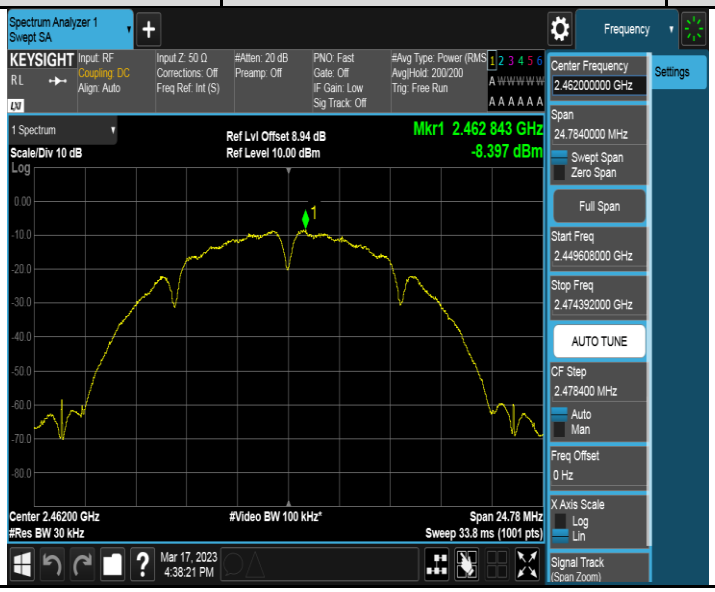
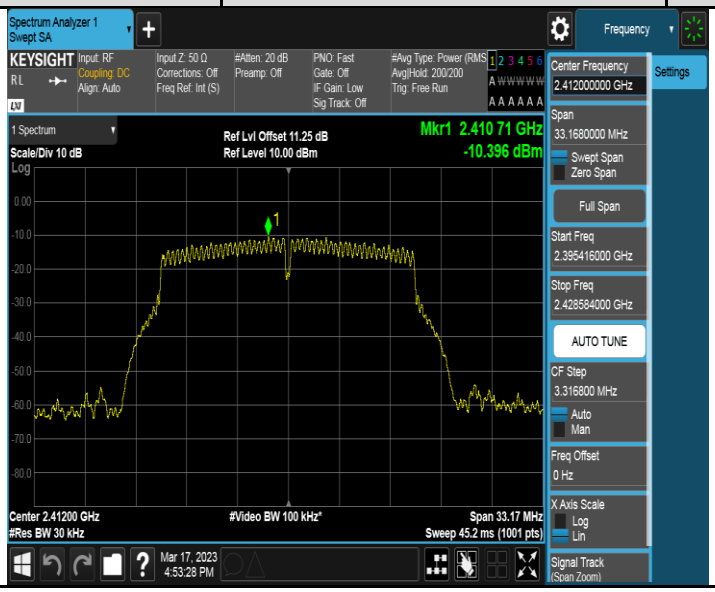
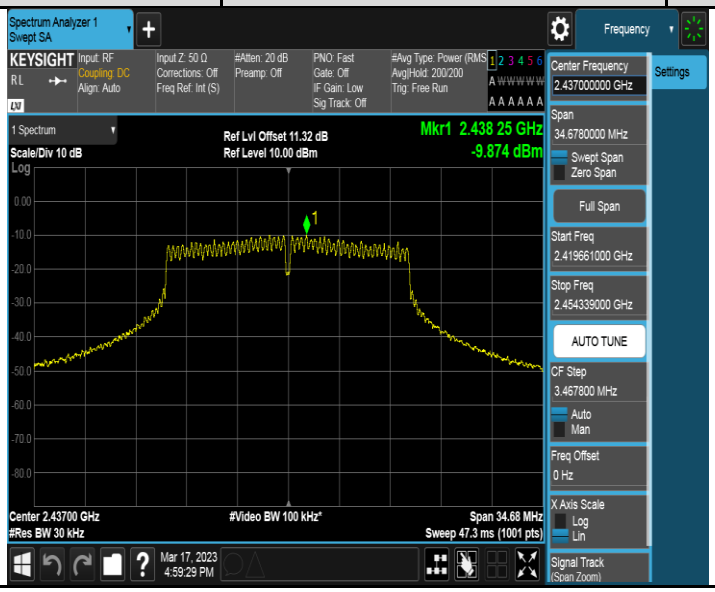
Test Mode	Test Channel	Verdict
11B	HCH	PASS



