

FCC and ISED Test Report

Apple Inc
Model: A3429



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

Prepared for: Apple Inc
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SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steven White	Senior Technical Support	Authorised Signatory	10 February 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 and 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 Generating	George Capps	10 February 2026	

FCC Accreditation

553713/UK2026 Concorde Park, Fareham Test Laboratory

ISED Accreditation

28798/UK0003 Concorde Park, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15C: 2024, ISED RSS-247: Issue 4 (2025-07) 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	10 February 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	24-September-2025
Finish of Test	28-January-2026
Name of Engineer(s)	Dulanjan Witharamalage, Gridi Bilali, Marius Vasii, Morsalin Hossain, Ioan-Alexandru Bogatu, Thomas Randall, Ahmed Al Derdiri, Colin Brain, Joshua O'Donnell, Mahmud Chowdhury, James Woods.
Related Document(s)	ANSI C63.4 (2014) ANSI C63.10-2020 +Cor.1-2023+C63.10a-2024 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 FHSS 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	2.4	8.10	Restricted Band Edges	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024
2.2	15.247 (a)(1)	6.2.3.1	-	Frequency Hopping Systems - Average Time of Occupancy	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024
2.3	15.247 (a)(1)	6.2.3.1	-	Frequency Hopping Systems - Channel Separation	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024
2.4	15.247 (a)(1)	6.2.3.1	-	Frequency Hopping Systems - Number of Hopping Channels	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024
2.5	15.247 (a)(1)	6.2.3.1	6.7	Frequency Hopping Systems - 99% & 20 dB Bandwidth	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024
2.6	15.247 (b)	6.2.3.2	6.12	Maximum Conducted Output Power	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024 KDB 662911 D01 v02r01
2.7	15.247 (d)	6.6	-	Authorised Band Edges	Pass	ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024)
2.8	15.209 and 15.247 (d)	2.4 and 6.6	6.13 and 8.9	Spurious Radiated Emissions	Pass	ANSI C63.4 (2014) ANSI C63.10 (2020) +Cor.1-2023+C63.10a-2024

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) and MIMO (Multiple Input/Multiple Output) operation on three different cores. With SISO operating on (Core 0, 1 or 2) and MIMO Operating (Core 0 + 1, 0 + 2 or 1 + 2)

The EUT supports Basic Rate modes for FHSS operation on two power settings: low power "iPA" and high power "ePA".

With operation of SISO (Core 2) and MIMO (Core 0 + 2 or 1 + 2) being limited to low power "iPA"

After preliminary investigations were performed, the EUT was tested in the following modes, as these were deemed to be worst-case.

SISO modes (Core 0, Core 1 & Core 2):

- DH5 – iPA/ePA

MIMO modes (Core 0 + Core 1):

- DH5 – iPA/ePA

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: (Core 0 + 1)

- DH5 – iPA/ePA

SISO Modes: (Core 2)

- DH5 – iPA/ePA

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 (WF1)	2412	4.9	0.71
	2442	5.8	0.71
	2472	5.7	0.71
Core 1 (WF2)	2412	1.8	0.71
	2442	2.0	0.71
	2472	2.2	0.71
Core 2 (WF3)	2412	4.7	0.71
	2442	5.0	0.71
	2472	4.5	0.71

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: A3429		
Serial Number	Hardware Version	Software Version
DQ5K9FY355	REV1.0	25D36
DQXLNQJKGL	REV1.0	25D36
F7KVTYJKG4	REV1.0	25D36
FL72Y9HKC4	REV1.0	25D36
CN4XJK3W6Y	REV1.0	25D36

Table 3



1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Model: A3429, Serial Number: DQ5K9FY355			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3429, Serial Number: DQXLNQJKGL			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3429, Serial Number: F7KVTYJKG4			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3429, Serial Number: FL72Y9HKC4			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3429, Serial Number: CN4XJK3W6Y			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 4



1.8 Test Location

TÜV SÜD conducted the following tests at our Concorde Park Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 2.4 GHz Bluetooth FHSS BDR		
Restricted Band Edges	Dulanjan Witharamalage, Gridi Bilali, Marius Vasii, Morsalin Hossain, Ioan-Alexandru Bogatu, Thomas Randall, Ahmed Al Derdiri, Colin Brain.	UKAS
Frequency Hopping Systems - Average Time of Occupancy	Joshua O'Donnell, Mahmud Chowdhury, James Woods	UKAS
Frequency Hopping Systems - Channel Separation	Joshua O'Donnell, Mahmud Chowdhury, James Woods	UKAS
Frequency Hopping Systems - Number of Hopping Channels	Joshua O'Donnell, Mahmud Chowdhury, James Woods	UKAS
Frequency Hopping Systems - 20 dB Bandwidth	Joshua O'Donnell, Mahmud Chowdhury, James Woods	UKAS
Maximum Conducted Output Power	Joshua O'Donnell, Mahmud Chowdhury, James Woods	UKAS
Authorised Band Edges	Dulanjan Witharamalage, Gridi Bilali, Marius Vasii, Morsalin Hossain, Ioan-Alexandru Bogatu, Thomas Randall, Ahmed Al Derdiri, Colin Brain.	UKAS
Spurious Radiated Emissions	Ahmed Al Derdiri, Manohar Thota, Marius Vasii, Ioan-Alexandru Bogatu, Dulanjan Witharamalage	UKAS

Table 5

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

A3429, S/N: F7KVTYJKG4 - Modification State 0
A3429, S/N: FL72Y9HKC4 - Modification State 0

2.1.3 Date of Test

24-September-2025 to 24-October-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:
 $10^{\frac{\text{Field Strength in dB}\mu\text{V/m}}{20}}$

2.1.5 Environmental Conditions

Ambient Temperature	21.2 - 23.8 °C
Relative Humidity	31.9 – 42.7%



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 (dBμV/m)	Average Level (dBμV/m)
Static	DH5	2402	2390	55.37	40.96
Static	DH5	2480	2483.5	58.08	46.53

Table 6 - SISO Restricted Band Edge Results

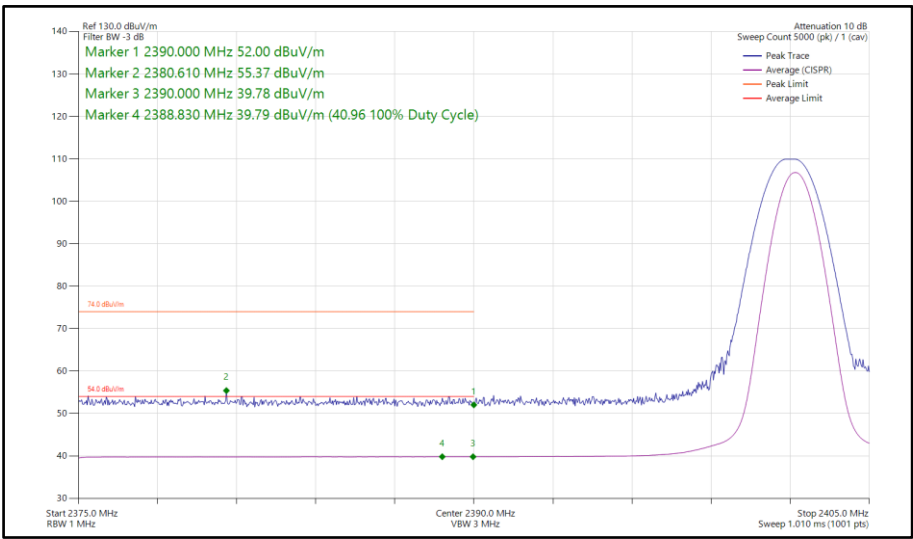


Figure 1 - Bluetooth DH5, SISO, Core 0 - 2402 MHz
Band Edge Frequency 2390 MHz

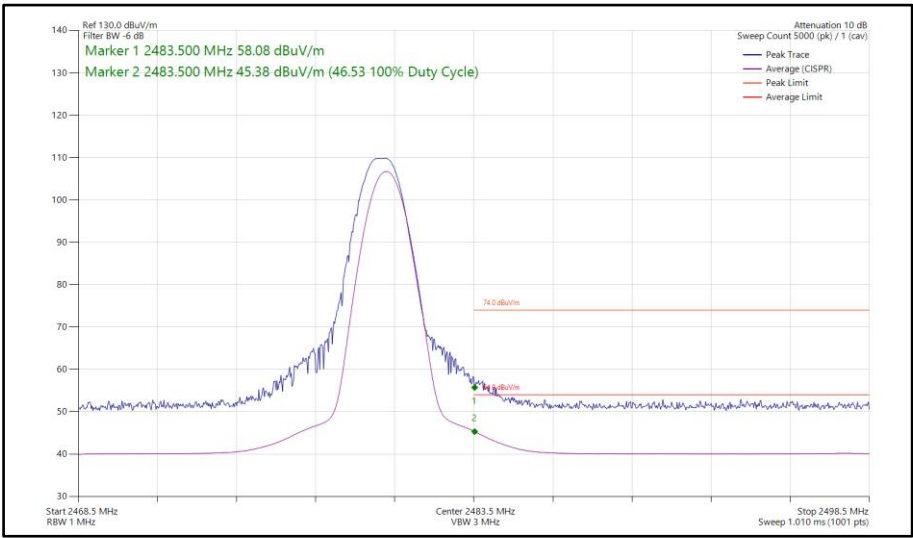


Figure 2 - Bluetooth DH5, SISO, Core 0 - 2480 MHz
Band Edge Frequency 2483.5 MHz

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	54.25	40.88
Static	DH5	2480	2483.5	55.79	43.67

Table 7 - SISO Restricted Band Edge Results

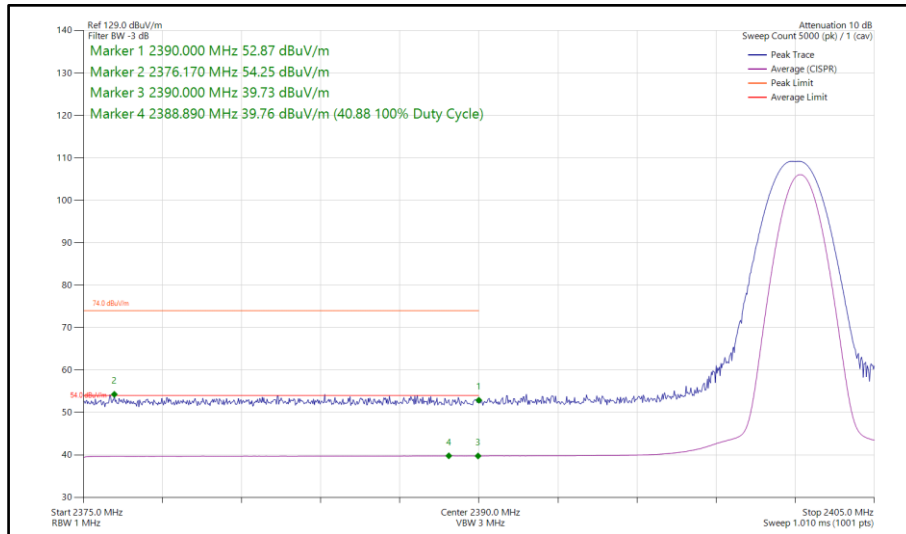


**Figure 3 - Bluetooth DH5, SISO, Core 1 - 2402 MHz
Band Edge Frequency 2390 MHz**

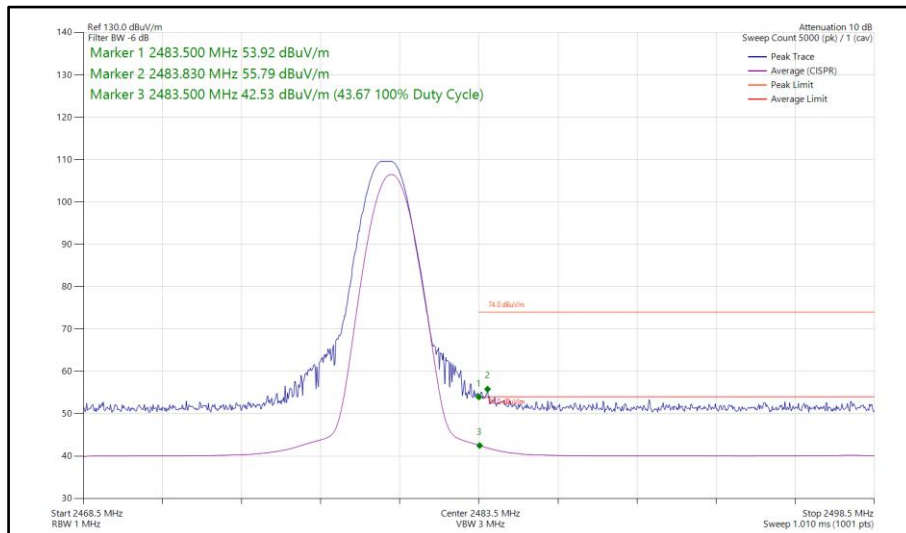


**Figure 4 - Bluetooth DH5, SISO, Core 1 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

iPA - Core 2 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBuV/m)
Static	DH5	2402	2390	55.11	41.77
Static	DH5	2480	2483.5	63.16	45.96

Table 8 - SISO Restricted Band Edge Results

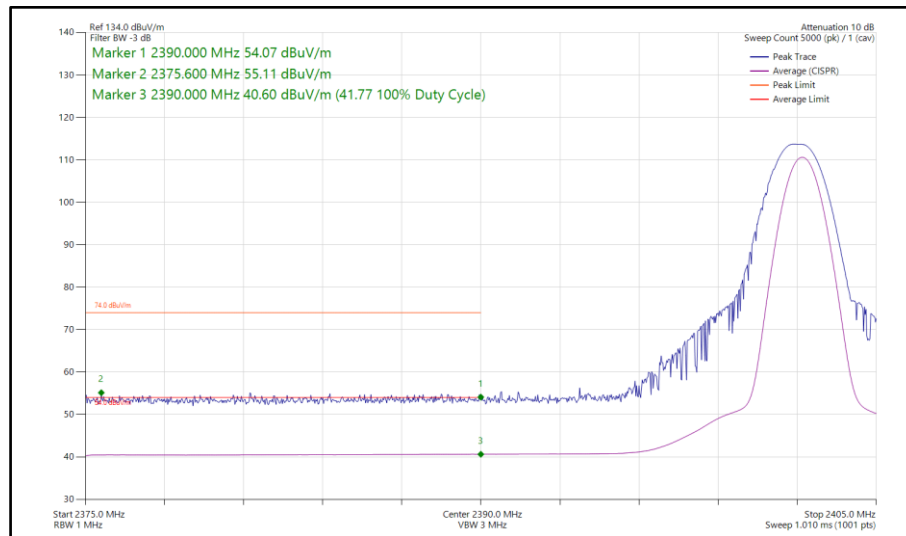


**Figure 5 - Bluetooth DH5, SISO, Core 2 - 2402 MHz
Band Edge Frequency 2390 MHz**

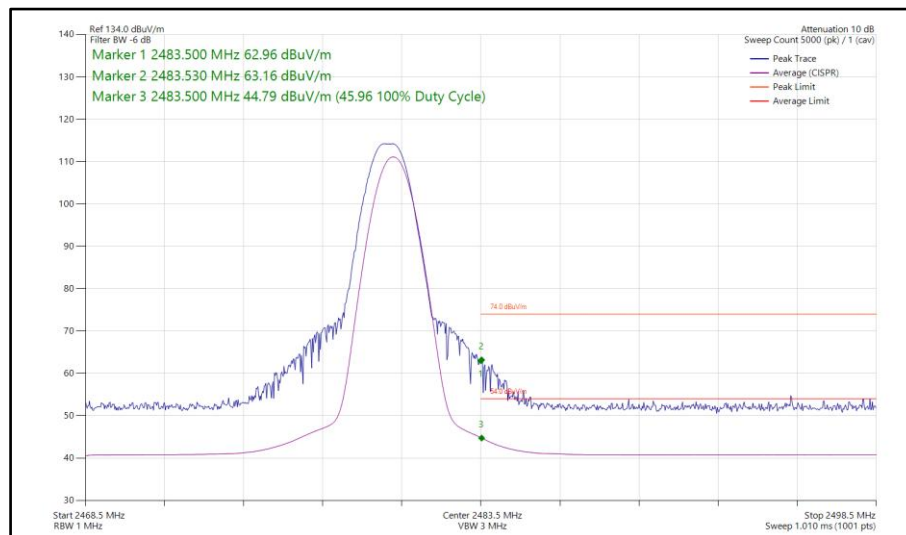


**Figure 6 - Bluetooth DH5, SISO, Core 2 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

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	53.99	40.97
Static	DH5	2480	2483.5	57.08	44.46

