

FCC and ISED Test Report

Apple Inc
Model: A3434



In accordance with FCC 47 CFR Part 15C,
ISED RSS-247 and ISED RSS-GEN
(2.4 GHz Bluetooth BDR)

TUV SUD Limited
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FCC ID: BCGA3434 IC: 579C-A3434

COMMERCIAL-IN-CONFIDENCE



Document 75963494-13 Issue 01

SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steven White	Senior Technical Specialist	Authorised Signatory	24 July 2025

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	Rachael Watkins	24 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) and ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02) for the tests detailed in section 1.3.



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1 Report Summary

1.1 Report Modification Record

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

Issue	Description of Change	Date of Issue
1	First Issue	24 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	13-February-2025
Finish of Test	08-April-2025
Name of Engineer(s)	Akhil Rajendran Bhaskaran Nair, Ioan-Alexandru Bogatu, Gridi Bilali, Tony Baby, Vineeth Nagaraj, David Hill, Colin Brain, Thomas Randall, and Ahmed Al Derdiri.
Related Document(s)	ANSI C63.4 (2014) ANSI C63.10 (2020) KDB 662911 D01 v02r01



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
	FCC Part 15C	RSS-247	RSS-GEN			
Configuration and Mode: 2.4 GHz Bluetooth BDR						
-	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)(1)	5.1	-	Frequency Hopping Systems - Average Time of Occupancy	Pass	ANSI C63.10 (2020)
2.3	15.247 (a)(1)	5.1	-	Frequency Hopping Systems - Channel Separation	Pass	ANSI C63.10 (2020)
2.4	15.247 (a)(1)	5.1	-	Frequency Hopping Systems - Number of Hopping Channels	Pass	ANSI C63.10 (2020)
2.5	15.247 (a)(1)	5.1	6.7	Frequency Hopping Systems - 99% & 20 dB Bandwidth	Pass	ANSI C63.10 (2020)
2.6	15.247 (b)	5.4	6.12	Maximum Conducted Output Power	Pass	ANSI C63.10 (2020) KDB 662911 D01 v02r01
2.7	15.247 (d)	5.5	-	Authorised Band Edges	Pass	ANSI C63.10 (2020)
2.8	15.209 and 15.247 (d)	3.3 and 5.5	6.13 and 8.9	Spurious Radiated Emissions	Pass	ANSI C63.4 (2014) 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 Bluetooth radio supports SISO (Single Input/Single Output) operation on three different cores (Core 0, Core 1 & Core 2).

It also supports MIMO (Multiple Input/Multiple Output) beamforming operation on Core 0 + Core 1.

The EUT supports Basic Rate modes for FHSS operation.

Core 0, Core 1 and Core 2 operate on one power setting: low power "iPA" for Basic Rate

The EUT uses different output powers per core dependent on how many cores are used.

After preliminary investigations, conducted tests on the EUT were performed in the following modes:

SISO modes:

- DH5 - iPA - Core 0
- DH5 - iPA - Core 2

MIMO modes:

- DH5 - iPA - Core 0 + Core 1

Spurious Radiated Emissions tests were limited to the modes shown below, with the device configured to operate at maximum output power. As this was deemed to be worst case.

MIMO modes:

- DH5 - iPA - Core 0 + Core 1
- DH5 - 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/receive test mode with the chipset manufacturer's test commands. These ran the specified modulation types on either a fixed single channel or in Hopping mode, 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 to 2480	5.25	0.71
Core 1	2400 to 2480	4.30	0.71
Core 2	2400 to 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
F4XG93M94R	REV1.0	24E21570q
KW6HY7JMQQ	REV1.0	24E21570q
FM02PF6GWR	REV1.0	24E21570q
HWGYHKJJKM	REV1.0	24E21570q
J6MG2JN301	REV1.0	24E21570q
F5P6RDXMN4	REV1.0	24E21570q
C9T757F3CV	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: 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: J6MG2JN301			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3434, Serial Number: HWGYHKJJKM			
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
Model: A3434, Serial Number: C9T757F3CV			
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: 2.4 GHz Bluetooth BDR		
Restricted Band Edges	Akhil Rajendran Bhaskaran Nair, Ioan-Alexandru Bogatu, Gridi Bilali, Tony Baby, Vineeth Nagaraj	UKAS
Frequency Hopping Systems - Average Time of Occupancy	David Hill	UKAS
Frequency Hopping Systems - Channel Separation	David Hill	UKAS
Frequency Hopping Systems - Number of Hopping Channels	David Hill	UKAS
Frequency Hopping Systems - 99% & 20 dB Bandwidth	David Hill	UKAS
Maximum Conducted Output Power	David Hill	UKAS
Authorised Band Edges	Akhil Rajendran Bhaskaran Nair, Ioan-Alexandru Bogatu, Gridi Bilali, Tony Baby, Vineeth Nagaraj	UKAS
Spurious Radiated Emissions	Colin Brain, Ioan-Alexandru Bogatu, Thomas Randall, Gridi Bilali and Ahmed Al Derdiri.	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: F4XG93M94R - Modification State 0
A3434, S/N: HWGYHKJJKM - Modification State 0
A3434, S/N: J6MG2JN301 - Modification State 0

2.1.3 Date of Test

13-February-2025 to 22-March-2025

2.1.4 Test Method

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

Plots for average measurements were taken in accordance with ANSI C63.10, clause 4.1.5.2.6.

These are shown for information purposes and were used to determine the worst-case measurement point. Final average measurements were then taken in accordance with ANSI C63.10, clause 4.1.4.2.2 to obtain the measurement result recorded in the test results tables.

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

2.1.5 Environmental Conditions

Ambient Temperature	21.8 - 23.5 °C
Relative Humidity	26.7 - 49.9 %

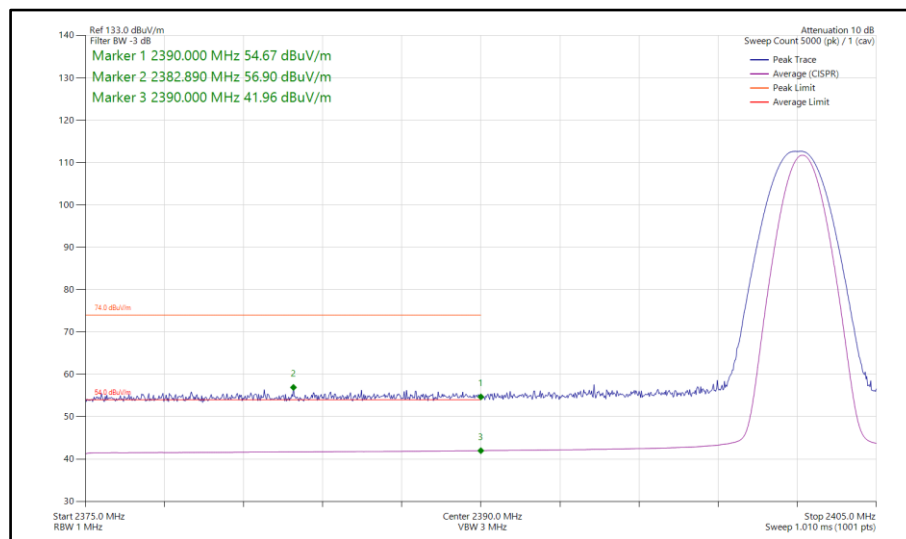
2.1.6 Test Results

2.4 GHz Bluetooth BDR

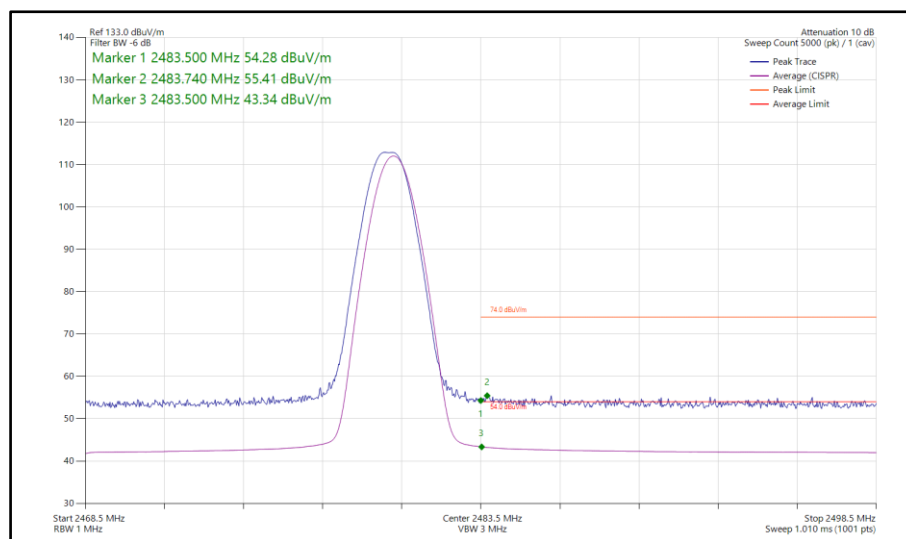
iPA - Core 0 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dB μ V/m)	Average Level (dB μ V/m)
Static	DH5	2402	2390	56.90	41.96
Static	DH5	2480	2483.5	55.41	43.34

Table 7 - SISO Restricted Band Edge Results



**Figure 1 - Bluetooth DH5, SISO, Core 0 - 2402 MHz
Band Edge Frequency 2390 MHz**

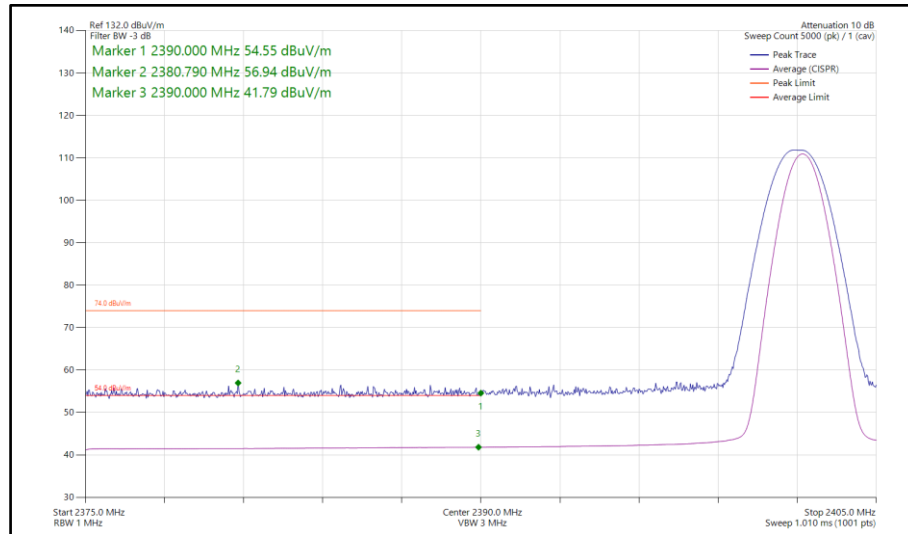


**Figure 2 - Bluetooth DH5, SISO, Core 0 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

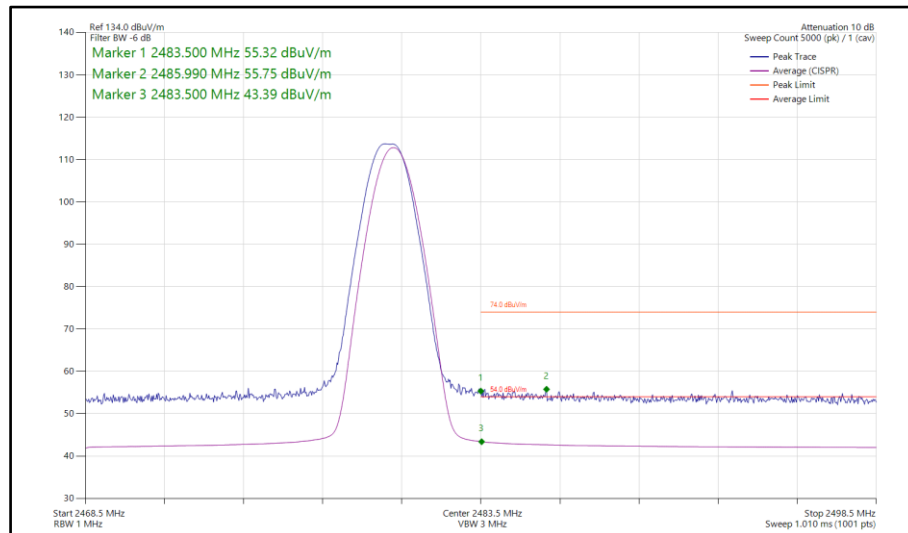
iPA - Core 1 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Static	DH5	2402	2390	56.94	41.79
Static	DH5	2480	2483.5	55.75	43.39

Table 8 - SISO Restricted Band Edge Results



**Figure 3 - Bluetooth DH5, SISO, Core 1 - 2402 MHz
Band Edge Frequency 2390 MHz**

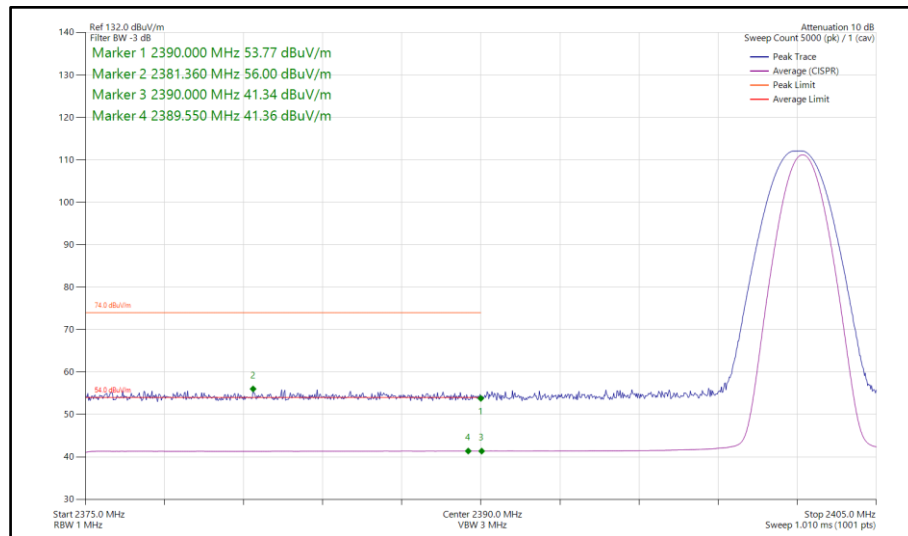


**Figure 4 - Bluetooth DH5, SISO, Core 1 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

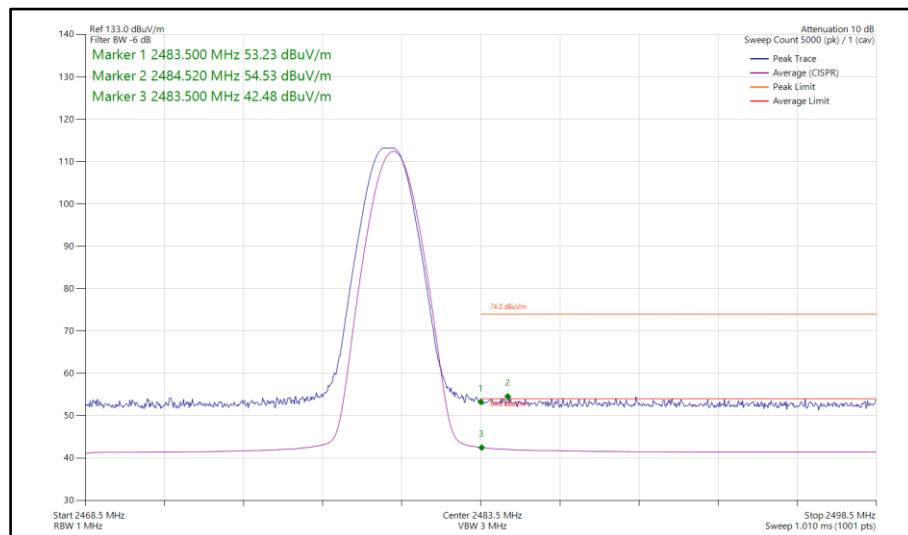
iPA - Core 2 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Static	DH5	2402	2390	56.00	41.36
Static	DH5	2480	2483.5	54.53	42.48

