

FCC and ISED Test Report

Apple Inc
Model: A3427



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

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COMMERCIAL-IN-CONFIDENCE

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SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Andreas Euripidou	Senior Engineer	Authorised Signatory	28 January 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 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	George Capps	28 January 2026	

FCC Accreditation

492497/UK2010 Octagon House, Fareham Test Laboratory

553713/UK2026 Concorde Park, Fareham Test Laboratory

ISED Accreditation

12669A/UK0003 Octagon House, Fareham Test Laboratory

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: 2024, ISED RSS-247: Issue 4 (2025-07), 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 January 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 15C: 2024 ISED RSS-247: Issue 4 (2025-07) ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02)
Start of Test	20-October-2025
Finish of Test	13-December-2025
Name of Engineer(s)	Vineeth Nagaraj, Akhil Rajendran Bhaskaran Nair, Colin Brain, Marius Vasii, Ian Broomhall, Morsalin Hossain, George Williams
Related Document(s)	ANSI C63.10 (2020)+Cor.1-2023+C63.10a-2024



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	2.4	8.10	Restricted Band Edges	Pass	ANSI C63.10 (2020)
2.2	15.247 (a)(2)	6.3.1	6.7	Emission Bandwidth	Pass	ANSI C63.10 (2020)
2.3	15.247 (b)	6.3.2	6.12	Maximum Conducted Output Power	Pass	ANSI C63.10 (2020)
2.4	15.247 (d)	6.6	-	Authorised Band Edges	Pass	ANSI C63.10 (2020)
2.5	15.209 and 15.247 (d)	2.4 and 6.6	6.13 and 8.9	Spurious Radiated Emissions	Pass	ANSI C63.10 (2020)
2.6	15.247 (e)	6.3.1	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, 0, 1, and 2. Core 0 and 1 support two power settings: "iPA" & "ePA", with Core 2 only supporting the lower power "iPA" mode.

The EUT uses different output power per core, and the antenna gains vary, resulting in a different radiated powers per core.

The EUT was tested in the following modes:

SISO modes:

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

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 (WF1)	2412	3.7	0.71
	2442	4.6	0.71
	2472	4.5	0.71
Core 1 (WF2)	2412	3.8	0.71
	2442	3.6	0.71
	2472	3.7	0.71
Core 2 (WF3)	2412	2.2	0.71
	2442	4.0	0.71
	2472	4.5	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: A3427		
Serial Number	Hardware Version	Software Version
F17G4HW2CV	REV1.0	25D36
FJJHL9VFLF	REV1.0	25D36
HQ7G4J7H4X	REV1.0	25D36

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: A3427, Serial Number: F17G4HW2CV			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3427, Serial Number: FJJHL9VFLF			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3427, Serial Number: HQ7G4J7H4X			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 5



1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: Thread		
Emission Bandwidth	George Williams	UKAS
Maximum Conducted Output Power	George Williams	UKAS
Power Spectral Density	George Williams	UKAS

Table 6

Office Address:

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

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	Marius Vasii, Colin Brain, Morsalin Hossain	UKAS
Authorised Band Edges	Marius Vasii, Colin Brain, Morsalin Hossain	UKAS
Spurious Radiated Emissions	Vineeth Nagaraj, Akhil Rajendran Bhaskaran Nair, Colin Brain, Marius Vasii, Ian Broomhall	UKAS

Table 7

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 2.4
ISED RSS-GEN, Clause 8.10

2.1.2 Equipment Under Test and Modification State

A3427, S/N: F17G4HW2CV - Modification State 0

2.1.3 Date of Test

20-October-2025 to 22-October-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	21.3 - 24.1 °C
Relative Humidity	31.5 - 49.6 %

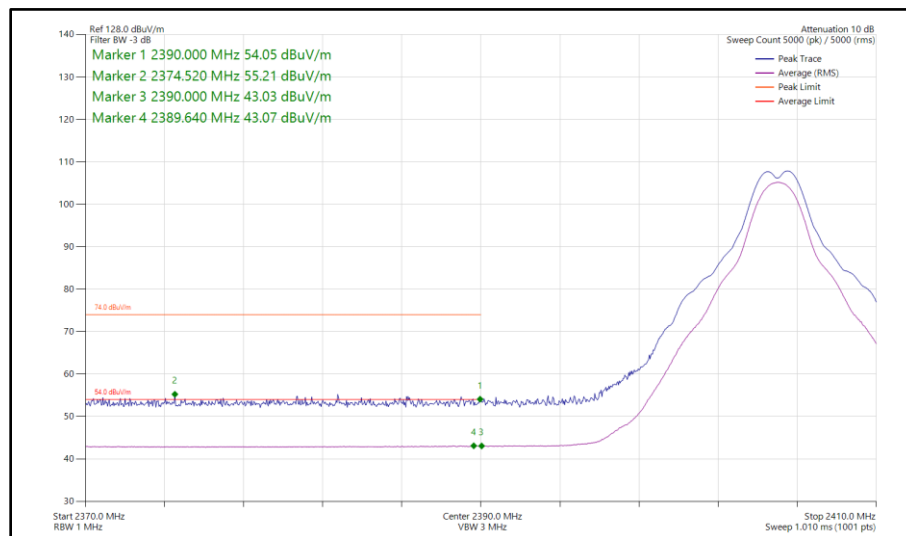
2.1.6 Test Results

Thread

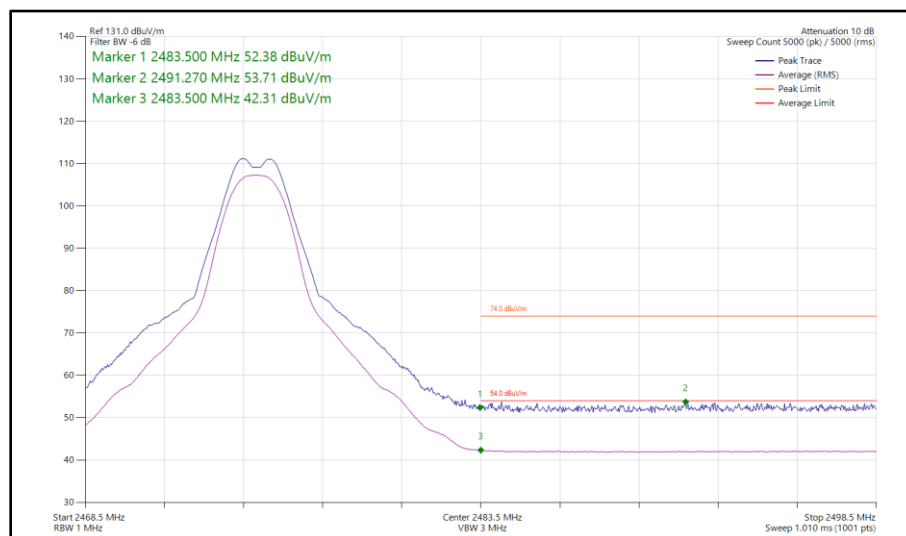
iPA - Core 0 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Thread	2405	2390	55.21	43.07
Thread	2475	2483.5	53.71	42.31

Table 8 - iPA, Core 0, SISO Restricted Band Edge Results



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

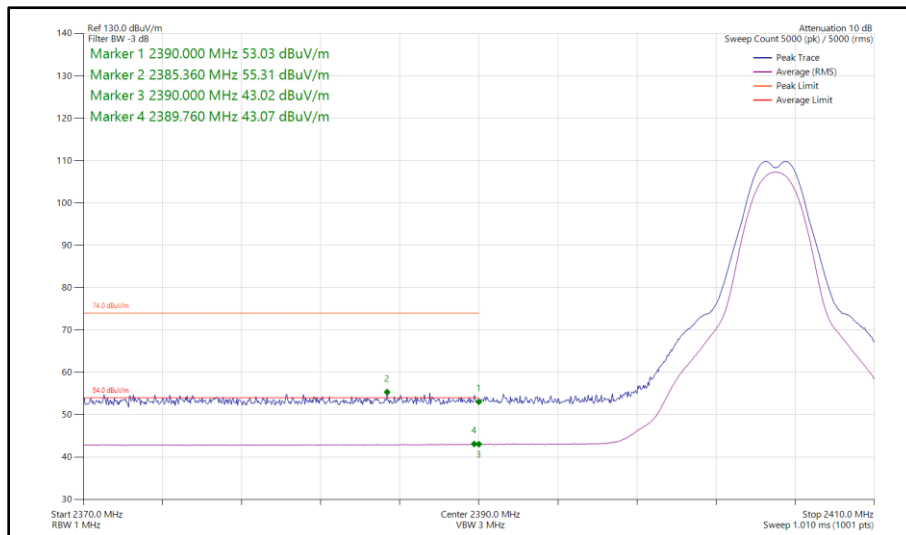


**Figure 2 - Thread, iPA, SISO, Core 0 - 2475 MHz
Band Edge Frequency 2483.5 MHz**

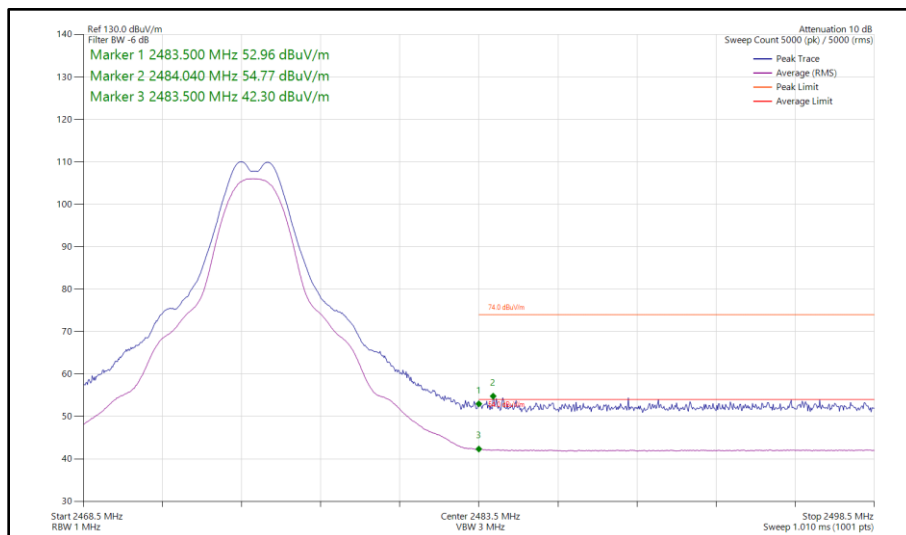
iPA - Core 1 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Thread	2405	2390	55.31	43.07
Thread	2475	2483.5	54.77	42.30

Table 9 - 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	55.36	43.06
Thread	2470	2483.5	53.46	41.75
Thread	2475	2483.5	54.03	42.29