Table 9 - MIMO Restricted Band Edge Results

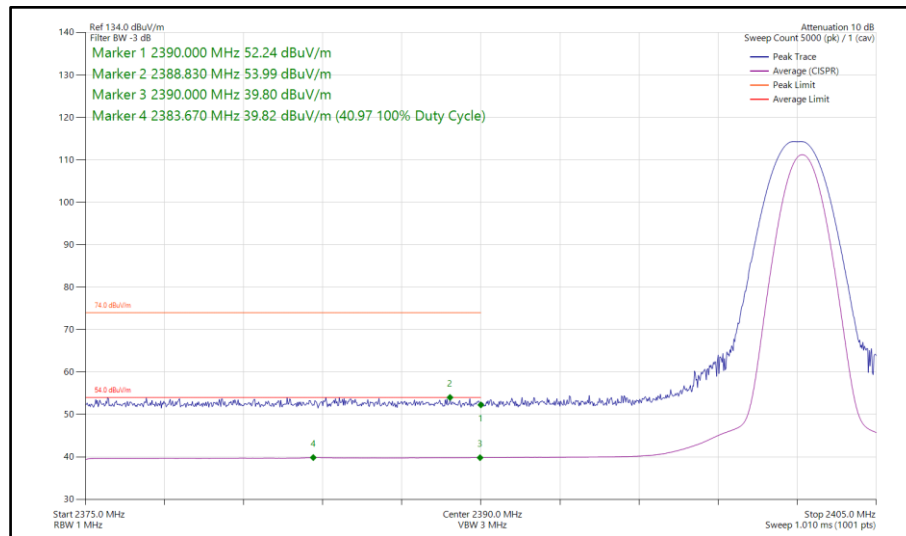


**Figure 7 - Bluetooth DH5, MIMO, Core 0-1 - 2402 MHz
Band Edge Frequency 2390 MHz**

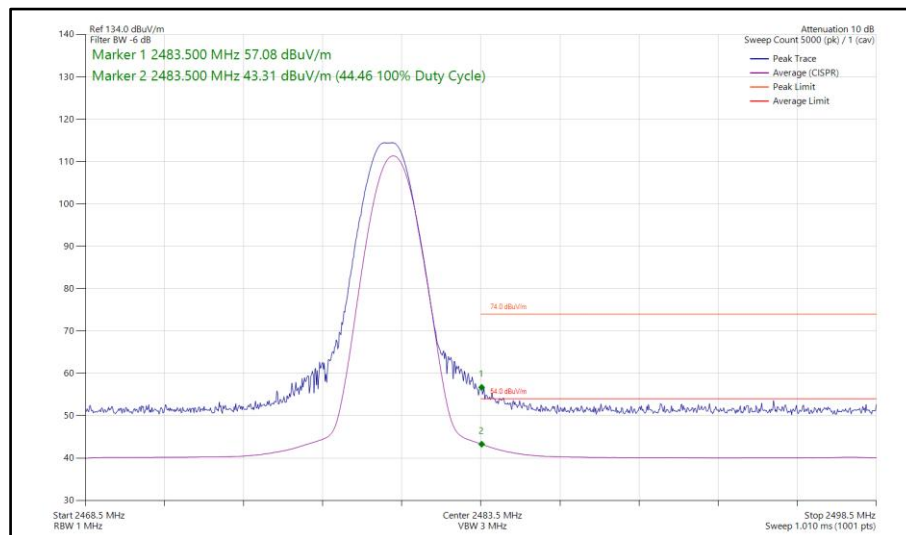


**Figure 8 - Bluetooth DH5, MIMO, Core 0-1 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

ePA - Core 0 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBuV/m)
Static	DH5	2402	2390	55.97	42.69
Static	DH5	2480	2483.5	59.24	48.08

Table 10 - SISO Restricted Band Edge Results

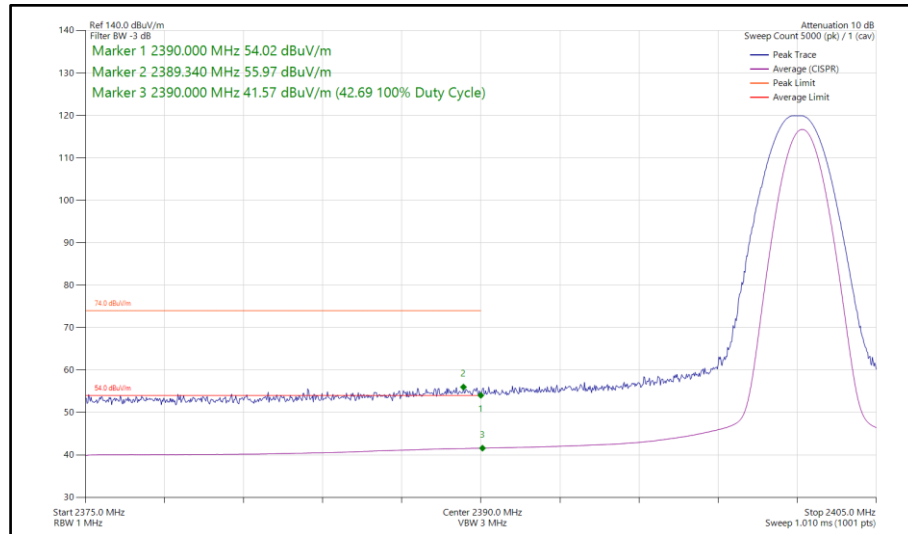


**Figure 9 - Bluetooth DH5, SISO, Core 0 - 2402 MHz
Band Edge Frequency 2390 MHz**

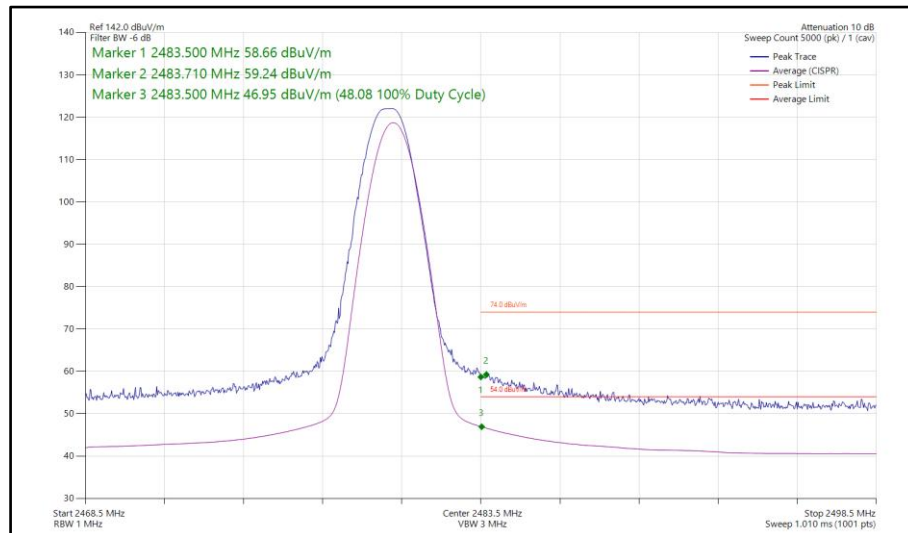


**Figure 10 - Bluetooth DH5, SISO, Core 0 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

ePA - 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	56.21	42.45
Static	DH5	2480	2483.5	58.95	47.36

Table 11 - SISO Restricted Band Edge Results

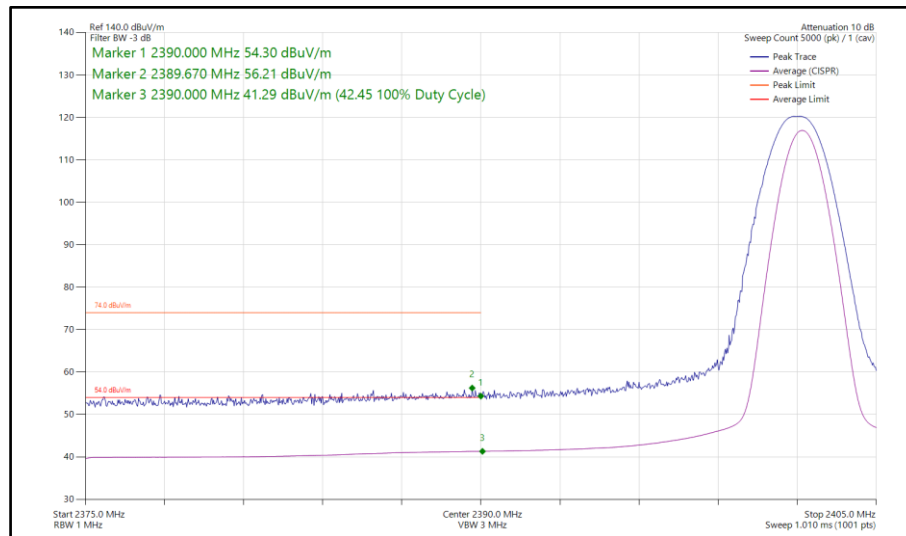


**Figure 11 - Bluetooth DH5, SISO, Core 1 - 2402 MHz
Band Edge Frequency 2390 MHz**

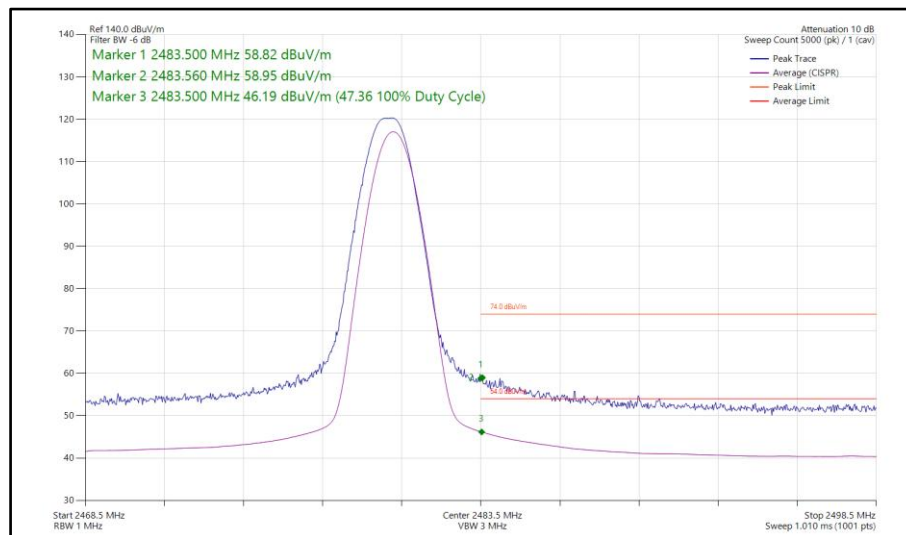


**Figure 12 - Bluetooth DH5, SISO, Core 1 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

ePA - 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	57.59	44.07
Static	DH5	2480	2483.5	61.62	50.37

Table 12 - MIMO Restricted Band Edge Results

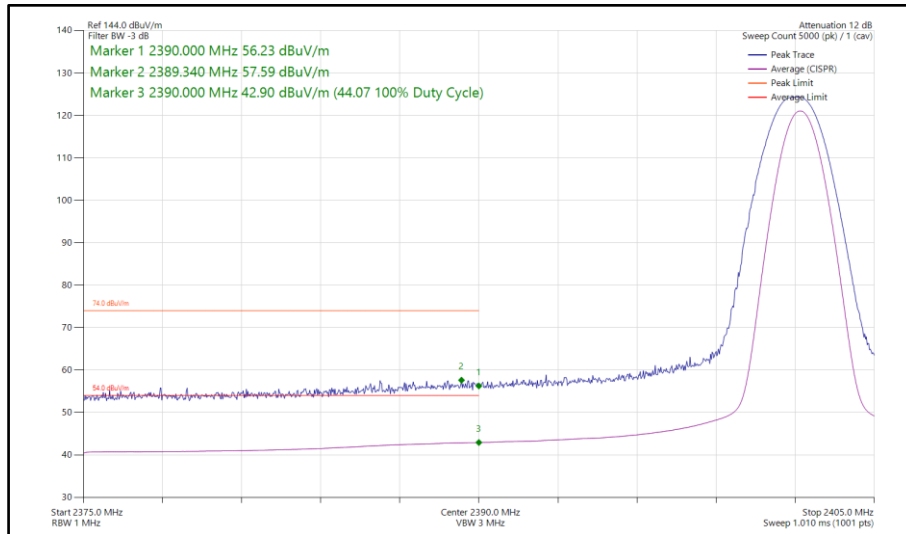


**Figure 13 - Bluetooth DH5, MIMO, Core 0-1 - 2402 MHz
Band Edge Frequency 2390 MHz**

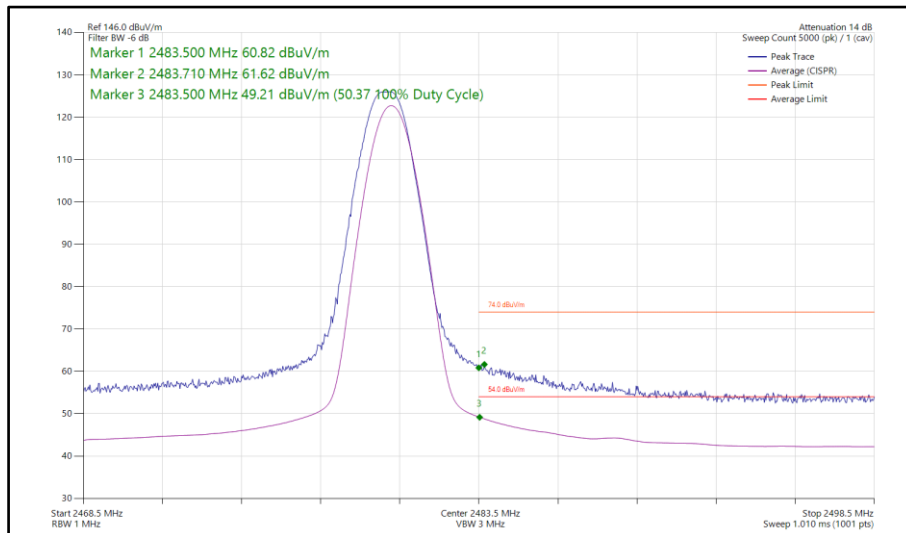


**Figure 14 - Bluetooth DH5, MIMO, Core 0-1 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

iPA - Core 0-2 (MIMO)