Table 9 - SISO Restricted Band Edge Results



**Figure 5 - Bluetooth DH5, SISO, Core 2 - 2402 MHz
Band Edge Frequency 2390 MHz**

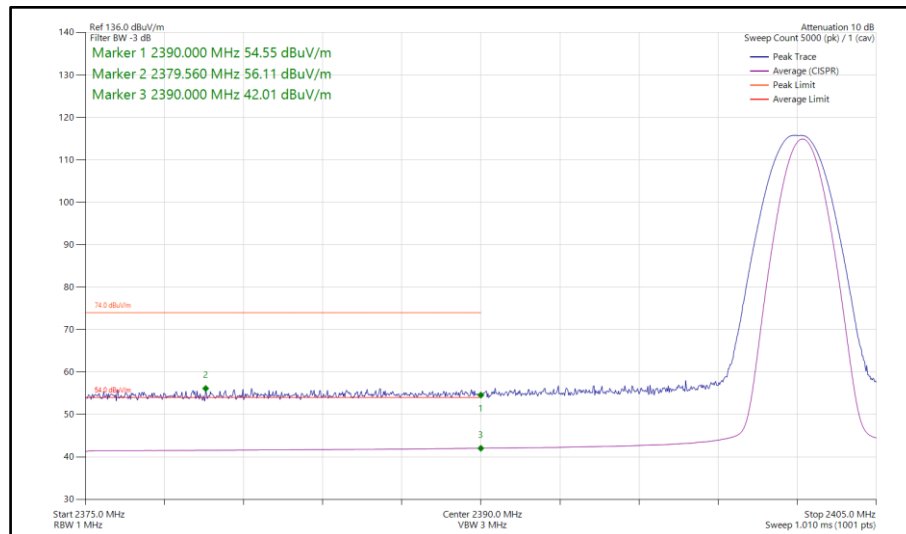


**Figure 6 - Bluetooth DH5, SISO, Core 2 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

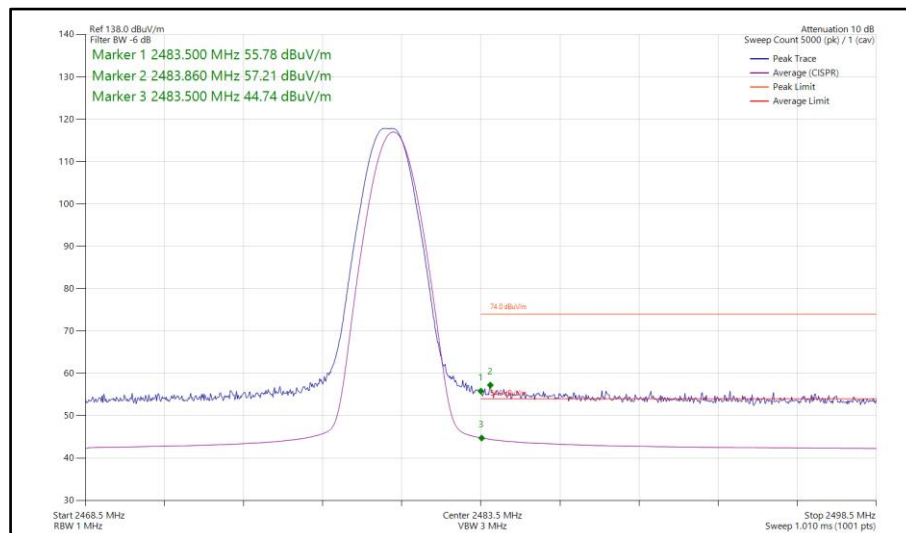
iPA - Core 0-1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Static	DH5	2402	2390	56.11	42.01
Static	DH5	2480	2483.5	57.21	44.74

Table 10 - MIMO Restricted Band Edge Results



**Figure 7 - Bluetooth DH5, MIMO, Core 0-1 - 2402 MHz
Band Edge Frequency 2390 MHz**



**Figure 8 - Bluetooth DH5, MIMO, Core 0-1 - 2480 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 11

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 12

*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 13

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



2.2 Frequency Hopping Systems - Average Time of Occupancy

2.2.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (a)(1)
ISED RSS-247, Clause 5.1

2.2.2 Equipment Under Test and Modification State

A3434, S/N: F5P6RDXMN4 - Modification State 0
A3434, S/N: C9T757F3CV - Modification State 0

2.2.3 Date of Test

25-March-2025 to 03-April-2025

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 7.8.4.

2.2.5 Environmental Conditions

Ambient Temperature	21.5 - 23.5 °C
Relative Humidity	32.4 - 40.5 %



2.2.6 Test Results

2.4 GHz Bluetooth BDR

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247 (a)(1)(iii) RSS-247 5.1 d)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	Time of Occupancy			Limit (ms)
	Dwell Time (ms)	Number of Transmissions	Time of Occupancy (ms)	
2402	2.896	109	315.7	400.0

Table 14 - Time of Occupancy Results



Figure 9 - GFSK - 2402 MHz Accumulated Transmit Time



Test Configuration				
Frequency Range:		2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):		FCC 15.247 (a)(1)(iii) RSS-247 5.1 d)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):		-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	C (Core 2)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	Time of Occupancy			Limit (ms)
	Dwell Time (ms)	Number of Transmissions	Time of Occupancy (ms)	
2402	2.893	82	237.2	400.0

Table 15 - Time of Occupancy Results

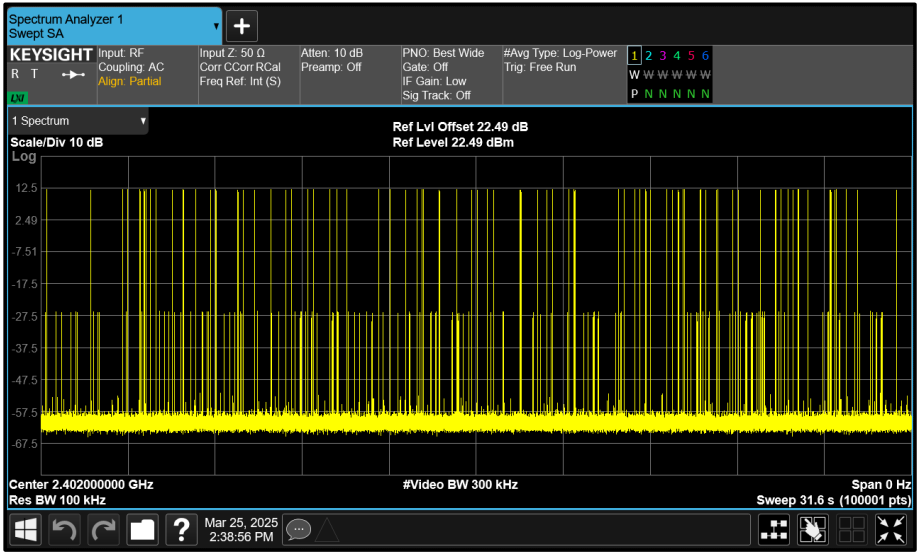


Figure 10 - GFSK - 2402 MHz Accumulated Transmit Time



Test Configuration				
Frequency Range:		2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):		FCC 15.247 (a)(1)(iii) RSS-247 5.1 d)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):		-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0+Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	Time of Occupancy			Limit (ms)
	Dwell Time (ms)	Number of Transmissions	Time of Occupancy (ms)	
2402	2.895	108	312.7	400.0

Table 16 - Time of Occupancy Results

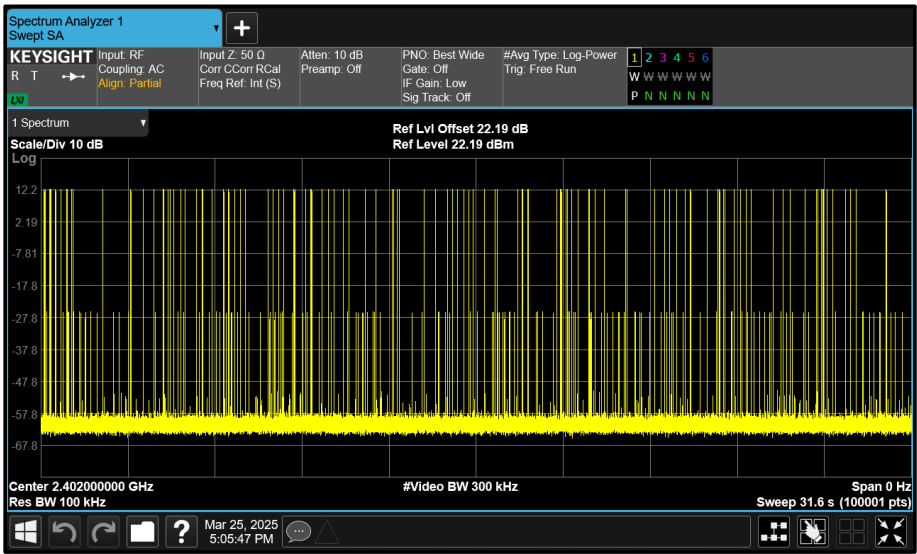


Figure 11 - GFSK - 2402 MHz Accumulated Transmit Time



FCC 47 CFR Part 15, Limit Clause 15.247 (a)(1)(iii)

Frequency hopping systems operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Transmissions on particular hopping frequencies may be avoided or suppressed provided that a minimum of 15 hopping channels are used.

Industry Canada RSS-247, Limit Clause 5.1 (d)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds, multiplied by the number of hopping channels employed.

2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	02-Jan-2027
1500VA AC Power Supply	iTech	IT7324	5907	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5919	36	31-Mar-2028*
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	17-Mar-2027
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	12-Feb-2026
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	23-Feb-2026
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6519	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6520	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6521	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6522	12	18-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
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	12-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	12-Feb-2026
SCU Cable Assembly SCU	TUV SUD	SPECTRUM_SCU_CA	6754	0	12-Feb-2026
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025

Table 17

O/P Mon - Output Monitored using calibrated equipment

*Equipment was only employed during its calibration period.



2.3 Frequency Hopping Systems - Channel Separation

2.3.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (a)(1)
ISED RSS-247, Clause 5.1

2.3.2 Equipment Under Test and Modification State

A3434, S/N: F5P6RDXMN4 - Modification State 0
A3434, S/N: C9T757F3CV - Modification State 0

2.3.3 Date of Test

25-March-2025 to 03-April-2025

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 7.8.2.

2.3.5 Environmental Conditions

Ambient Temperature	21.5 - 23.5 °C
Relative Humidity	32.4 - 40.5 %



2.3.6 Test Results

2.4 GHz Bluetooth BDR

Test Configuration				
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz	
Limit Clause(s):	FCC 15.247(a)(1) RSS-247 5.1 b)	Test Method(s):	C63.10 7.8.2	
Additional Reference(s):	-			

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)	Carrier Frequency Separation (MHz)			Limit (kHz)
		F1C	F2C	FHS	
2441	0.927	2441.023	2442.023	0.99975	≥618.0

Table 18 - Carrier Frequency Separation Results

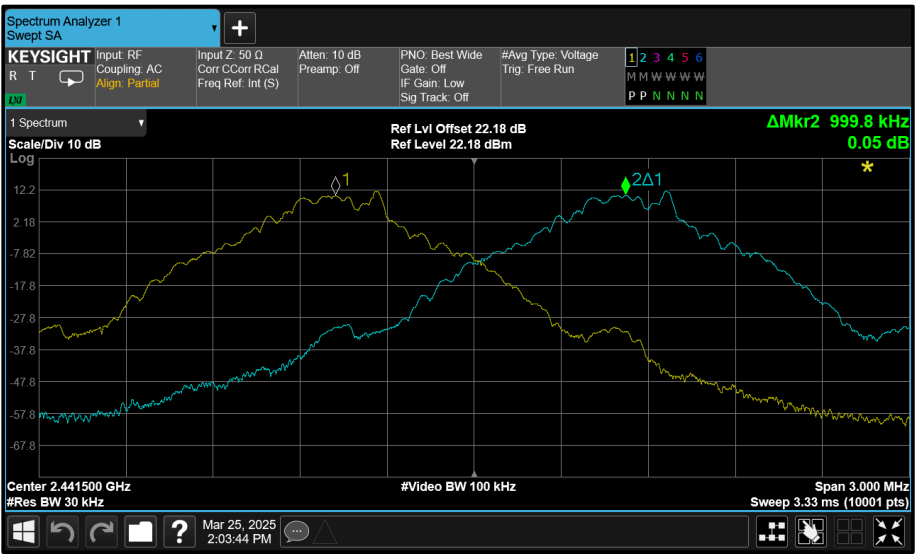


Figure 12 - GFSK - 2441 MHz (CH39)



Test Configuration				
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz	
Limit Clause(s):	FCC 15.247(a)(1) RSS-247 5.1 b)	Test Method(s):	C63.10 7.8.2	
Additional Reference(s):	-			

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	C (Core 2)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)	Carrier Frequency Separation (MHz)			Limit (kHz)
		F1C	F2C	FHS	
2441	0.927	2441.022	2442.023	1.0005	≥618.0

Table 19 - Carrier Frequency Separation Results

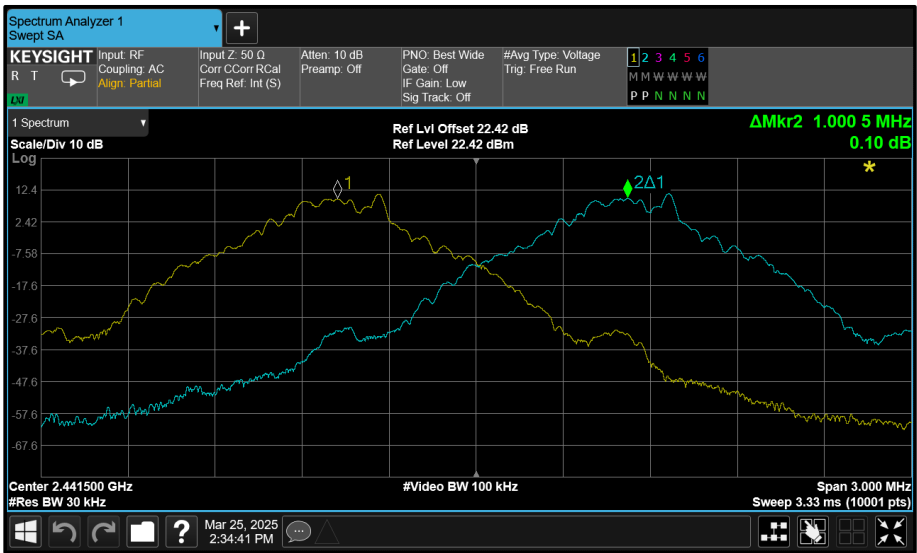


Figure 13 - GFSK - 2441 MHz (CH39)



Test Configuration				
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz	
Limit Clause(s):	FCC 15.247(a)(1) RSS-247 5.1 b)	Test Method(s):	C63.10 7.8.2	
Additional Reference(s):	-			

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0+Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)	Carrier Frequency Separation (MHz)			Limit (kHz)
		F1C	F2C	FHS	
2441	0.926	2441.020	2442.021	1.0014	≥617.0

Table 20 - Carrier Frequency Separation Results

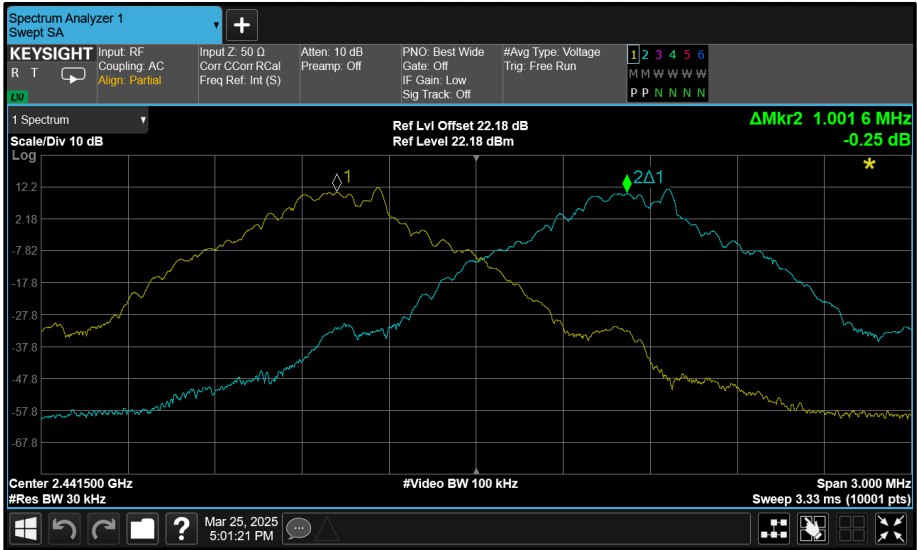


Figure 14 - GFSK - 2441 MHz (CH39)



FCC 47 CFR Part 15, Limit Clause 15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125 W.

ISED RSS-247, Limit Clause 5.1 (b)

FHSs shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the -20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, FHSs operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W.



2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	02-Jan-2027
1500VA AC Power Supply	iTech	IT7324	5907	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5919	36	31-Mar-2028*
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	17-Mar-2027
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	12-Feb-2026
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	23-Feb-2026
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6519	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6520	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6521	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6522	12	18-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
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	12-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	12-Feb-2026
SCU Cable Assembly SCU	TUV SUD	SPECTRUM_SCU_CA	6754	0	12-Feb-2026
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025

Table 21

O/P Mon - Output Monitored using calibrated equipment

*Equipment was only employed during its calibration period.



