	-	20.59	30.00	-9.41

Table 32 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2405	20.80	-	-	-	20.80	30.00	-9.20	26.05	36.00	-9.95
2440	20.55	-	-	-	20.55	30.00	-9.45	25.80	36.00	-10.20
2475	20.59	-	-	-	20.59	30.00	-9.41	25.84	36.00	-10.16

Table 33 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread ePA	Duty Cycle (%):	88.7
Data Rate:	-	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.30
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2405	-	20.82	-	-	20.82	30.00	-9.18
2440	-	20.61	-	-	20.61	30.00	-9.39
2475	-	20.81	-	-	20.81	30.00	-9.19

Table 34 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2405	-	20.82	-	-	20.82	30.00	-9.18	25.12	36.00	-10.88
2440	-	20.61	-	-	20.61	30.00	-9.39	24.91	36.00	-11.09
2475	-	20.81	-	-	20.81	30.00	-9.19	25.11	36.00	-10.89

Table 35 - ISED Maximum Conducted (average) Output Power Results

FCC 47 CFR Part 15, Limit Clause 15.247 (b)(3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

ISED RSS-247, Limit Clause 5.4 (d)

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e) of the specification.



2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	19-Nov-2025
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	23-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	13-Mar-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	23-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6531	12	23-Feb-2026
USB Wideband Power Sensor	Boonton	RTP5008	6587	12	23-Feb-2026
USB Wideband Power Sensor	Boonton	RTP5008	6588	12	23-Feb-2026
USB Wideband Power Sensor	Boonton	RTP5008	6589	12	23-Feb-2026
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 36

O/P Mon - Output Monitored using calibrated equipment



2.4 Authorised Band Edges

2.4.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (d)
ISED RSS-247, Clause 5.5

2.4.2 Equipment Under Test and Modification State

A3434, S/N: FM02PF6GWR - Modification State 0
A3434, S/N: F4XG93M94R - Modification State 0
A3434, S/N: J6MG2JN301 - Modification State 0

2.4.3 Date of Test

12-February-2025 to 15-February-2025

2.4.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.10.4.