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	54.93	41.12
Static	DH5	2480	2483.5	65.37	50.14

Table 13 - MIMO Restricted Band Edge Results

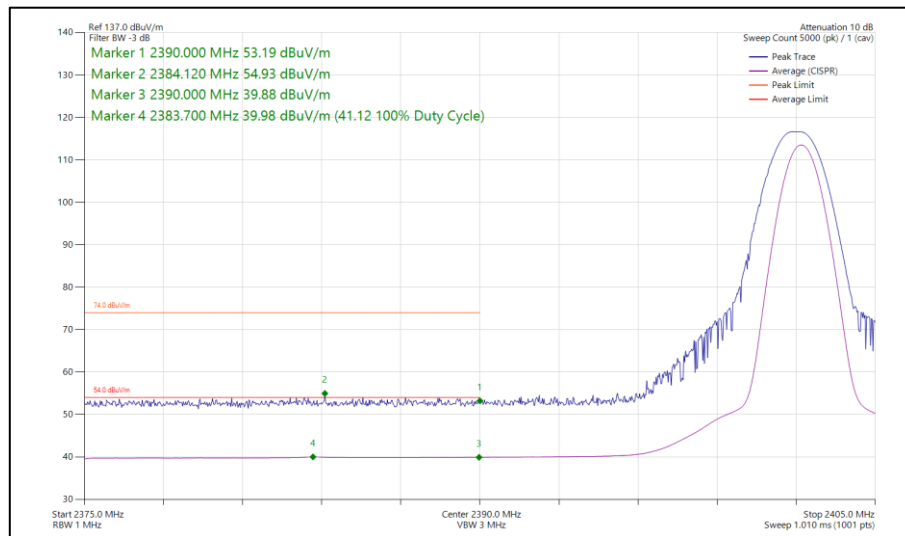


**Figure 15 - Bluetooth DH5, MIMO, Core 0-2 - 2402 MHz
Band Edge Frequency 2390 MHz**

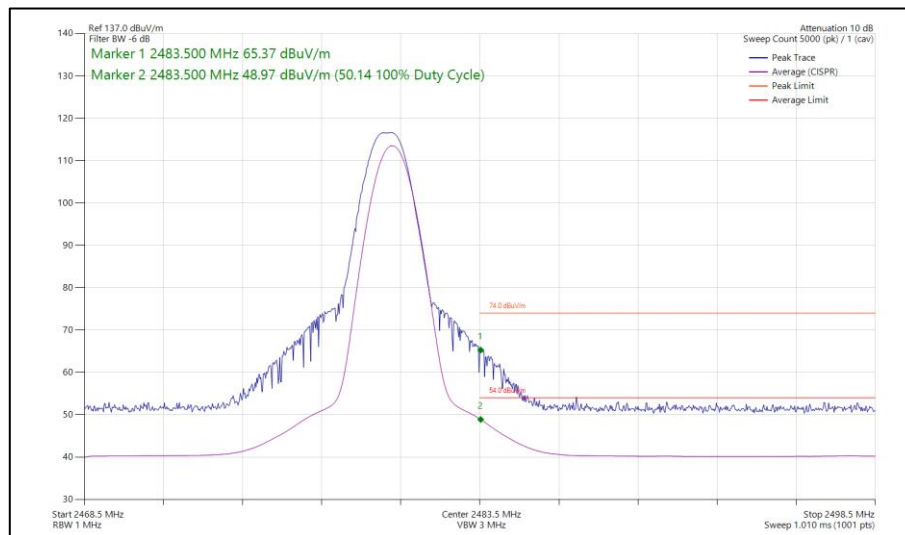


**Figure 16 - Bluetooth DH5, MIMO, Core 0-2 - 2480 MHz
Band Edge Frequency 2483.5 MHz**

iPA - Core 1-2 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
Static	DH5	2402	2390	55.95	41.81
Static	DH5	2480	2483.5	63.38	47.83

Table 14 - MIMO Restricted Band Edge Results

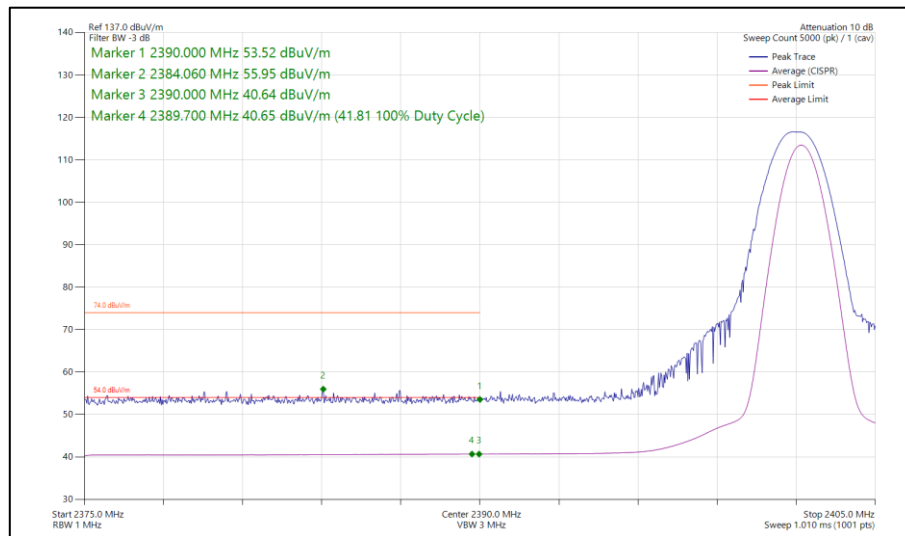


**Figure 17 - Bluetooth DH5, MIMO, Core 1-2 - 2402 MHz
Band Edge Frequency 2390 MHz**

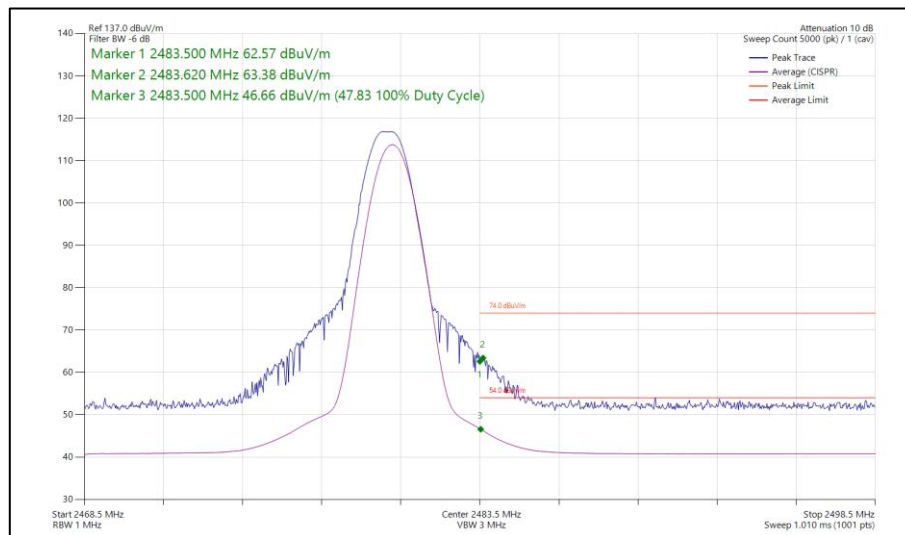


**Figure 18 - Bluetooth DH5, MIMO, Core 1-2 - 2480 MHz
Band Edge Frequency 2483.5 MHz**



FCC 47 CFR Part 15, Limit Clause 15.209

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

Table 15

ISED RSS-GEN, Limit Clause 8.9

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

Table 16

*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 16 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
1500W (300V 12A) AC Power Supply	iTech	IT7324	5957	-	O/P Mon
3m Semi-Anechoic Chamber, Chamber16	Albatross Projects	RF Chamber 16	5972	36	07-May-2028
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5973	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5974	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5975	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6018	12	12-Jun-2026
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	14-Sep-2026
Digital Multimeter	Fluke	115	6145	12	06-Jun-2026
Digital Multimeter	Fluke	115	6146	12	05-Jun-2026
Digital Multimeter	Fluke	115	6147	12	05-Jun-2026



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
SAC Switch Unit	TUV SUD	TUV_SSU_001	6190	12	11-Dec-2026
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	18-Dec-2026
EMI Test Receiver	Rohde & Schwarz	ESW44	6294	12	24-Feb-2026
USB Spectrum Analyser	Signal Hound	SA124B	6298	-	TU
Digital Multimeter	Fluke	115	6345	12	24-Jul-2026
Humidity and Temperature Meter	R.S Components	1364	6346	12	13-Mar-2026
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6349	12	16-May-2026
USB Spectrum Analyser	Signal Hound	SA124B	6383	-	TU
Horn Antenna (1–10.5 GHz)	Schwarzbeck	BBHA 9120 B	6457	12	14-Sep-2026
AC Power Supply	iTech	IT7324	6657	-	O/P Mon
3m Semi-Anechoic Chamber	Albatross Projects	RF Chamber 17	6658	36	07-May-2028
Mast and Turntable Controller	Maturo Gmbh	FCU3.0	6659	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	6660	-	TU
Turntable	Maturo Gmbh	TT1.5SI	6661	-	TU
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	27-Apr-2026
8m Cable	Junkosha	MWX221-08000AMSAMS/B	6748	12	27-Apr-2026
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	12	24-Jul-2026
Handheld Hygrometer	Fluke	971	6837	12	16-Sep-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6846	12	23-Oct-2026
Cable Assembly	Pasternack	PE300-60	6856	-	TU
Cable Assembly	Pasternack	PE300-60	6857	-	TU
Cable Assembly	Pasternack	PE300-60	6858	-	TU
Cable Assembly	Pasternack	PE300-60	6859	-	TU
Cable Assembly	Pasternack	PE300-60	6860	-	TU
Cable Assembly	Pasternack	PE300-60	6862	-	TU
Cable Assembly	Pasternack	PE300-60	6864	-	TU
RF Amplifier BROADBAND AMPL/SMA/RoHS	Mini-Circuits	ZX60-83LN12+	6978	12	05-Apr-2026
RF Amplifier BROADBAND AMPL/SMA/RoHS	Mini-Circuits	ZX60-83LN12+	6979	12	05-Apr-2026

Table 17

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 6.2.3.1

2.2.2 Equipment Under Test and Modification State

A3429, S/N: CN4XJK3W6Y - Modification State 0

2.2.3 Date of Test

17-January-2026 to 28-January-2026

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	21.4 - 22.2 °C
Relative Humidity	39.6 - 42.9 %



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 6.2.3.1 (b)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.4
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	2.875	109	313.4	400.0
2480	2.875	105	301.9	400.0

Table 18 - Time of Occupancy Results



Figure 19 - GFSK - 2402 MHz Accumulated Transmit Time

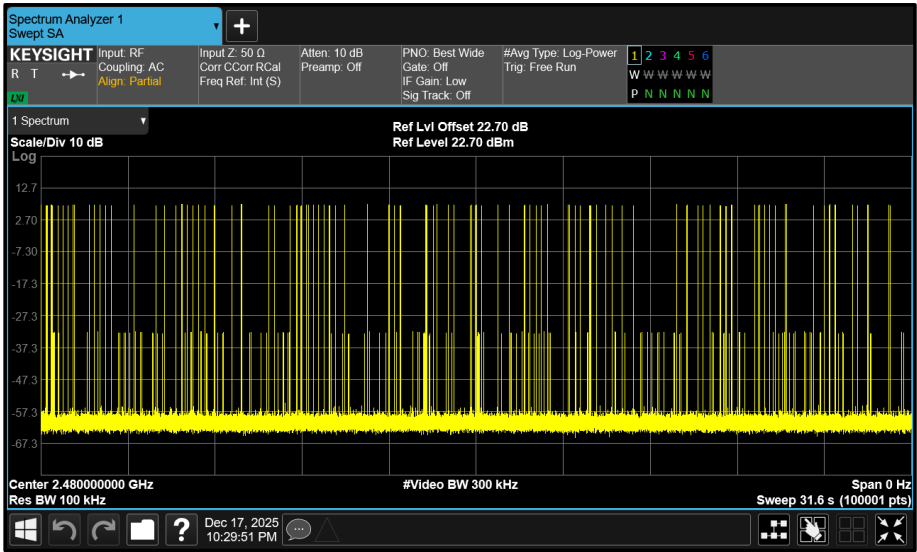


Figure 20 - GFSK - 2480 MHz Accumulated Transmit Time



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247 (a)(1)(iii) RSS-247 6.2.3.1 (b)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.4
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (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	2.875	99	284.6	400.0
2480	2.875	110	316.2	400.0