Table 10 - iPA, Core 2, SISO Restricted Band Edge Results

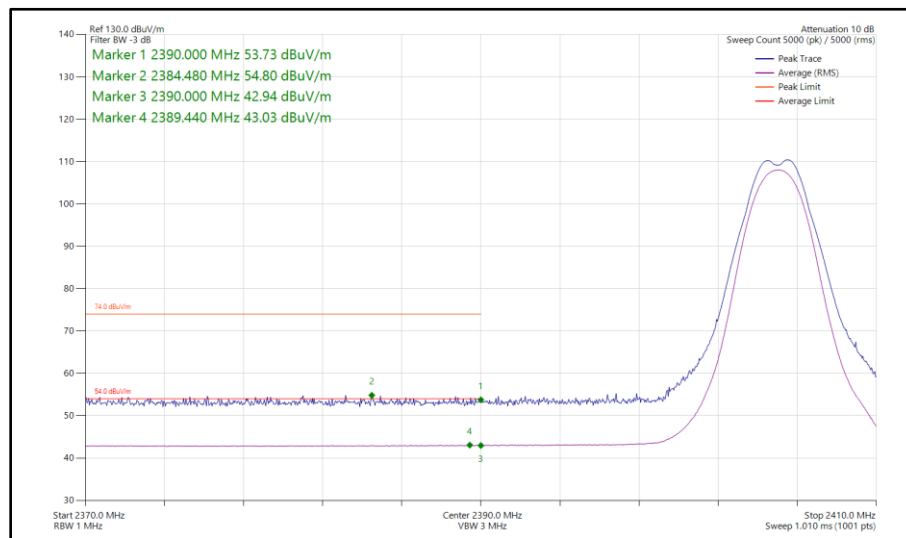


Figure 5 - Thread, iPA, SISO, Core 2 - 2405 MHz
Band Edge Frequency 2390 MHz

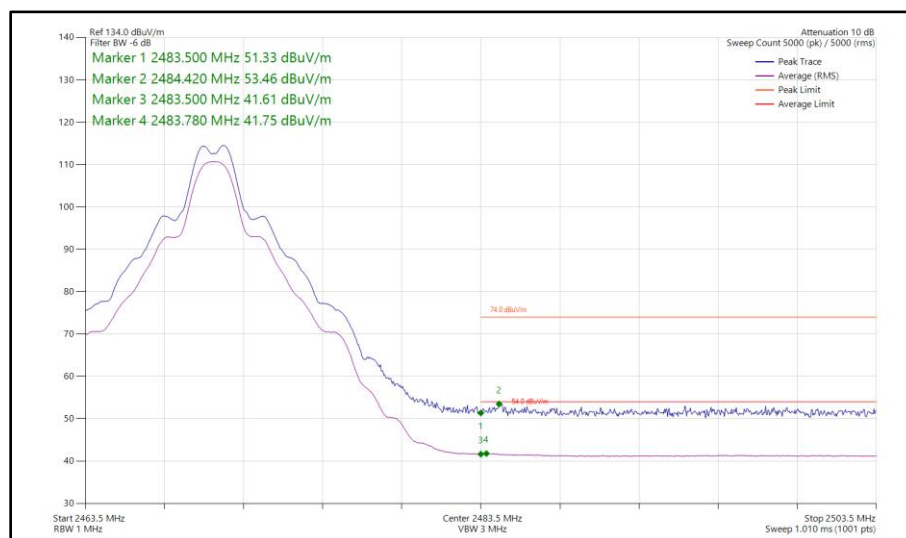


Figure 6 - Thread, iPA, SISO, Core 2 - 2470 MHz
Band Edge Frequency 2483.5 MHz

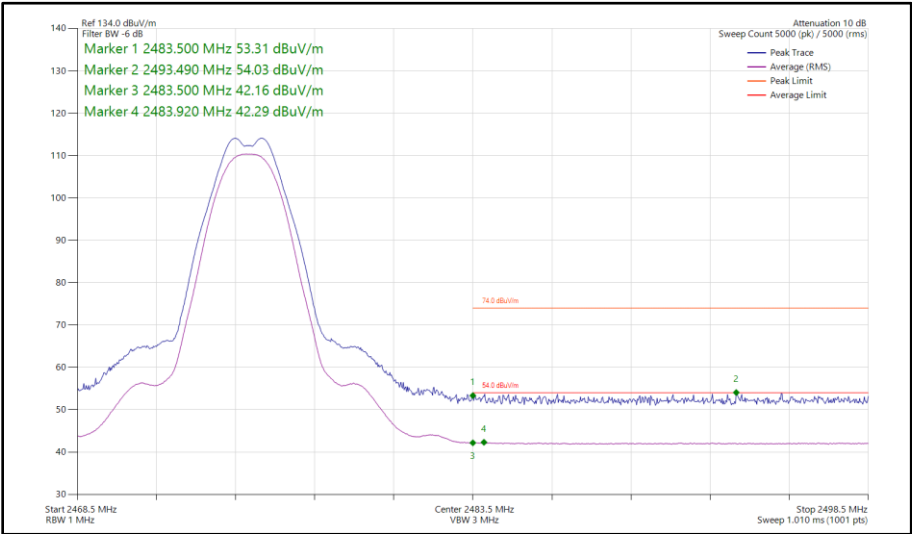
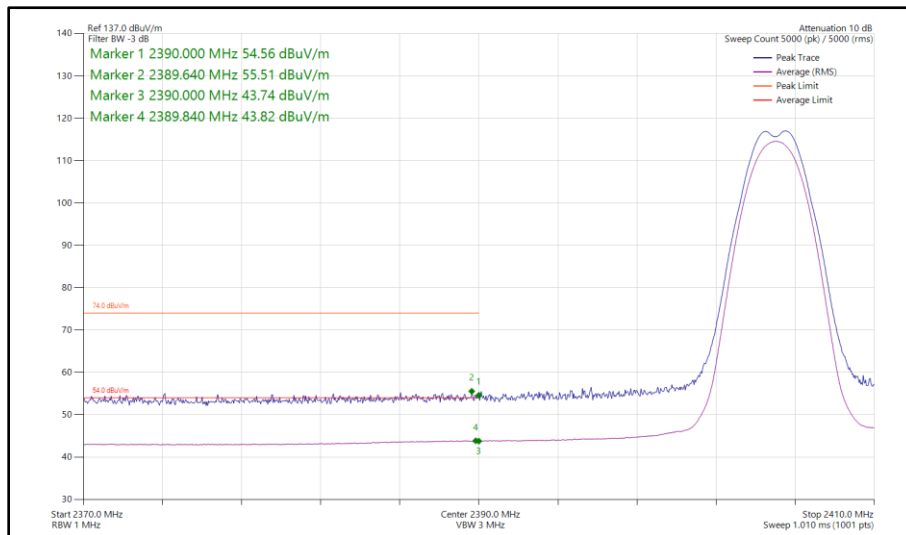


Figure 7 - Thread, iPA, SISO, Core 2 - 2475 MHz
Band Edge Frequency 2483.5 MHz

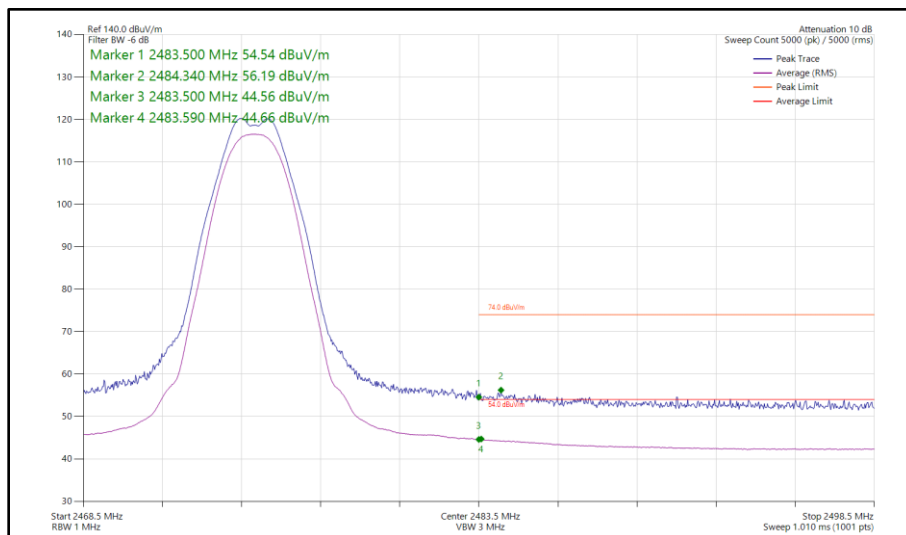
ePA - Core 0 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Thread	2405	2390	55.51	43.82
Thread	2475	2483.5	56.19	44.66

Table 11 - ePA, Core 0, SISO Restricted Band Edge Results



**Figure 8 - Thread, ePA, SISO, Core 0 - 2405 MHz
Band Edge Frequency 2390 MHz**



**Figure 9 - 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	56.54	45.14
Thread	2475	2483.5	55.95	44.84

Table 12 - ePA, Core 1, SISO Restricted Band Edge Results

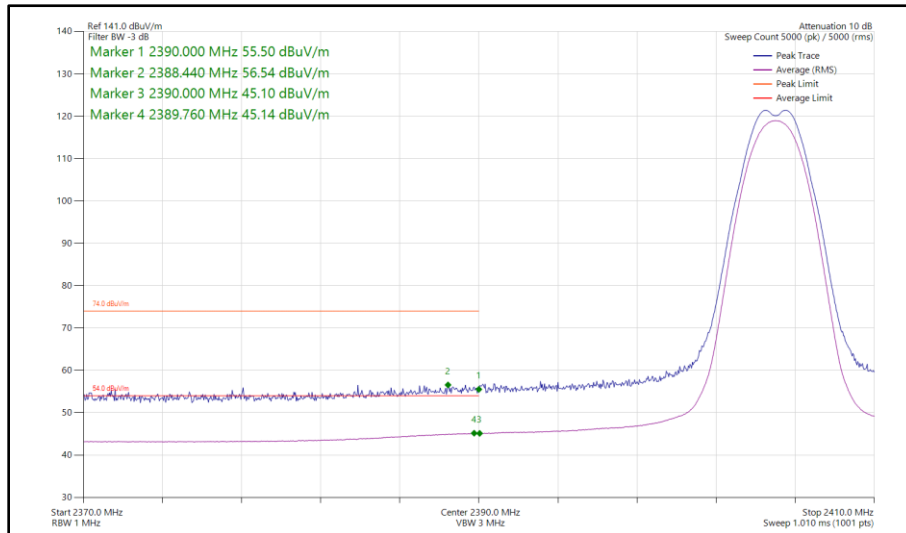


Figure 10 - Thread, ePA, SISO, Core 1 - 2405 MHz
Band Edge Frequency 2390 MHz

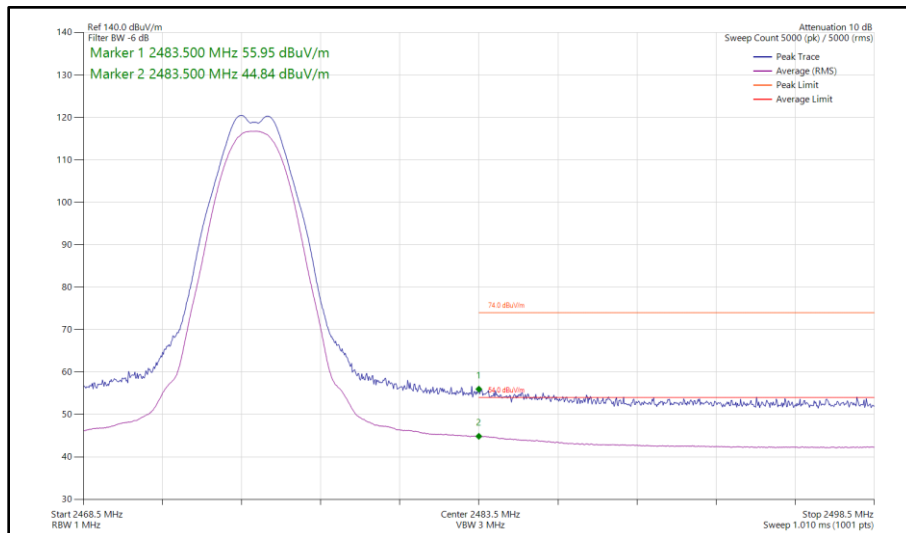


Figure 11 - Thread, ePA, SISO, Core 1 - 2475 MHz
Band Edge Frequency 2483.5 MHz



FCC 47 CFR Part 15, Limit Clause 15.209

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

Table 13

ISED RSS-GEN, Limit Clause 8.9

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

Table 14

*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 and RF Chamber 17.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	O/P Mon
Test Receiver	Rohde & Schwarz	ESW44	5379	12	25-Nov-2026
Test Receiver	Rohde & Schwarz	ESW44	5914	12	17-Jun-2026
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	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



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5996	12	23-May-2026
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	06-Jun-2026
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	14-Sep-2026
SAC Switch Unit	TUV SUD	TUV_Ssu_001	6144	12	05-Dec-2026
Digital Multimeter	Fluke	115	6145	12	06-Jun-2026
Digital Multimeter	Fluke	115	6146	12	05-Jun-2026
Humidity & Temperature meter	R.S Components	1364	6148	12	28-Aug-2026
USB Spectrum Analyser	Signal Hound	SA124B	6295	-	TU
USB Spectrum Analyser	Signal Hound	SA124B	6297	-	TU
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6354	12	15-Apr-2026
Humidity and Temperature Meter	R.S Components	1364	6486	12	01-Jul-2026
3m Semi-Anechoic Chamber	Albatross Projects	Chamber 18	6597	36	08-May-2028
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6740	12	27-Apr-2026
Turntable	Maturo GmbH	TT1.5SI	6797	-	TU
AC Programmable Power Supply	iTech	IT7324	6812	-	O/P Mon
Broad-Band Horn Antenna 1-10GHz N	Schwarzbeck	BBHA9120B	6825	12	14-Sep-2026
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6833	12	18-Aug-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6851	12	06-Nov-2026
Cable Assembly	Pasternack	PE300-60	6856	-	TU
Cable Assembly	Pasternack	PE300-60	6861	-	TU
Cable Assembly	Pasternack	PE300-60	6862	-	TU
Cable Assembly	Pasternack	PE300-60	6863	-	TU
Cable Assembly	Pasternack	PE300-60	6868	-	TU
SAC Switch Unit	TUV SUD	TUV_Ssu_004 PLC	6886	12	02-Dec-2026
RF Amplifier BROADBAND AMPL/SMA/RoHS	Mini-Circuits	ZX60-83LN12+	6975	12	05-Apr-2026
RF Amplifier BROADBAND AMPL/SMA/RoHS	Mini-Circuits	ZX60-83LN12+	6976	12	05-Apr-2026

Figure 12

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 6.3.1
ISED RSS-GEN, Clause 6.7

2.2.2 Equipment Under Test and Modification State

A3427, S/N: HQ7G4J7H4X - Modification State 0

2.2.3 Date of Test

04-December-2025

2.2.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.9.2 for 6 dB BW and 6.9.3 for 99% occupied bandwidth measurements.