2.4 Frequency Hopping Systems - Number of Hopping Channels

2.4.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (a)(1)
ISED RSS-247, Clause 5.1

2.4.2 Equipment Under Test and Modification State

A3434, S/N: F5P6RDXMN4 - Modification State 0
A3434, S/N: C9T757F3CV - Modification State 0

2.4.3 Date of Test

25-March-2025 to 03-April-2025

2.4.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 7.8.3.

2.4.5 Environmental Conditions

Ambient Temperature	21.5 - 23.5 °C
Relative Humidity	32.4 - 40.5 %



2.4.6 Test Results

2.4 GHz Bluetooth BDR

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 5.1 d)	Test Method(s):	C63.10 7.8.3
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	-

Number of Hopping Frequencies		Limit
79		≥15.0

Table 22 - Number of Hopping Frequencies Results

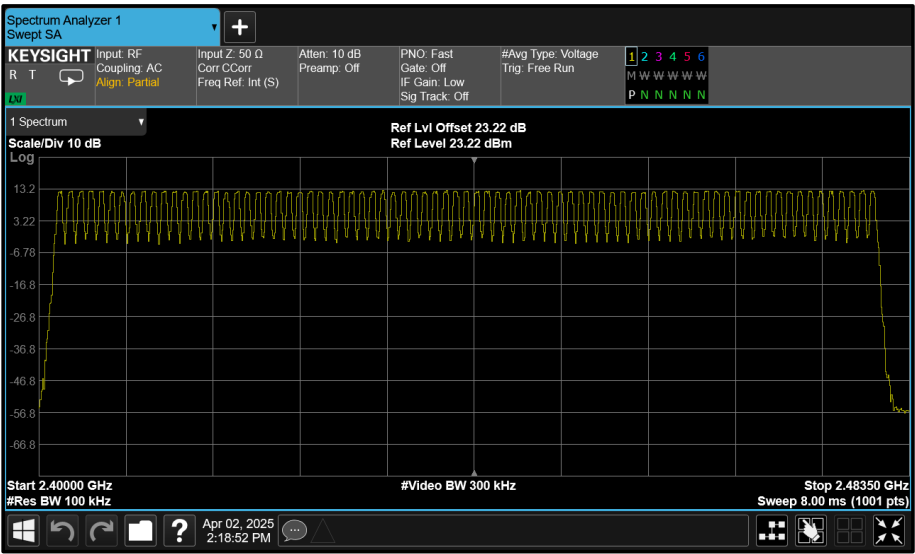


Figure 15 - GFSK (DH5) - Number of Hopping Channels



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 5.1 d)	Test Method(s):	C63.10 7.8.3
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	C (Core 2)	Peak Antenna Gain (dBi):	-

Number of Hopping Frequencies	Limit
79	≥15.0

Table 23 - Number of Hopping Frequencies Results

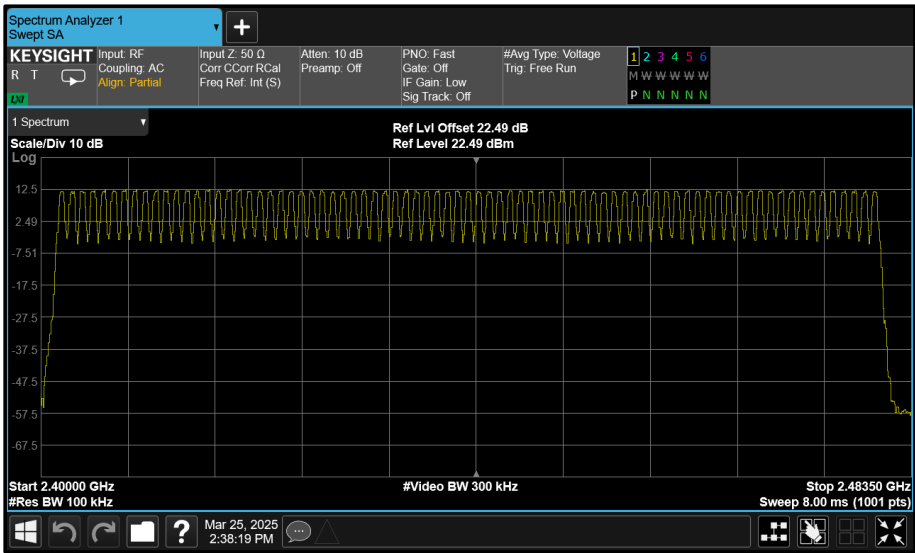


Figure 16 - GFSK (DH5) - Number of Hopping Channels



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 5.1 d)	Test Method(s):	C63.10 7.8.3
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0+Core 1)	Peak Antenna Gain (dBi):	-

Number of Hopping Frequencies	Limit
79	≥15.0

Table 24 - Number of Hopping Frequencies Results

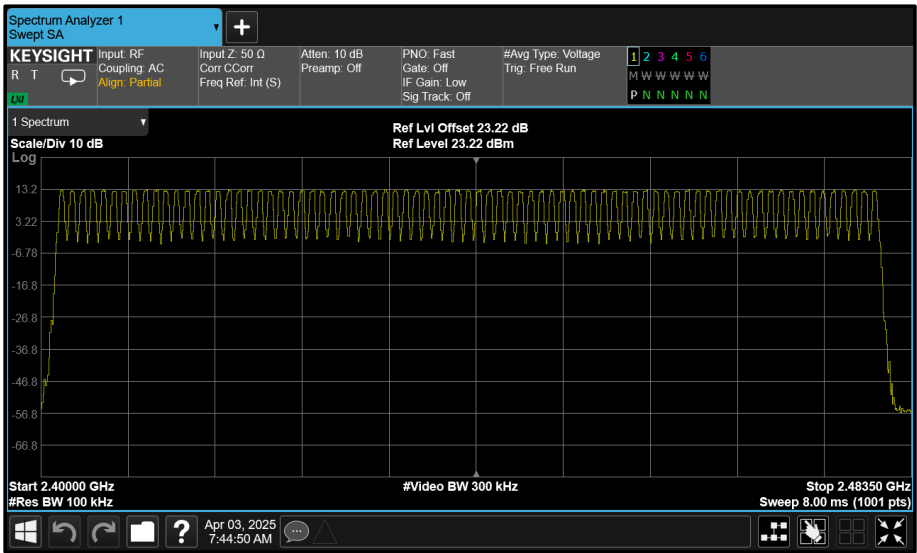


Figure 17 - GFSK (DH5) - Number of Hopping Channels

FCC 47 CFR Part 15, Limit Clause 15.247 (a)(1)(iii)

≥ 15 channels

ISED RSS-247, Limit Clause 5.1 (d)

FHSs operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.



2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	02-Jan-2027
1500VA AC Power Supply	iTech	IT7324	5907	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5919	36	31-Mar-2028*
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	36	17-Mar-2027
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	12-Feb-2026
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	23-Feb-2026
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6519	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6520	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6521	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6522	12	18-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
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	12-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	12-Feb-2026
SCU Cable Assembly SCU	TUV SUD	SPECTRUM_SCU_CA	6754	0	12-Feb-2026
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025

Table 25

O/P Mon - Output Monitored using calibrated equipment.

*Equipment was only employed during its calibration period.



2.5 Frequency Hopping Systems - 99% & 20 dB Bandwidth

2.5.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (a)(1)
ISED RSS-247, Clause 5.1
ISED RSS-GEN, Clause 6.7

2.5.2 Equipment Under Test and Modification State

A3434, S/N: C9T757F3CV - Modification State 0
A3434, S/N: F5P6RDXMN4 - Modification State 0

2.5.3 Date of Test

25-March-2025 to 08-April-2025

2.5.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.9.2 for 20 dB Bandwidth and ANSI C63.10, clause 6.9.3 for 99% Bandwidth.

2.5.5 Environmental Conditions

Ambient Temperature	21.5 - 23.5 °C
Relative Humidity	32.4 - 40.5 %



2.5.6 Test Results

2.4 GHz Bluetooth BDR

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(1) RSS-247 5.1	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	0.855	-	-	-	-
2441	0.858	-	-	-	-
2480	0.855	-	-	-	-

Table 26 - 20 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	0.852	-	-	-	-
2441	0.855	-	-	-	-
2480	0.855	-	-	-	-

Table 27 - 99% Bandwidth Results

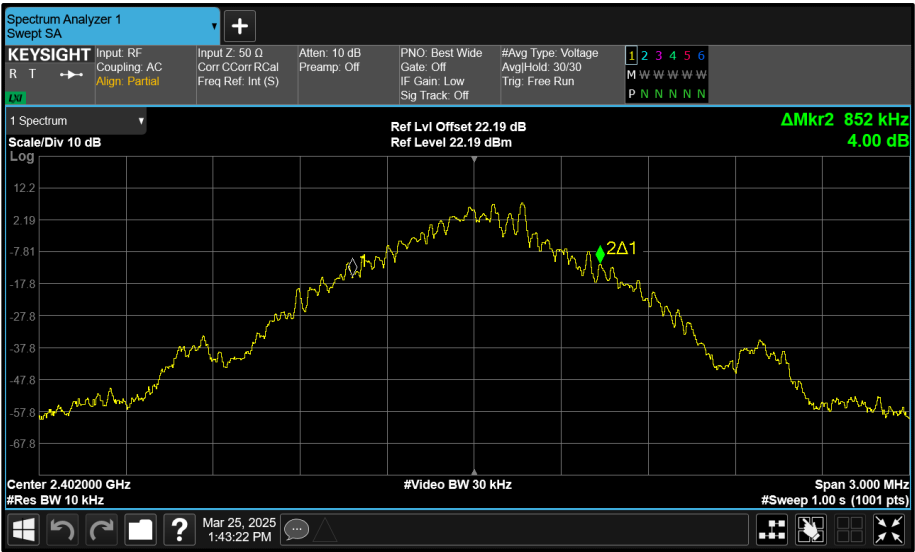


Figure 18 - Core 0 (A) 2402 MHz (CH0) 99% Bandwidth

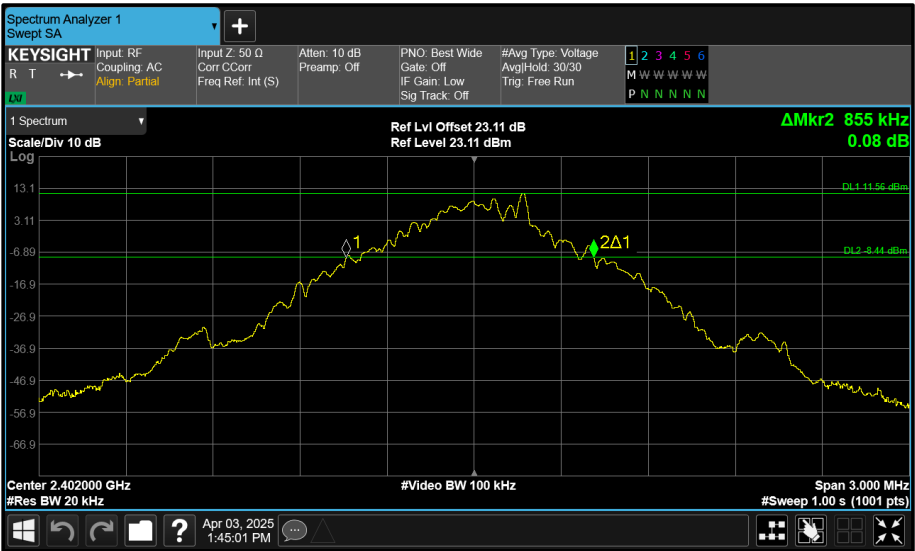


Figure 19 - Core 0 (A) 2402 MHz (CH0) 20 dB Bandwidth

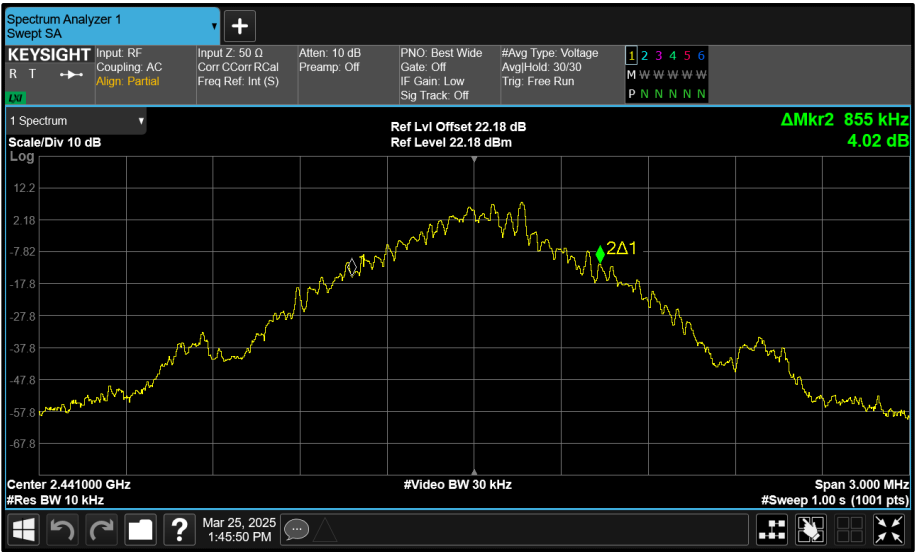


Figure 20 - Core 0 (A) 2441 MHz (CH39) 99% Bandwidth

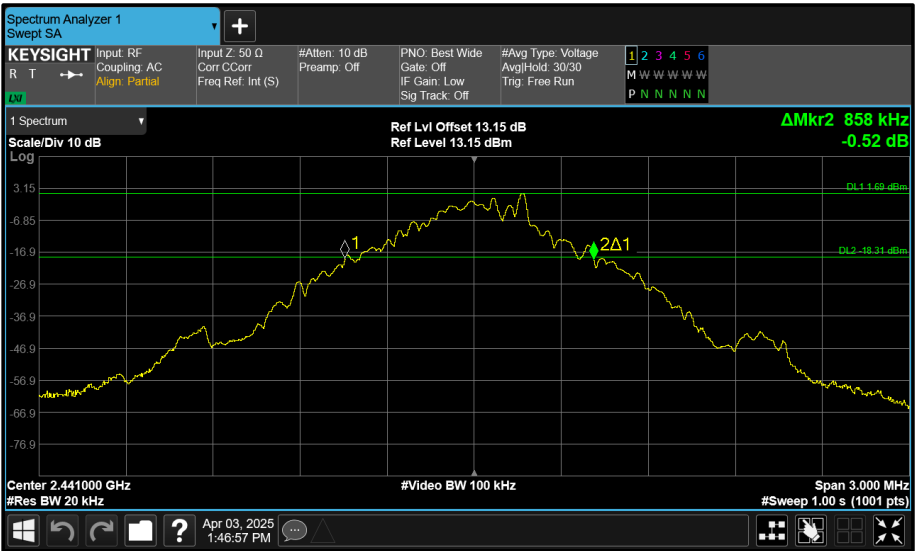


Figure 21 - Core 0 (A) 2441 MHz (CH39) 20 dB Bandwidth

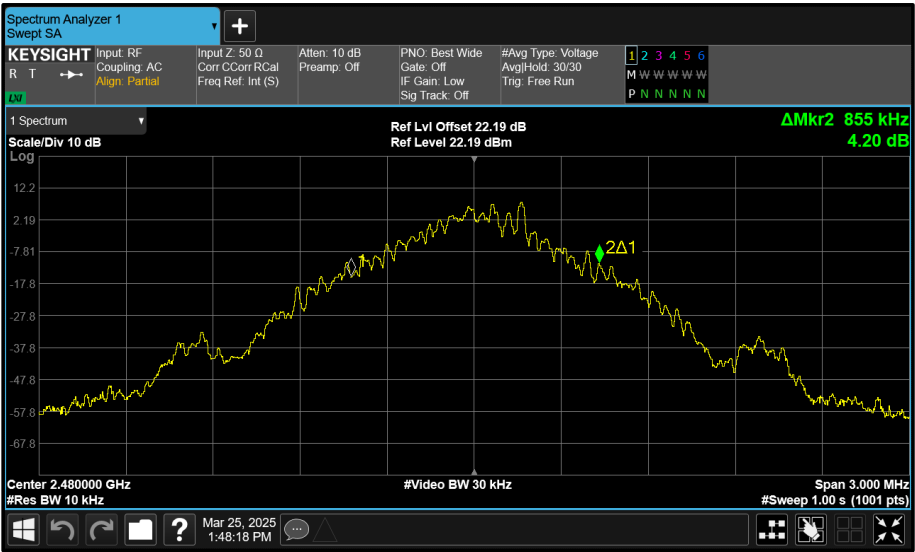


Figure 22 - Core 0 (A) 2480 MHz (CH78) 99% Bandwidth

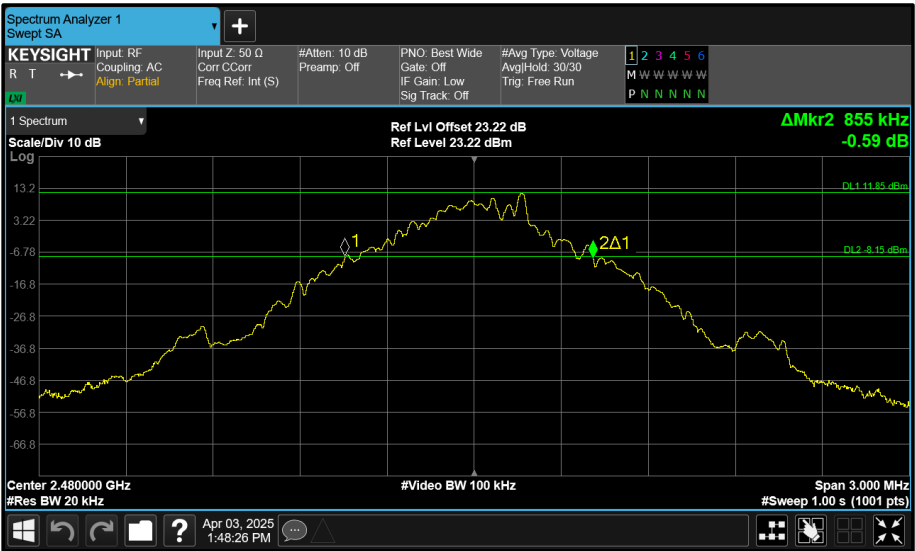


Figure 23 - Core 0 (A) 2480 MHz (CH78) 20 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(1) RSS-247 5.1	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	C (Core 2)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	-	-	0.855	-	-
2441	-	-	0.855	-	-
2480	-	-	0.858	-	-