Table 19 - Time of Occupancy Results

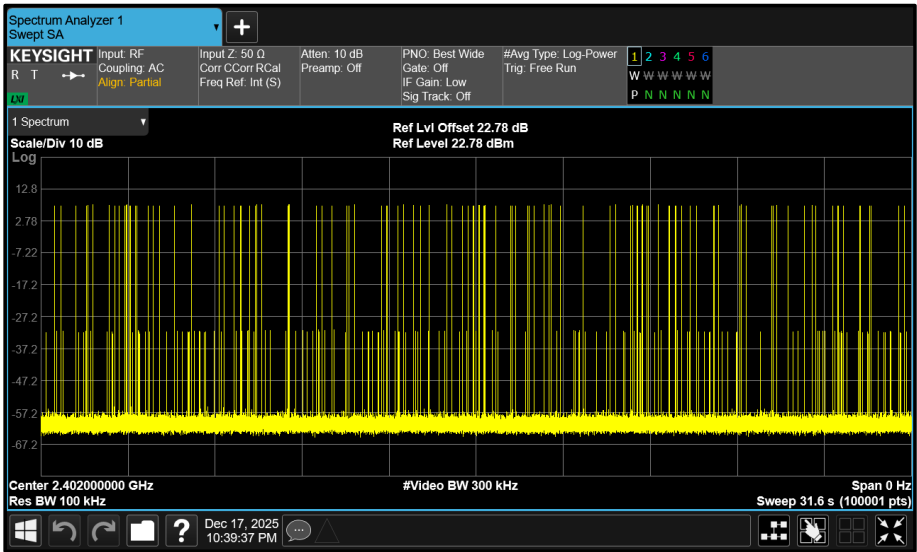


Figure 21 - GFSK - 2402 MHz Accumulated Transmit Time

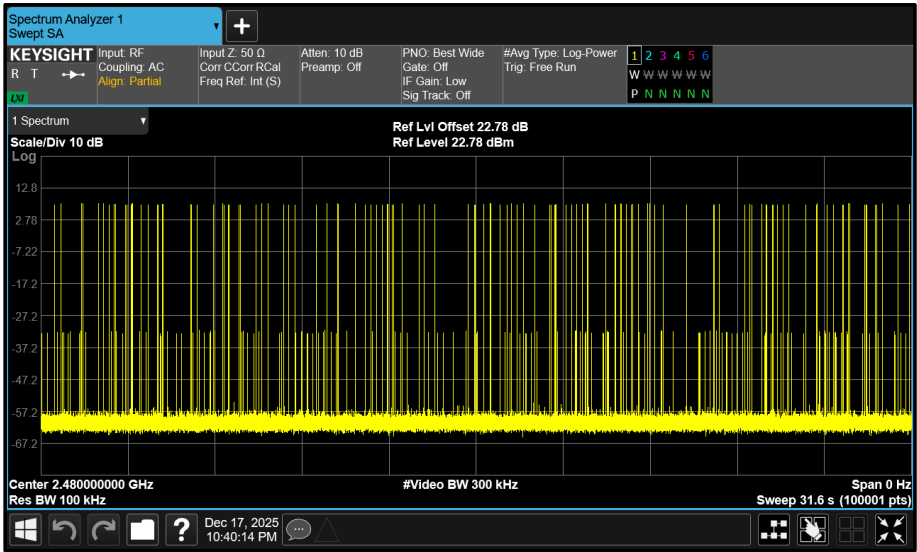


Figure 22 - GFSK - 2480 MHz Accumulated Transmit Time



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247 (a)(1)(iii) RSS-247 6.2.3.1 (b)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.4
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	2.886	111	320.4	400.0
2480	2.886	104	300.2	400.0

Table 20 - Time of Occupancy Results

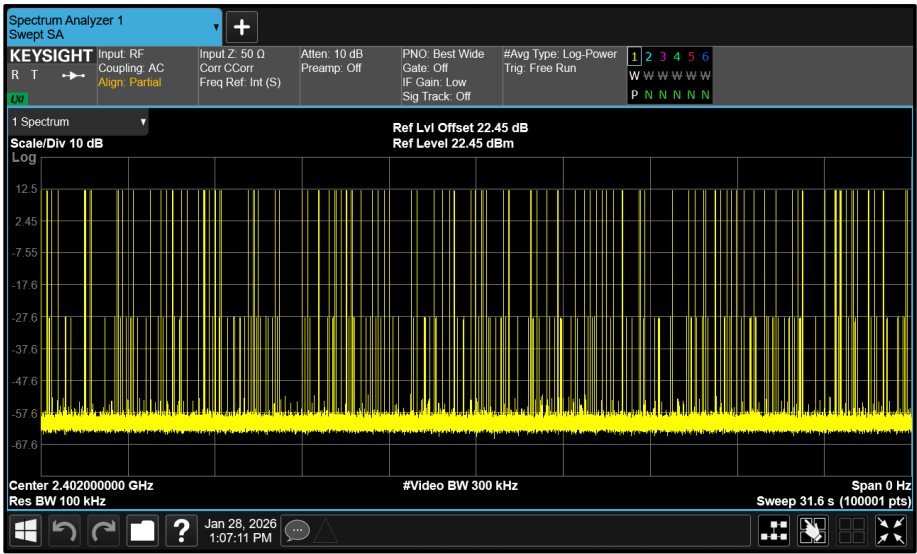


Figure 23 - GFSK - 2402 MHz Accumulated Transmit Time

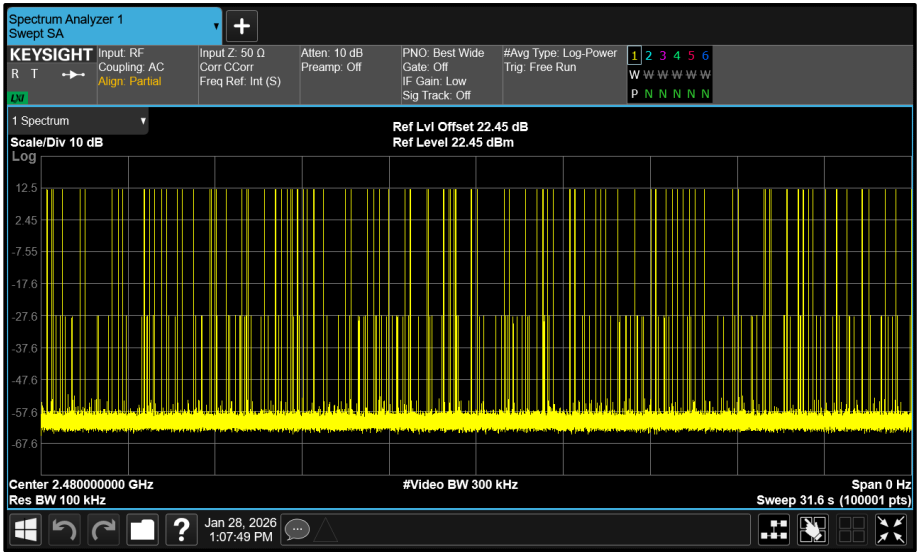


Figure 24 - GFSK - 2480 MHz Accumulated Transmit Time



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247 (a)(1)(iii) RSS-247 6.2.3.1 (b)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA GFSK (DH5)	Duty Cycle (%):	76.4
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	2.875	112	322.0	400.0
2480	2.875	106	304.7	400.0

Table 21 - Time of Occupancy Results

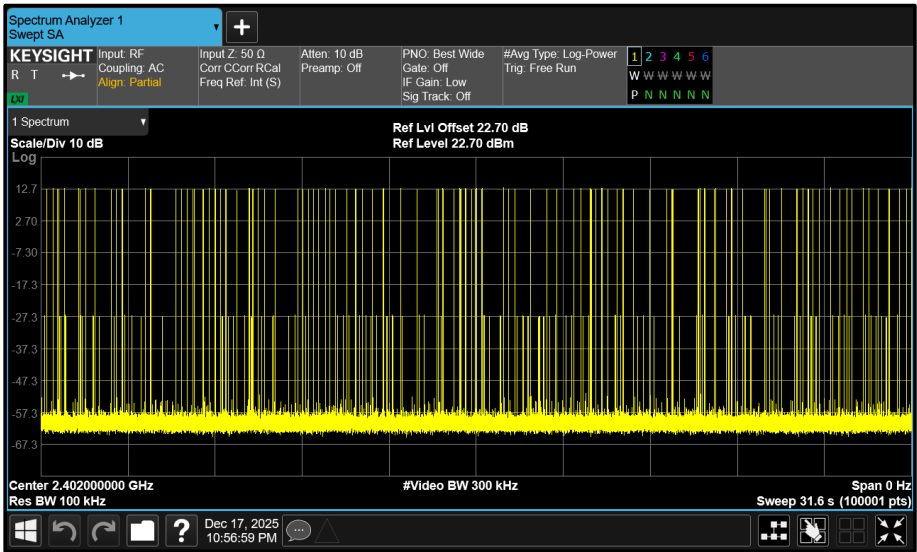


Figure 25 - GFSK - 2402 MHz Accumulated Transmit Time

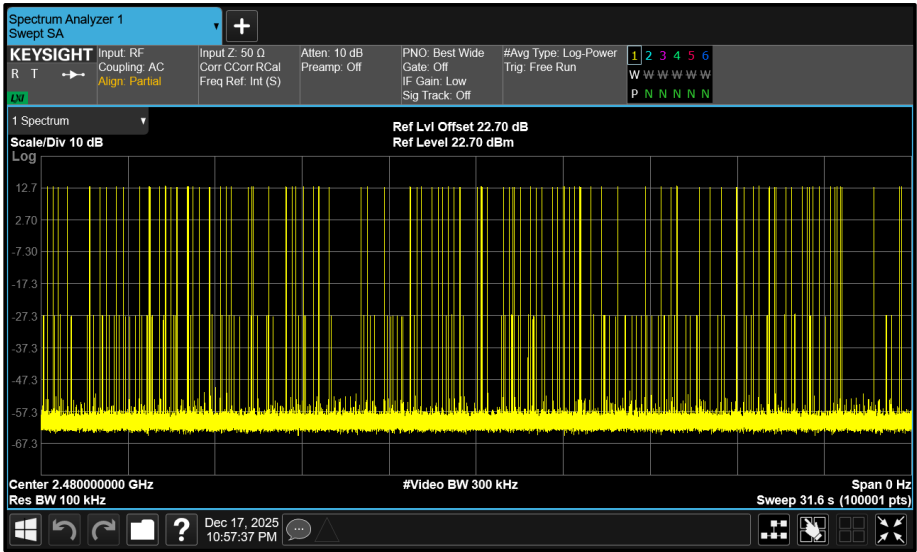


Figure 26 - GFSK - 2480 MHz Accumulated Transmit Time



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247 (a)(1)(iii) RSS-247 6.2.3.1 (b)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA GFSK (DH5)	Duty Cycle (%):	76.5
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (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	2.882	111	319.9	400.0
2480	2.882	120	345.9	400.0

Table 22 - Time of Occupancy Results



Figure 27 - GFSK - 2402 MHz Accumulated Transmit Time

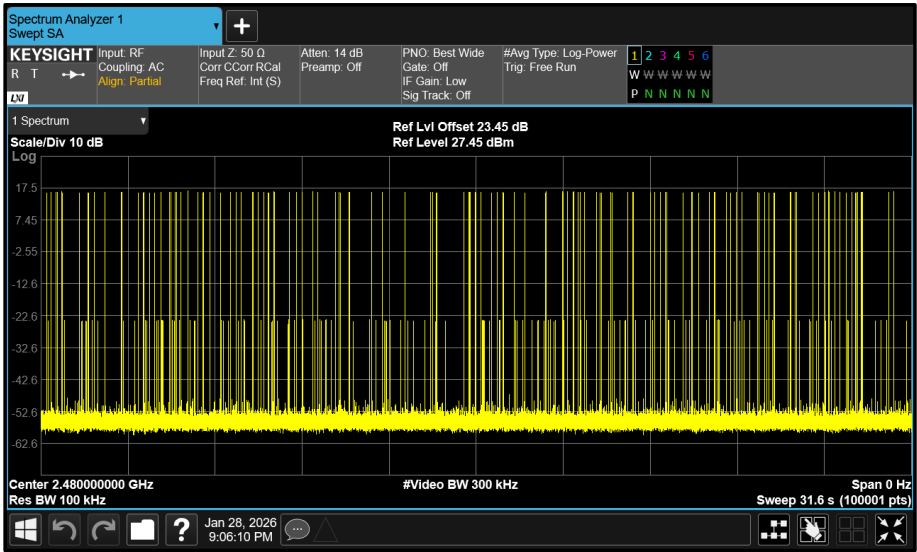


Figure 28 - GFSK - 2480 MHz Accumulated Transmit Time



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247 (a)(1)(iii) RSS-247 6.2.3.1 (b)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.4
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	2.875	115	330.6	400.0
2480	2.875	117	336.3	400.0

Table 23 - Time of Occupancy Results

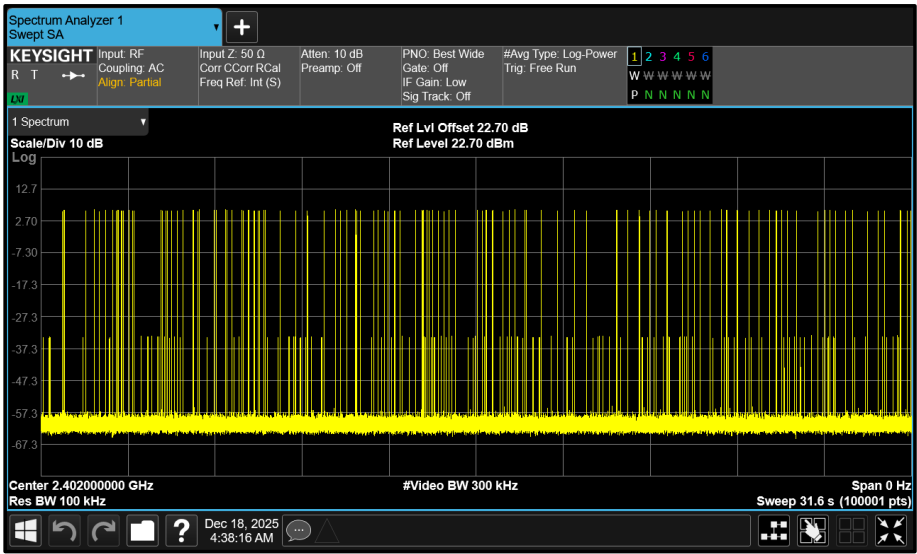


Figure 29 - GFSK - 2402 MHz Accumulated Transmit Time

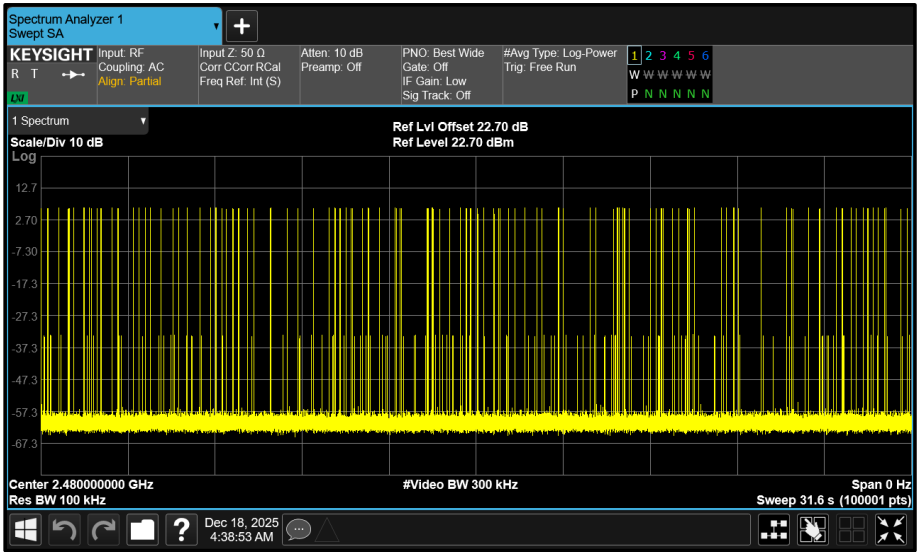


Figure 30 - GFSK - 2480 MHz Accumulated Transmit Time



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247 (a)(1)(iii) RSS-247 6.2.3.1 (b)	Test Method(s):	C63.10 7.8.4
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA GFSK (DH5)	Duty Cycle (%):	76.4
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	2.877	105	302.1	400.0
2480	2.877	108	310.8	400.0