2.2.5 Environmental Conditions

Ambient Temperature	17.3 °C
Relative Humidity	50.5 %



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 6.3.1	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA 2.00 MHz	Duty Cycle (%):	-
CustomFieldTitle:	Thread iPA	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	1.640	-	-	-	≥500.0
2440	1.640	-	-	-	≥500.0
2475	1.640	-	-	-	≥500.0

Table 15 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	2.224	-	-	-	-
2440	2.224	-	-	-	-
2475	2.224	-	-	-	-

Table 16 - 99% Bandwidth Results



Figure 13 - Core 0 (A) 2405 MHz (CH11) 99% Bandwidth

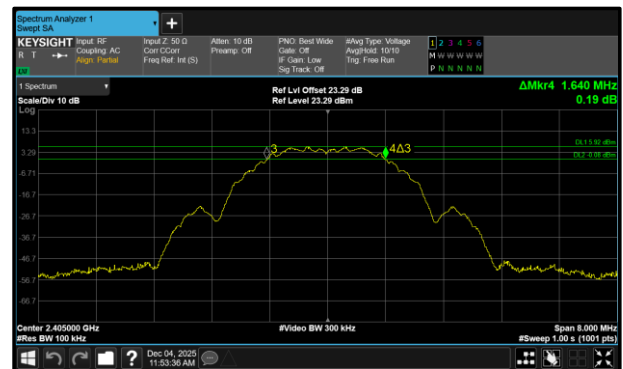


Figure 14 - Core 0 (A) 2405 MHz (CH11) 6 dB Bandwidth

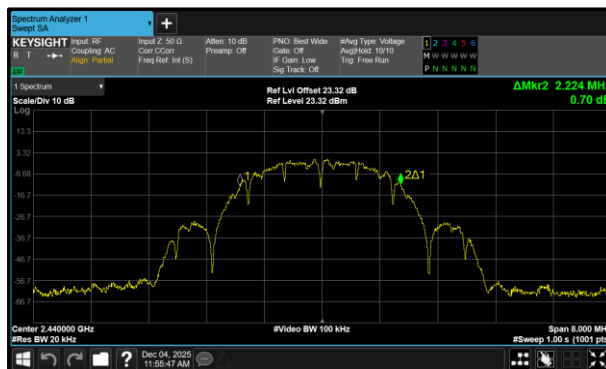


Figure 15 - Core 0 (A) 2440 MHz (CH18) 99% Bandwidth

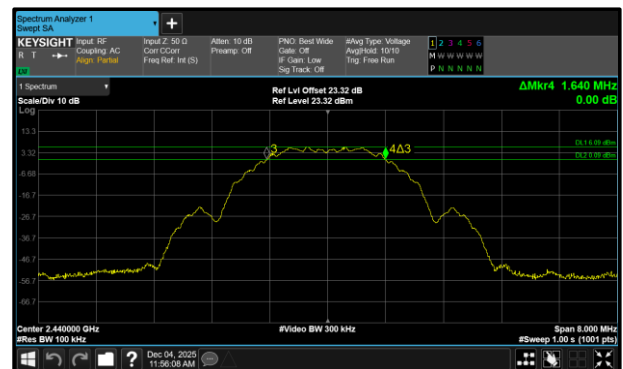


Figure 16 - Core 0 (A) 2440 MHz (CH18) 6 dB Bandwidth

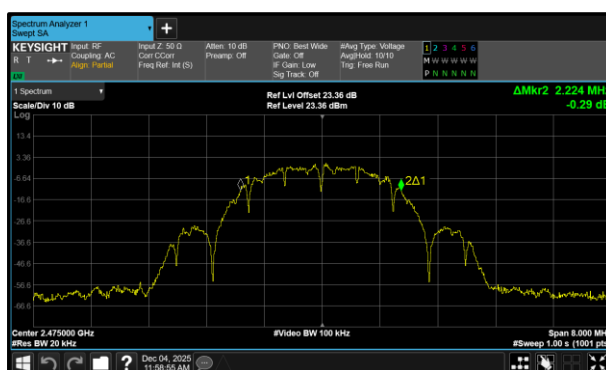


Figure 17 - Core 0 (A) 2475 MHz (CH25) 99% Bandwidth

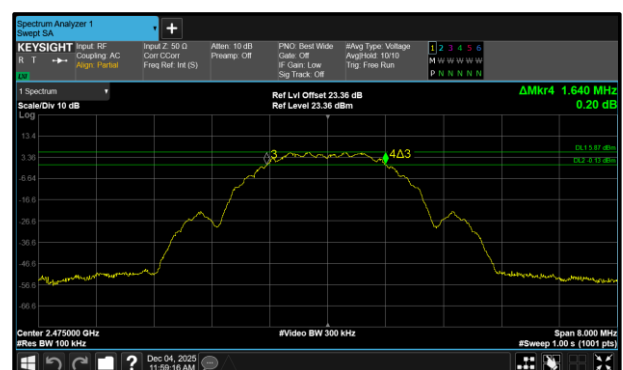


Figure 18 - Core 0 (A) 2475 MHz (CH25) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 6.3.1	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA 2.00 MHz	Duty Cycle (%):	-
CustomFieldTitle:	Thread iPA	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	-	1.632	-	-	≥500.0
2440	-	1.640	-	-	≥500.0
2475	-	1.632	-	-	≥500.0

Table 17 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	2.224	-	-	-
2440	-	2.224	-	-	-
2475	-	2.232	-	-	-

Table 18 - 99% Bandwidth Results



Figure 19 - Core 1 (B) 2405 MHz (CH11) 99% Bandwidth

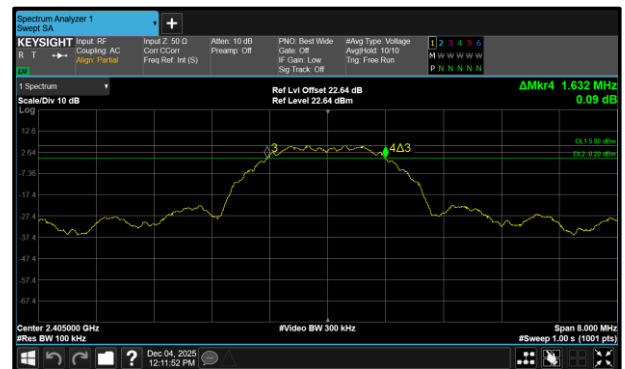


Figure 20 - Core 1 (B) 2405 MHz (CH11) 6 dB Bandwidth

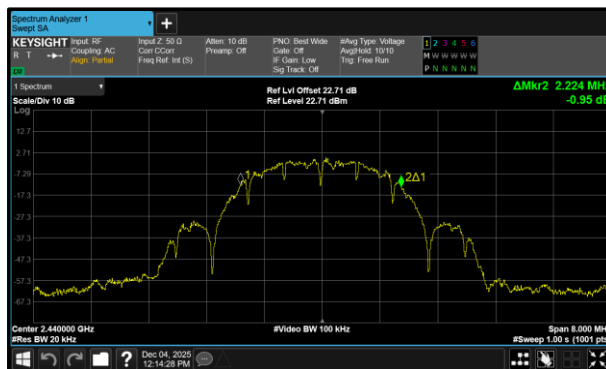


Figure 21 - Core 1 (B) 2440 MHz (CH18) 99% Bandwidth

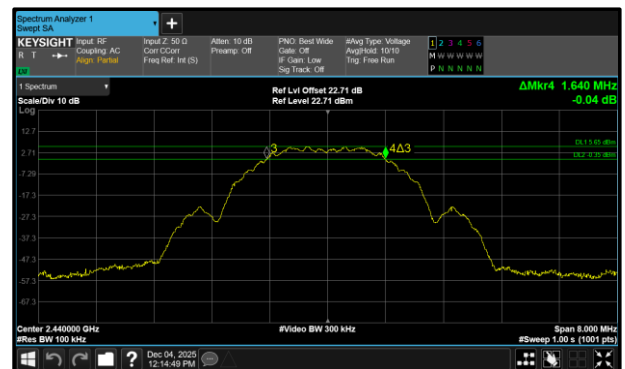


Figure 22 - Core 1 (B) 2440 MHz (CH18) 6 dB Bandwidth

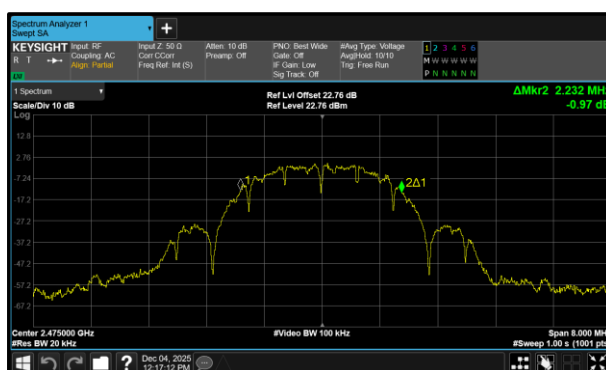


Figure 23 - Core 1 (B) 2475 MHz (CH25) 99% Bandwidth



Figure 24 - 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 6.3.1	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA 2.00 MHz	Duty Cycle (%):	-
CustomFieldTitle:	Thread iPA	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	-	-	1.640	-	≥500.0
2440	-	-	1.640	-	≥500.0
2475	-	-	1.640	-	≥500.0

Table 19 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	-	2.224	-	-
2440	-	-	2.232	-	-
2475	-	-	2.224	-	-

Table 20 - 99% Bandwidth Results



Figure 25 - Core 2 (C) 2405 MHz (CH11) 99% Bandwidth



Figure 26 - Core 2 (C) 2405 MHz (CH11) 6 dB Bandwidth

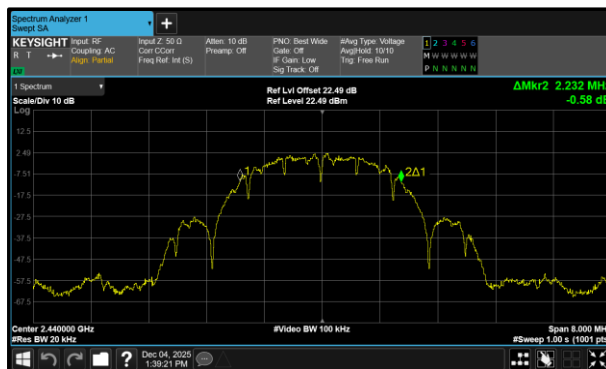


Figure 27 - Core 2 (C) 2440 MHz (CH18) 99% Bandwidth

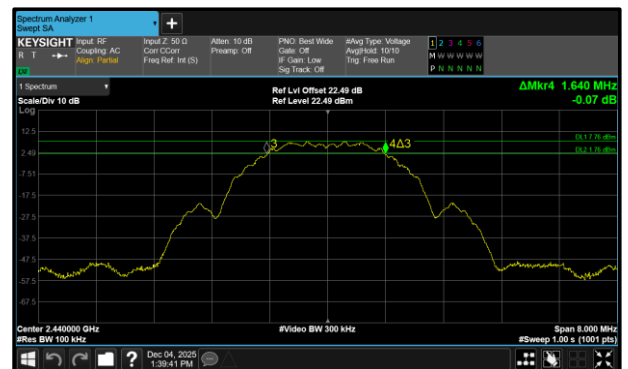


Figure 28 - Core 2 (C) 2440 MHz (CH18) 6 dB Bandwidth

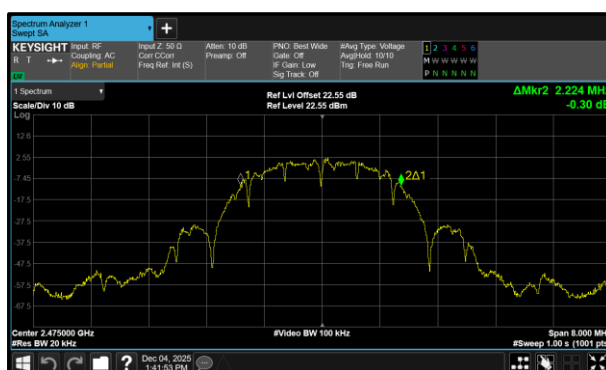


Figure 29 - Core 2 (C) 2475 MHz (CH25) 99% Bandwidth

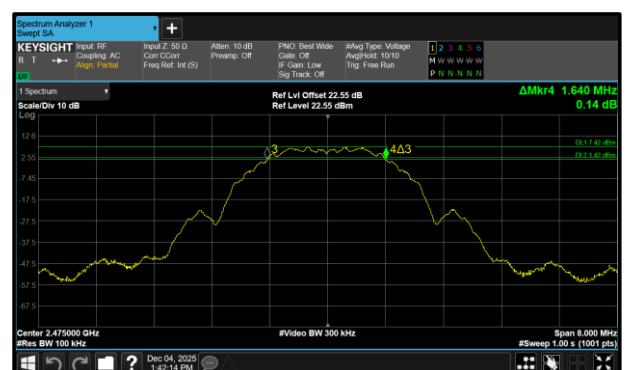


Figure 30 - Core 2 (C) 2475 MHz (CH25) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 6.3.1	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread ePA 2.00 MHz	Duty Cycle (%):	-
CustomFieldTitle:	Thread ePA	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	1.608	-	-	-	≥500.0
2440	1.616	-	-	-	≥500.0
2475	1.608	-	-	-	≥500.0

Table 21 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	2.200	-	-	-	-
2440	2.192	-	-	-	-
2475	2.192	-	-	-	-