2.4.5 Environmental Conditions

Ambient Temperature	22.1 - 22.8 °C
Relative Humidity	35.9 - 36.2 %



2.4.6 Test Results

iPA - Core 0 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-61.35

Table 37 - iPA, Core 0, SISO Authorised Band Edge Results

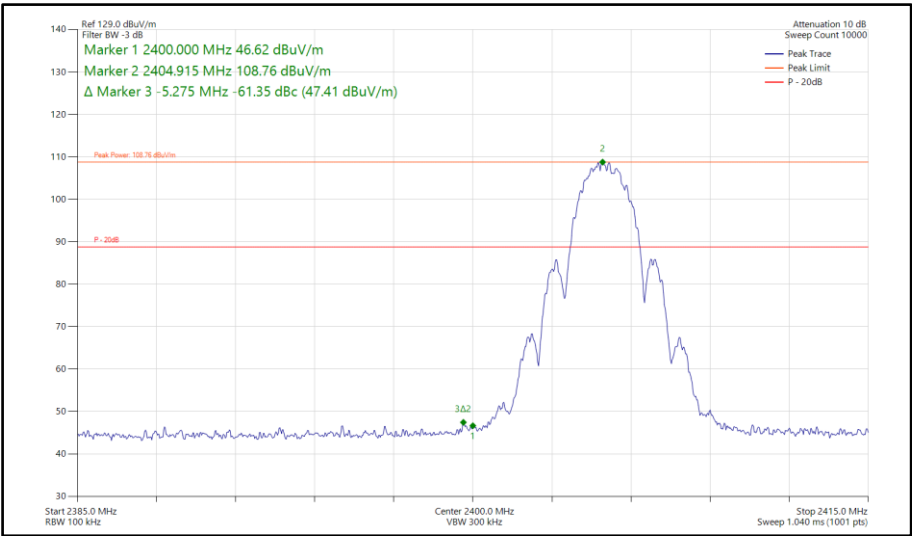


Figure 41 - Thread, iPA, SISO, Core 0 - 2405 MHz
Band Edge Frequency 2400 MHz

iPA - Core 1 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-60.77

Table 38 - iPA, Core 1, SISO Authorised Band Edge Results

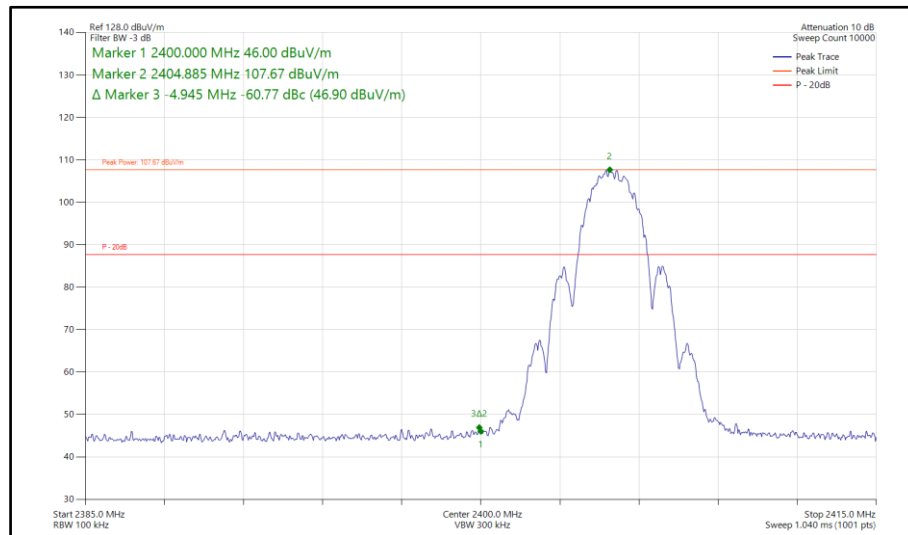


**Figure 42 - Thread, iPA, SISO, Core 1 - 2405 MHz
Band Edge Frequency 2400 MHz**



iPA - Core 2 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-57.71

Table 39 - iPA, Core 2, SISO Authorised Band Edge Results

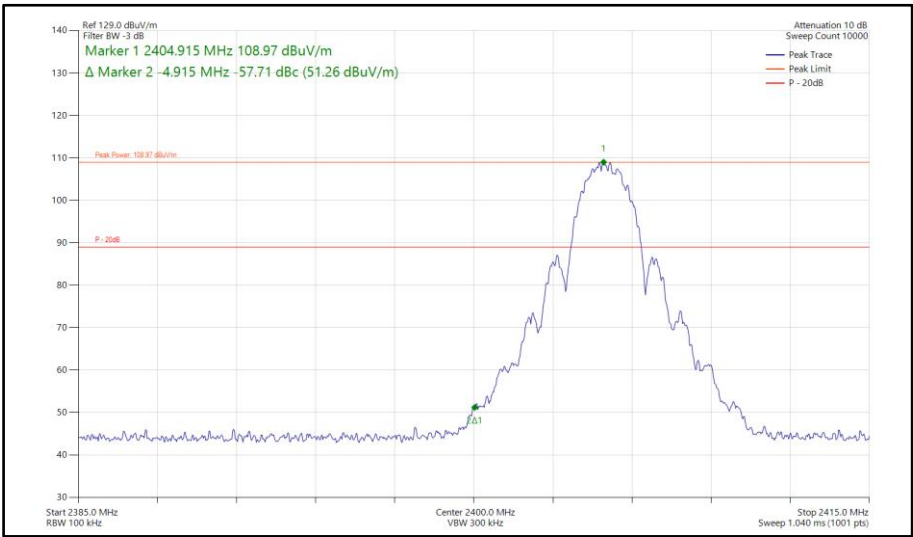


Figure 43 - Thread, iPA, SISO, Core 2 - 2405 MHz
Band Edge Frequency 2400 MHz



ePA - Core 0 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-65.27

Table 40 - ePA, Core 0, SISO Authorised Band Edge Results

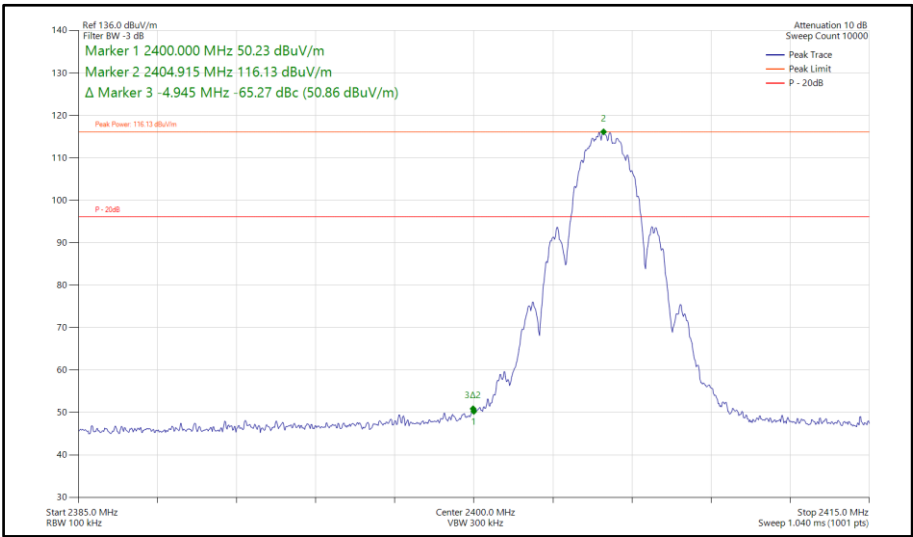


Figure 44 - Thread, ePA, SISO, Core 0 - 2405 MHz
Band Edge Frequency 2400 MHz

ePA - Core 1 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-64.85

Table 41 - ePA, Core 1, SISO Authorised Band Edge Results

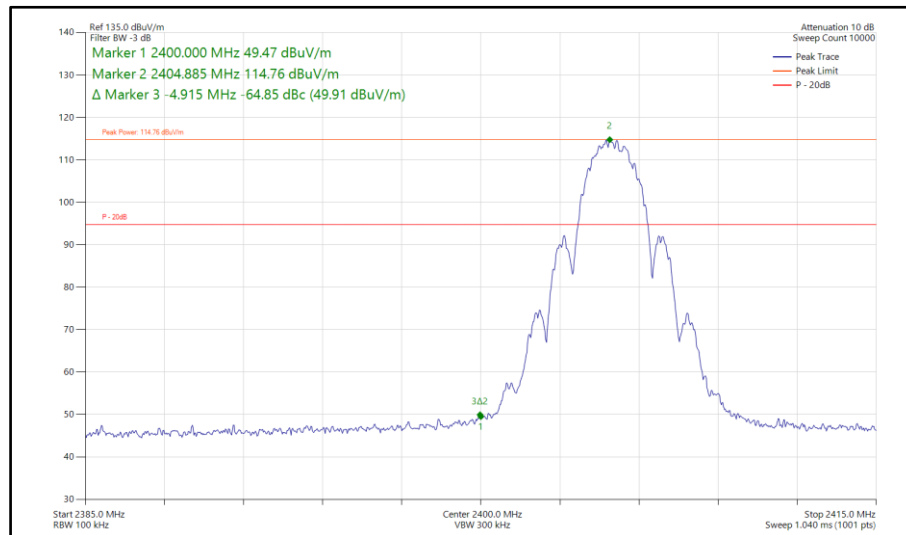


**Figure 45 - Thread, ePA, SISO, Core 1 - 2405 MHz
Band Edge Frequency 2400 MHz**

FCC 47 CFR Part 15, Limit Clause 15.247 (d)

20 dB below the fundamental measured in a 100 kHz bandwidth using a peak detector. If the transmitter complies with the conducted power limits, based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB below the fundamental instead of 20 dB.

ISED RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.



2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.4.2 V.	5125	-	Software
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis), Chamber 15	Albatross Projects	RF Chamber 15	5963	36	28-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5964	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
Horn Antenna (1-10.5 GHz)	Schwarzbeck	BBHA9120B	6140	12	05-May-2025
SAC Switch Unit	TUV SUD	TUV_SSU_001	6144	12	11-Dec-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
USB Spectrum Analyser	Signal Hound	SA124B	6297	-	TU
Humidity and Temperature Meter	R.S Components	1364	6486	12	04-Jun-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	12	29-May-2025
1M SMA Cable	Junkosha	MWX221-01000AMSAMS/B	6832	12	14-Aug-2025
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6845	12	05-Sep-2025
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6850	12	06-Nov-2025
Cable Assembly	SpecTech	PE300-60	6856	-	TU
Cable Assembly	SpecTech	PE300-60	6868	-	TU

Table 42

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



2.5 Spurious Radiated Emissions

2.5.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.209 and 15.247 (d)
ISED RSS-247, Clause 3.3 and 5.5
ISED RSS-GEN, Clause 6.13 and 8.9

2.5.2 Equipment Under Test and Modification State

A3434, S/N: FM02PF6GWR - Modification State 0
A3434, S/N: KW6HY7JMQQ - Modification State 0
A3434, S/N: F4XG93M94R - Modification State 0
A3434, S/N: G4G6GDQ52M - Modification State 0

2.5.3 Date of Test

17-February-2025 to 20-February-2025

2.5.4 Test Method

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 C63.10 clause 6.2.3.