Table 28 - 20 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	-	-	0.852	-	-
2441	-	-	0.855	-	-
2480	-	-	0.855	-	-

Table 29 - 99% Bandwidth Results

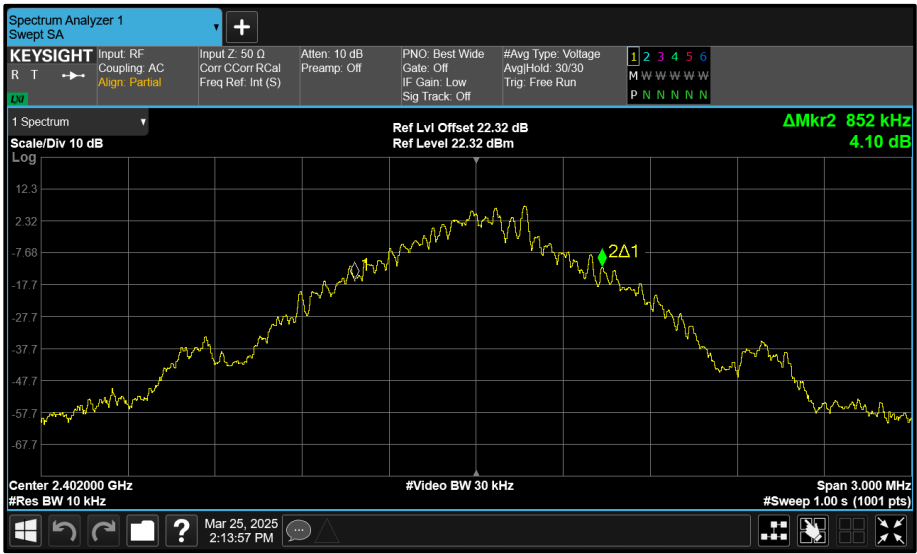


Figure 24 - Core 2 (C) 2402 MHz (CH0) 99% Bandwidth

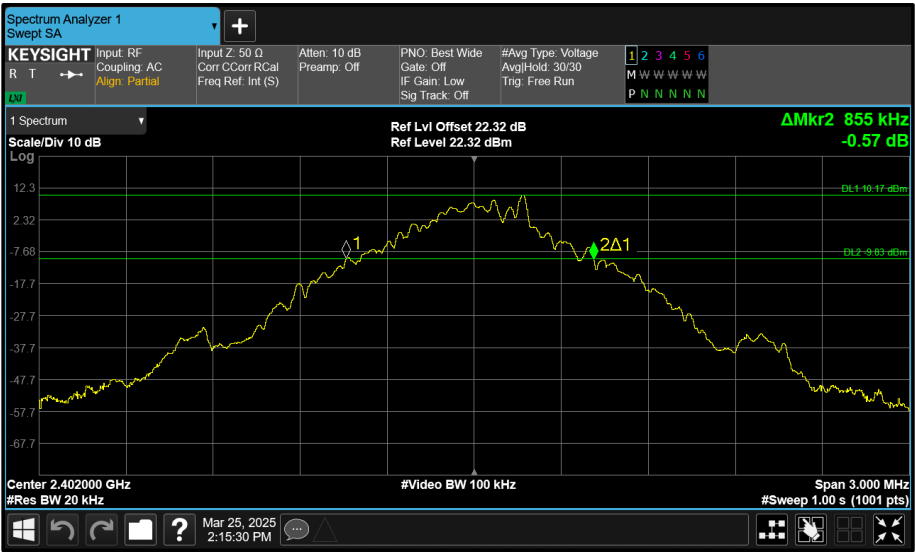


Figure 25 - Core 2 (C) 2402 MHz (CH0) 20 dB Bandwidth

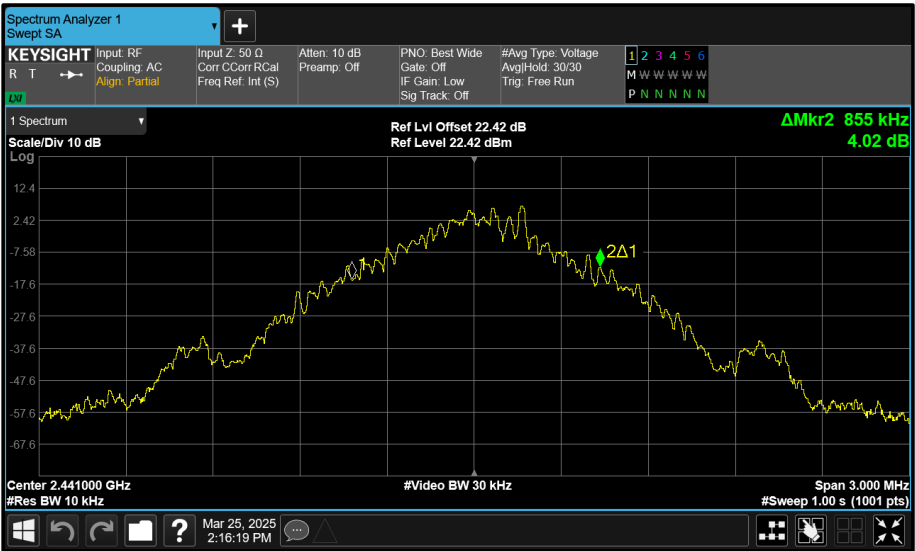


Figure 26 - Core 2 (C) 2441 MHz (CH39) 99% Bandwidth

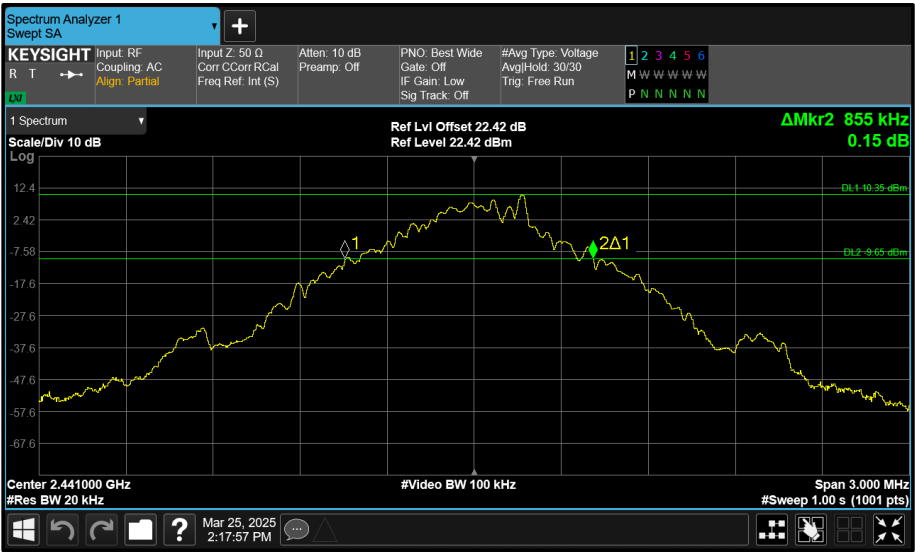


Figure 27 - Core 2 (C) 2441 MHz (CH39) 20 dB Bandwidth

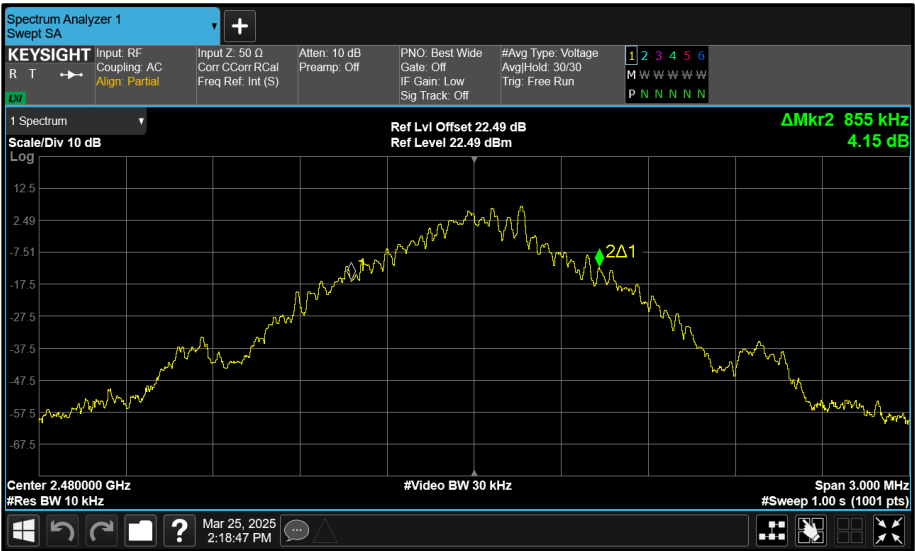


Figure 28 - Core 2 (C) 2480 MHz (CH78) 99% Bandwidth

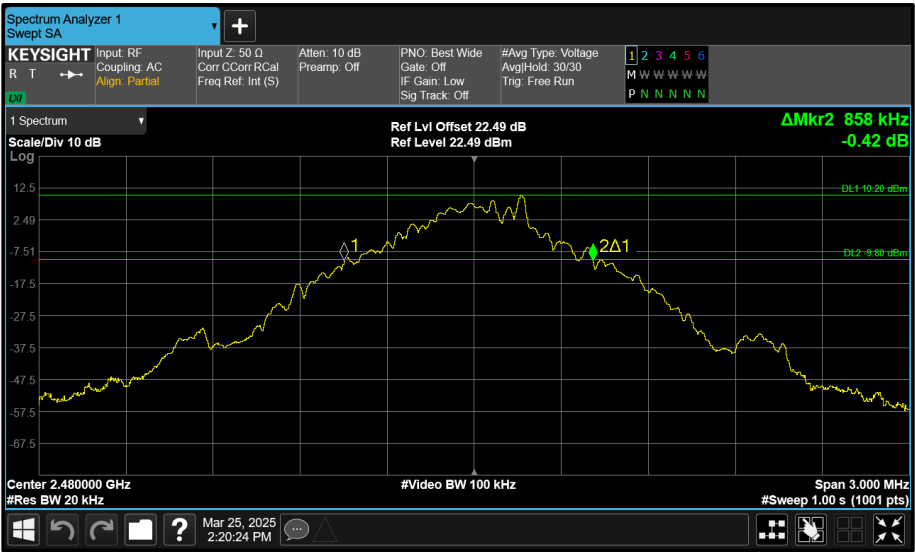


Figure 29 - Core 2 (C) 2480 MHz (CH78) 20 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(1) RSS-247 5.1	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0+Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	0.855	0.855	-	-	-
2441	0.855	0.855	-	-	-
2480	0.855	0.855	-	-	-

Table 30 - 20 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	0.855	0.855	-	-	-
2441	0.852	0.861	-	-	-
2480	0.855	0.861	-	-	-