Table 22 - 99% Bandwidth Results

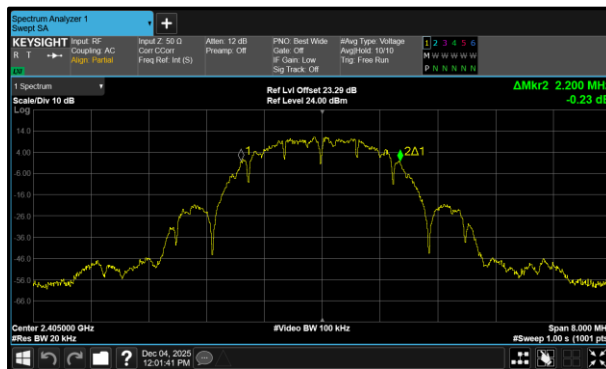


Figure 31 - Core 0 (A) 2405 MHz (CH11) 99% Bandwidth



Figure 32 - Core 0 (A) 2405 MHz (CH11) 6 dB Bandwidth

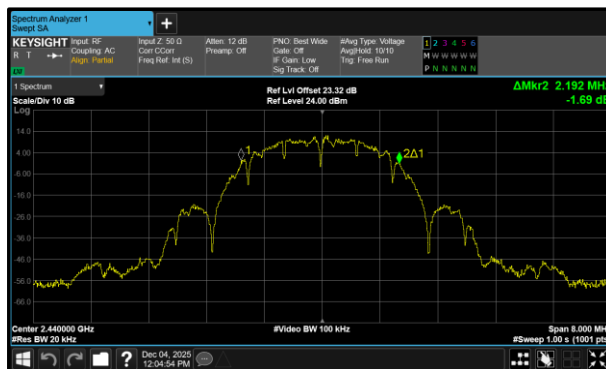


Figure 33 - Core 0 (A) 2440 MHz (CH18) 99% Bandwidth

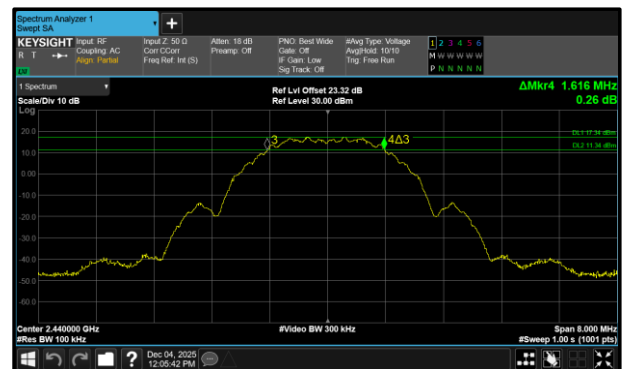


Figure 34 - Core 0 (A) 2440 MHz (CH18) 6 dB Bandwidth

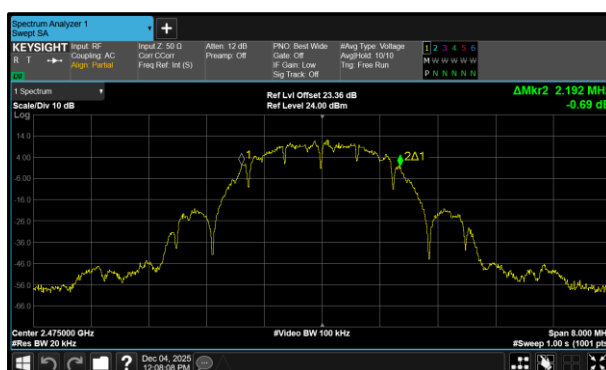


Figure 35 - Core 0 (A) 2475 MHz (CH25) 99% Bandwidth

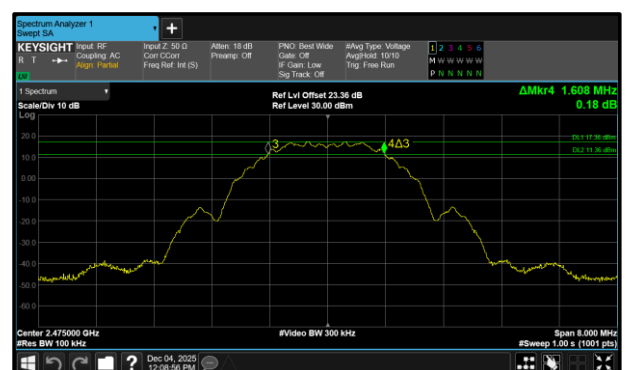


Figure 36 - Core 0 (A) 2475 MHz (CH25) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 6.3.1	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread ePA 2.00 MHz	Duty Cycle (%):	-
CustomFieldTitle:	Thread ePA	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	-	1.616	-	-	≥500.0
2440	-	1.616	-	-	≥500.0
2475	-	1.616	-	-	≥500.0

Table 23 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2405	-	2.192	-	-	-
2440	-	2.184	-	-	-
2475	-	2.192	-	-	-

Table 24 - 99% Bandwidth Results

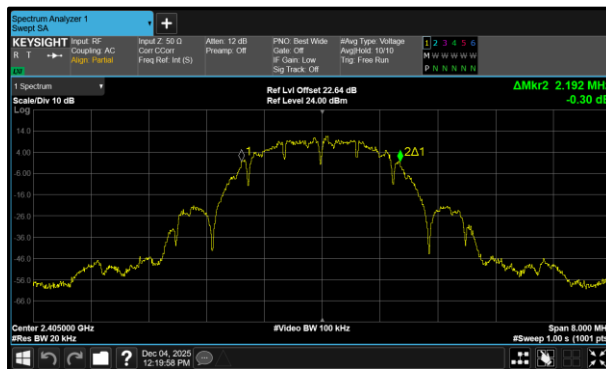


Figure 37 - Core 1 (B) 2405 MHz (CH11) 99% Bandwidth



Figure 38 - Core 1 (B) 2405 MHz (CH11) 6 dB Bandwidth

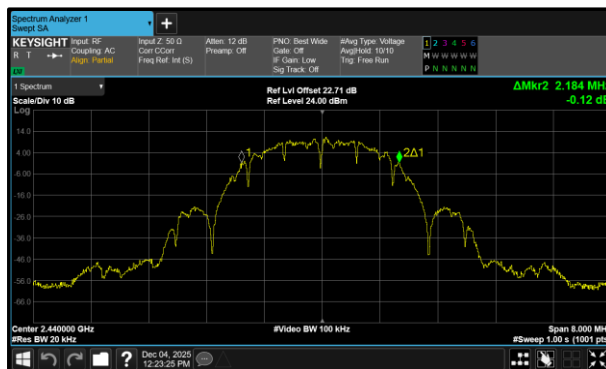


Figure 39 - Core 1 (B) 2440 MHz (CH18) 99% Bandwidth

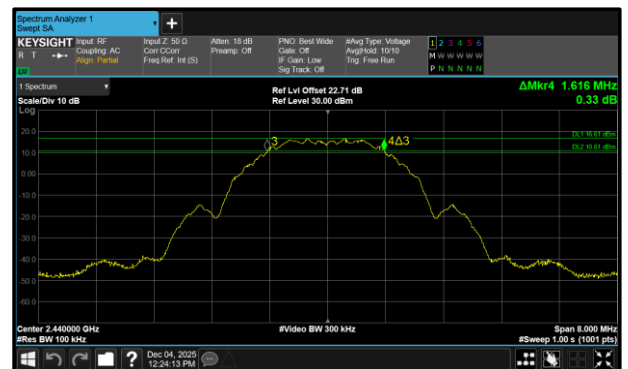


Figure 40 - Core 1 (B) 2440 MHz (CH18) 6 dB Bandwidth

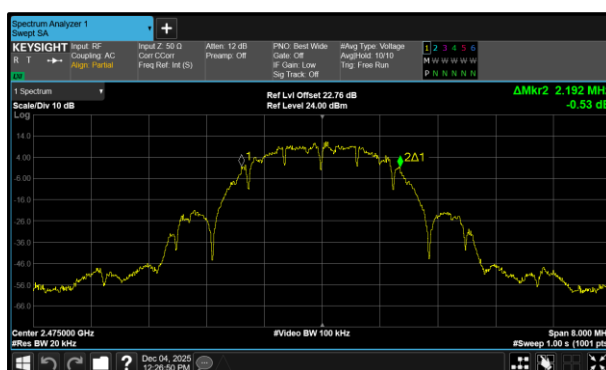


Figure 41 - Core 1 (B) 2475 MHz (CH25) 99% Bandwidth

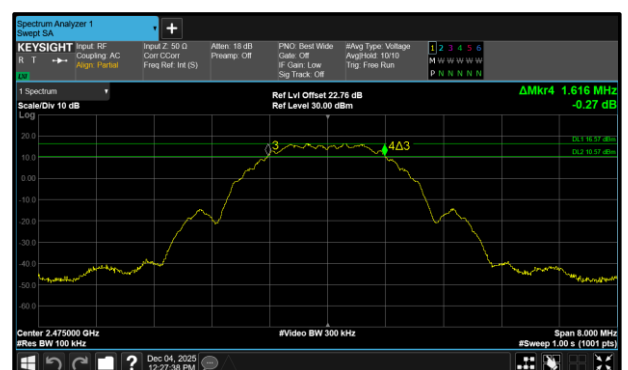


Figure 42 - Core 1 (B) 2475 MHz (CH25) 6 dB Bandwidth



FCC 47 CFR Part 15, Limit Clause 15.247(a)(2) and ISSED RSS-247, Clause 6.3.1

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 EMC Laboratory 2.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Multimeter	Iso-tech	IDM101	2421	12	11-Nov-2026
AC Programmable Power Supply	iTech	IT7324	5227	-	O/P Mon
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	5759	12	01-Feb-2026
MXA Signal Analyser	Keysight Technologies	N9020B	5919	24	31-Mar-2028
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6903	12	01-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6904	12	01-Feb-2026
6dB Attenuator cable assembly for SCU.	TUV SUD	SPECTRUM_SCU_CA	7214	12	28-Nov-2026

Figure 43

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 6.3.2
ISED RSS-GEN, Clause 6.12

2.3.2 Equipment Under Test and Modification State

A3427, S/N: HQ7G4J7H4X - Modification State 0

2.3.3 Date of Test

04-December-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	17.3 °C
Relative Humidity	50.5 %



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 6.3.2	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA 2.00 MHz	Duty Cycle (%):	100.0
CustomFieldTitle:	Thread iPA	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.60
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	8.73	-	-	-	8.73	30.00	-21.27
2440	8.90	-	-	-	8.90	30.00	-21.10
2475	8.68	-	-	-	8.68	30.00	-21.32

Table 25 - 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	8.73	-	-	-	8.73	30.00	-21.27	12.43	36.00	-23.57
2440	8.90	-	-	-	8.90	30.00	-21.10	13.50	36.00	-22.50
2475	8.68	-	-	-	8.68	30.00	-21.32	13.18	36.00	-22.82

Table 26 - ISSED 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 6.3.2	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA 2.00 MHz	Duty Cycle (%):	100.0
CustomFieldTitle:	Thread iPA	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.80
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	-	8.95	-	-	8.95	30.00	-21.05
2440	-	8.81	-	-	8.81	30.00	-21.19
2475	-	8.97	-	-	8.97	30.00	-21.03

Table 27 - 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	-	8.95	-	-	8.95	30.00	-21.05	12.75	36.00	-23.25
2440	-	8.81	-	-	8.81	30.00	-21.19	12.41	36.00	-23.59
2475	-	8.97	-	-	8.97	30.00	-21.03	12.67	36.00	-23.33

Table 28 - ISD 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 6.3.2	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread iPA 2.00 MHz	Duty Cycle (%):	100.0
CustomFieldTitle:	Thread iPA	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.50
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	-	-	10.80	-	10.80	30.00	-19.20
2440	-	-	10.92	-	10.92	30.00	-19.08
2475	-	-	10.59	-	10.59	30.00	-19.41

Table 29 - 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	-	-	10.80	-	10.80	30.00	-19.20	13.00	36.00	-23.00
2440	-	-	10.92	-	10.92	30.00	-19.08	14.92	36.00	-21.08
2475	-	-	10.59	-	10.59	30.00	-19.41	15.09	36.00	-20.91

Table 30 - ISD 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 6.3.2	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread ePA 2.00 MHz	Duty Cycle (%):	100.0
CustomFieldTitle:	Thread ePA	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	4.60
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	19.90	-	-	-	19.90	30.00	-10.10
2440	19.89	-	-	-	19.89	30.00	-10.11
2475	19.96	-	-	-	19.96	30.00	-10.04

Table 31 - 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	19.90	-	-	-	19.90	30.00	-10.10	23.60	36.00	-12.40
2440	19.89	-	-	-	19.89	30.00	-10.11	24.49	36.00	-11.51
2475	19.96	-	-	-	19.96	30.00	-10.04	24.46	36.00	-11.54

Table 32 - ISD 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 6.3.2	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	Thread ePA 2.00 MHz	Duty Cycle (%):	100.0
CustomFieldTitle:	Thread ePA	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	3.80
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	-	19.92	-	-	19.92	30.00	-10.08
2440	-	19.57	-	-	19.57	30.00	-10.43
2475	-	19.56	-	-	19.56	30.00	-10.44

Table 33 - 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	-	19.92	-	-	19.92	30.00	-10.08	23.72	36.00	-12.28
2440	-	19.57	-	-	19.57	30.00	-10.43	23.17	36.00	-12.83
2475	-	19.56	-	-	19.56	30.00	-10.44	23.26	36.00	-12.74

Table 34 - ISD 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 6.3.2

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 EMC Laboratory 2.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Digital Multi-meter	Iso-tech	IDM93N	4435	12	06-Mar-2026
AC Programmable Power Supply	iTech	IT7324	5227	-	O/P Mon
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	5759	12	01-Feb-2026
USB Power Sensor	Boonton	RTP5008	5830	12	01-Feb-2026
USB Power Sensor	Boonton	RTP5008	5832	12	01-Feb-2026
USB Wideband Power Sensor	Boonton	RTP5008	6592	12	01-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6903	12	01-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6904	12	01-Feb-2026
6dB Attenuator cable assembly for SCU.	TUV SUD	SPECTRUM_SCU_CA	7214	12	28-Nov-2026