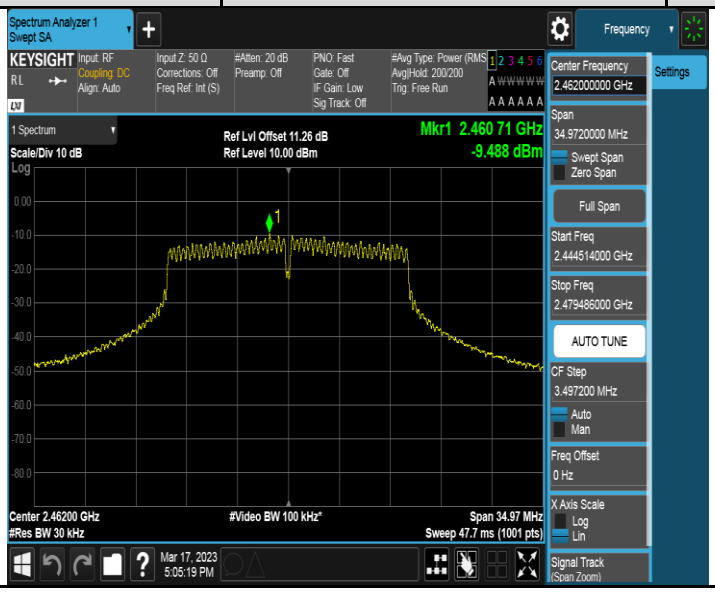
Test Mode	Test Channel	Verdict
11G	LCH	PASS



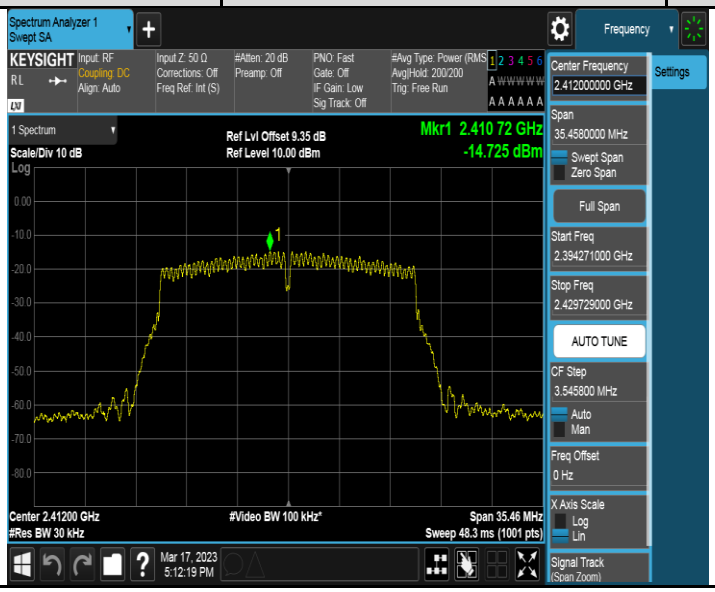
Test Mode	Test Channel	Verdict
11G	MCH	PASS



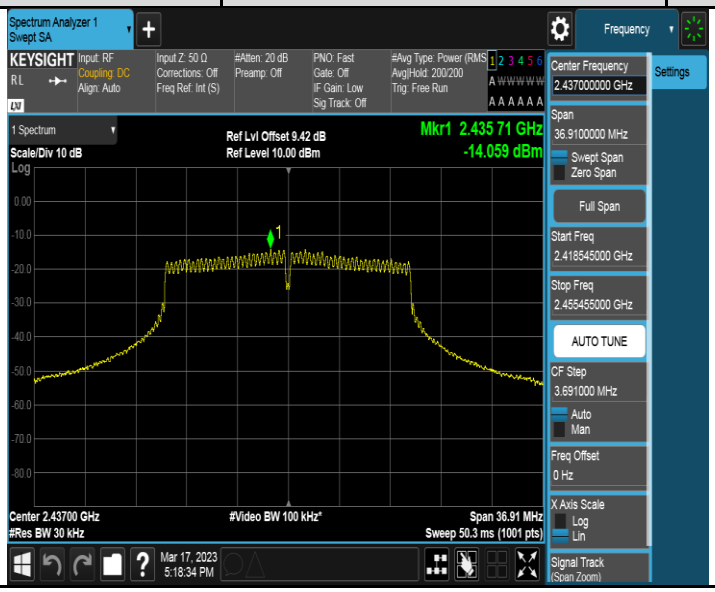
Test Mode	Test Channel	Verdict
11G	HCH	PASS