Table 31 - 99% Bandwidth Results

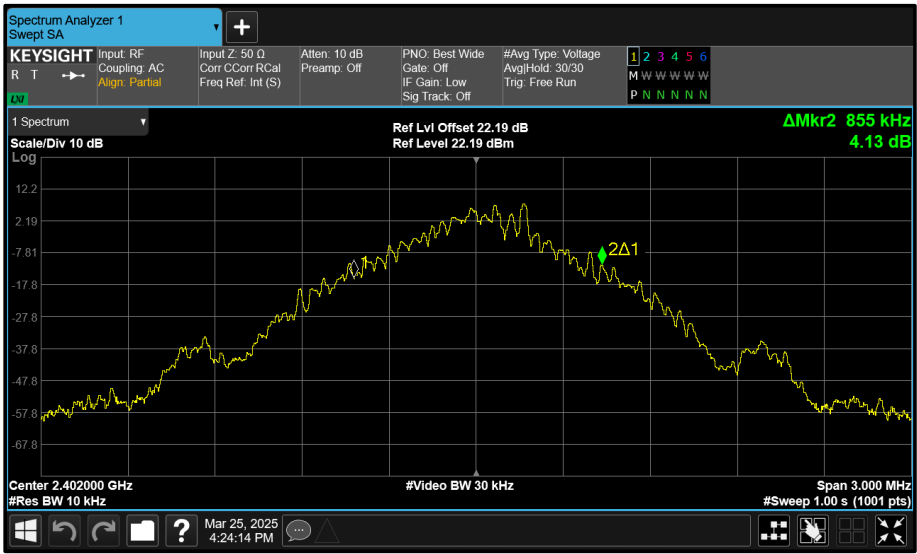


Figure 30 - Core 0 (A) 2402 MHz (CH0) 99% Bandwidth

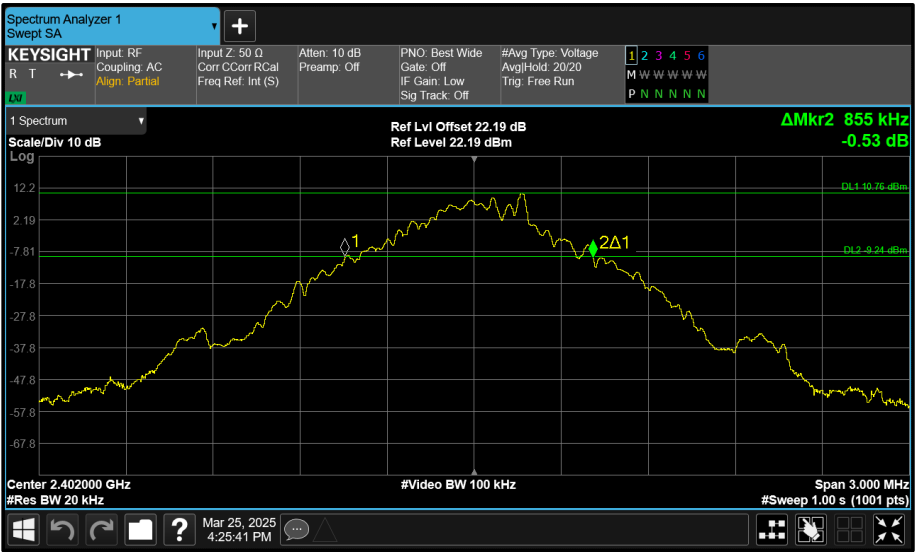


Figure 31 - Core 0 (A) 2402 MHz (CH0) 20 dB Bandwidth

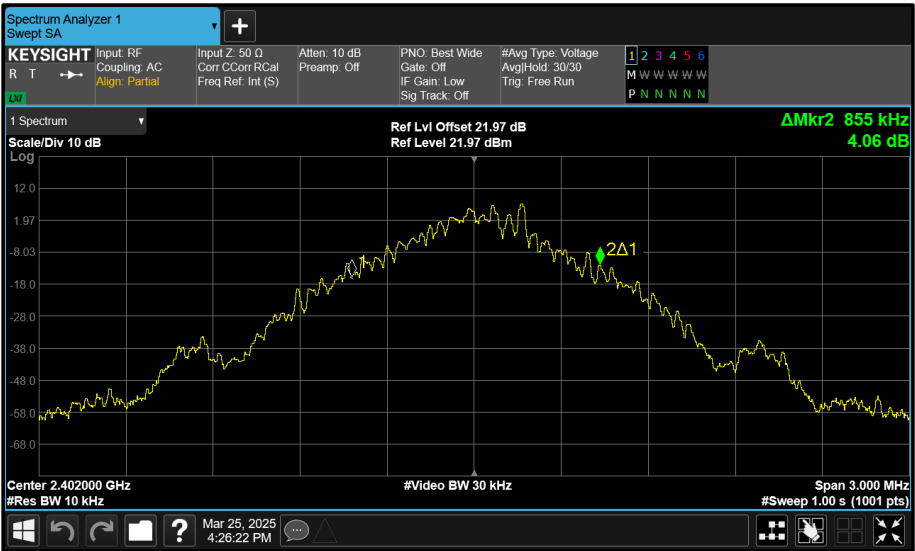


Figure 32 - Core 1 (B) 2402 MHz (CH0) 99% Bandwidth

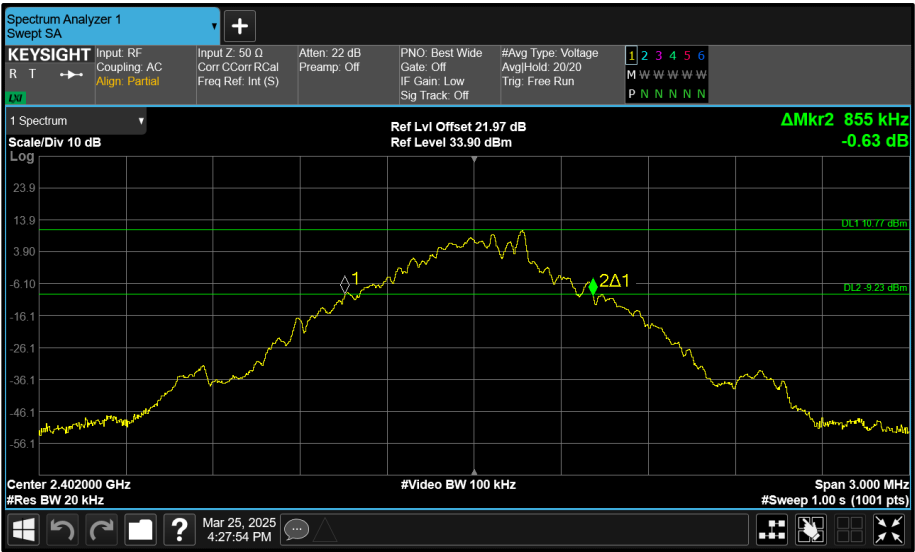


Figure 33 - Core 1 (B) 2402 MHz (CH0) 20 dB Bandwidth

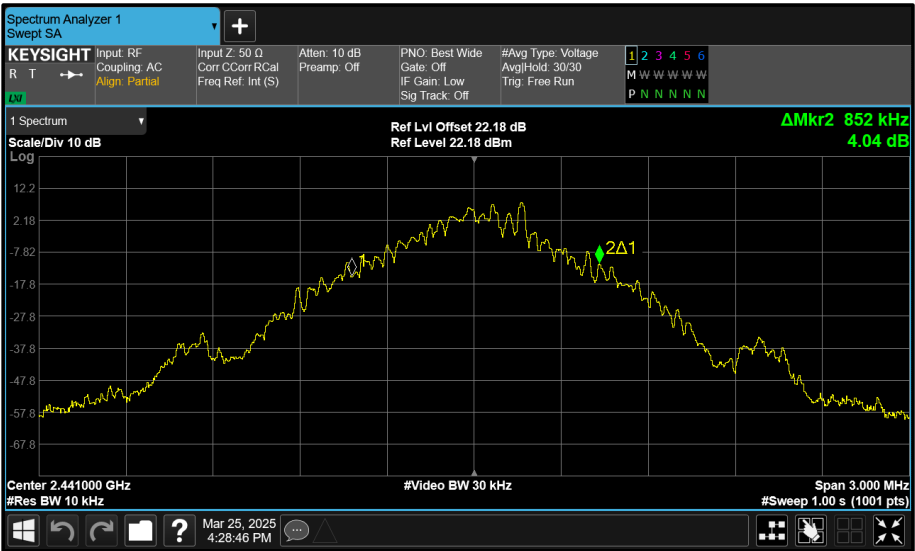


Figure 34 - Core 0 (A) 2441 MHz (CH39) 99% Bandwidth

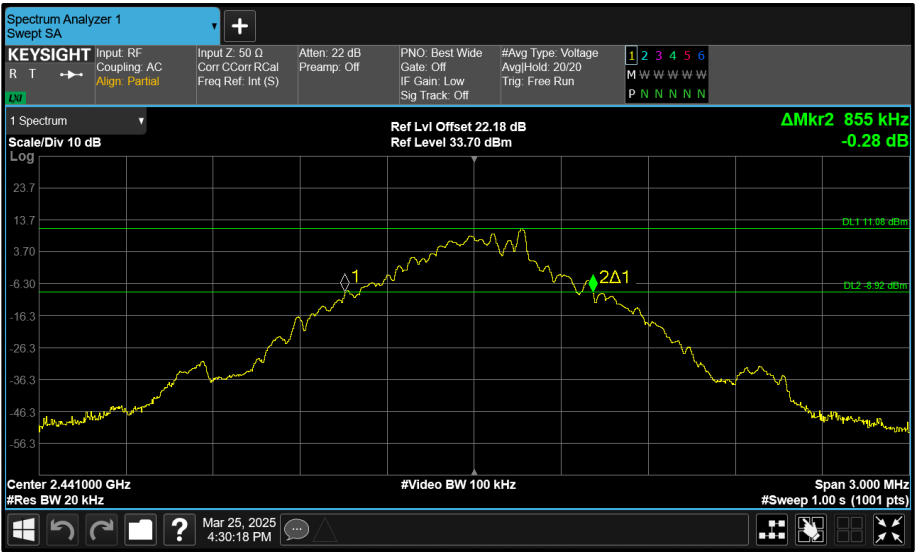


Figure 35 - Core 0 (A) 2441 MHz (CH39) 20 dB Bandwidth

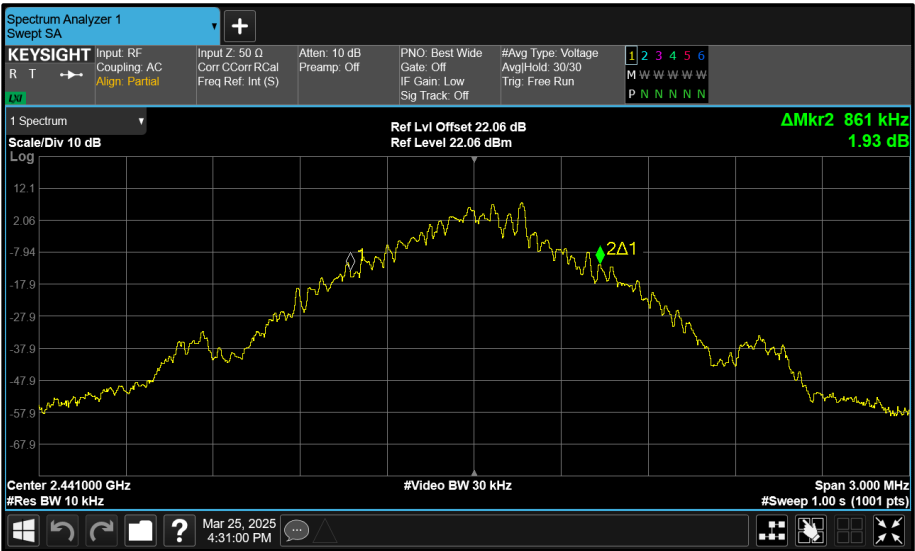


Figure 36 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

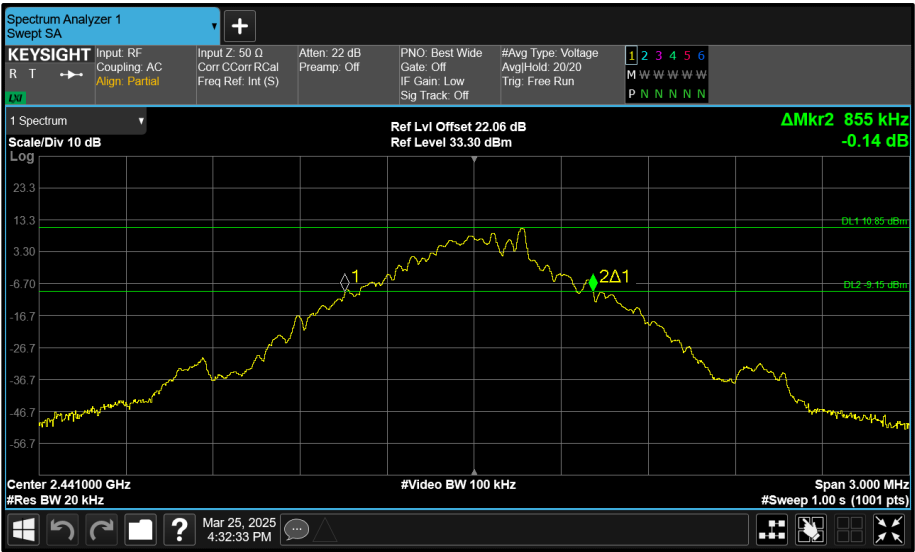


Figure 37 - Core 1 (B) 2441 MHz (CH39) 20 dB Bandwidth

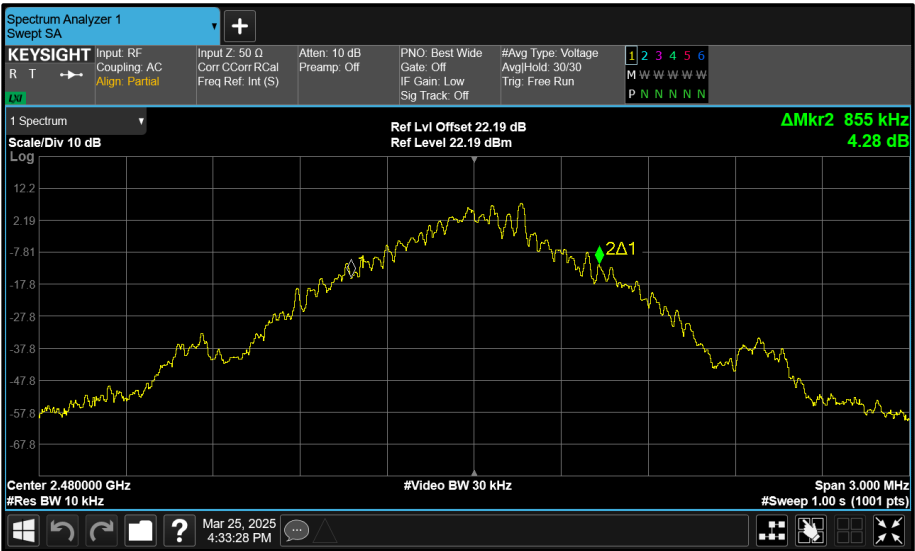


Figure 38 - Core 0 (A) 2480 MHz (CH78) 99% Bandwidth

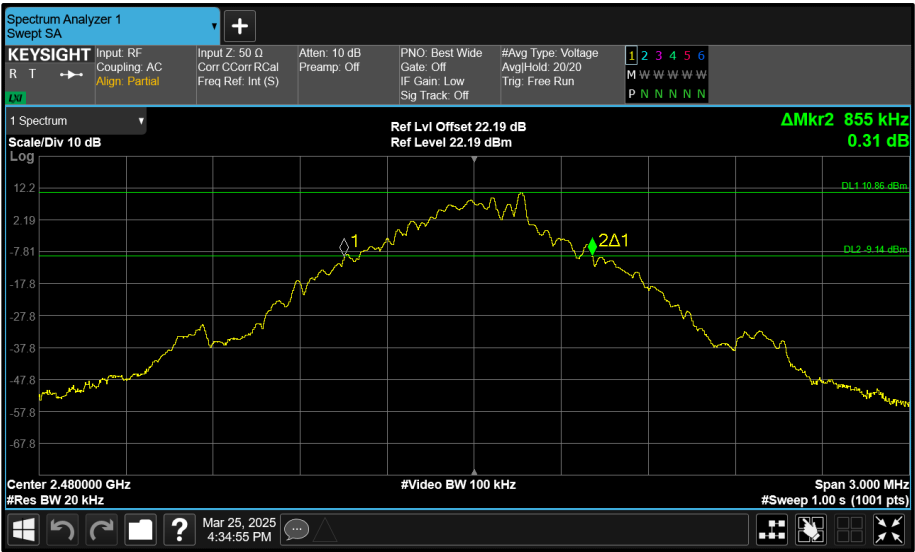


Figure 39 - Core 0 (A) 2480 MHz (CH78) 20 dB Bandwidth

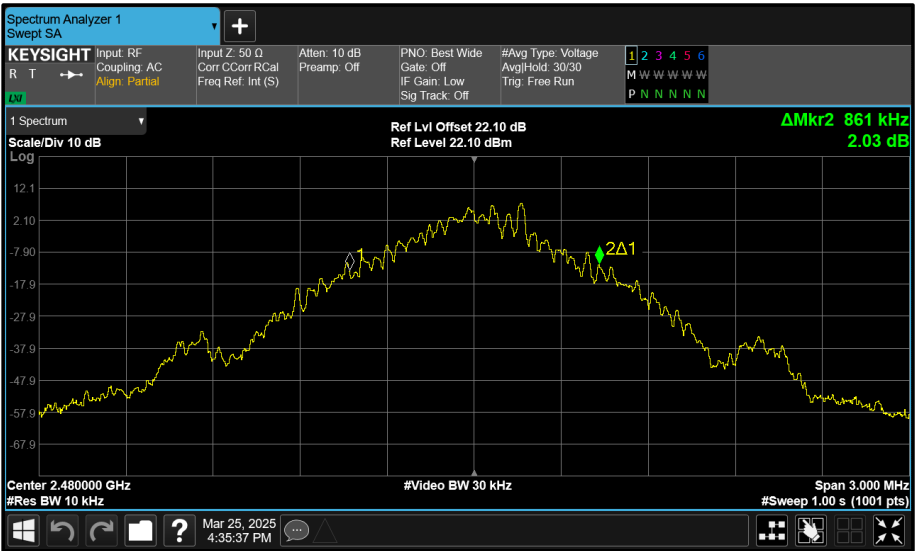


Figure 40 - Core 1 (B) 2480 MHz (CH78) 99% Bandwidth

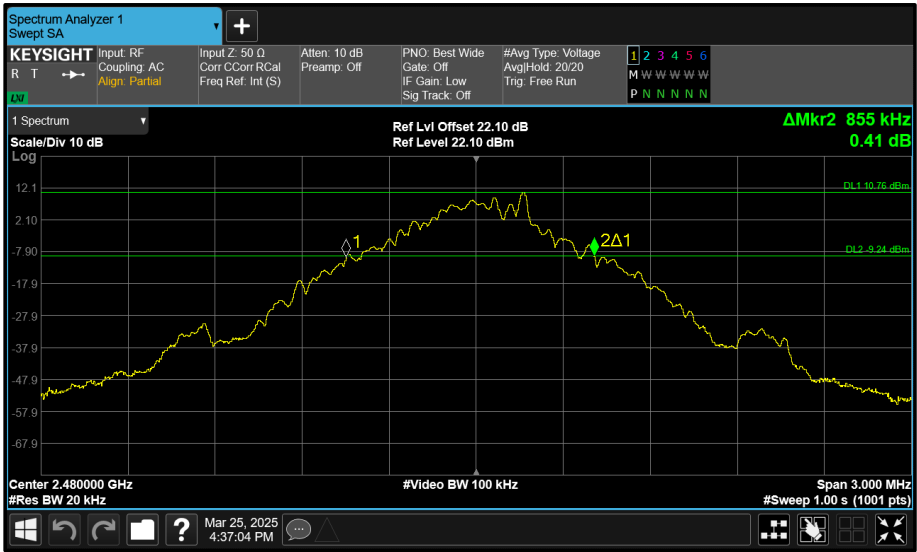


Figure 41 - Core 1 (B) 2480 MHz (CH78) 20 dB Bandwidth

FCC 47 CFR Part 15 and ISED RSS-247 Limit Clause

None specified.



2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	19-Nov-2025
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	02-Jan-2027
1500VA AC Power Supply	iTech	IT7324	5907	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5919	36	31-Mar-2028*
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	17-Mar-2027
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	12-Feb-2026
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	23-Feb-2026
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6519	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6520	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6521	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6522	12	18-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
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	12-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	12-Feb-2026
SCU Cable Assembly SCU	TUV SUD	SPECTRUM_SCU_CA	6754	0	12-Feb-2026
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025

Table 32

O/P Mon - Output Monitored using calibrated equipment.

*Equipment was only employed during its calibration period.



2.6 Maximum Conducted Output Power

2.6.1 Specification Reference

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

2.6.2 Equipment Under Test and Modification State

A3434, S/N: C9T757F3CV - Modification State 0

2.6.3 Date of Test

25-March-2025

2.6.4 Test Method

The test was performed in accordance with ANSI C63.10 clause 7.8.5 using a power meter.