Figure 44

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 6.6

2.4.2 Equipment Under Test and Modification State

A3427, S/N: F17G4HW2CV - Modification State 0

2.4.3 Date of Test

20-October-2025 to 22-October-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	21.3 - 24.1 °C
Relative Humidity	31.5 - 49.6 %



2.4.6 Test Results

Thread

iPA - Core 0 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-37.38

Table 35 - iPA, Core 0, SISO Authorised Band Edge Results

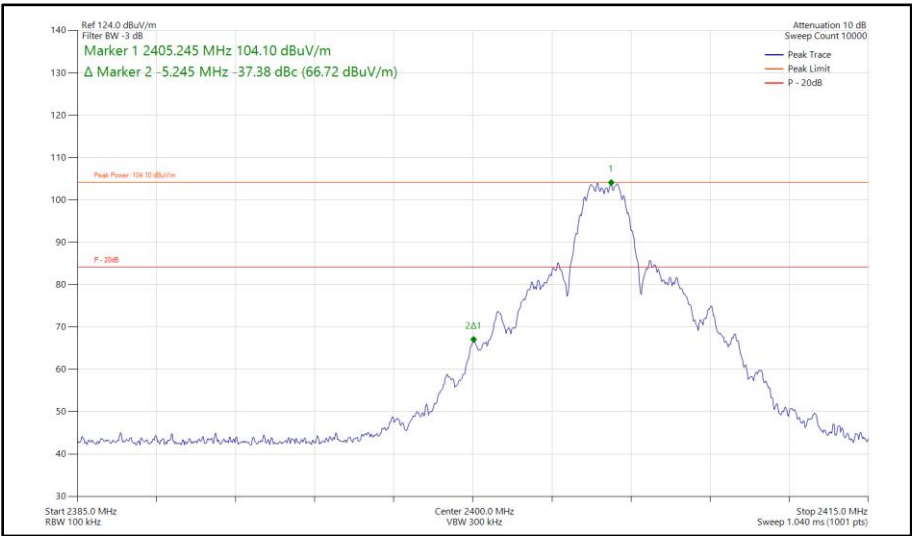


Figure 45 - Thread, iPA, SISO, Core 0 - 2405 MHz
Band Edge Frequency 2400 MHz



iPA - Core 1 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-48.68

Table 36 - iPA, Core 1, SISO Authorised Band Edge Results

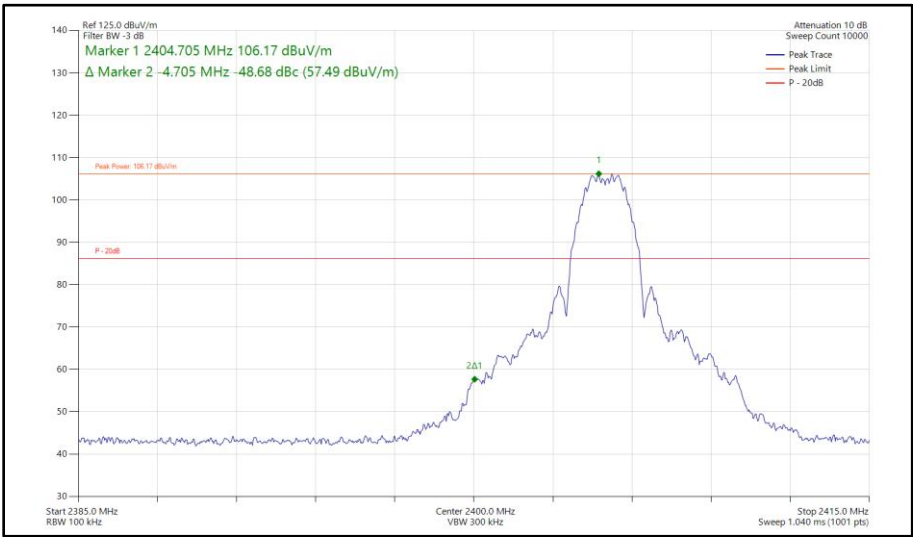


Figure 46 - Thread, iPA, SISO, Core 1 - 2405 MHz
Band Edge Frequency 2400 MHz



iPA - Core 2 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-60.24

Table 37 - iPA, Core 2, SISO Authorised Band Edge Results

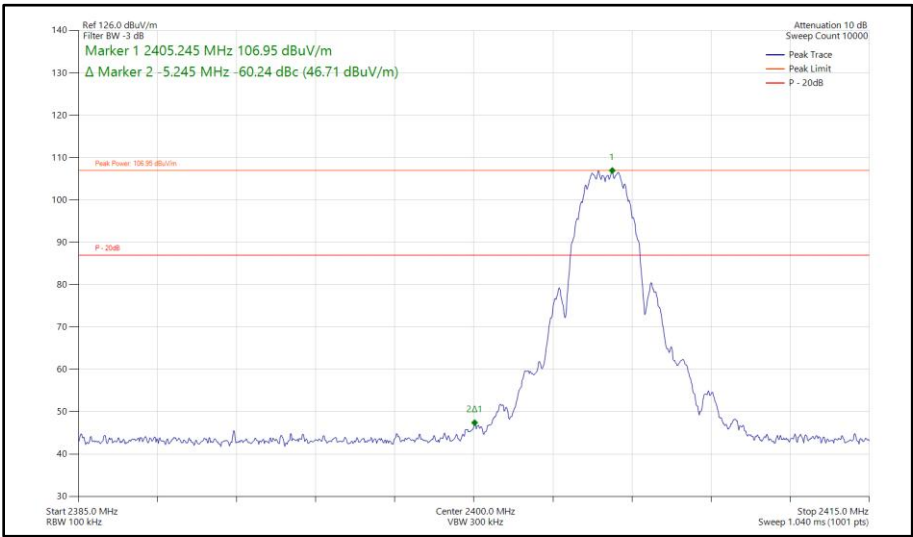


Figure 47 - Thread, iPA, SISO, Core 2 - 2405 MHz
Band Edge Frequency 2400 MHz

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-66.14

Ref 132.0 dBuV/m
Filter BW -3 dB
Marker 1 2400.000 MHz 46.77 dBuV/m
Marker 2 2405.215 MHz 113.49 dBuV/m
Δ Marker 3 -5.365 MHz -66.14 dBc (47.35 dBuV/m)

Peak Power 113.49 dBuV/m
P - 20dB

3.62

2

Start 2385.0 MHz
RBW 100 kHz
Center 2400.0 MHz
VBW 300 kHz
Stop 2415.0 MHz
Sweep 1.040 ms (1001 pts)

Attenuation 10 dB
Sweep Count 10000

Peak Trace
Peak Limit
P - 20dB

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ePA - Core 1 (SISO)

Mode	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Thread	2405	2400	-67.55

Table 39 - ePA, Core 1, SISO Authorised Band Edge Results

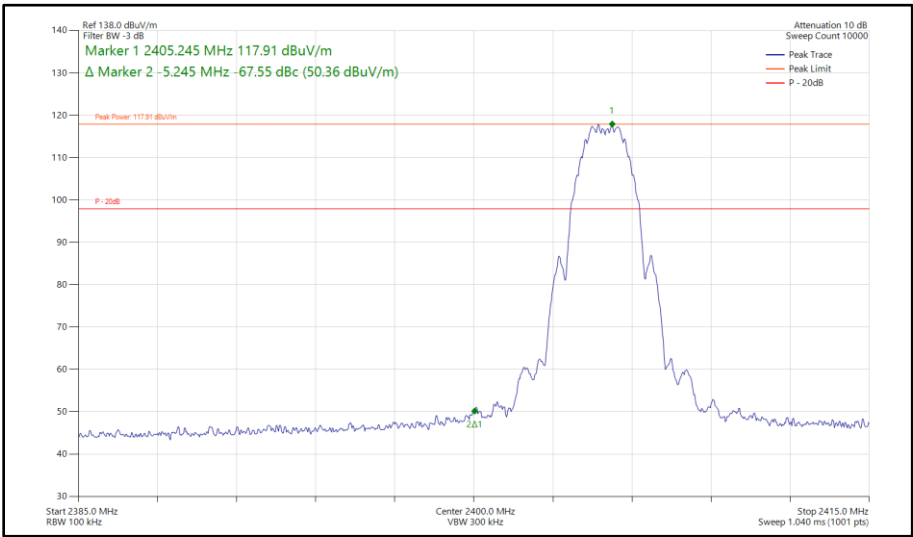


Figure 49 - Thread, ePA, SISO, Core 1 - 2405 MHz
Band Edge Frequency 2400 MHz



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 6.6

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 and RF Chamber 17.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.6.1 V.	5125	-	O/P Mon
Test Receiver	Rohde & Schwarz	ESW44	5379	12	25-Nov-2026
Test Receiver	Rohde & Schwarz	ESW44	5914	12	17-Jun-2026
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	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
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5996	12	23-May-2026
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	06-Jun-2026
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	14-Sep-2026
SAC Switch Unit	TUV SUD	TUV_SSU_001	6144	12	05-Dec-2026
Digital Multimeter	Fluke	115	6145	12	06-Jun-2026
Digital Multimeter	Fluke	115	6146	12	05-Jun-2026
Humidity & Temperature meter	R.S Components	1364	6148	12	28-Aug-2026
USB Spectrum Analyser	Signal Hound	SA124B	6295	-	TU
USB Spectrum Analyser	Signal Hound	SA124B	6297	-	TU



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6354	12	15-Apr-2026
Directional Coupler	Mini-Circuits	ZUDC20-06183-S+	6484	-	TU
3m Semi-Anechoic Chamber	Albatross Projects	Chamber 18	6597	36	08-May-2028
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6740	12	27-Apr-2026
Turntable	Maturo GmbH	TT1.5SI	6797	-	TU
AC Programmable Power Supply	iTech	IT7324	6812	-	O/P Mon
Broad-Band Horn Antenna 1-10GHz N	Schwarzbeck	BBHA9120B	6825	12	14-Sep-2026
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6833	12	18-Aug-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6851	12	06-Nov-2026
Cable Assembly	Pasternack	PE300-60	6856	-	TU
Cable Assembly	Pasternack	PE300-60	6861	-	TU
Cable Assembly	Pasternack	PE300-60	6862	-	TU
Cable Assembly	Pasternack	PE300-60	6863	-	TU
Cable Assembly	Pasternack	PE300-60	6868	-	TU
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6886	12	02-Dec-2026
RF Amplifier BROADBAND AMPL/SMA/RoHS	Mini-Circuits	ZX60-83LN12+	6975	12	05-Apr-2026
RF Amplifier BROADBAND AMPL/SMA/RoHS	Mini-Circuits	ZX60-83LN12+	6976	12	05-Apr-2026

Figure 50

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 6.6
ISED RSS-GEN, Clause 6.13 and 8.9

2.5.2 Equipment Under Test and Modification State

A3427, S/N: F17G4HW2CV - Modification State 0
A3427, S/N: FJJHL9VFLF - Modification State 0

2.5.3 Date of Test

07-December-2025 to 13-December-2025

2.5.4 Test Method

Thread

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 dBuV/m to uV/m:
 $10^{(\text{Field Strength in dBuV/m}/20)}$

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 $20 \cdot \log(3/1) = 9.54$ dB.

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

2.5.5 Example Test Setup Diagram

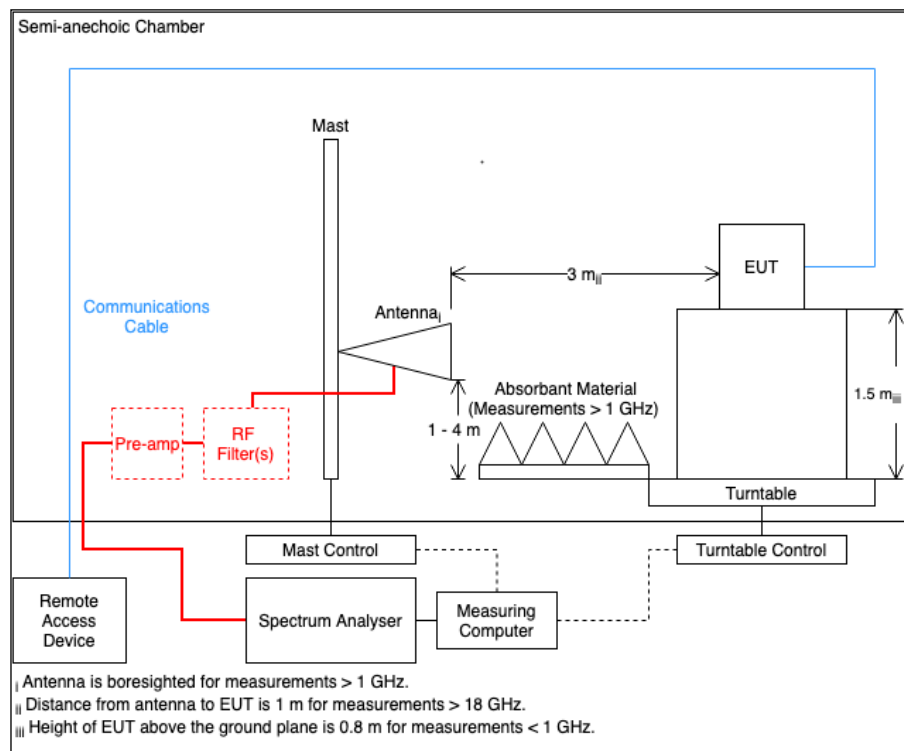


Figure 51

2.5.6 Environmental Conditions

Ambient Temperature	21.3 - 24.0 °C
Relative Humidity	34.9 - 46.2 %

2.5.7 Test Results

Thread

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2483.755	36.18	54.00	-17.82	RMS	47	397	Vertical