In the 30 MHz to 1 GHz range pre-scans were only performed on the mid channel (2440 MHz).

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dBuV/m) when compared to 20 dBc outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 20 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.

Above 18 GHz, the measurement distance was reduced to 1 m. The limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.

Where formal measurements have been necessary, the results have been presented in the emissions table.

2.5.5 Example Test Setup Diagram

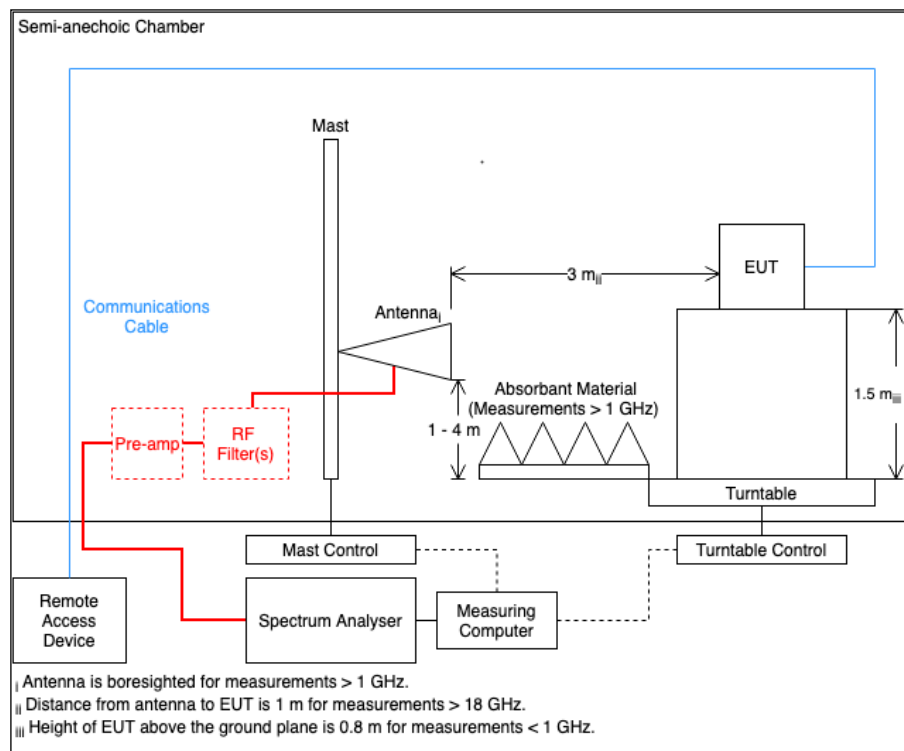


Figure 46

2.5.6 Environmental Conditions

Ambient Temperature	21.2 - 24.3 °C
Relative Humidity	29.7 - 37.5 %

2.5.7 Test Results

Thread

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2369.911	36.32	54.00	-17.68	RMS	0	375	Vertical
2483.520	34.44	54.00	-19.56	RMS	12	327	Vertical
4200.235	33.28	54.00	-20.72	RMS	228	311	Vertical

Table 43 - 2405 MHz (CH11), Thread, ePA, Core 0, 1 GHz to 26 GHz

No other emissions found within 20 dB of the limit.

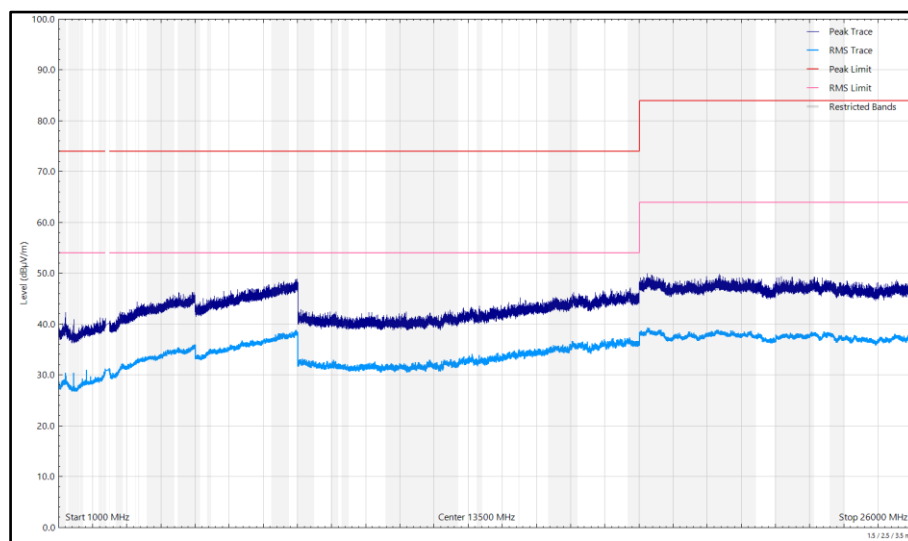


Figure 47 - 2405 MHz (CH11), Thread, ePA, Core 0, 1 GHz to 26 GHz, Horizontal

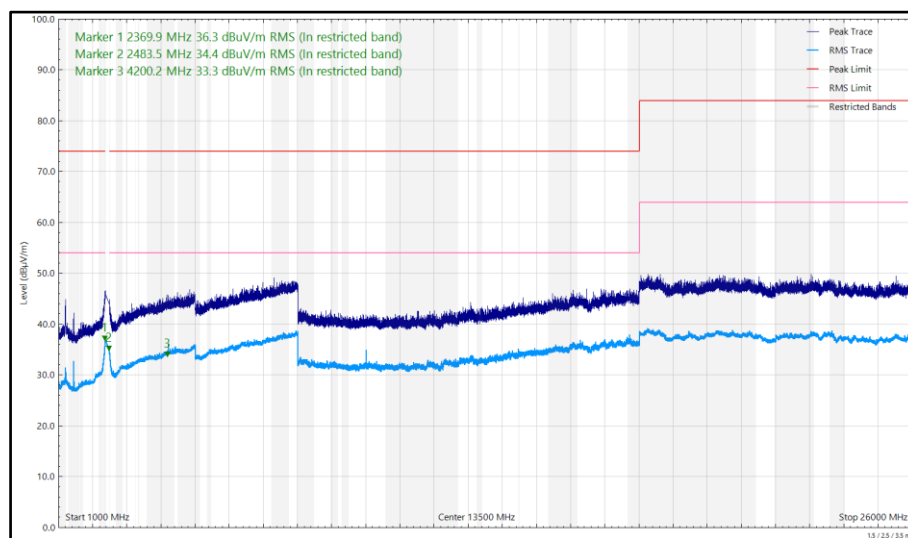


Figure 48 - 2405 MHz (CH11), Thread, ePA, Core 0, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
279.994	25.60	46.00	-20.40	Q-Peak	82	103	Horizontal
2389.269	35.85	54.00	-18.15	RMS	4	379	Vertical
2484.688	36.32	54.00	-17.68	RMS	342	393	Vertical
4211.950	34.72	54.00	-19.28	RMS	336	372	Vertical

Table 44 - 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 26 GHz

No other emissions found within 20 dB of the limit.