MIMO output port summing was performed in accordance with KDB 662911 D01, with the Beamforming results Directional Gain being calculated in accordance with clause F)2)d)(i)

2.6.5 Environmental Conditions

Ambient Temperature	21.5 °C
Relative Humidity	40.5 %



2.6.6 Test Results

2.4 GHz Bluetooth BDR

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(1) RSS-247 5.4 b)	Test Method(s):	C63.10 7.8.5
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	5.25

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	13.10	-	-	-	-	30.00	-16.90
2441	13.70	-	-	-	-	30.00	-16.30
2480	13.57	-	-	-	-	30.00	-16.43

Table 33 - FCC Maximum Conducted (peak) 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					
2402	13.10	-	-	-	-	30.00	-16.90	18.35	36.00	-17.65
2441	13.70	-	-	-	-	30.00	-16.30	18.95	36.00	-17.05
2480	13.57	-	-	-	-	30.00	-16.43	18.82	36.00	-17.18

Table 34 - ISED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(1) RSS-247 5.4 b)	Test Method(s):	C63.10 7.8.5
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	C (Core 2)	Peak Antenna Gain (dBi):	5.41

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	-	-	12.58	-	-	30.00	-17.42
2441	-	-	12.58	-	-	30.00	-17.42
2480	-	-	12.46	-	-	30.00	-17.54

Table 35 - FCC Maximum Conducted (peak) 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					
2402	-	-	12.58	-	-	30.00	-17.42	17.99	36.00	-18.01
2441	-	-	12.58	-	-	30.00	-17.42	17.99	36.00	-18.01
2480	-	-	12.46	-	-	30.00	-17.54	17.87	36.00	-18.13

Table 36 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(1) RSS-247 5.4 b)	Test Method(s):	C63.10 7.8.5
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0+Core 1)	Peak Antenna Gain (dBi):	7.80

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	13.12	13.89	-	-	16.53	28.20	-11.67
2441	13.65	13.32	-	-	16.50	28.20	-11.70
2480	13.60	12.79	-	-	16.22	28.20	-11.98

Table 37 - FCC Maximum Conducted (peak) 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					
2402	13.12	13.89	-	-	16.53	30.00	-13.47	24.33	36.00	-11.67
2441	13.65	13.32	-	-	16.50	30.00	-13.50	24.30	36.00	-11.70
2480	13.60	12.79	-	-	16.22	30.00	-13.78	24.02	36.00	-11.98

Table 38 - ISSED Maximum Conducted (peak) Output Power Results

FCC 47 CFR Part 15, Limit Clause 15.247 (b)(1)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

ISSED RSS-247, Limit Clause 5.4 (b)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channel; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channel. The e.i.r.p. shall not exceed 4 W except as provided in section 5.4(e) of the specification.



2.6.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	19-Nov-2025
1500VA AC Power Supply	iTech	IT7324	5907	-	O/P Mon
USB Power Sensors, 50MHz to 8GHz	Boonton	RTP5008	5921	12	17-Feb-2026
USB Power Sensors, 50MHz to 8GHz	Boonton	RTP5008	5922	12	17-Feb-2026
USB Power Sensors, 50MHz to 8GHz	Boonton	RTP5008	5923	12	17-Feb-2026
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6519	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6520	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6521	12	18-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6522	12	18-Feb-2026
Digital Thermometer	R.S Components	RS 5511	6739	12	07-Feb-2026

Table 39

O/P Mon - Output Monitored using calibrated equipment



2.7 Authorised Band Edges

2.7.1 Specification Reference

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

2.7.2 Equipment Under Test and Modification State

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

2.7.3 Date of Test

13-February-2025 to 24-March-2025

2.7.4 Test Method

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

2.7.5 Environmental Conditions

Ambient Temperature	21.8 - 22.5 °C
Relative Humidity	34.9 - 39.4 %

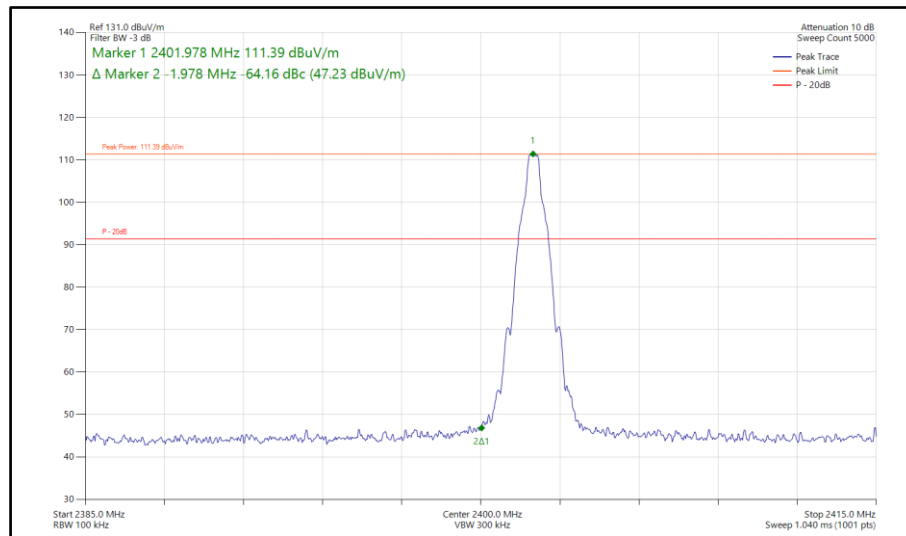
2.7.6 Test Results

2.4 GHz Bluetooth BDR

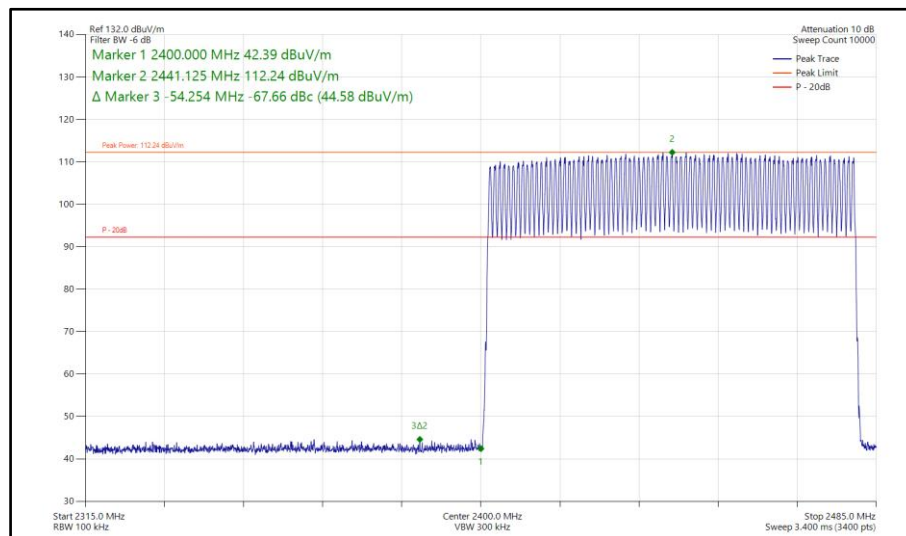
iPA - Core 0 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	DH5	2402	2400	-64.16
Hopping	DH5	Hopping	2400	-67.66

Table 40 - SISO Authorised Band Edge Results



**Figure 42 - Bluetooth DH5, SISO, Core 0 - 2402 MHz
Band Edge Frequency 2400 MHz**



**Figure 43 - Bluetooth DH5, SISO, Core 0 - Hopping MHz
Band Edge Frequency 2400 MHz**



iPA - Core 1 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	DH5	2402	2400	-61.85
Hopping	DH5	Hopping	2400	-58.46

Table 41 - SISO Authorised Band Edge Results

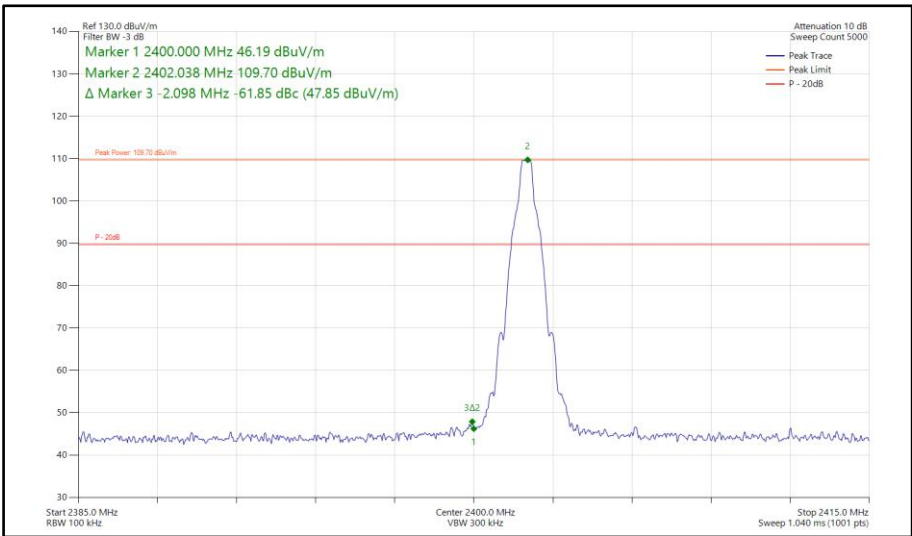


Figure 44 - Bluetooth DH5, SISO, Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz

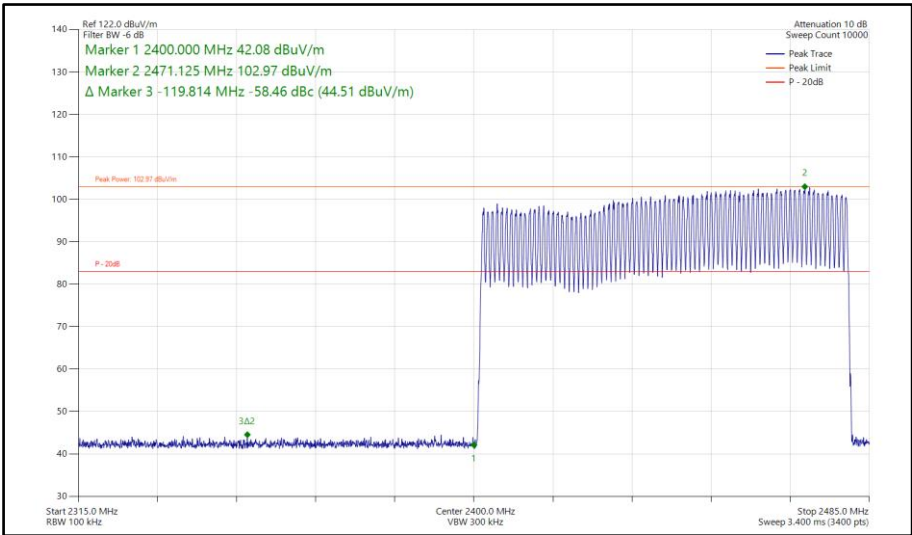


Figure 45 - Bluetooth DH5, SISO, Core 1 - Hopping MHz
Band Edge Frequency 2400 MHz

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	DH5	2402	2400	-65.19
Hopping	DH5	Hopping	2400	-67.87

Ref 131.0 dBuV/m
Filter BW -3 dB

Marker 1 2400.000 MHz 45.26 dBuV/m
Marker 2 2402.008 MHz 111.41 dBuV/m
Δ Marker 3 -5.038 MHz -65.19 dBc (46.22 dBuV/m)

Peak Power: 111.41 dBuV/m
P - 20dB

Attenuation 10 dB
Sweep Count 5000

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

Ref 133.0 dBuV/m
Filter BW -6 dB

Marker 1 2400.000 MHz 41.73 dBuV/m
Marker 2 2424.125 MHz 112.93 dBuV/m
Δ Marker 3 -43.256 MHz -67.87 dBc (45.06 dBuV/m)

Peak Power 112.93 dBuV/m
P - 20dB

3A2

Start 2315.0 MHz
Center 2400.0 MHz
RBW 100 kHz

Stop 2495.0 MHz
Sweep 3.400 ms (3400 pts)

Attenuation 10 dB
Sweep Count 10000

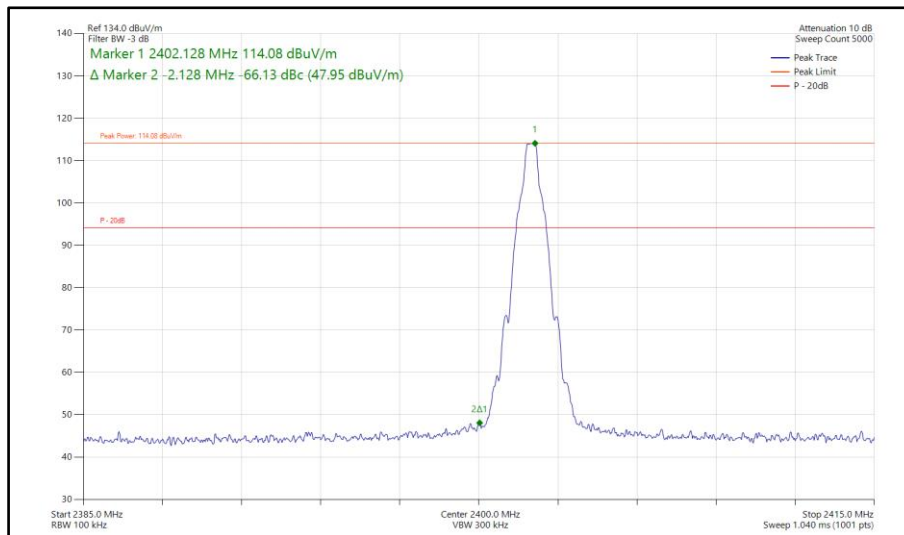
Peak Trace
Peak Limit
P - 20dB

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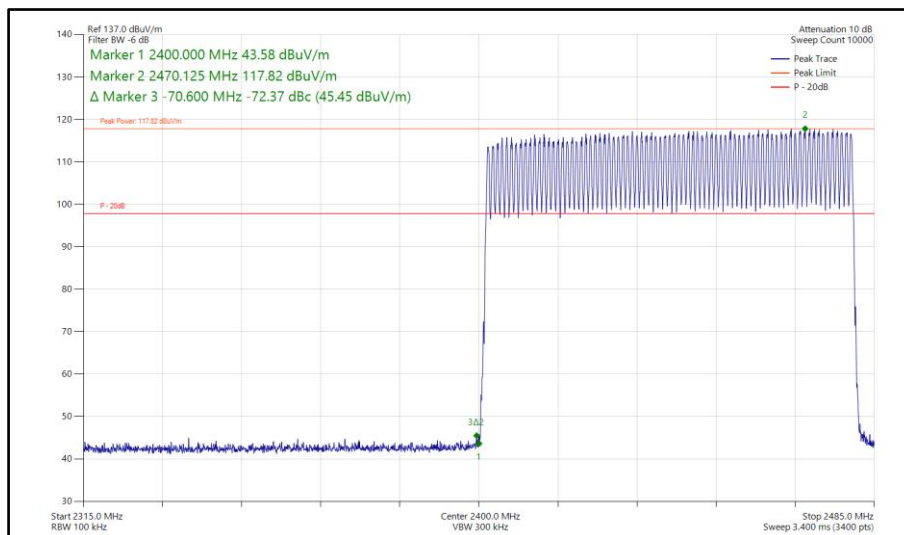
iPA - Core 0-1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	DH5	2402	2400	-66.13
Hopping	DH5	Hopping	2400	-72.37

Table 43 - MIMO Authorised Band Edge Results



**Figure 48 - Bluetooth DH5, MIMO, Core 0-1 - 2402 MHz
Band Edge Frequency 2400 MHz**



**Figure 49 - Bluetooth DH5, MIMO, Core 0-1 - Hopping 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.



2.7.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15 and RF Laboratory 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 44

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



2.8 Spurious Radiated Emissions

2.8.1 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

2.8.2 Equipment Under Test and Modification State

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

2.8.3 Date of Test

17-February-2025 to 19-February-2025

2.8.4 Test Method

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

The EUT was placed on the non-conducting platform in a manner typical of a normal installation.

In the 30 MHz to 1 GHz range pre-scans were only performed on the mid channel (2441 MHz) only.

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.

Ports on the EUT were terminated with loads as described in ANSI C63.4 clause 6.2.4. For EUT's with multiple connectors of the same type, additional interconnecting cables were connected, and pre-scans performed to determine whether the level of the emissions were increased by >2 dB. The following conversion can be applied to convert from dBµV/m to µV/m:
 $10^{(Field\ Strength\ in\ dB\mu V/m/20)}$.

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.