Table 40 - 2405 MHz (CH11), Thread, ePA, Core 0, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

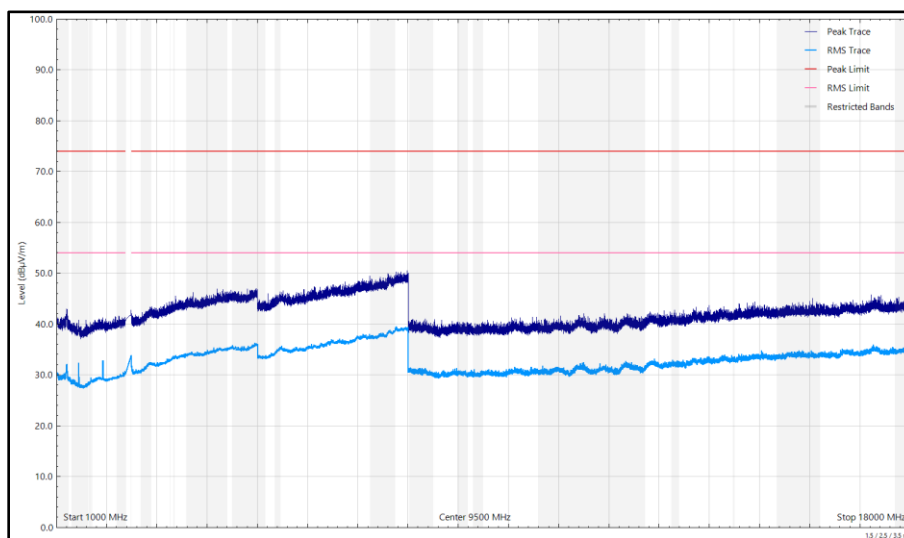


Figure 52 - 2405 MHz (CH11), Thread, ePA, Core 0, 1 GHz to 18 GHz, Horizontal

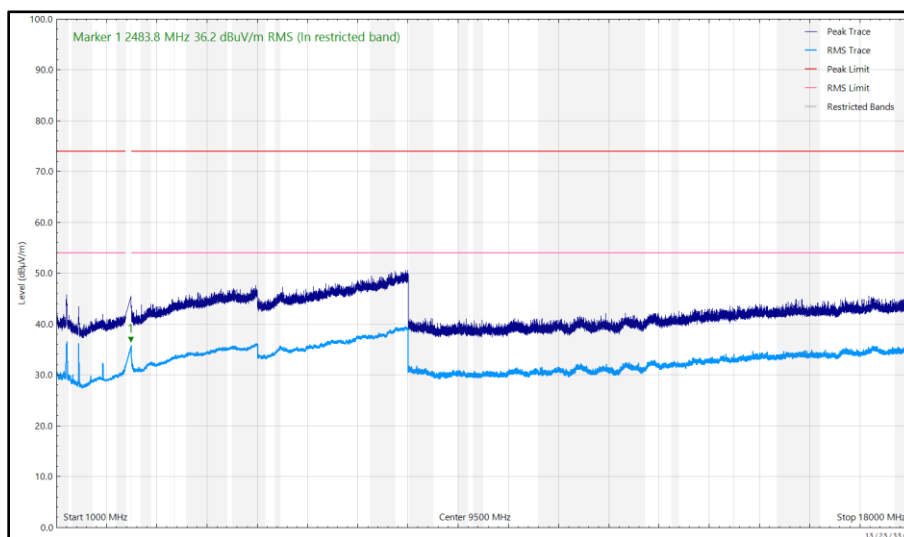


Figure 53 - 2405 MHz (CH11), Thread, ePA, Core 0, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2389.314	35.05	54.00	-18.95	RMS	50	392	Vertical
2483.519	36.35	54.00	-17.65	RMS	39	390	Vertical
2483.582	33.52	54.00	-20.48	RMS	63	339	Horizontal

Table 41 - 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 26 GHz

No other emissions found within 20 dB of the limit.

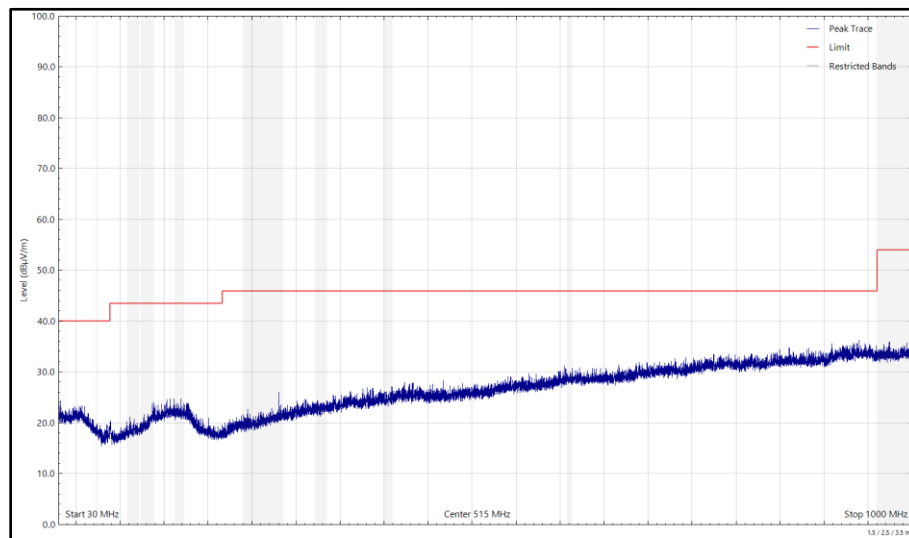


Figure 54 - 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

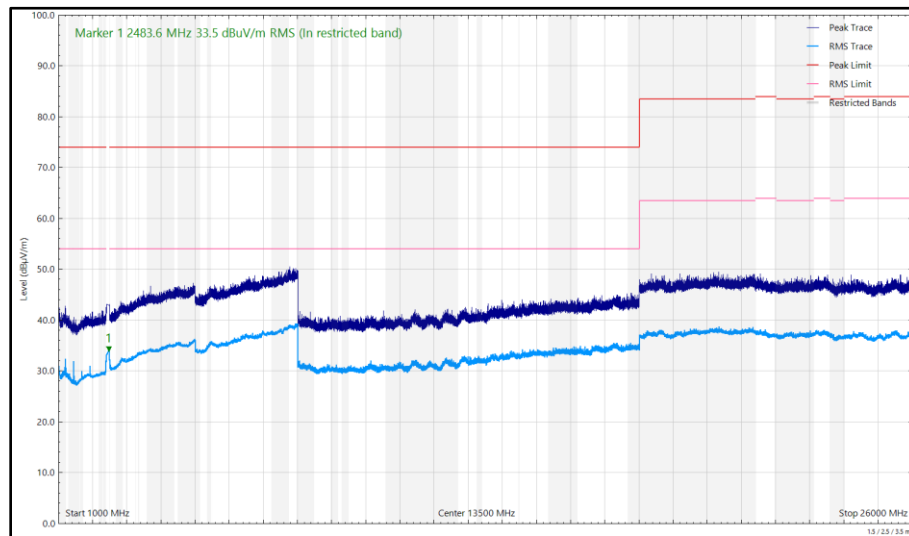


Figure 55 - 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 26 GHz, Horizontal

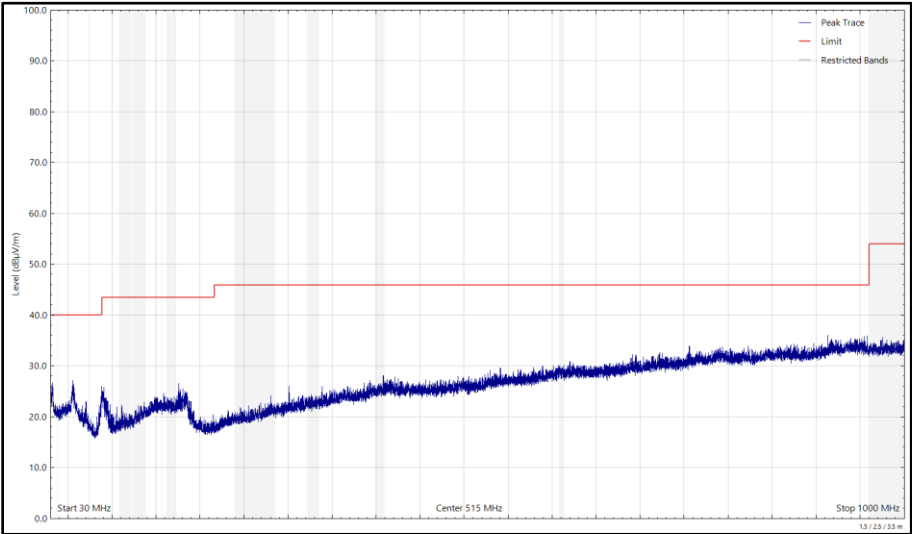


Figure 56 - 2440 MHz (CH18), Thread, ePA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

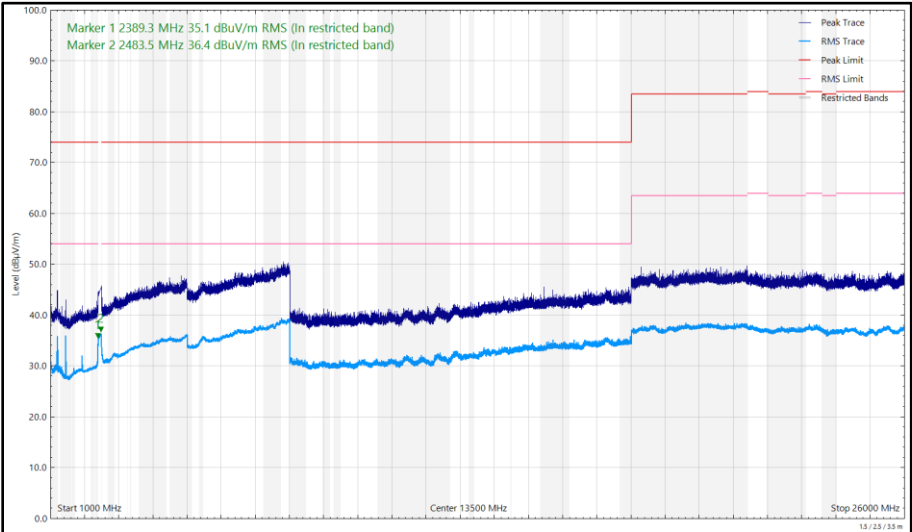


Figure 57 - 2440 MHz (CH18), Thread, ePA, Core 0, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2389.960	34.85	54.00	-19.15	RMS	51	386	Vertical

Table 42 - 2475 MHz (CH25), Thread, ePA, Core 0, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

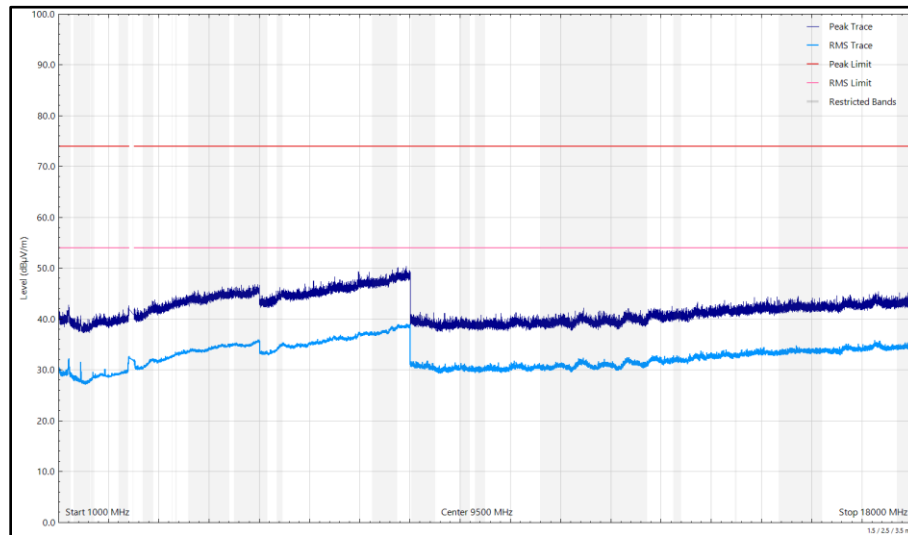


Figure 58 - 2475 MHz (CH25), Thread, ePA, Core 0, 1 GHz to 18 GHz, Horizontal

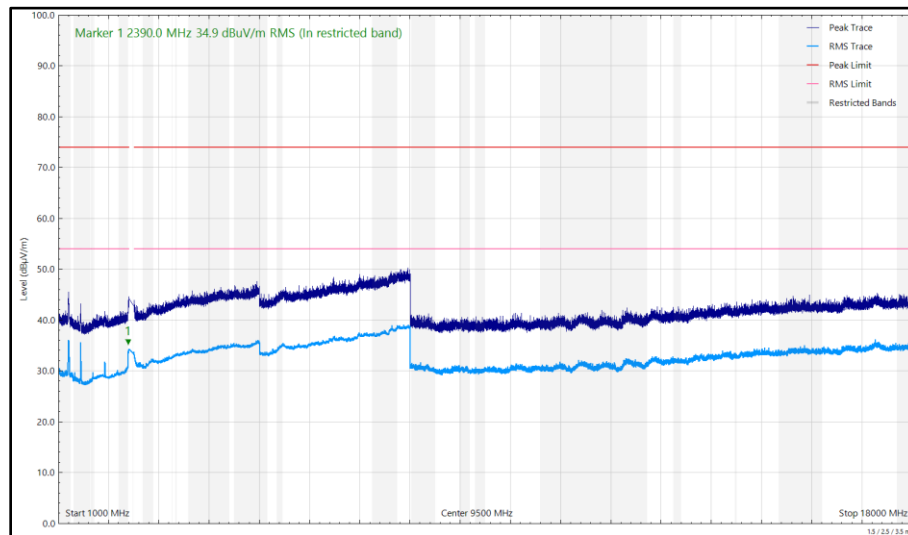


Figure 59 - 2475 MHz (CH25), Thread, ePA, Core 0, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2483.585	36.29	54.00	-17.71	RMS	2	357	Vertical