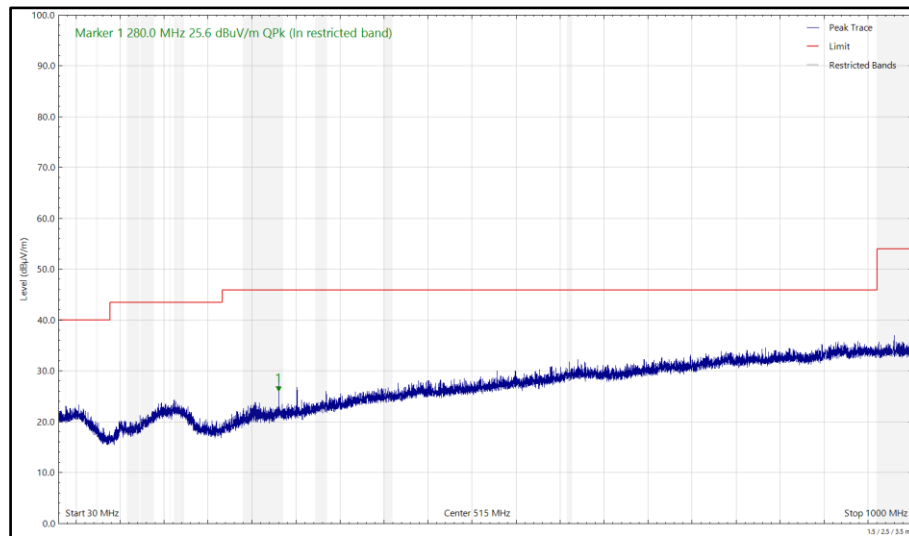


Figure 49 - 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

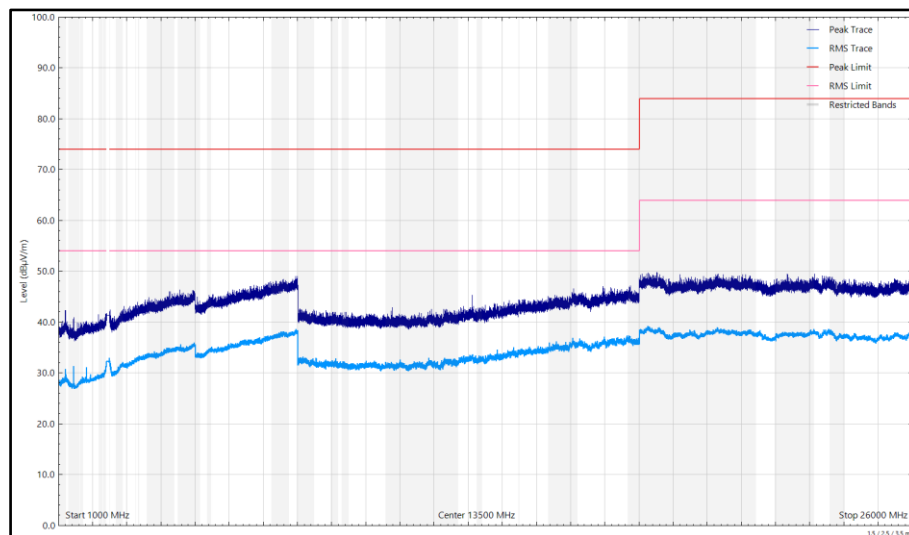


Figure 50 - 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 26 GHz, Horizontal

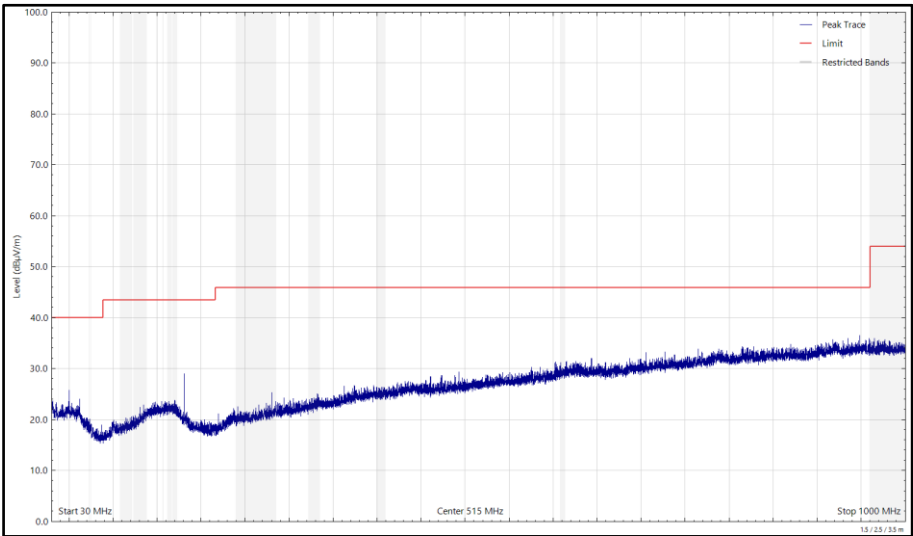


Figure 51 - 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

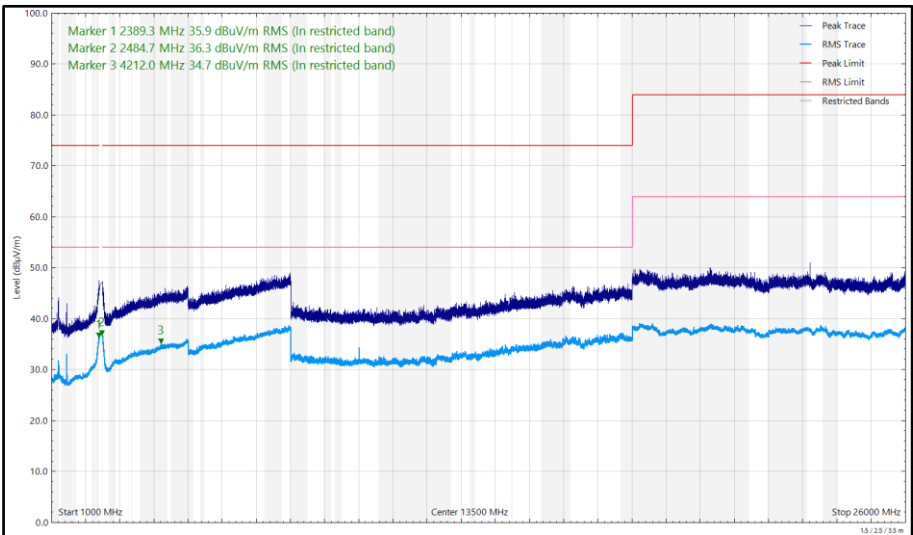


Figure 52 - 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2389.962	34.65	54.00	-19.35	RMS	354	331	Vertical
2498.537	39.21	54.00	-14.79	RMS	16	291	Vertical
2498.649	35.07	54.00	-18.93	RMS	313	381	Horizontal
4211.876	33.54	54.00	-20.46	RMS	0	268	Vertical

Table 45 - 2475 MHz (CH25), Thread, ePA, Core 0, 1 GHz to 26 GHz

No other emissions found within 20 dB of the limit.