2.8.5 Example Test Setup Diagram

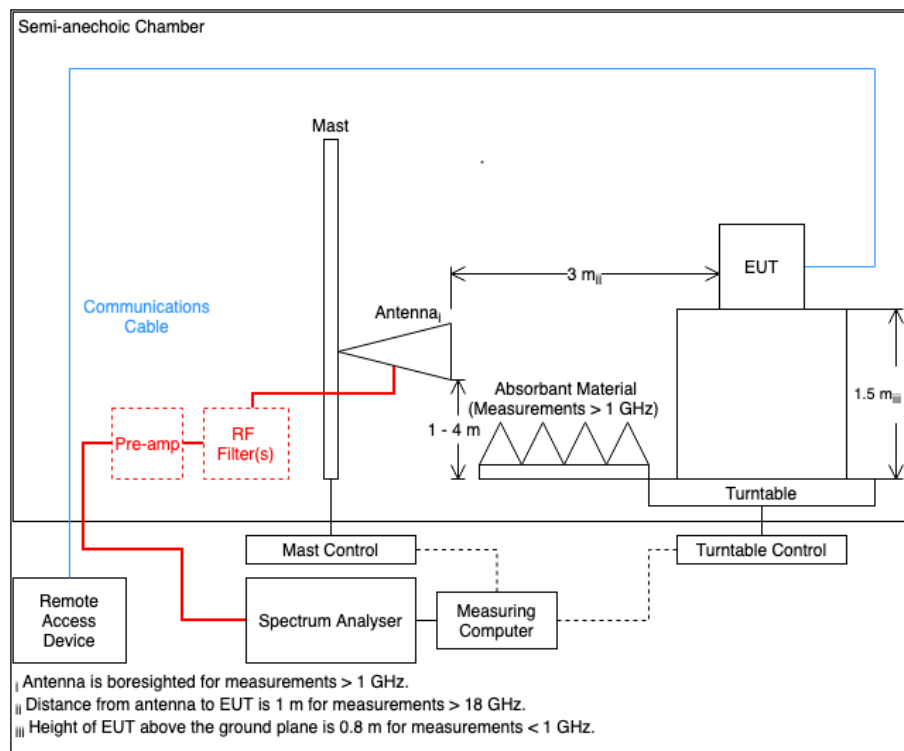


Figure 50

2.8.6 Environmental Conditions

Ambient Temperature	21.7 - 23.1 °C
Relative Humidity	22.3 - 47.8 %

2.8.7 Test Results

2.4 GHz Bluetooth BDR

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2374.836	31.13	54.00	-22.87	CISPR Avg	7	357	Vertical

Table 45 - 2402 MHz (CH0), DH5, iPA, Core 0 + Core 1, 1 to 26 GHz

No other emissions found within 10 dB of the limit.

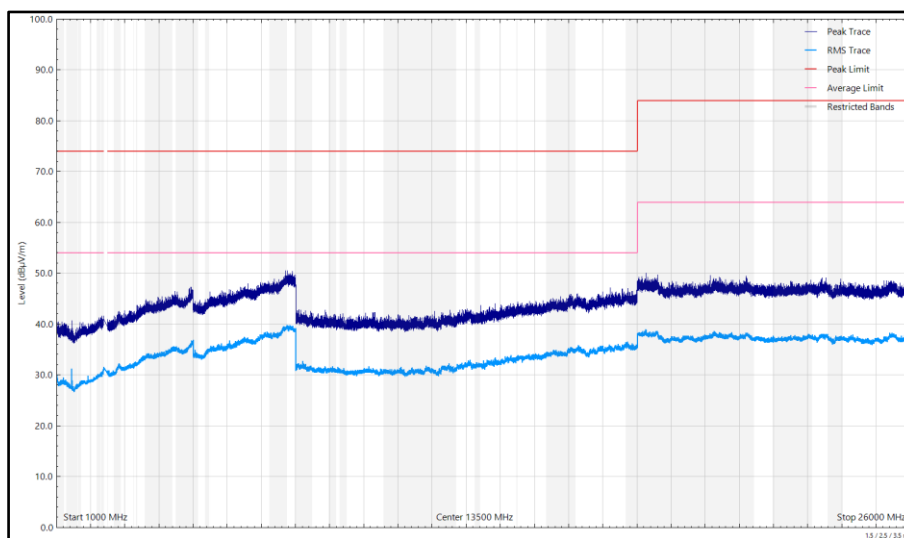


Figure 51 - 2402 MHz (CH0), DH5, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Horizontal

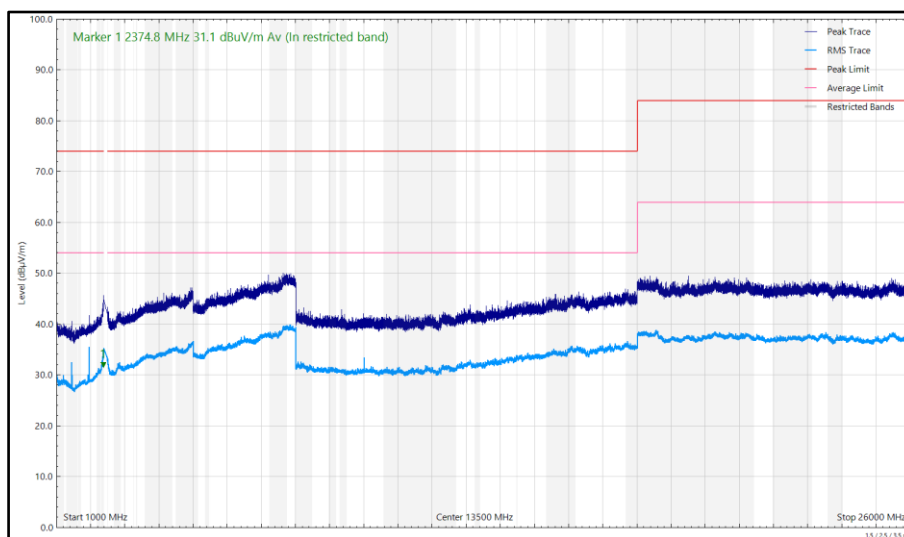


Figure 52 - 2402 MHz (CH0), DH5, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
279.988	25.90	46.00	-20.10	Q-Peak	286	100	Horizontal
2495.918	29.07	54.00	-24.93	CISPR Avg	0	309	Vertical

Table 46 - 2441 MHz (CH39), DH5, iPA, Core 0 + Core 1, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

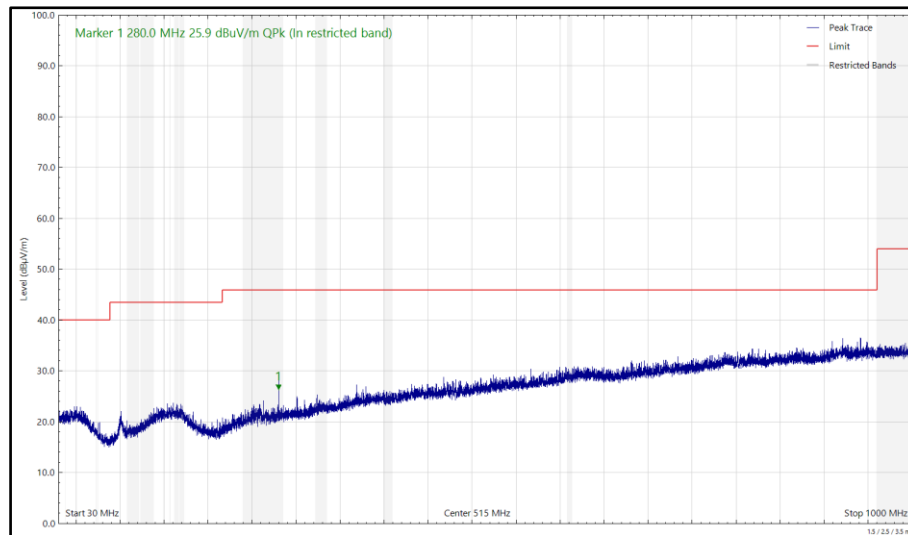


Figure 53 - 2441 MHz (CH39), DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

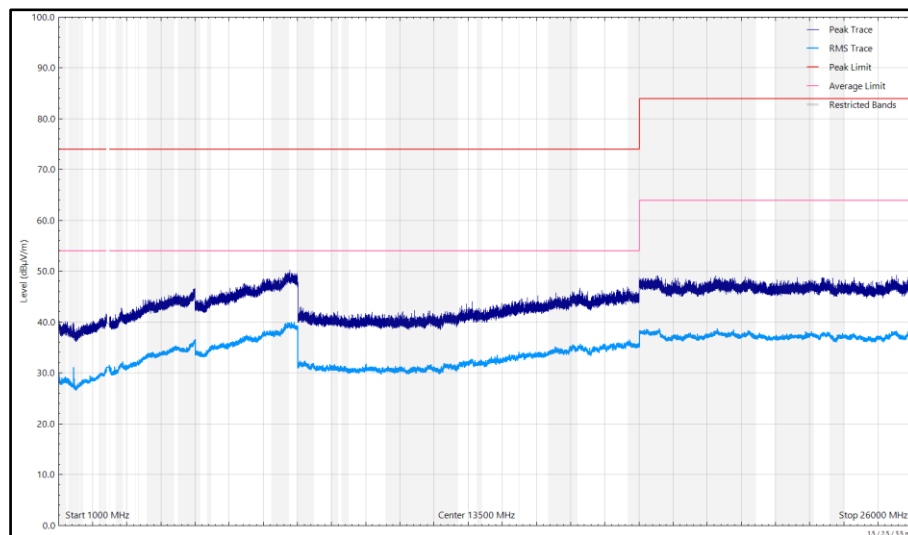


Figure 54 - 2441 MHz (CH39), DH5, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Horizontal

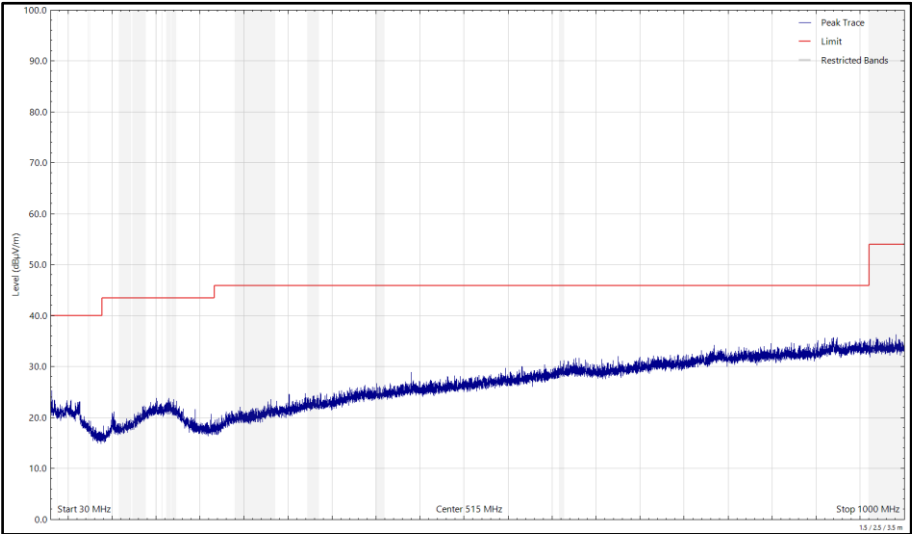


Figure 55 - 2441 MHz (CH39), DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

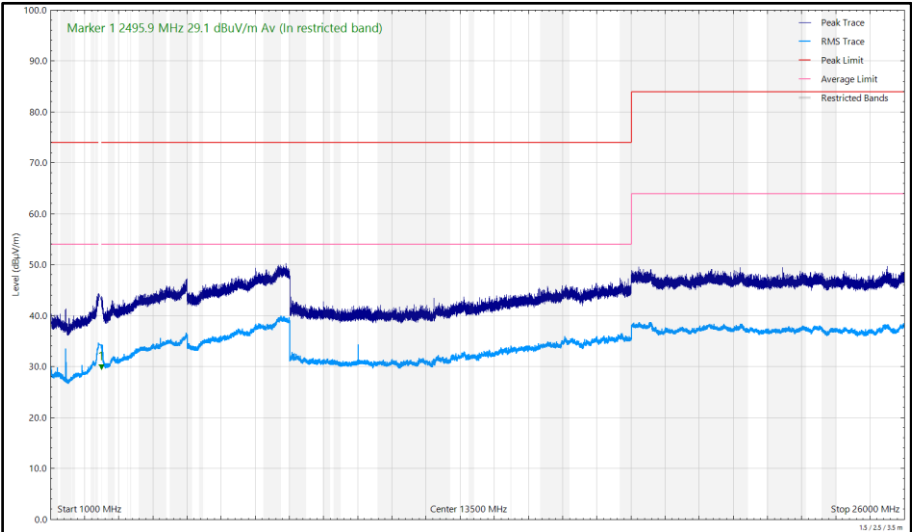


Figure 56 - 2441 MHz (CH39), DH5, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2499.722	33.89	54.00	-20.11	CISPR Avg	350	390	Vertical
2499.869	31.49	54.00	-22.51	CISPR Avg	61	390	Horizontal

Table 47 - 2480 MHz (CH78), DH5, iPA, Core 0 + Core 1, 1 to 26 GHz

No other emissions found within 10 dB of the limit.

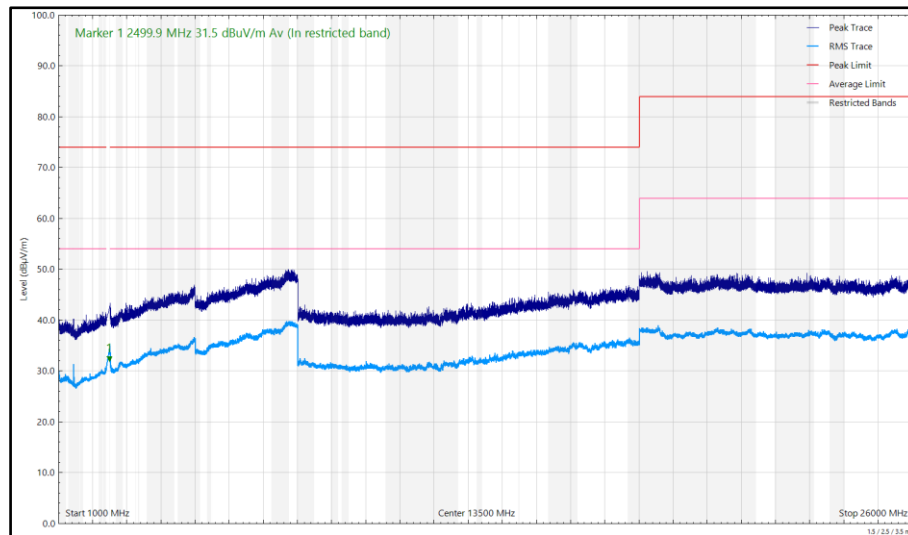


Figure 57 - 2480 MHz (CH78), DH5, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Horizontal

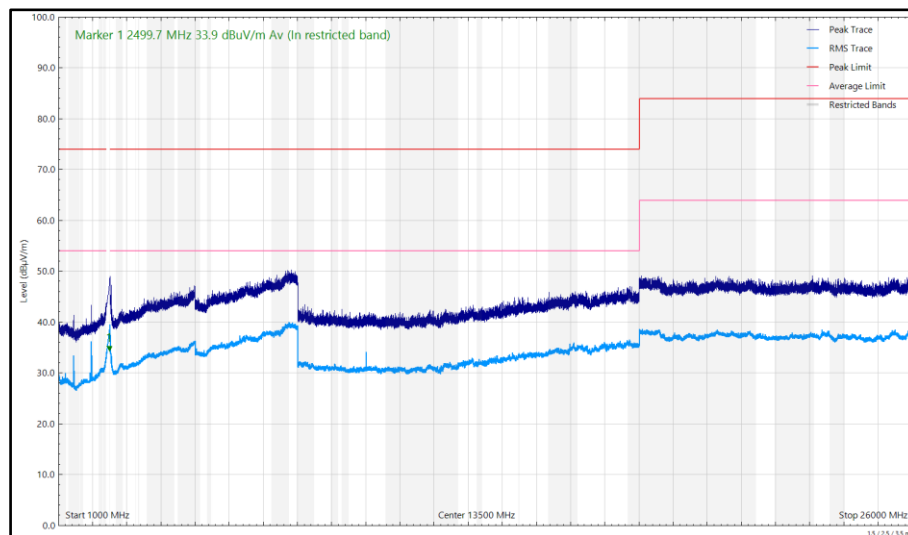


Figure 58 - 2480 MHz (CH78), DH5, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Vertical



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

Table 48 - 2402 MHz (CH0), DH5, iPA, Core 2, 1 to 26 GHz

*No emissions found within 10 dB of the limit.