Table 43 - 2405 MHz (CH11), Thread, ePA, Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

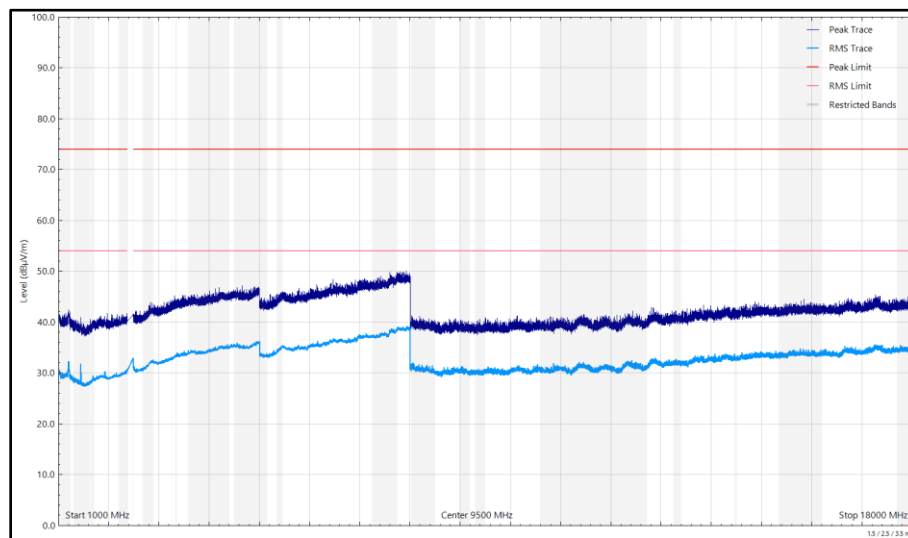


Figure 60 - 2405 MHz (CH11), Thread, ePA, Core 1, 1 GHz to 18 GHz, Horizontal

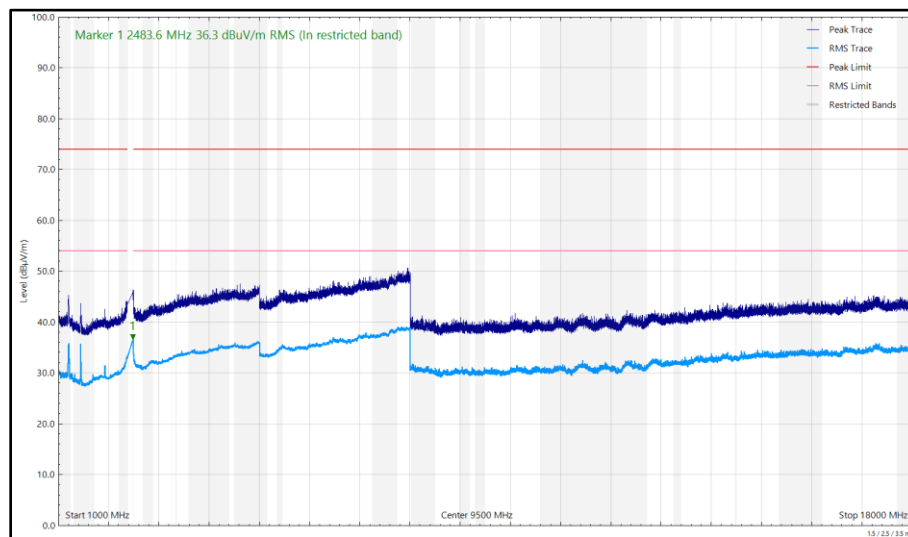


Figure 61 - 2405 MHz (CH11), Thread, ePA, Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
38.156	20.43	40.00	-19.57	Q-Peak	144	320	Vertical
136.059	20.49	43.50	-23.01	Q-Peak	4	353	Horizontal
162.720	21.82	43.50	-21.68	Q-Peak	19	275	Horizontal
163.794	21.82	43.50	-21.68	Q-Peak	316	153	Vertical
281.573	20.80	46.00	-25.20	Q-Peak	285	111	Horizontal
2389.997	36.96	54.00	-17.04	RMS	350	358	Vertical
2483.695	36.55	54.00	-17.45	RMS	332	377	Vertical

Table 44 - 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 26 GHz

No other emissions found within 20 dB of the limit.

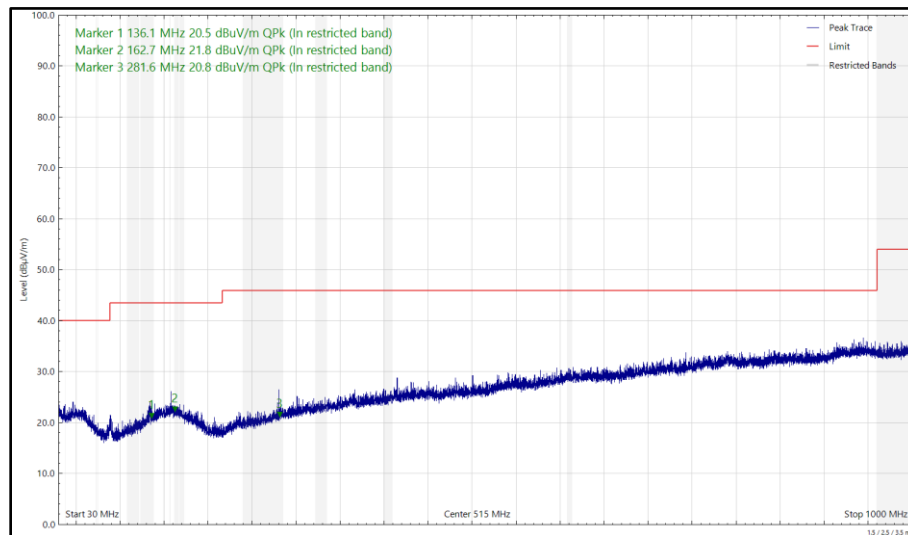


Figure 62 - 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

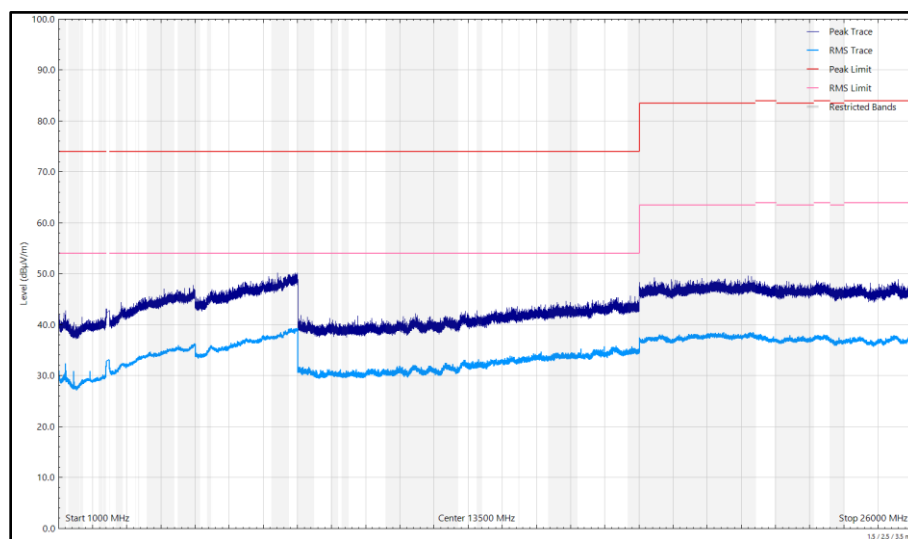


Figure 63 - 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 26 GHz, Horizontal

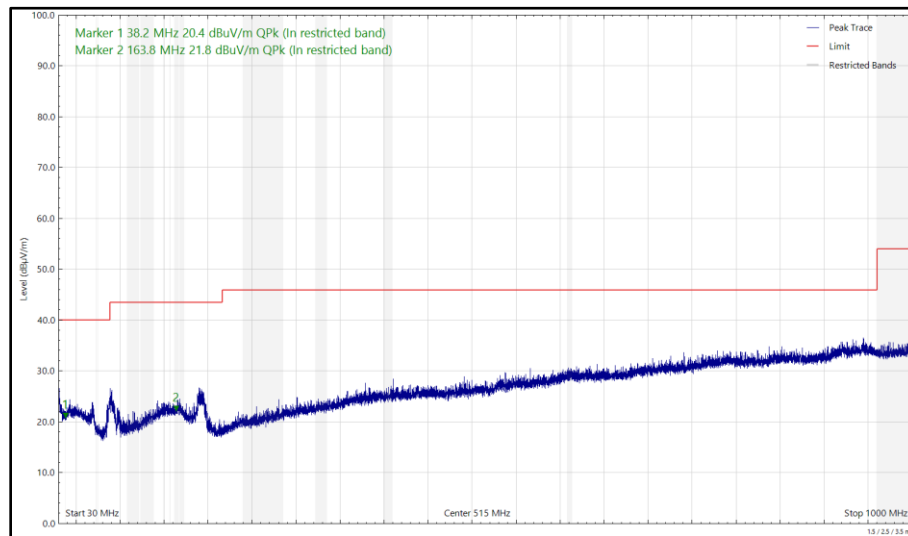


Figure 64 - 2440 MHz (CH18), Thread, ePA, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

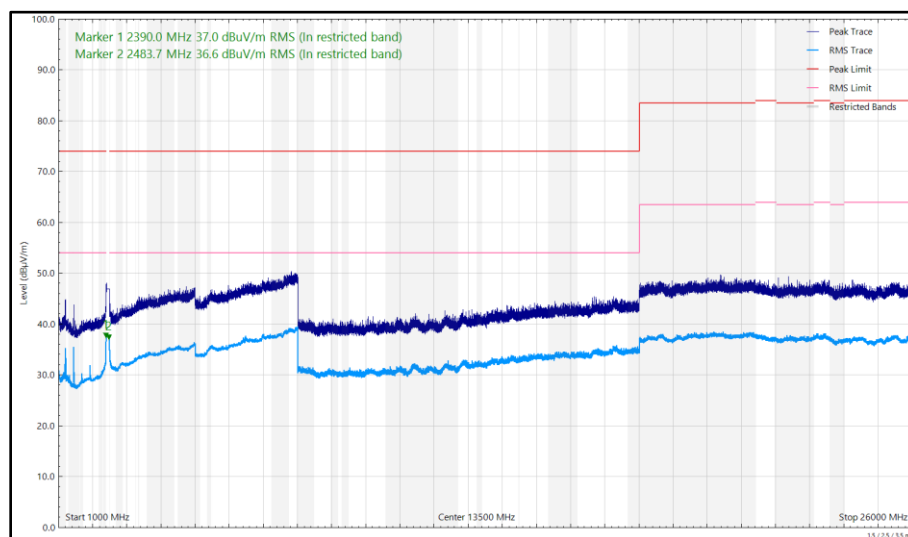


Figure 65 - 2440 MHz (CH18), Thread, ePA, Core 1, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2389.745	36.18	54.00	-17.82	RMS	2	375	Vertical
2498.537	33.55	54.00	-20.45	RMS	337	386	Vertical

Table 45 - 2475 MHz (CH25), Thread, ePA, Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