Table 24 - Time of Occupancy Results



Figure 31 - GFSK - 2402 MHz Accumulated Transmit Time

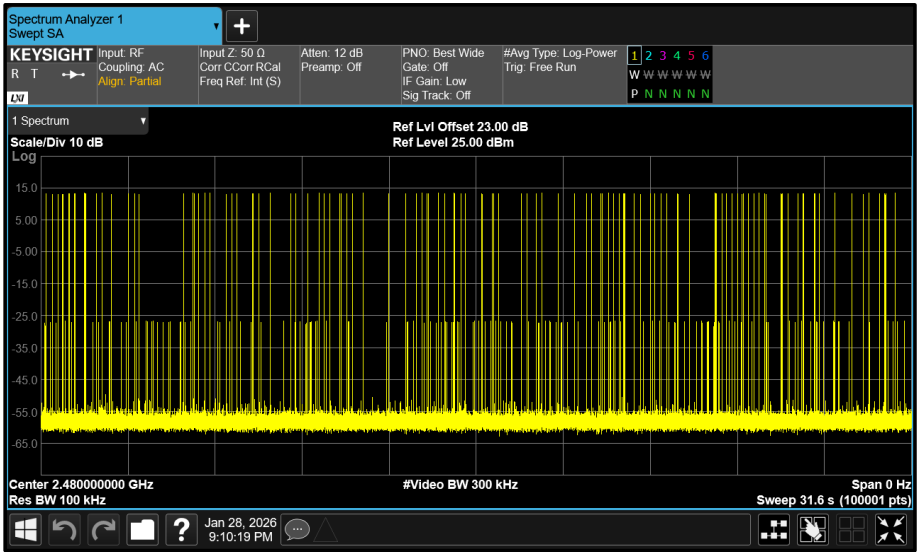


Figure 32 - GFSK - 2480 MHz Accumulated Transmit Time



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 6.2.3.1 (b)

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 Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
MXA Signal Analyzer	Keysight Technologies	N9020B	6416	24	07-May-2027
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6517	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6526	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6527	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6528	12	27-Feb-2026
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 25

O/P Mon - Output Monitored using calibrated equipment



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 6.2.3.1

2.3.2 Equipment Under Test and Modification State

A3429, S/N: CN4XJK3W6Y - Modification State 0

2.3.3 Date of Test

17-January-2026 to 28-January-2026

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	21.4 - 22.2 °C
Relative Humidity	32.6 - 42.9 %



2.3.6 Test Results

2.4 GHz Bluetooth FHSS BDR

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1) RSS-247 6.2.3.1 a)	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	0.941	2440.995	2441.996	1.0008	≥627.4

Table 26 - Carrier Frequency Separation Results

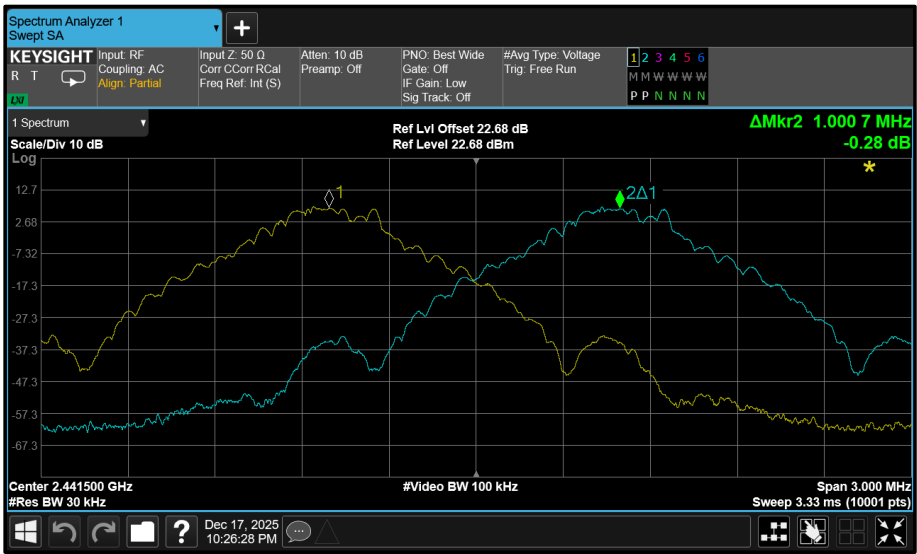


Figure 33 - GFSK - 2441 MHz (CH39)



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1) RSS-247 6.2.3.1 a)	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):	B (Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)	Carrier Frequency Separation (MHz)			Limit (kHz)
		F1C	F2C	FHS	
2441	0.940	2440.995	2441.995	0.99975	≥626.8

Table 27 - Carrier Frequency Separation Results

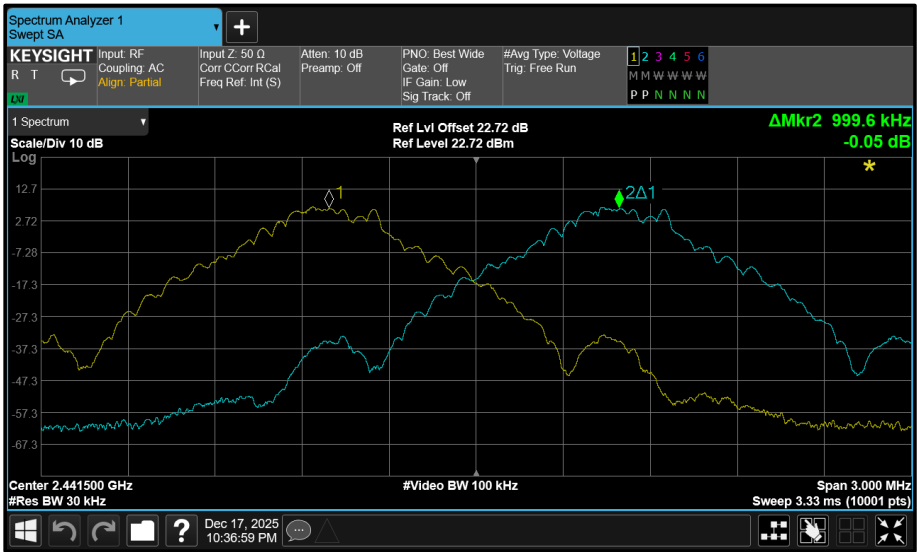


Figure 34 - GFSK - 2441 MHz (CH39)



Test Configuration					
Frequency Range:		2400-2483.5 MHz		Band:	2.4 GHz
Limit Clause(s):		FCC 15.247(a)(1) RSS-247 6.2.3.1 a)		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	0.939	2440.996	2441.995	0.9987	≥626.0

Table 28 - Carrier Frequency Separation Results

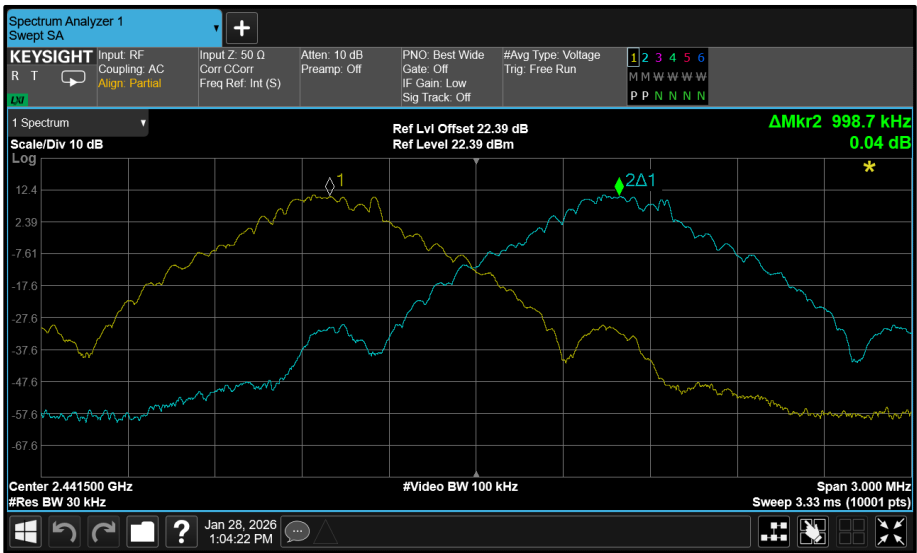


Figure 35 - GFSK - 2441 MHz (CH39)



Test Configuration					
Frequency Range:		2400-2483.5 MHz		Band:	2.4 GHz
Limit Clause(s):		FCC 15.247(a)(1) RSS-247 6.2.3.1 a)		Test Method(s):	C63.10 7.8.2
Additional Reference(s):		-			

DUT Configuration			
Mode:	ePA 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	0.943	2440.995	2441.995	0.9996	≥628.6

Table 29 - Carrier Frequency Separation Results

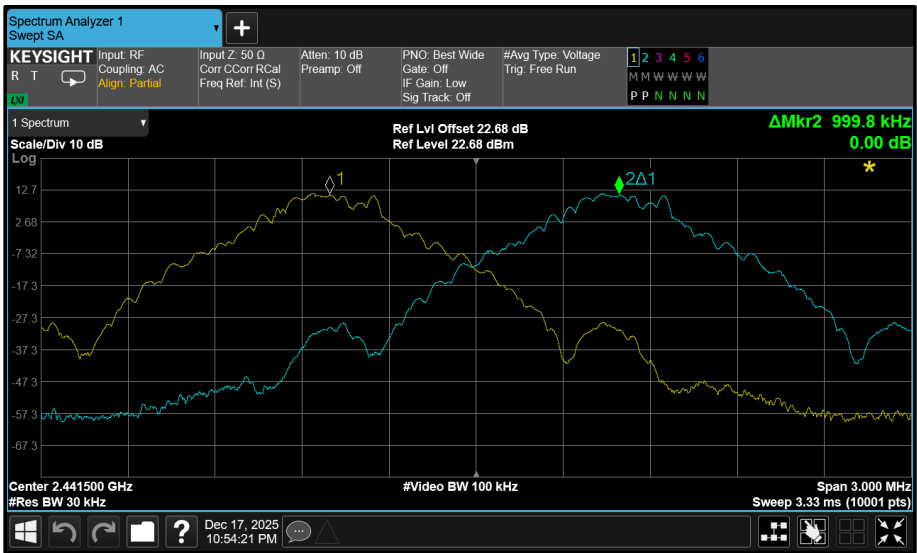


Figure 36 - GFSK - 2441 MHz (CH39)



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1) RSS-247 6.2.3.1 a)	Test Method(s):	C63.10 7.8.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)	Carrier Frequency Separation (MHz)			Limit (kHz)
		F1C	F2C	FHS	
2441	0.940	2440.997	2441.997	1.0002	≥626.6

Table 30 - Carrier Frequency Separation Results

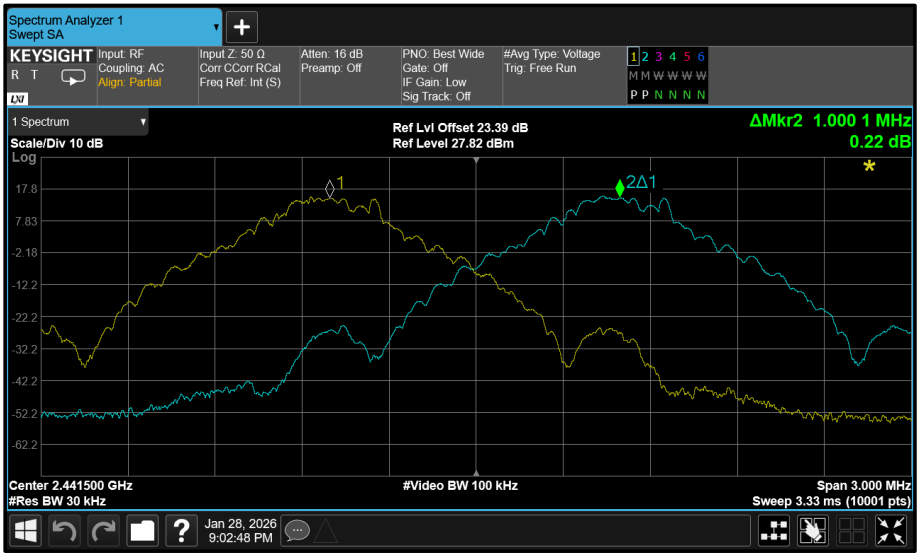


Figure 37 - GFSK - 2441 MHz (CH39)



Test Configuration					
Frequency Range:		2400-2483.5 MHz		Band:	2.4 GHz
Limit Clause(s):		FCC 15.247(a)(1) RSS-247 6.2.3.1 a)		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	0.944	2440.995	2441.996	1.00065	≥629.0

Table 31 - Carrier Frequency Separation Results

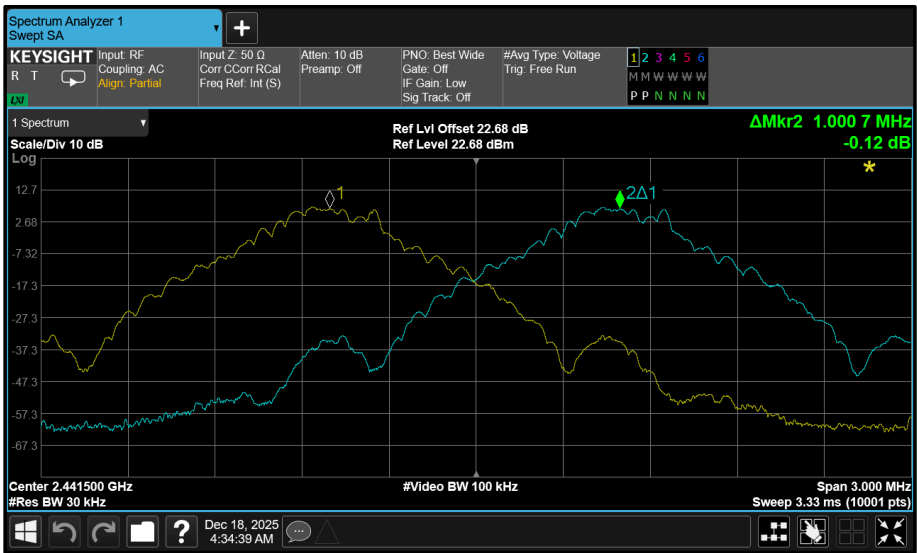


Figure 38 - GFSK - 2441 MHz (CH39)