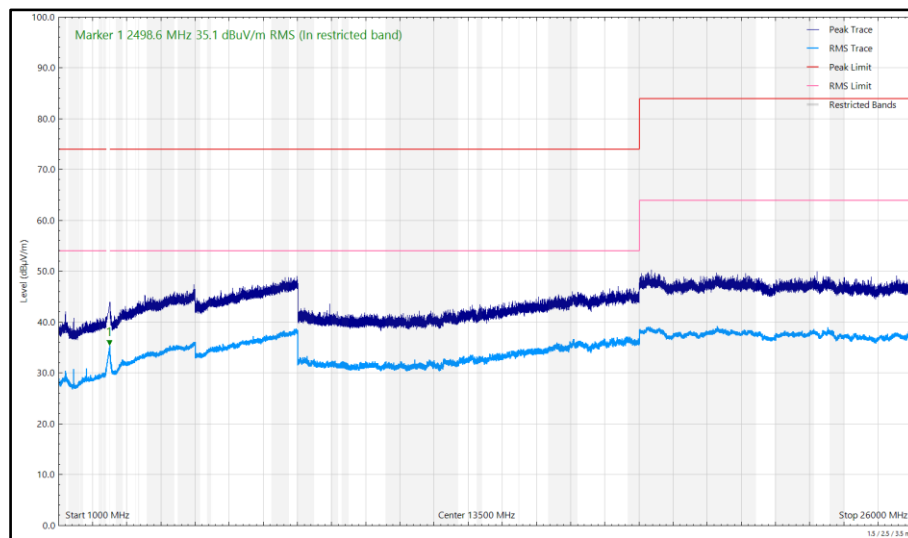


Figure 53 - 2475 MHz (CH25), Thread, ePA, Core 0, 1 GHz to 26 GHz, Horizontal

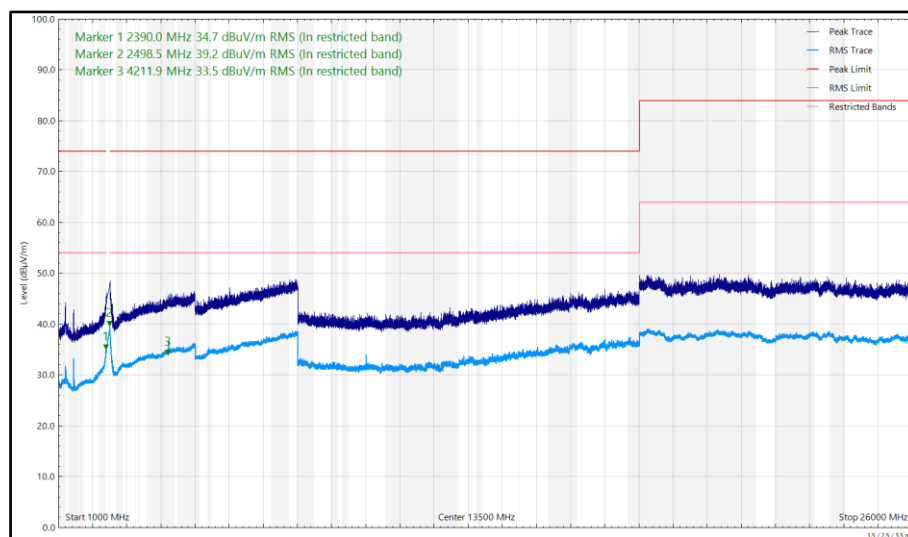


Figure 54 - 2475 MHz (CH25), Thread, ePA, Core 0, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2369.647	35.58	54.00	-18.42	RMS	48	333	Vertical
2485.157	34.52	54.00	-19.48	RMS	44	390	Vertical
4199.657	33.28	54.00	-20.72	RMS	4	275	Vertical

Table 46 - 2405 MHz (CH11), Thread, ePA, Core 1, 1 GHz to 26 GHz

No other emissions found within 20 dB of the limit.