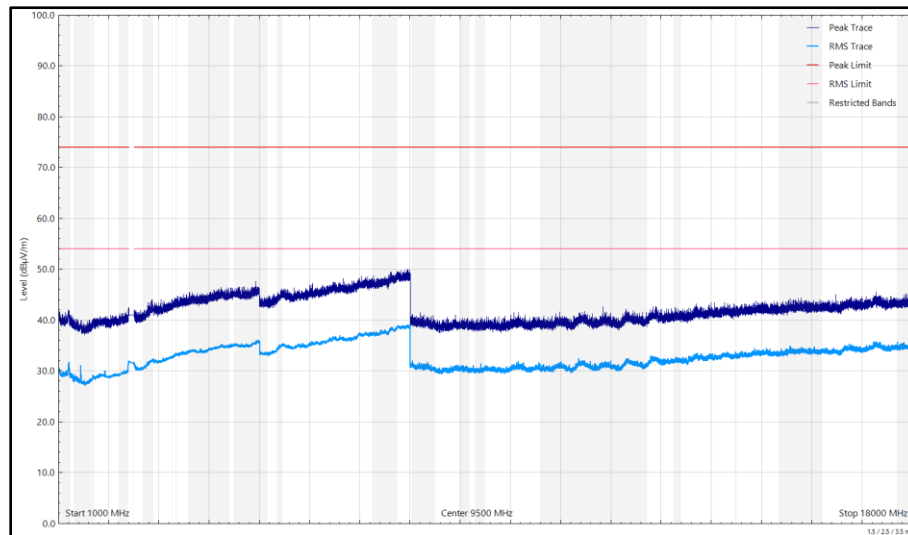


Figure 66 - 2475 MHz (CH25), Thread, ePA, Core 1, 1 GHz to 18 GHz, Horizontal

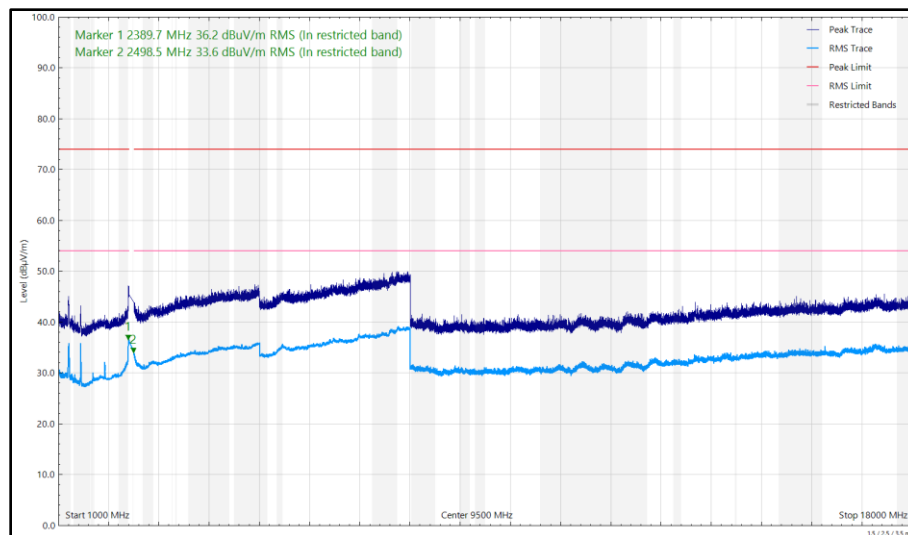


Figure 67 - 2475 MHz (CH25), Thread, ePA, Core 1, 1 GHz to 18 GHz, Vertical



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

Table 46 - 2405 MHz (CH11), Thread, iPA, Core 0, 1 GHz to 18 GHz

*No emissions found within 20 dB of the limit.

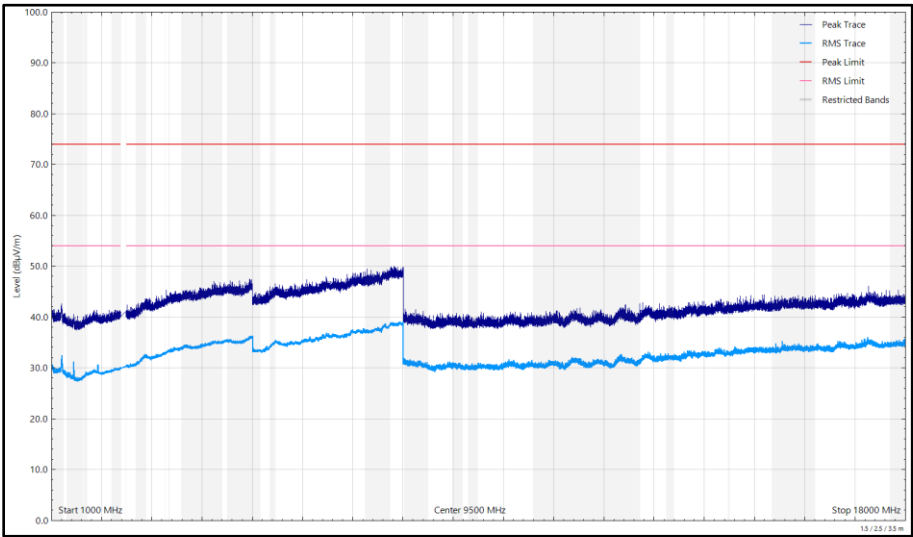


Figure 68 - 2405 MHz (CH11), Thread, iPA, Core 0, 1 GHz to 18 GHz, Horizontal

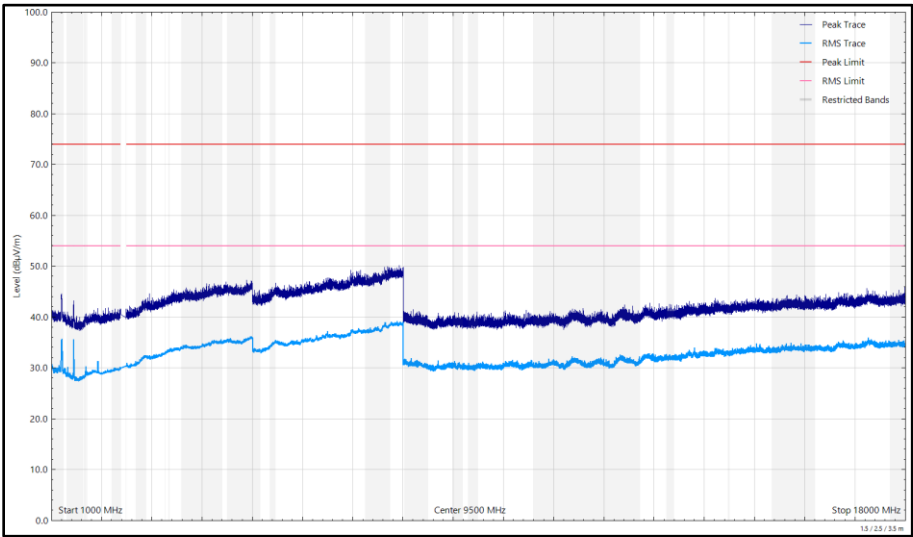


Figure 69 - 2405 MHz (CH11), Thread, iPA, Core 0, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
164.693	21.67	43.50	-21.83	Q-Peak	37	343	Vertical
170.476	21.54	43.50	-21.96	Q-Peak	22	253	Horizontal
281.669	20.82	46.00	-25.18	Q-Peak	202	357	Horizontal
283.307	20.88	46.00	-25.12	Q-Peak	330	286	Vertical

Table 47 - 2440 MHz (CH18), Thread, iPA, Core 0, 30 MHz to 26 GHz

No other emissions found within 20 dB of the limit.

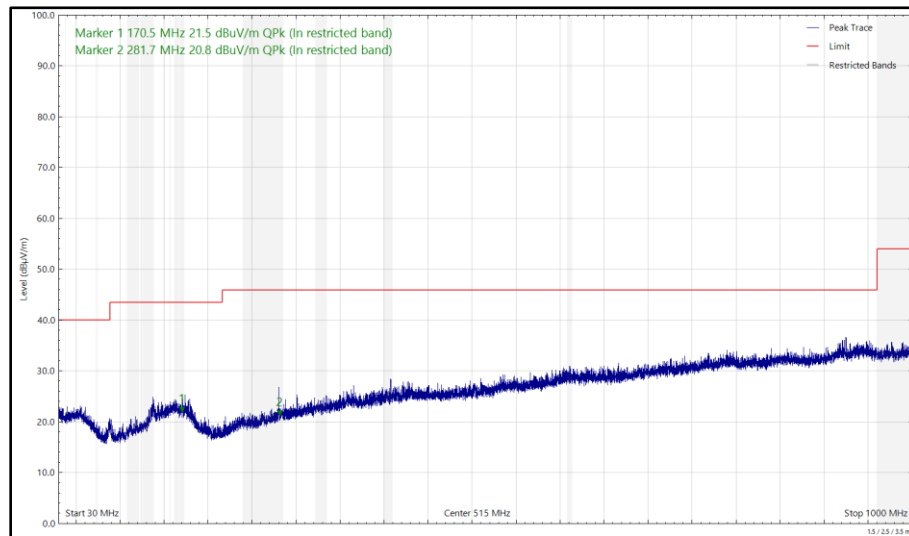


Figure 70 - 2440 MHz (CH18), Thread, iPA, Core 0, 30 MHz to 1 GHz, Horizontal (Peak)

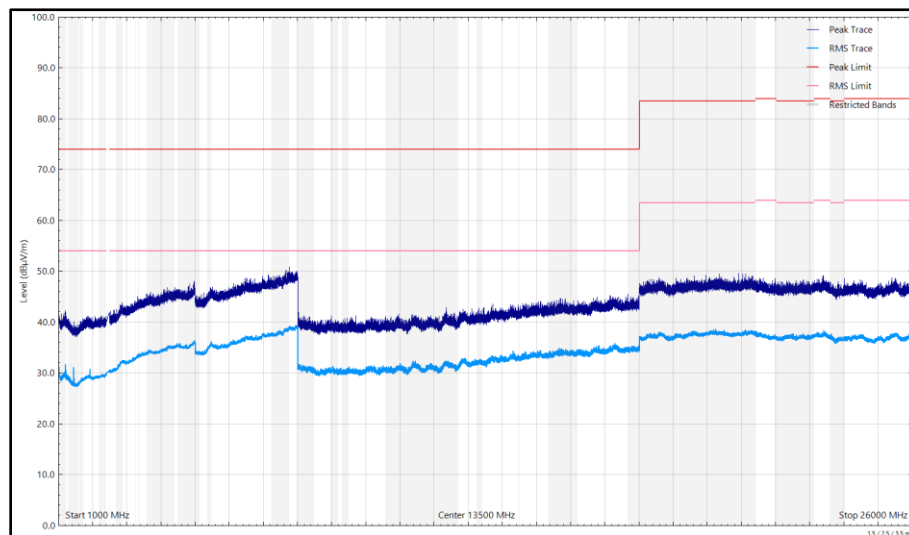


Figure 71 - 2440 MHz (CH18), Thread, iPA, Core 0, 1 GHz to 26 GHz, Horizontal

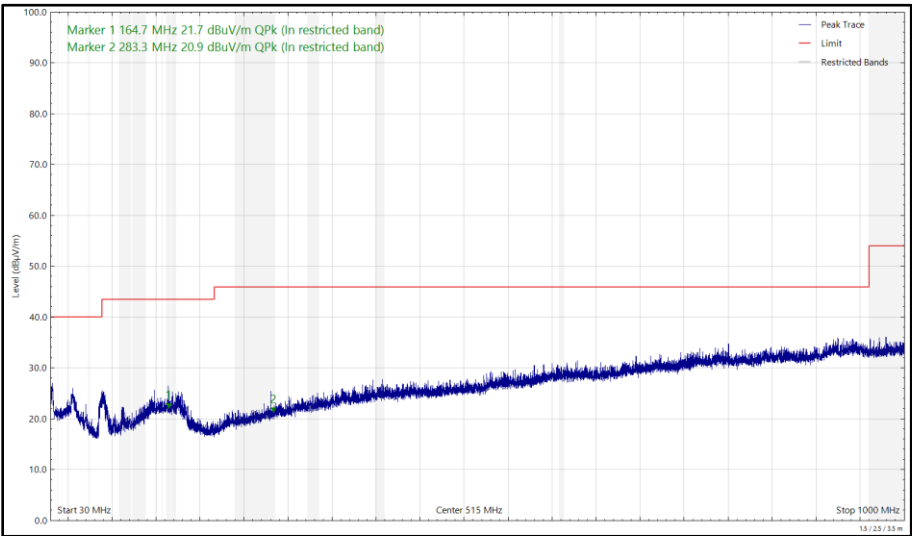


Figure 72 - 2440 MHz (CH18), Thread, iPA, Core 0, 30 MHz to 1 GHz, Vertical (Peak)

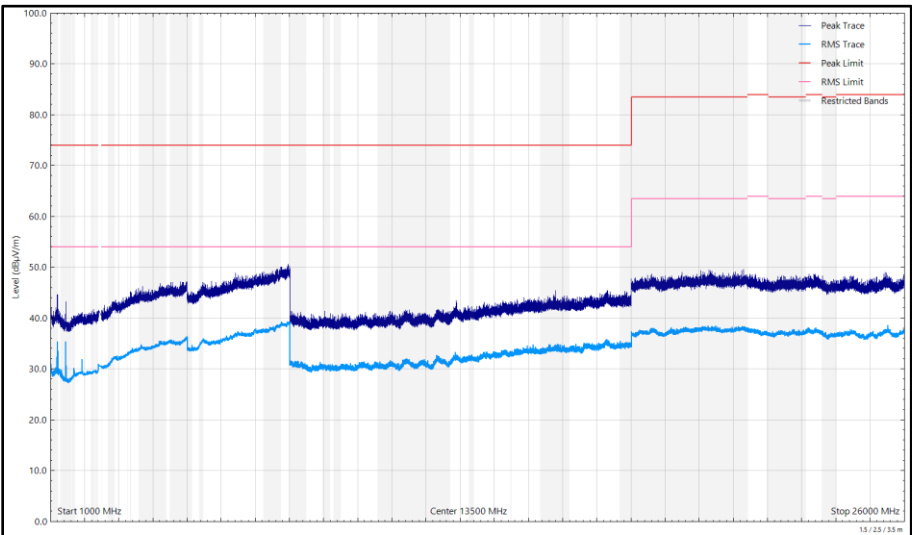


Figure 73 - 2440 MHz (CH18), Thread, iPA, Core 0, 1 GHz to 26 GHz, Vertical