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1) RSS-247 6.2.3.1 a)	Test Method(s):	C63.10 7.8.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA 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	0.942	2440.997	2441.997	1.00005	≥628.0

Table 32 - Carrier Frequency Separation Results

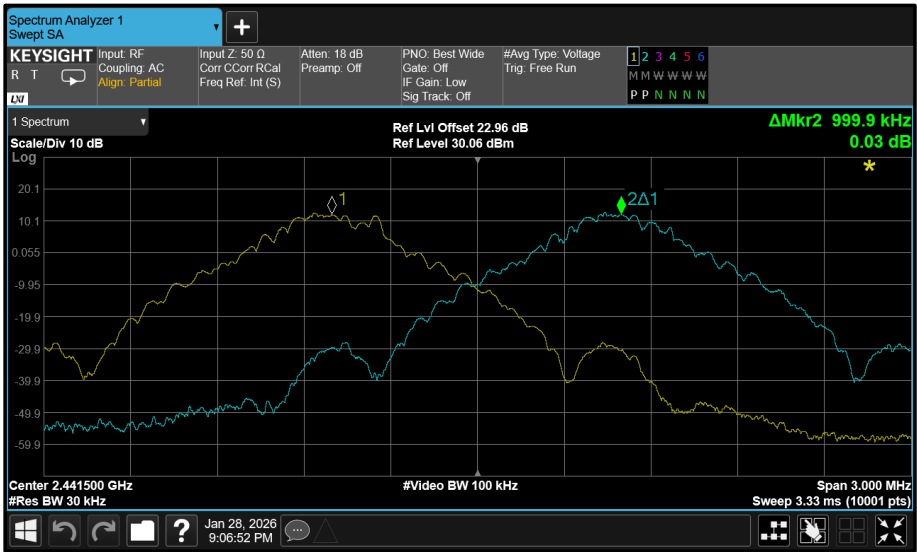


Figure 39 - GFSK - 2441 MHz (CH39)



2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 14

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
MXA Signal Analyzer	Keysight Technologies	N9020B	6416	24	07-May-2027
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6517	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6526	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6527	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6528	12	27-Feb-2026
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 33

O/P Mon - Output Monitored using calibrated equipment



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 6.2.3.1

2.4.2 Equipment Under Test and Modification State

A3429, S/N: CN4XJK3W6Y - Modification State 0

2.4.3 Date of Test

17-January-2026 to 28-January-2026

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	21.4 - 22.2 °C
Relative Humidity	39.6 - 42.9 %



2.4.6 Test Results

2.4 GHz Bluetooth FHSS BDR

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 6.3.2.1 b)	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 34 - Number of Hopping Frequencies Results

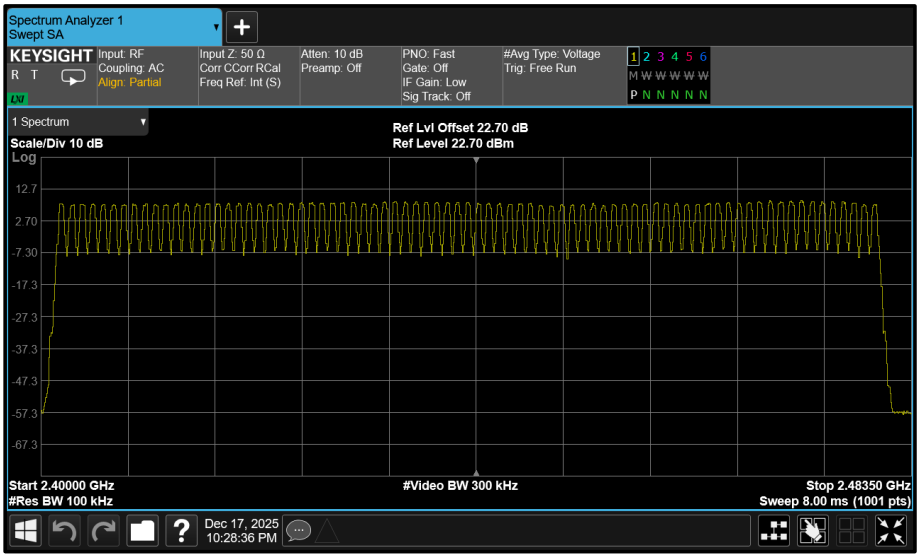


Figure 40 - GFSK (DH5) - Number of Hopping Channels



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 6.3.2.1 b)	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):	B (Core 1)	Peak Antenna Gain (dBi):	-

Number of Hopping Frequencies		Limit
79		≥15.0

Table 35 - Number of Hopping Frequencies Results

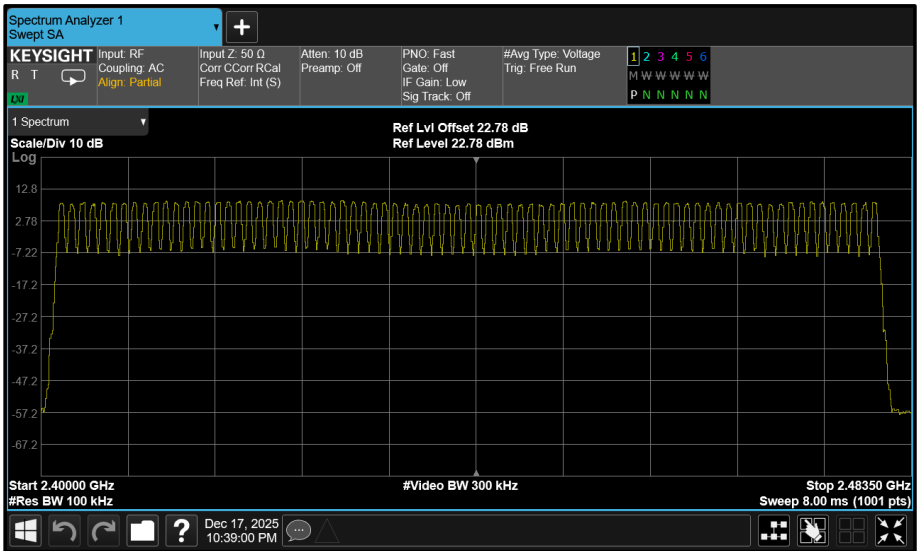


Figure 41 - GFSK (DH5) - Number of Hopping Channels



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 6.3.2.1 b)	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 36 - Number of Hopping Frequencies Results

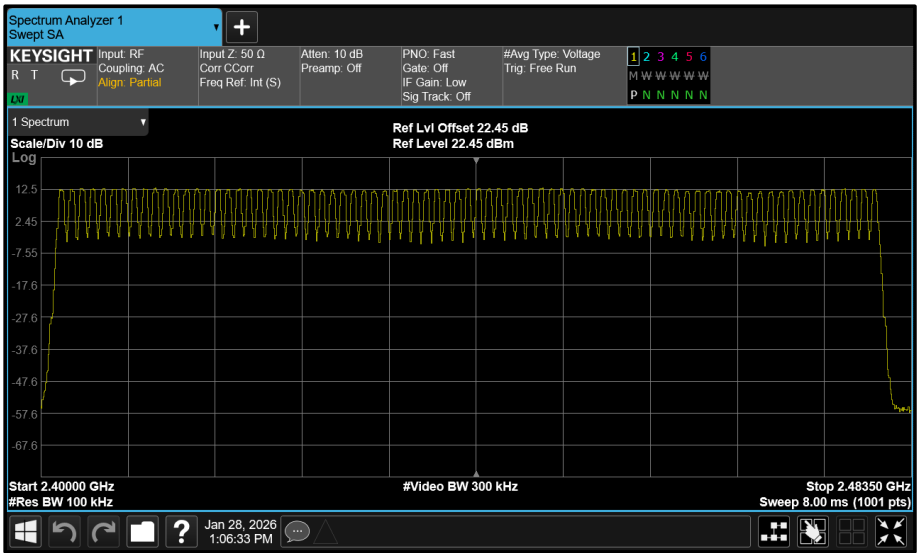


Figure 42 - GFSK (DH5) - Number of Hopping Channels



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 6.3.2.1 b)	Test Method(s):	C63.10 7.8.3
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA 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 37 - Number of Hopping Frequencies Results

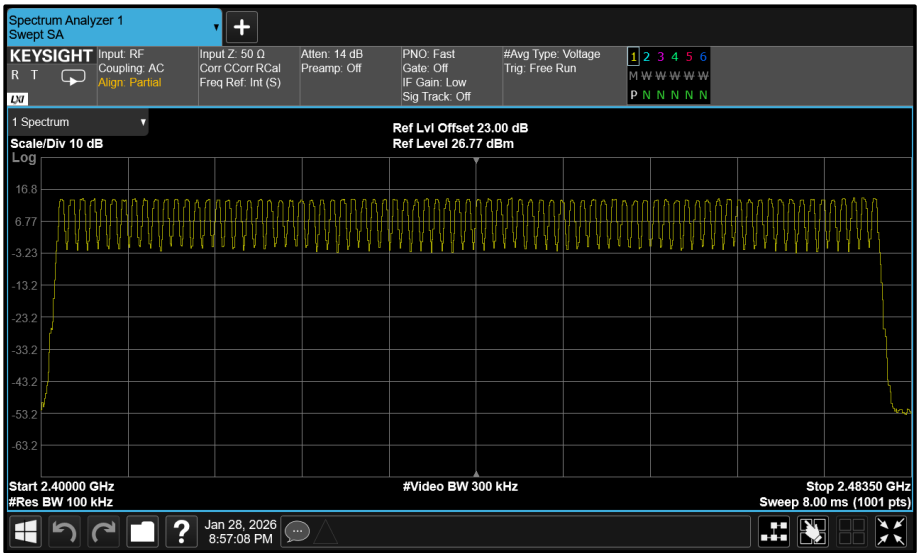


Figure 43 - GFSK (DH5) - Number of Hopping Channels



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 6.3.2.1 b)	Test Method(s):	C63.10 7.8.3
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA GFSK (DH5)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	-

Number of Hopping Frequencies		Limit
79		≥15.0

Table 38 - Number of Hopping Frequencies Results

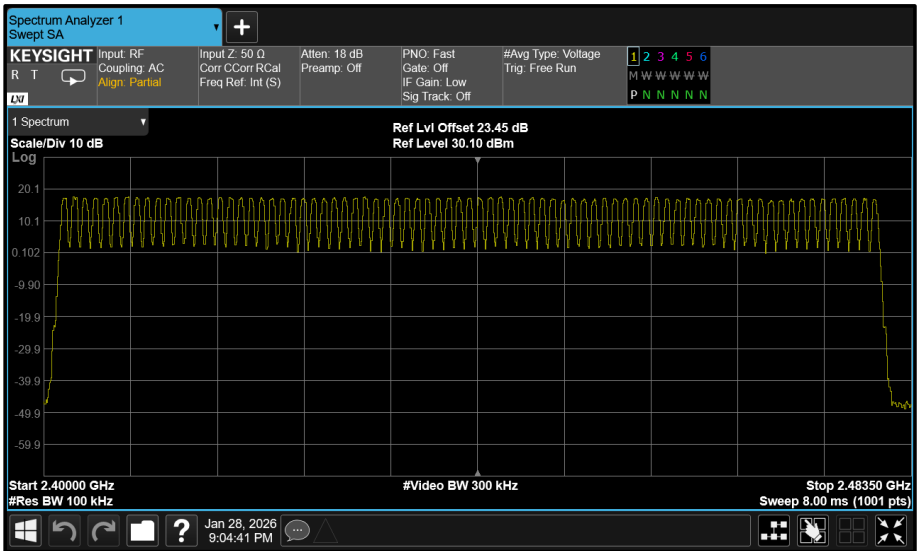


Figure 44 - GFSK (DH5) - Number of Hopping Channels



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 6.3.2.1 b)	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 39 - Number of Hopping Frequencies Results

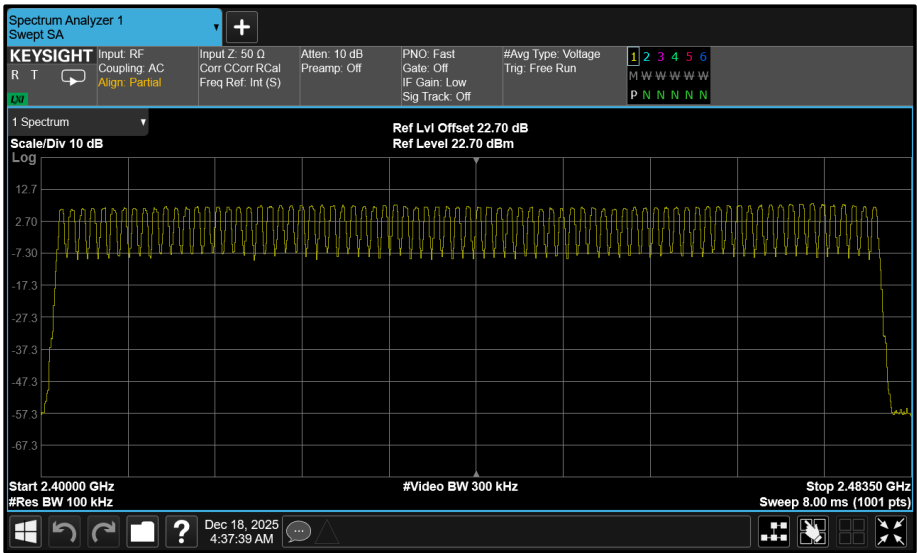


Figure 45 - GFSK (DH5) - Number of Hopping Channels



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	FCC 15.247(a)(1)(iii) RSS-247 6.3.2.1 b)	Test Method(s):	C63.10 7.8.3
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA 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 40 - Number of Hopping Frequencies Results

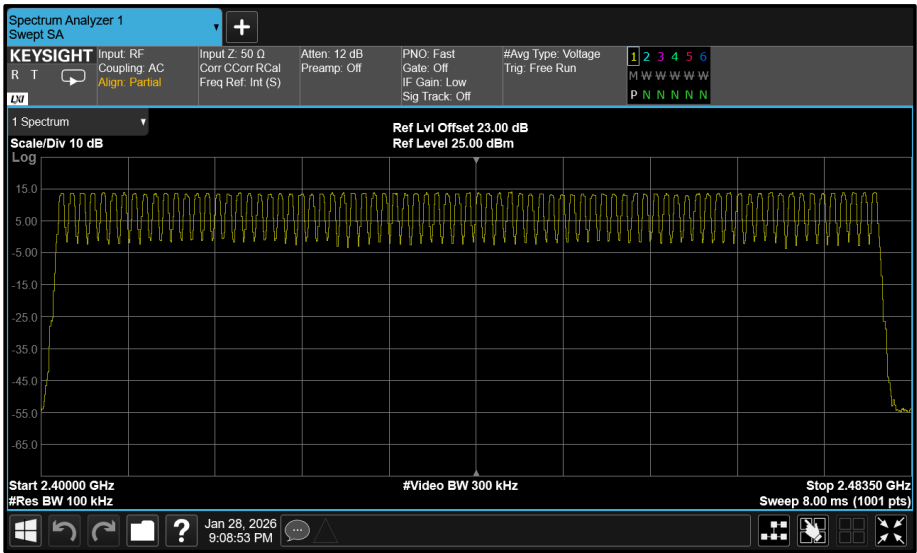


Figure 46 - GFSK (DH5) - Number of Hopping Channels

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 Laboratory 14

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
MXA Signal Analyzer	Keysight Technologies	N9020B	6416	24	07-May-2027
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6517	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6526	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6527	12	27-Feb-2026
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6528	12	27-Feb-2026
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 41