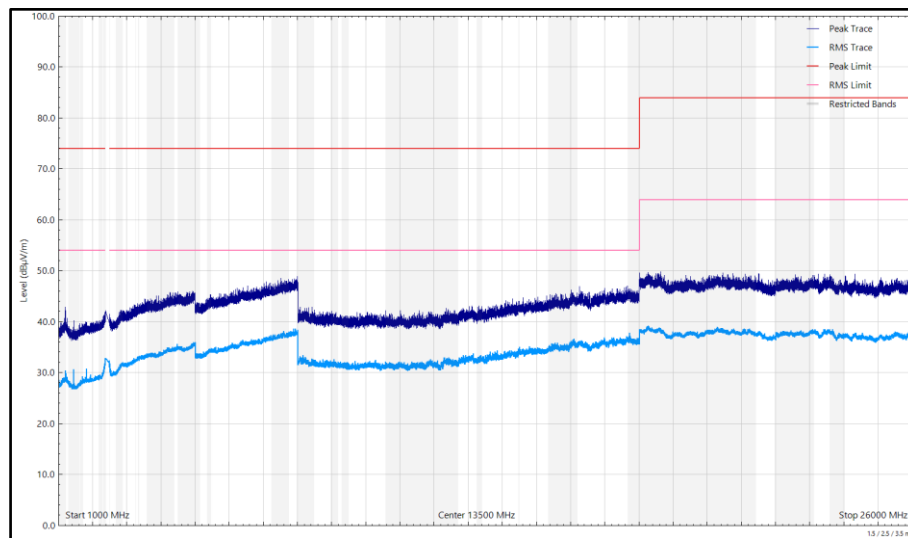


Figure 55 - 2405 MHz (CH11), Thread, ePA, Core 1, 1 GHz to 26 GHz, Horizontal

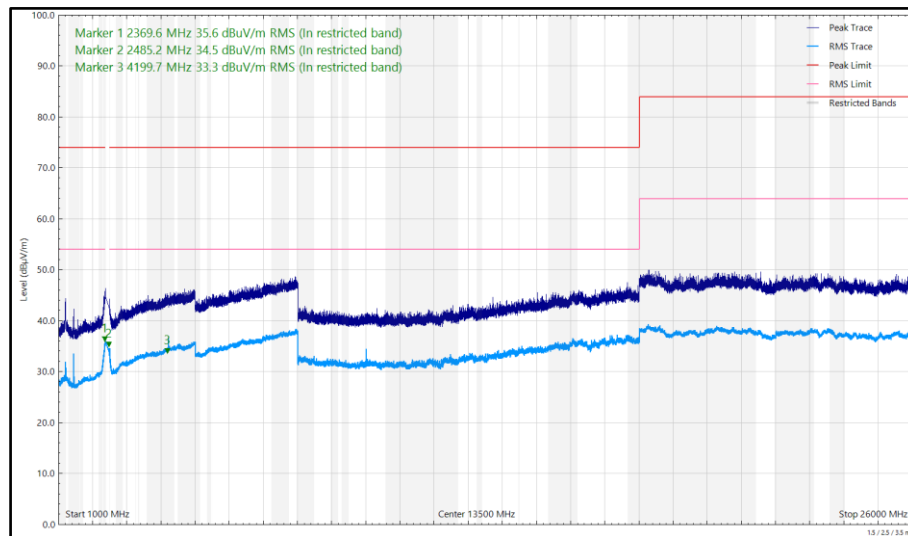


Figure 56 - 2405 MHz (CH11), Thread, ePA, Core 1, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
280.017	26.09	46.00	-19.91	Q-Peak	80	100	Horizontal
2389.744	37.68	54.00	-16.32	RMS	44	388	Vertical
2484.059	37.77	54.00	-16.23	RMS	43	391	Vertical
2484.273	33.97	54.00	-20.03	RMS	51	383	Horizontal
4205.213	33.28	54.00	-20.72	RMS	4	252	Vertical

Table 47 - 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 26 GHz

No other emissions found within 20 dB of the limit.

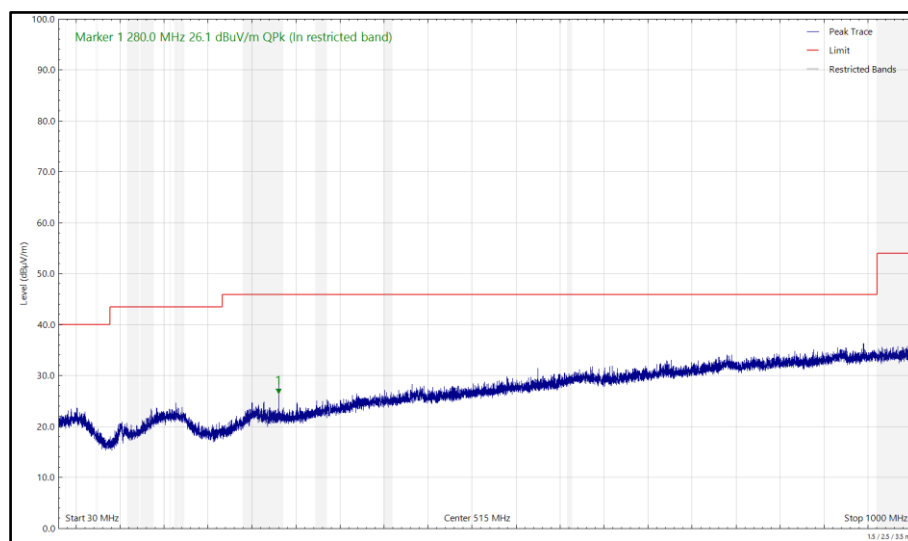


Figure 57 - 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

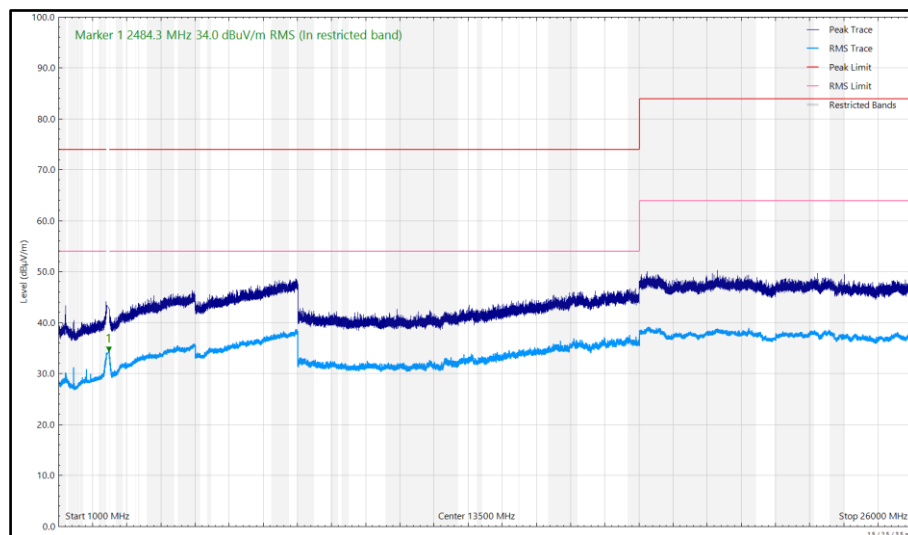


Figure 58 - 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 26 GHz, Horizontal