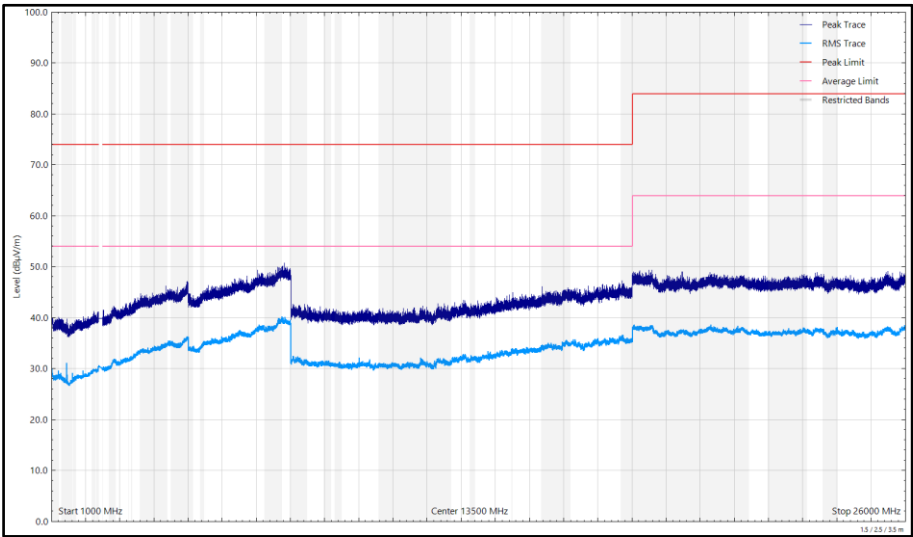


Figure 59 - 2402 MHz (CH0), DH5, iPA, Core 2, 1 GHz to 26 GHz, Horizontal

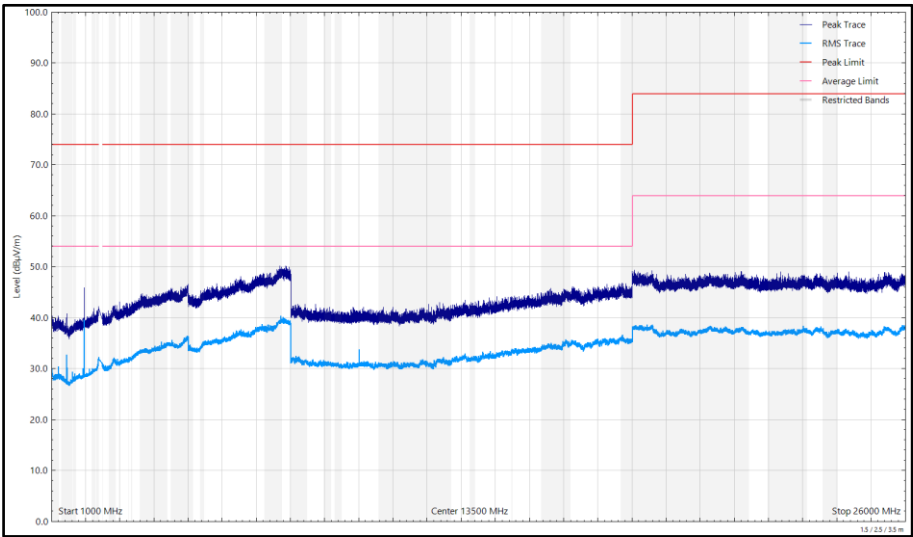


Figure 60 - 2402 MHz (CH0), DH5, iPA, Core 2, 1 GHz to 26 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
280.002	27.21	46.00	-18.79	Q-Peak	283	137	Horizontal

Table 49 - 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 26 GHz

No other emissions found within 10 dB of the limit.

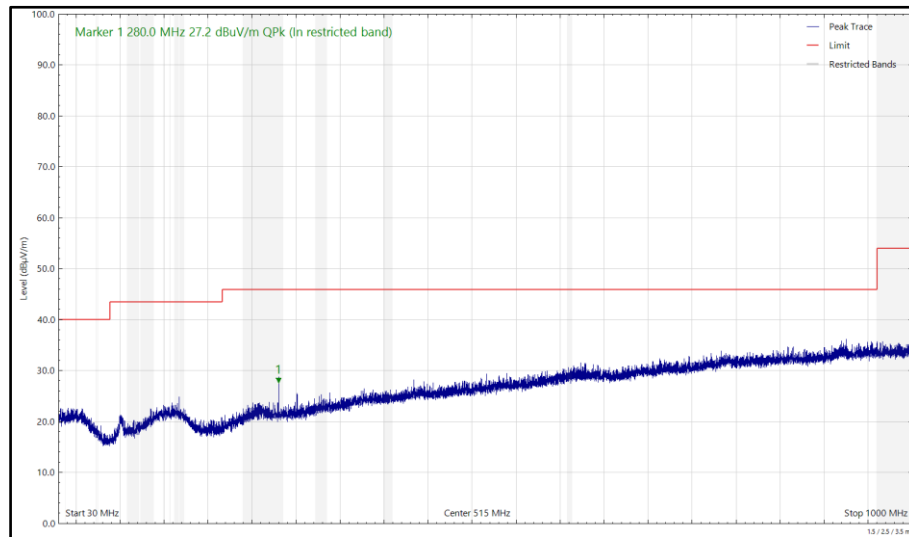


Figure 61 - 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)

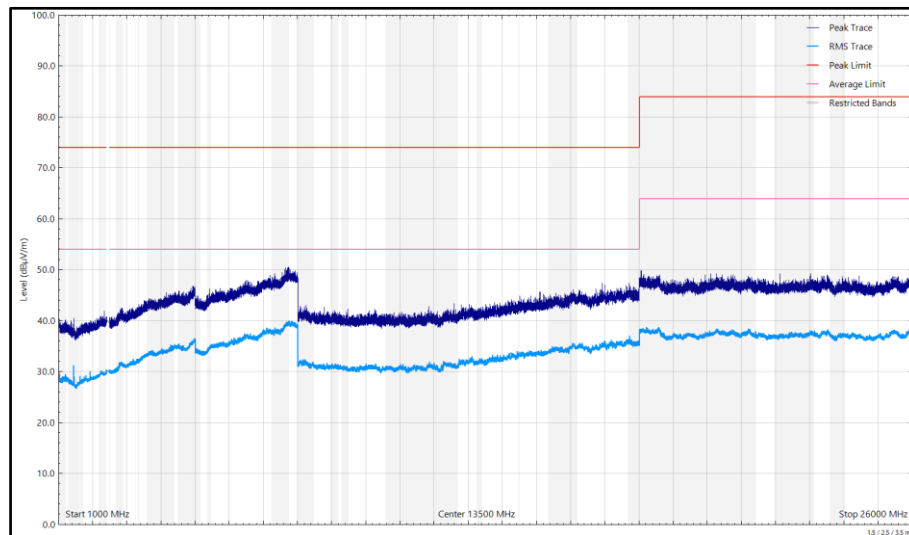


Figure 62 - 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 26 GHz, Horizontal

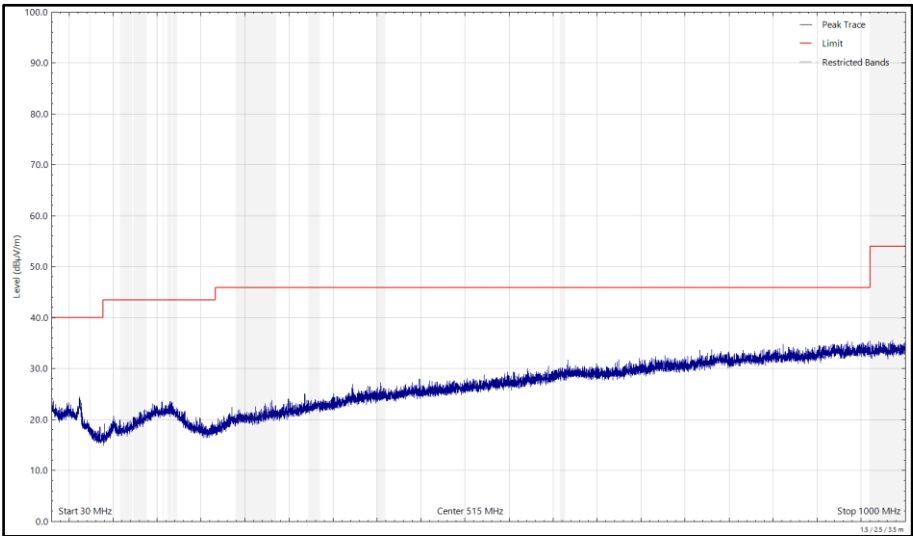


Figure 63 - 2441 MHz (CH39), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

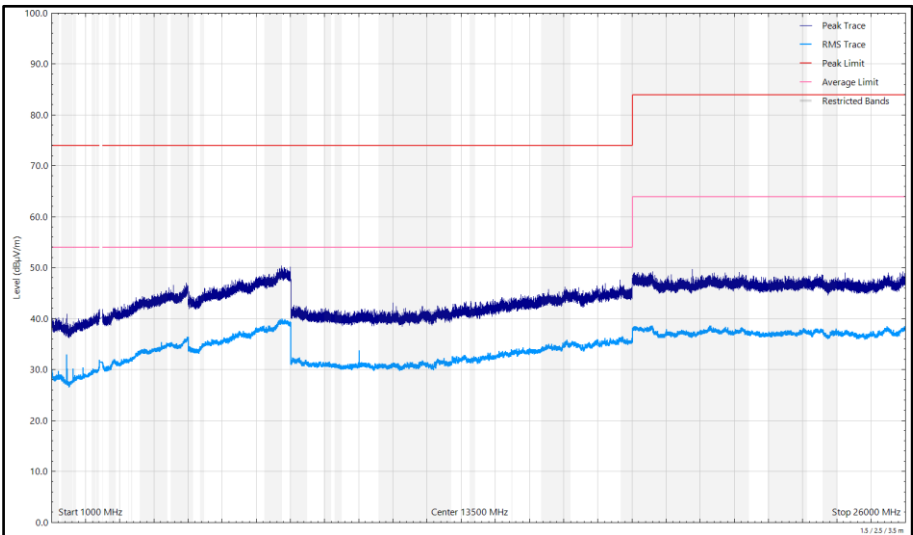


Figure 64 - 2441 MHz (CH39), DH5, iPA, Core 2, 1 GHz to 26 GHz, Vertical



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

Table 50 - 2480 MHz (CH78), DH5, iPA, Core 2, 1 to 26 GHz

*No emissions found within 10 dB of the limit.

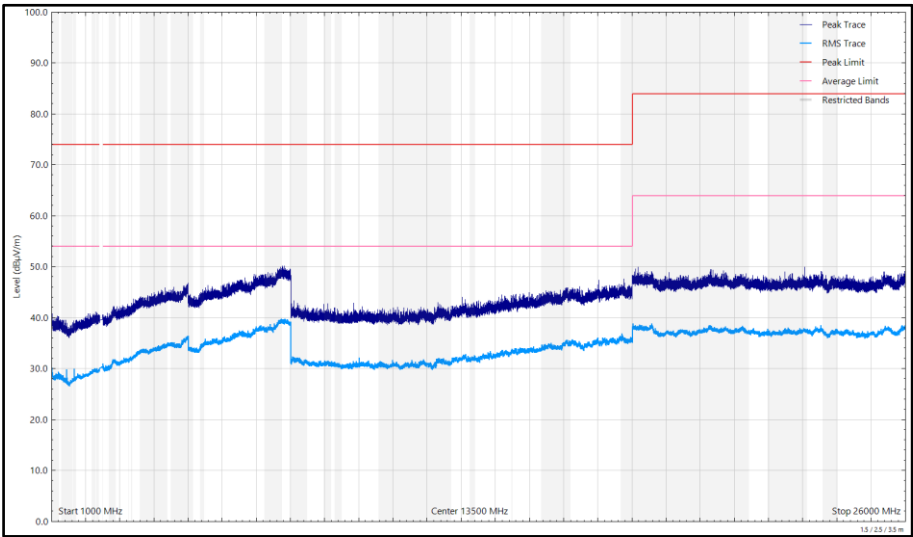


Figure 65 - 2480 MHz (CH78), DH5, iPA, Core 2, 1 GHz to 26 GHz, Horizontal

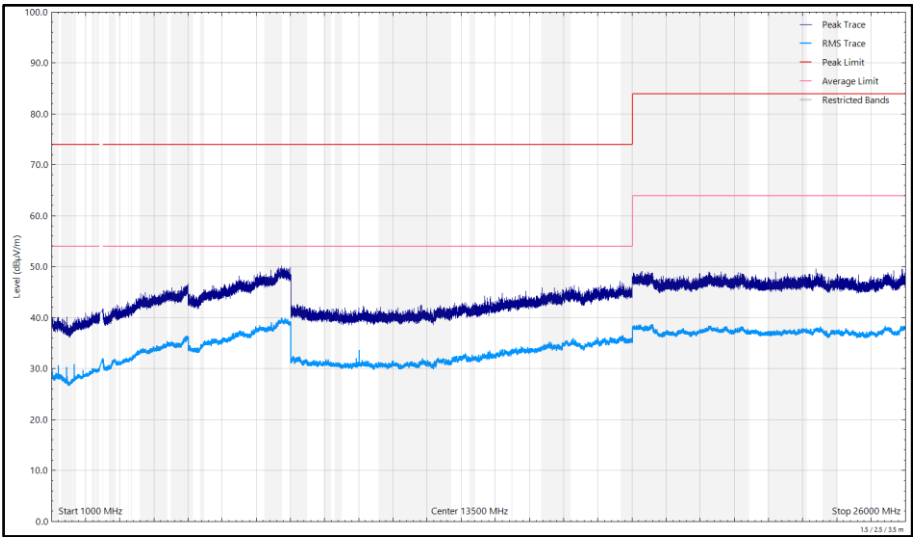


Figure 66 - 2480 MHz (CH78), DH5, iPA, Core 2, 1 GHz to 26 GHz, Vertical



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

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

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.

In addition, radiated emissions which fall in the restricted bands, as defined in RSS-GEN, clause 8.10, must also comply with the radiated emission limits specified in RSS-GEN clause 8.9.



2.8.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14, RF Chamber 15, RF Chamber 18

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.4.2	5125	-	TU
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	19-Sep-2025
Test Receiver	Rohde & Schwarz	ESW44	5914	12	24-May-2025
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5937	12	10-Jun-2025
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5939	12	05-May-2025
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5940	12	05-May-2025
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5944	24	03-Jan-2027
1500W (300V 12A) AC Power Supply	iTech	IT7324	5955	-	TU
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	TU
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 14	5958	36	26-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5959	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5962	-	TU
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
Cable (N to N 1m)	Junkosha	MWX221-01000NMSNMS/B	5999	12	20-May-2025
Cable (N to N 7m)	Junkosha	MWX221-07000NMSNMS/B	6005	12	20-May-2025
Cable (N to N 1m)	Junkosha	MWX221-01000AMSAMS/B	6009	12	20-May-2025
SAC Switch Unit	TUV SUD	TUV_SSU_001	6144	12	11-Dec-2025
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Digital Multimeter	Fluke	115	6146	12	06-Jun-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
Humidity & Temperature meter	R.S Components	1364	6148	12	29-Jul-2025
Double Ridge Active Horn Antenna (18-40 GHz)	Com-Power	AHA-840	6188	24	31-Jul-2026



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	20-Dec-2025
Pre Amp 8 - 18 GHz	Wright Technologies	APS06 0061	6198	12	03-Jun-2025
USB Spectrum Analyser	Signal Hound	SA124B	6295	-	TU
USB Spectrum Analyser	Signal Hound	SA124B	6296	-	TU
USB Spectrum Analyser	Signal Hound	SA124B	6297	-	TU
Humidity and Temperature Meter	R.S Components	1364	6486	12	04-Jun-2025
3m Semi-Anechoic Chamber	Albatross Projects	Chamber 18	6597	36	07-Feb-2026
Pre Amp 8 - 18 GHz	Wright Technologies	APS06-0061	6783	12	23-Apr-2025
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	6795	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	6796	-	TU
Turntable	Maturo Gmbh	TT1.5SI	6797	-	TU
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	12	29-May-2025
AC Programmable Power Supply	iTech	IT7324	6812	-	TU
Broad-Band Horn Antenna 1-10GHz N	Schwarzbeck	BBHA9120B	6825	12	18-Jul-2025
1M SMA Cable	Junkosha	MWX221-01000AMSAMS/B	6832	12	14-Aug-2025
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025
1m SMA-Type Cable	Junkosha	MWX221-01000AMSAMS/B	6842	12	05-Sep-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
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6851	12	15-Nov-2025
Cable Assembly	SpecTech	PE300-60	6856	-	TU
Cable Assembly	SpecTech	PE300-60	6861	-	TU
Cable Assembly	SpecTech	PE300-60	6862	-	TU
Cable Assembly	SpecTech	PE300-60	6863	-	TU
Cable Assembly	SpecTech	PE300-60	6866	-	TU
Cable Assembly	SpecTech	PE300-60	6867	-	TU
Cable Assembly	SpecTech	PE300-60	6868	-	TU
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6886	12	02-Dec-2025

Table 51

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

3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Restricted Band Edges	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB
Frequency Hopping Systems - Average Time of Occupancy	-
Frequency Hopping Systems - Channel Separation	± 23.57 kHz
Frequency Hopping Systems - Number of Hopping Channels	-
Frequency Hopping Systems - 99% & 20 dB Bandwidth	± 23.57 kHz
Maximum Conducted Output Power	Method PM: ± 0.65 dB Method SA: ± 1.05 dB
Authorised Band Edges	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB
Spurious Radiated Emissions	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 52

Measurement Uncertainty Decision Rule – Accuracy Method

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

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