O/P Mon - Output Monitored using calibrated equipment



2.5 Frequency Hopping Systems - 20 dB Bandwidth

2.5.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (a)(1)
ISED RSS-247, Clause 6.2.3.1
ISED RSS-GEN, Clause 6.7

2.5.2 Equipment Under Test and Modification State

A3429, S/N: CN4XJK3W6Y - Modification State 0

2.5.3 Date of Test

17-January-2026 to 28-January-2026

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	21.4 - 22.2 °C
Relative Humidity	39.6 - 42.9 %



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 6.2.3	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)			
	A	B	C	D
2402	0.891	-	-	-
2441	0.894	-	-	-
2480	0.891	-	-	-

Table 42 - 20 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	0.825	-	-	-	-
2441	0.831	-	-	-	-
2480	0.822	-	-	-	-

Table 43 - 99% Bandwidth Results

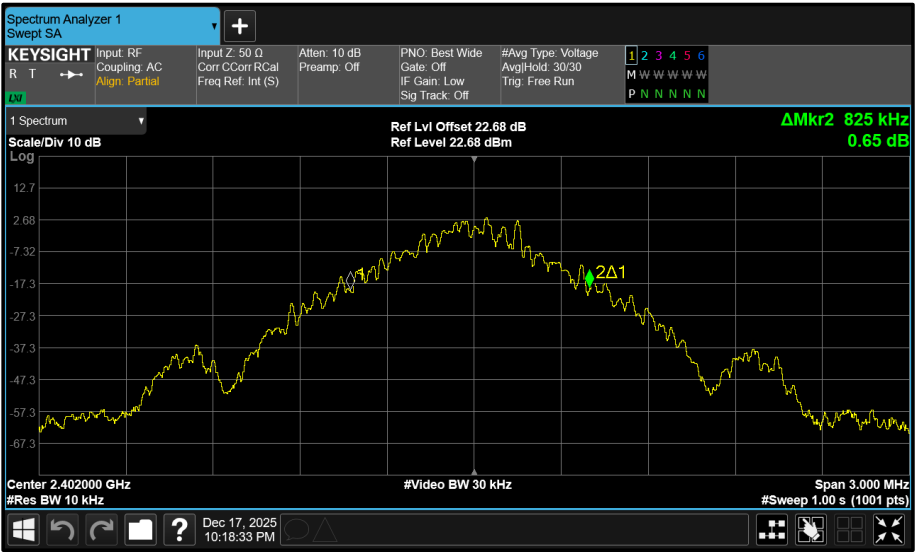


Figure 47 - Core 0 (A) 2402 MHz (CH0) 99% Bandwidth

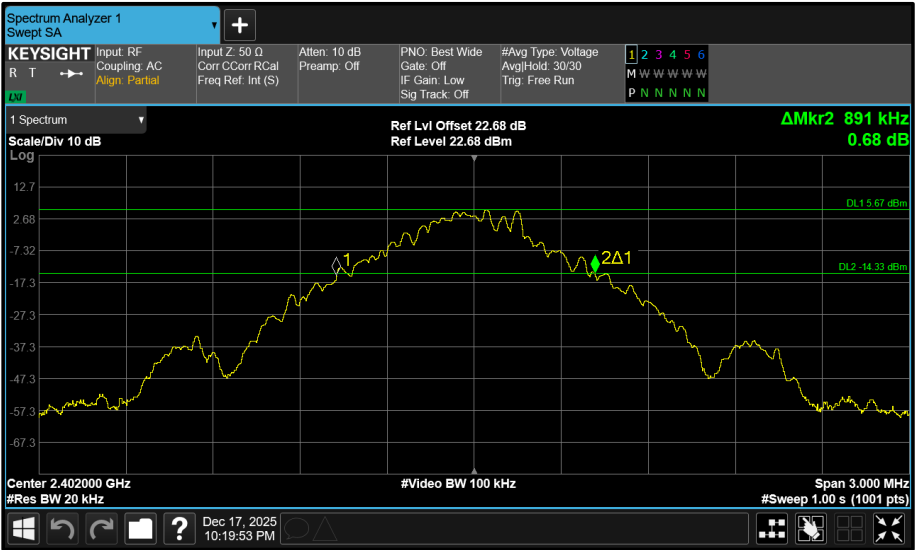


Figure 48 - Core 0 (A) 2402 MHz (CH0) 20 dB Bandwidth

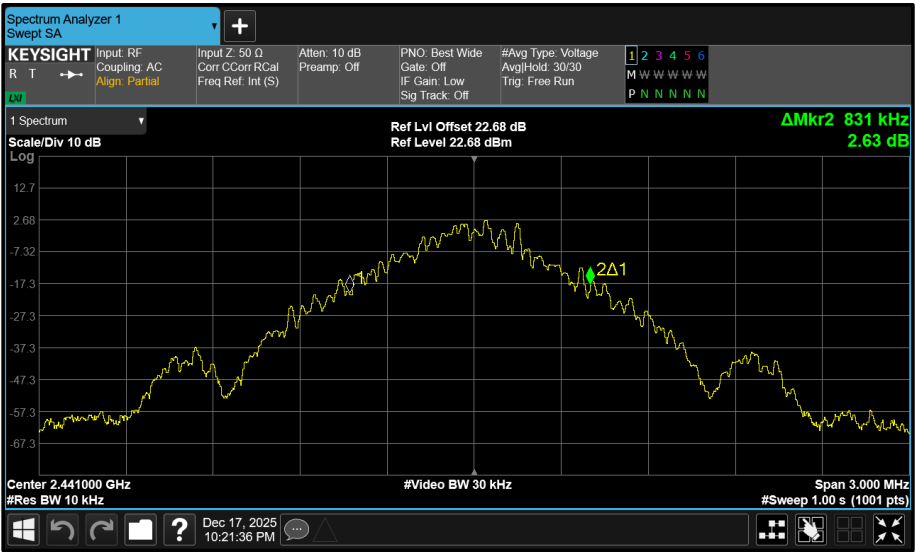


Figure 49 - Core 0 (A) 2441 MHz (CH39) 99% Bandwidth

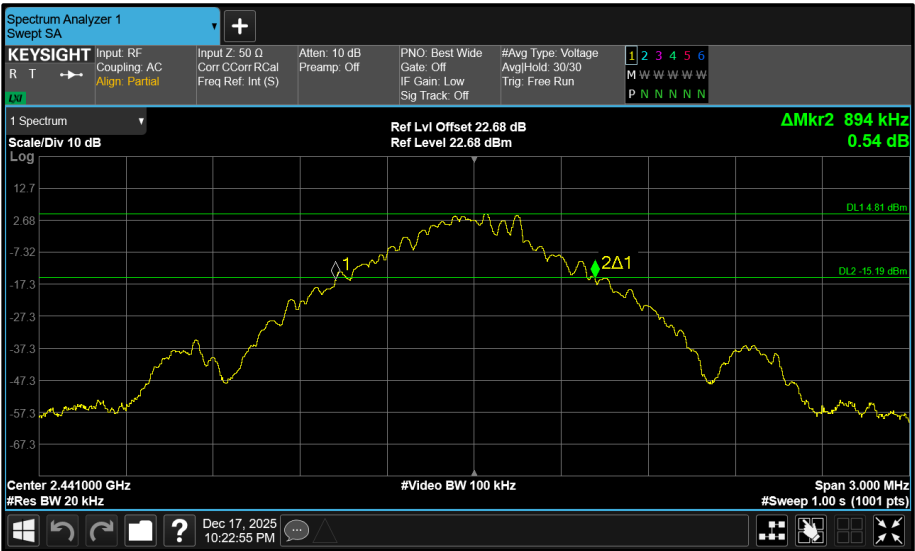


Figure 50 - Core 0 (A) 2441 MHz (CH39) 20 dB Bandwidth





Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(1) RSS-247 6.2.3	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):	B (Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)			
	A	B	C	D
2402	-	0.891	-	-
2441	-	0.894	-	-
2480	-	0.891	-	-

Table 44 - 20 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	-	0.825	-	-	-
2441	-	0.831	-	-	-
2480	-	0.825	-	-	-