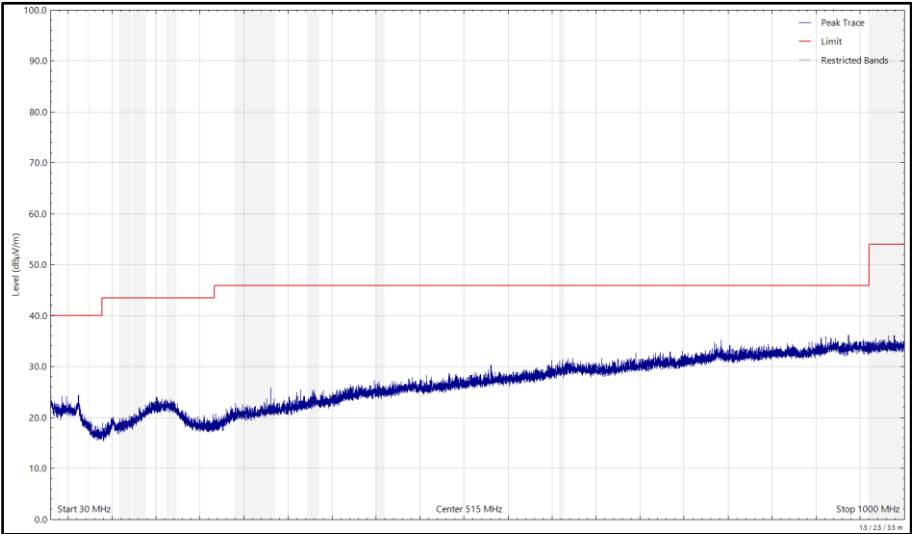


Figure 59 - 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

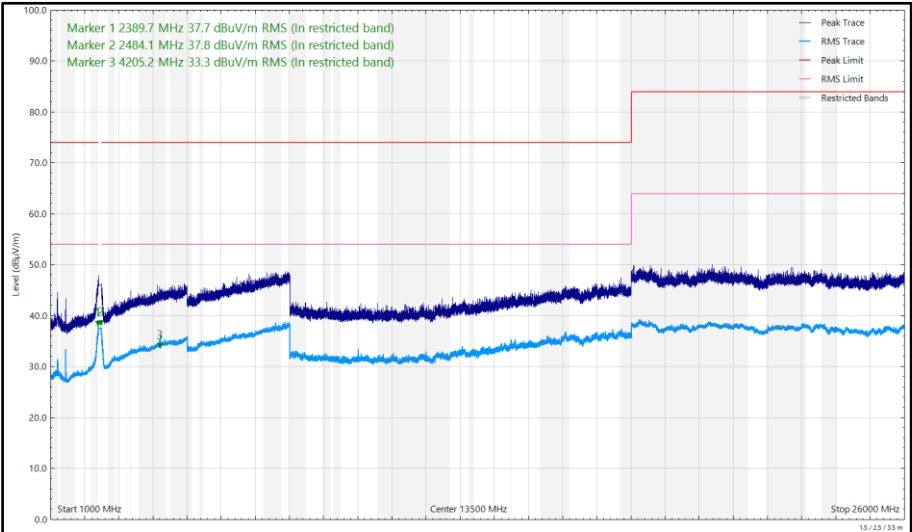


Figure 60 - 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2389.885	36.23	54.00	-17.77	RMS	49	363	Vertical
2498.639	41.27	54.00	-12.73	RMS	44	390	Vertical
2498.796	37.43	54.00	-16.57	RMS	50	392	Horizontal
4208.377	33.40	54.00	-20.60	RMS	103	178	Vertical

Table 48 - 2475 MHz (CH25), Thread, ePA, Core 1, 1 GHz to 26 GHz

No other emissions found within 20 dB of the limit.

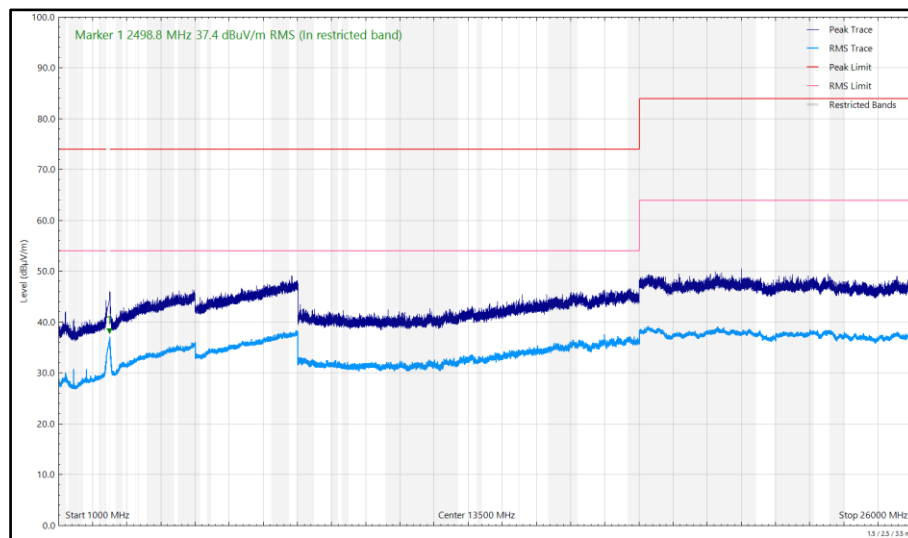


Figure 61 - 2475 MHz (CH25), Thread, ePA, Core 1, 1 GHz to 26 GHz, Horizontal

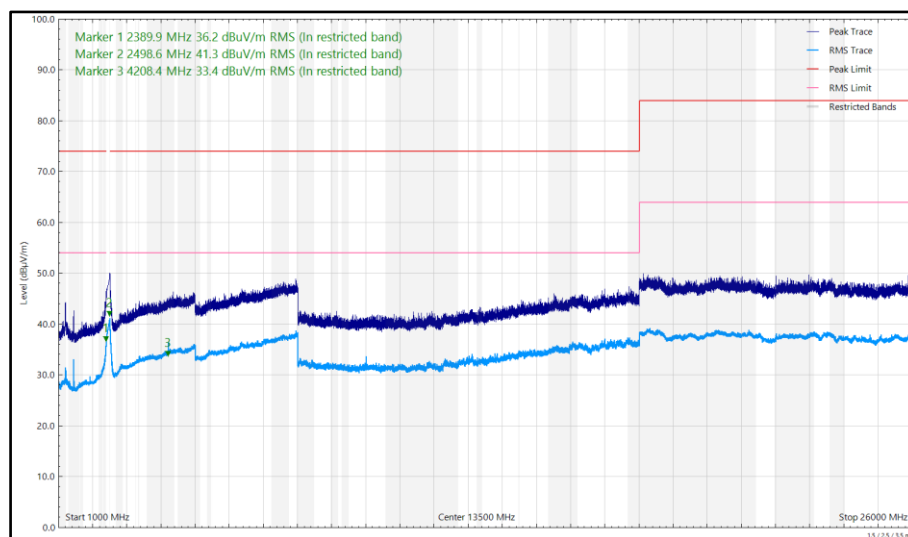


Figure 62 - 2475 MHz (CH25), Thread, ePA, Core 1, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4808.797	33.80	54.00	-20.20	RMS	218	387	Vertical

Table 49 - 2405 MHz (CH11), Thread, iPA, Core 0, 1 GHz to 26 GHz

No other emissions found within 20 dB of the limit.