Table 45 - 99% Bandwidth Results

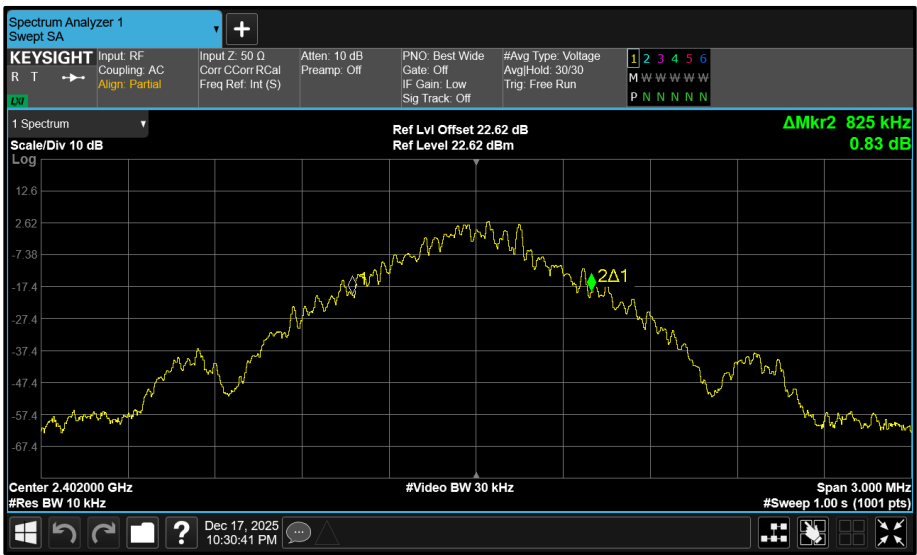


Figure 53 - Core 1 (B) 2402 MHz (CH0) 99% Bandwidth

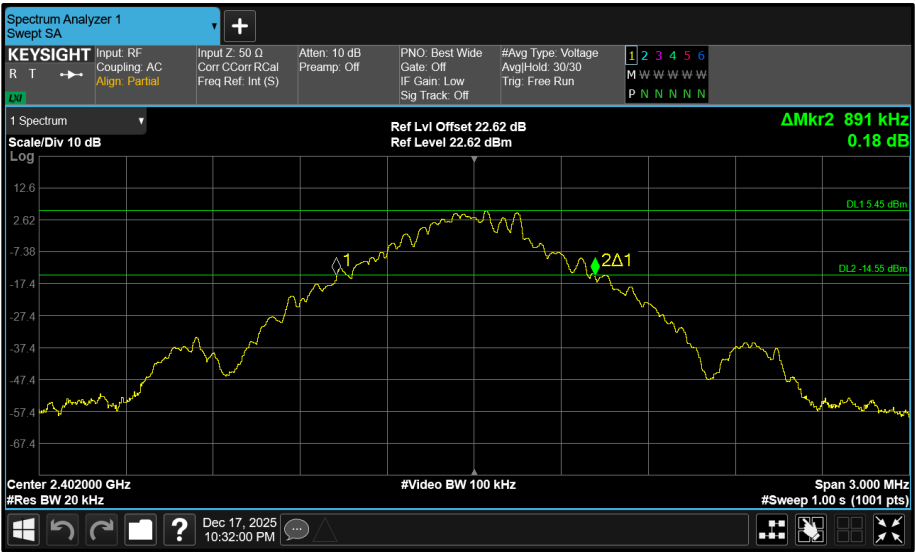


Figure 54 - Core 1 (B) 2402 MHz (CH0) 20 dB Bandwidth

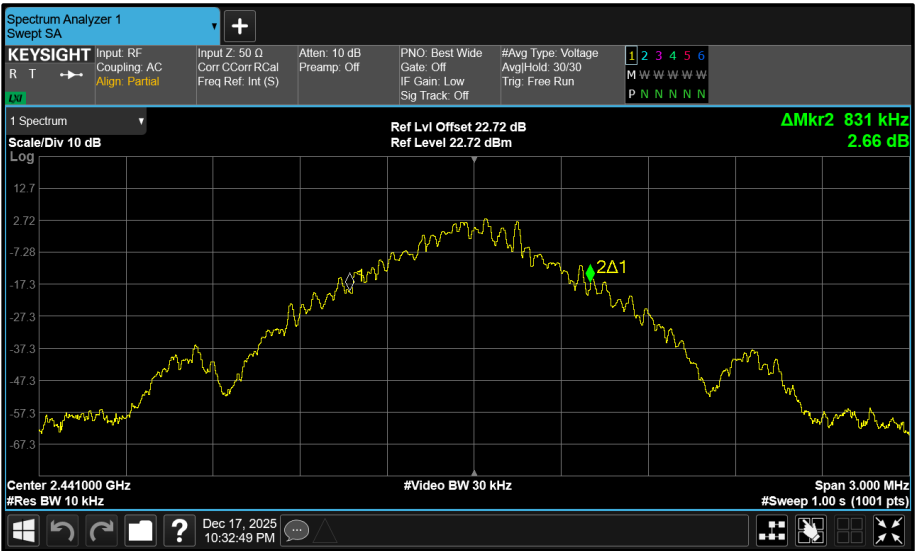


Figure 55 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

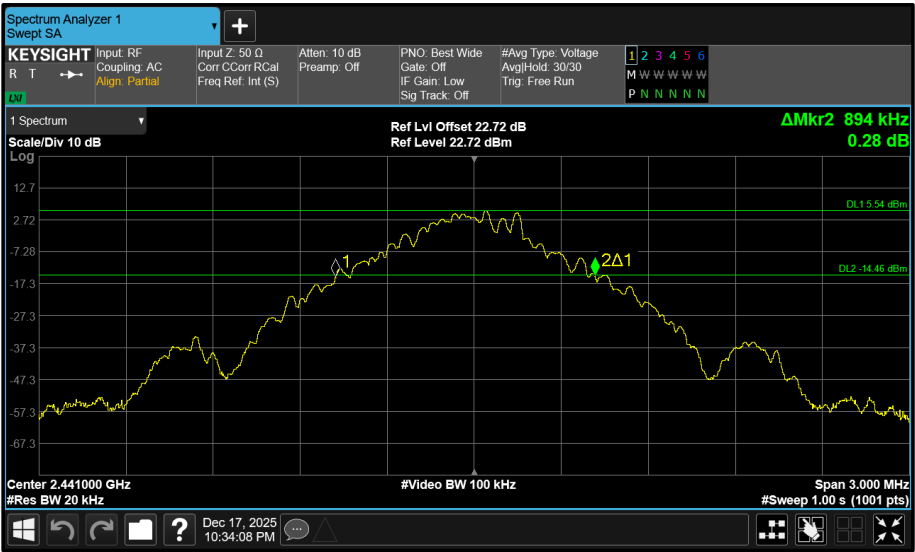


Figure 56 - Core 1 (B) 2441 MHz (CH39) 20 dB Bandwidth

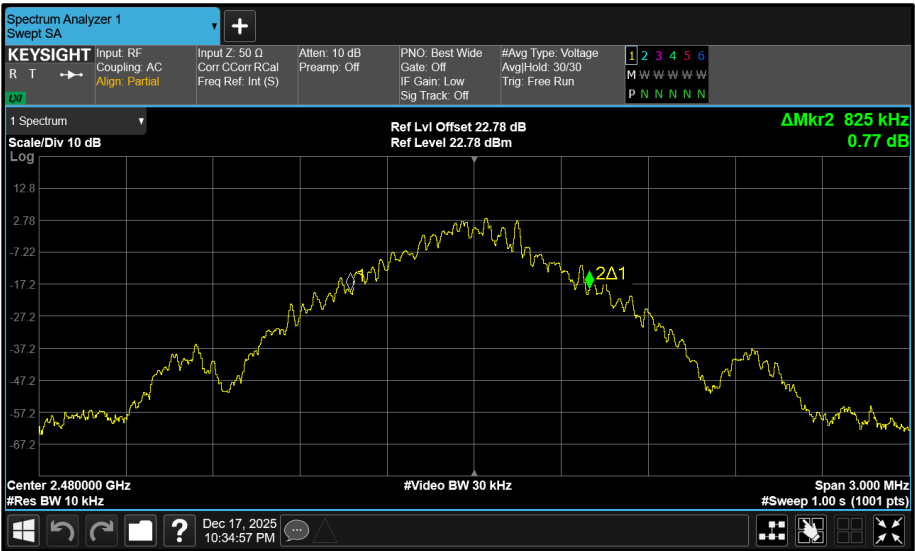


Figure 57 - Core 1 (B) 2480 MHz (CH78) 99% Bandwidth





Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(1) RSS-247 6.2.3	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)			
	A	B	C	D
2402	-	-	0.891	-
2441	-	-	0.891	-
2480	-	-	0.891	-

Table 46 - 20 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	-	-	0.831	-	-
2441	-	-	0.828	-	-
2480	-	-	0.828	-	-

Table 47 - 99% Bandwidth Results

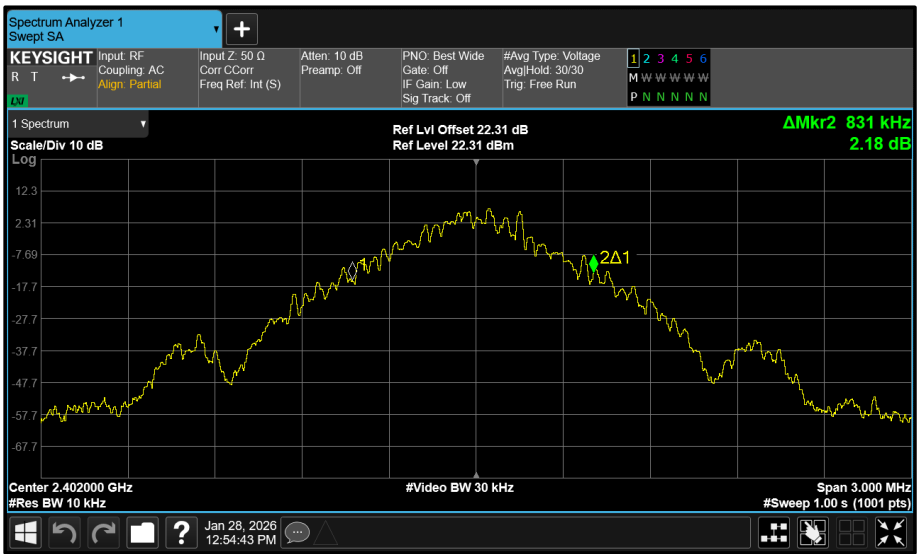


Figure 59 - Core 2 (C) 2402 MHz (CH0) 99% Bandwidth

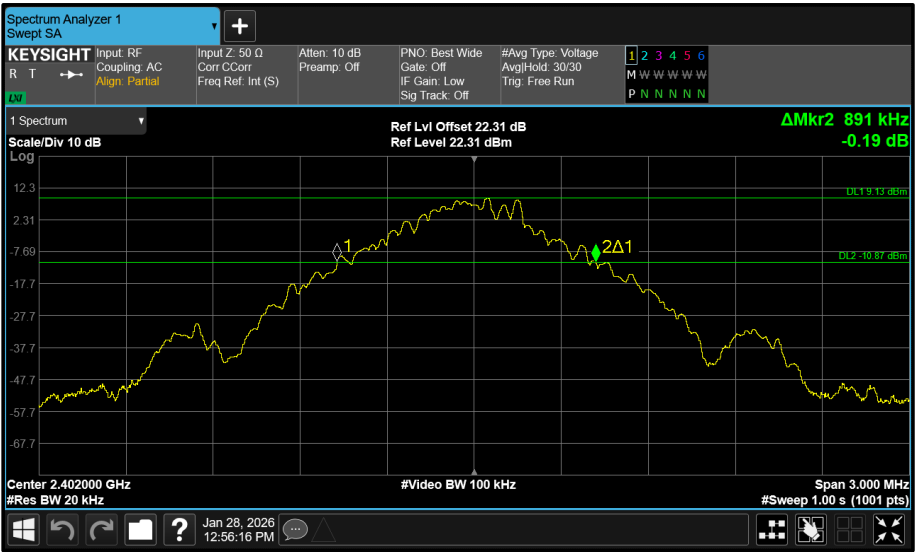


Figure 60 - Core 2 (C) 2402 MHz (CH0) 20 dB Bandwidth

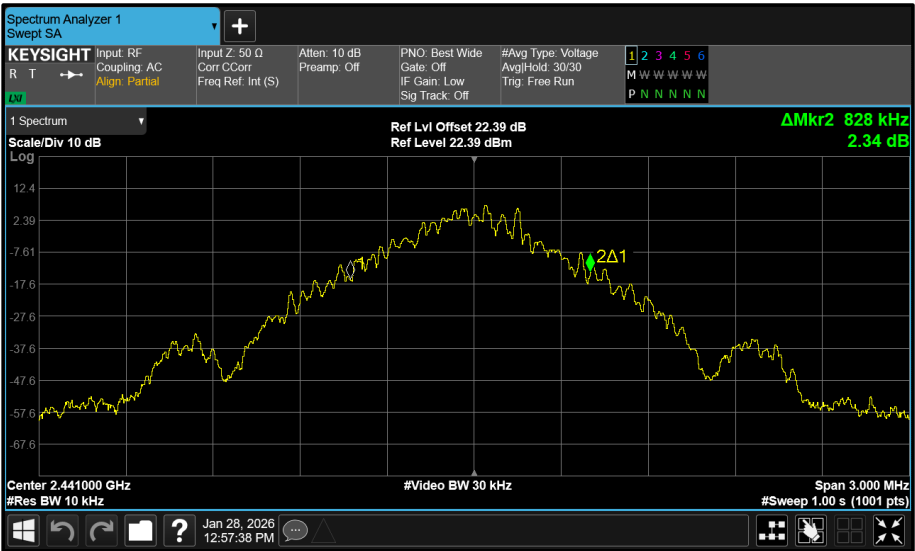


Figure 61 - Core 2 (C) 2441 MHz (CH39) 99% Bandwidth

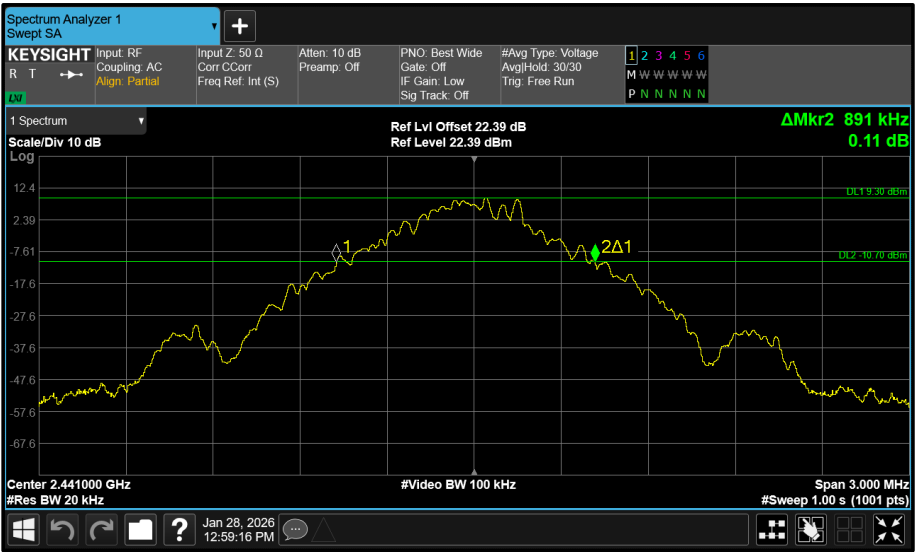


Figure 62 - Core 2 (C) 2441 MHz (CH39) 20 dB Bandwidth

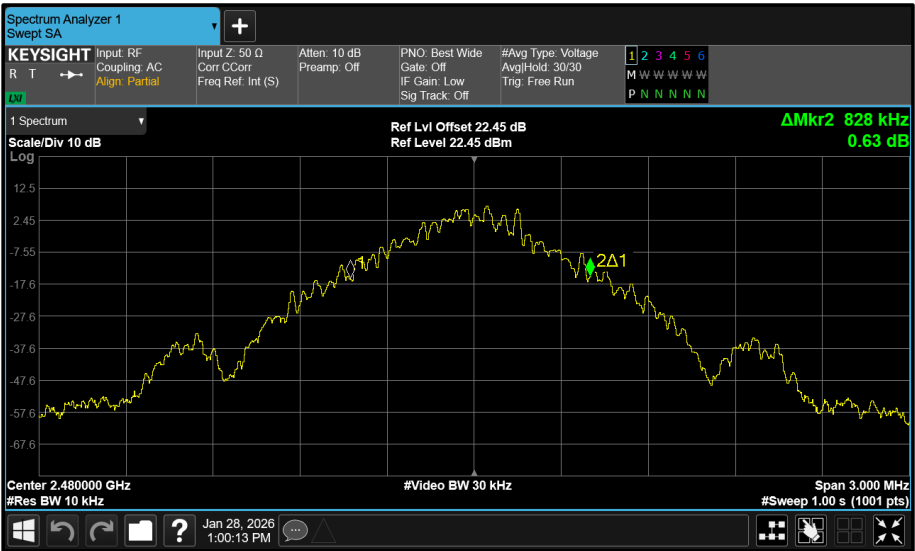


Figure 63 - Core 2 (C) 2480 MHz (CH78) 99% Bandwidth

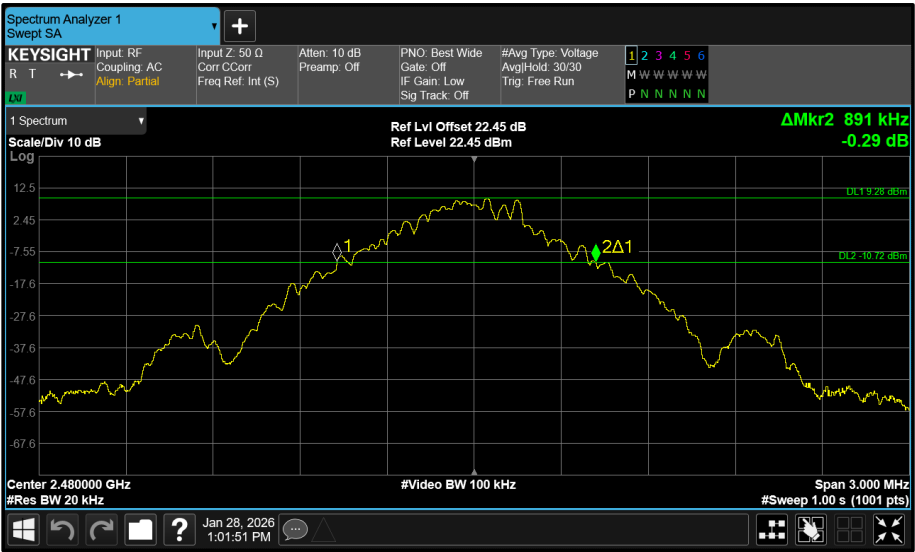


Figure 64 - Core 2 (C) 2480 MHz (CH78) 20 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(1) RSS-247 6.2.3	Test Method(s):	C63.10 6.9.3 C63.10 6.9.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA 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)			
	A	B	C	D
2402	0.888	-	-	-
2441	0.891	-	-	-
2480	0.888	-	-	-

Table 48 - 20 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	0.828	-	-	-	-
2441	0.828	-	-	-	-
2480	0.825	-	-	-	-

Table 49 - 99% Bandwidth Results

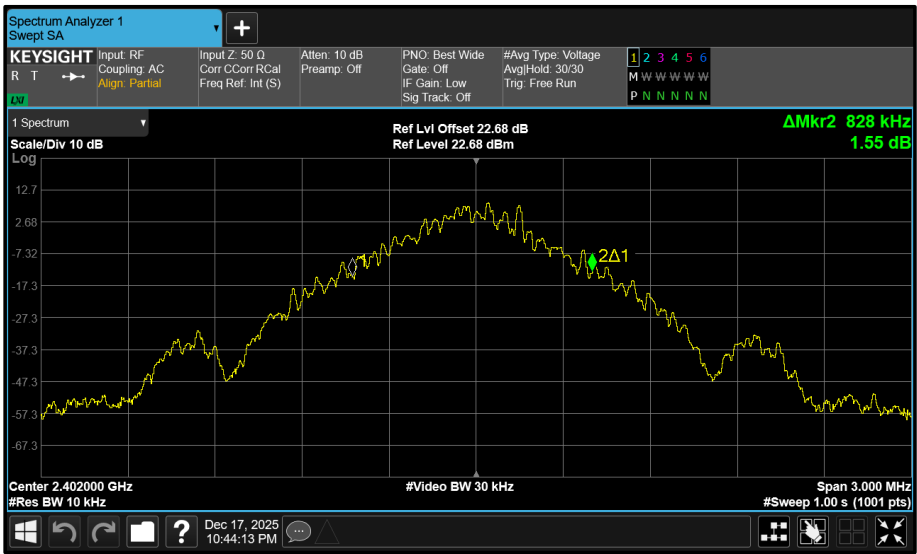


Figure 65 - Core 0 (A) 2402 MHz (CH0) 99% Bandwidth