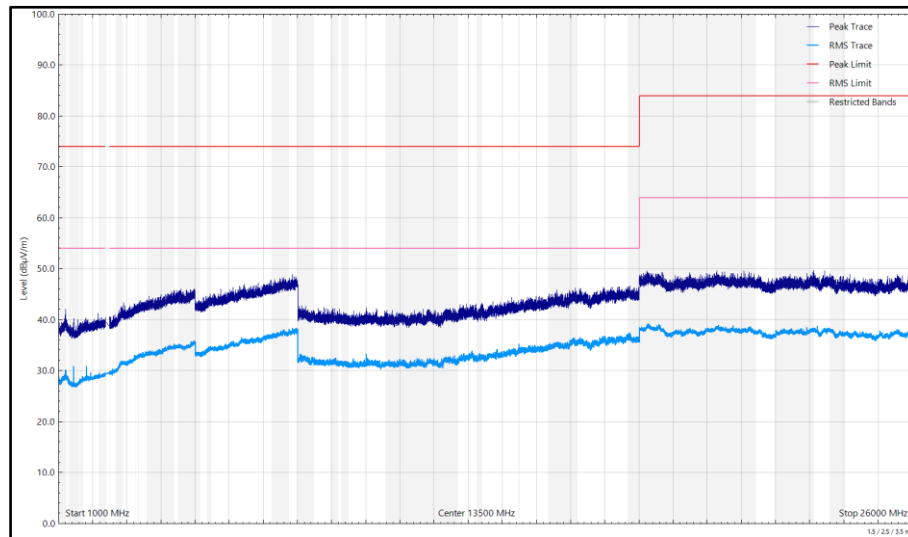


Figure 63 - 2405 MHz (CH11), Thread, iPA, Core 0, 1 GHz to 26 GHz, Horizontal

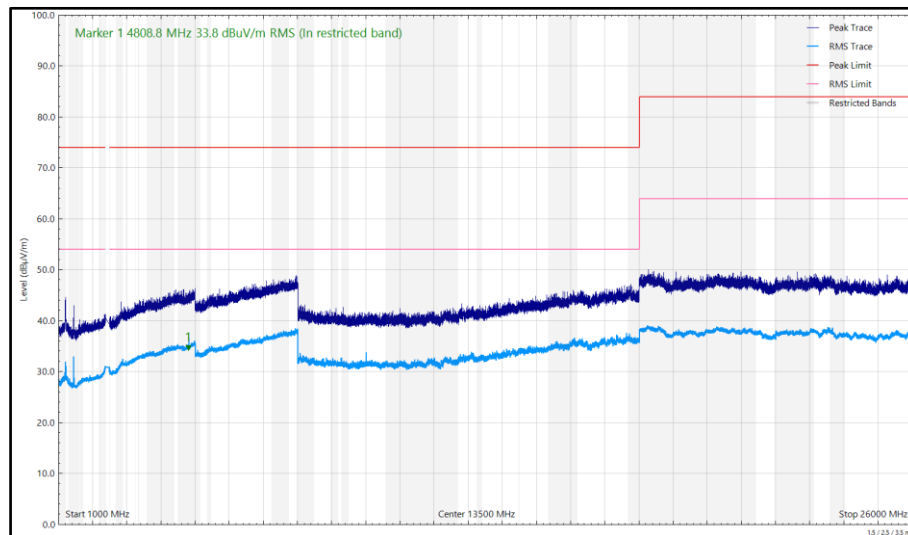


Figure 64 - 2405 MHz (CH11), Thread, iPA, Core 0, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
280.006	27.41	46.00	-18.59	Q-Peak	274	113	Horizontal
4211.950	34.63	54.00	-19.37	RMS	337	389	Vertical
4881.062	35.28	54.00	-18.72	RMS	327	317	Vertical

Table 50 - 2440 MHz (CH18), Thread, iPA, Core 0, 30 MHz to 26 GHz

No other emissions found within 20 dB of the limit.

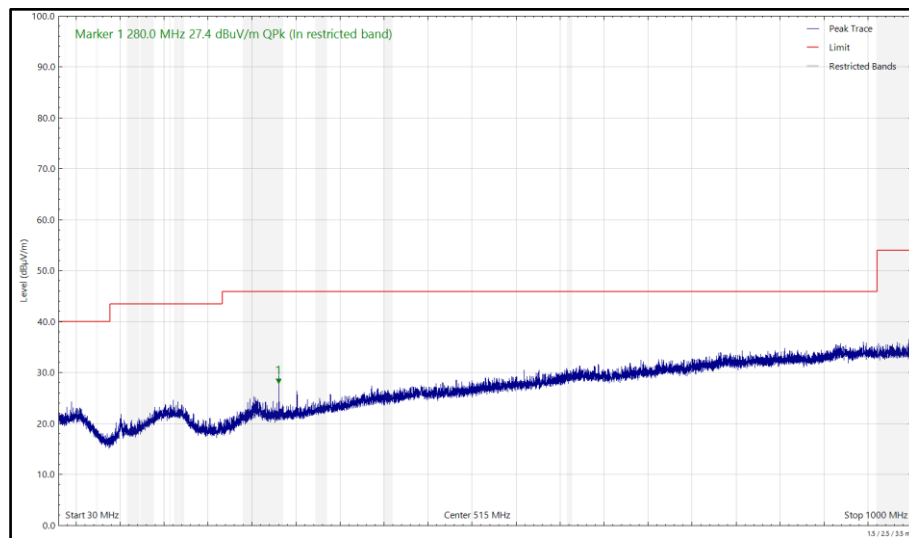


Figure 65 - 2440 MHz (CH18), Thread, iPA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

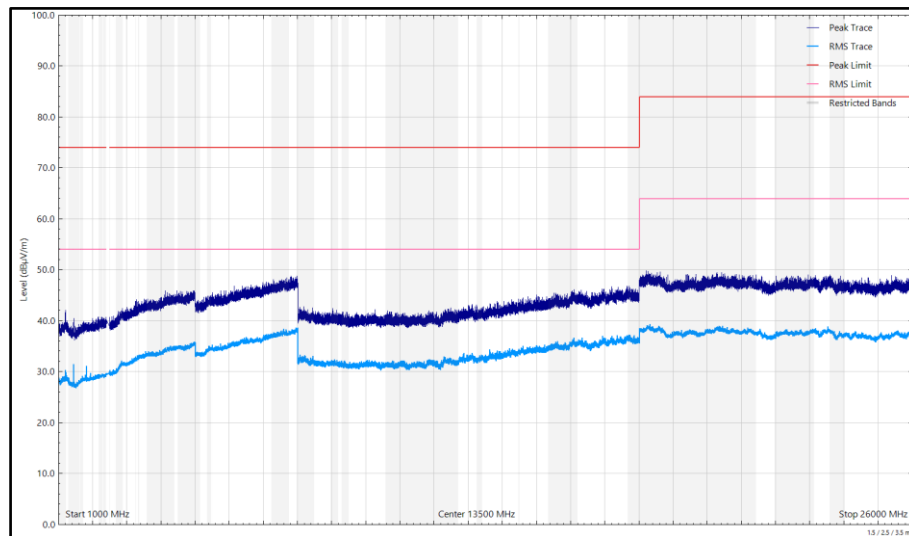


Figure 66 - 2440 MHz (CH18), Thread, iPA, Core 0, 1 GHz to 26 GHz, Horizontal