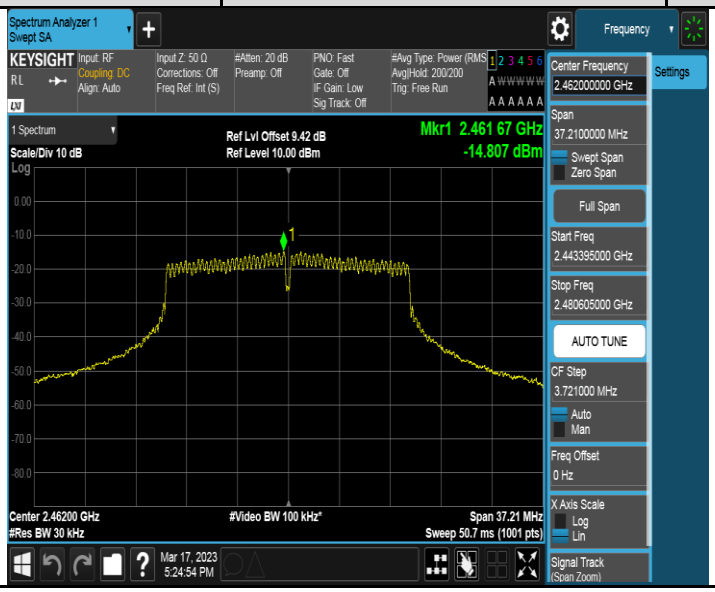
Test Mode	Test Channel	Verdict
11N HT20	LCH	PASS



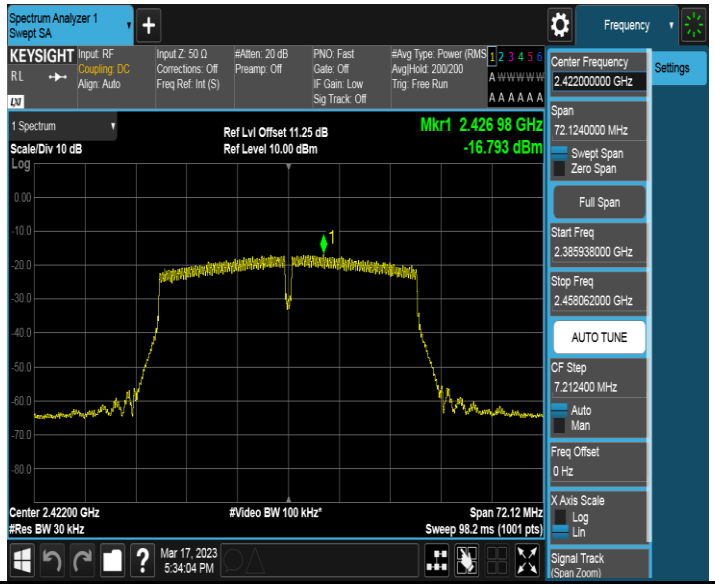
Test Mode	Test Channel	Verdict
11N HT20	MCH	PASS



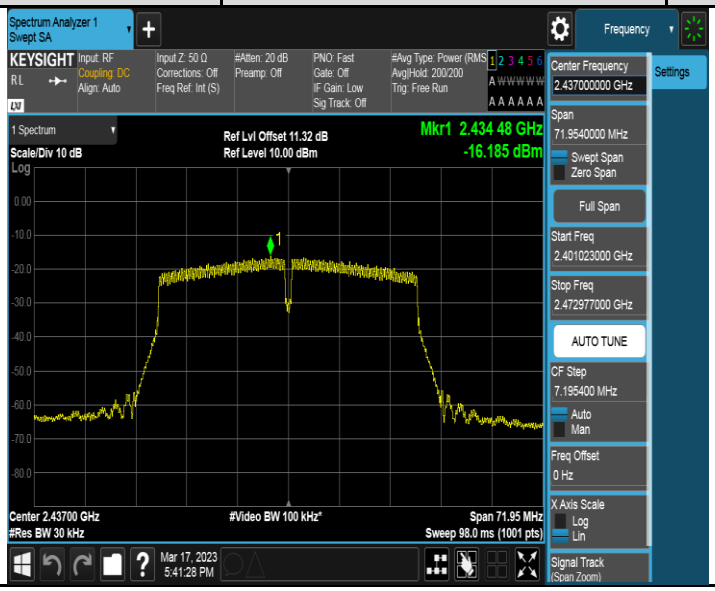
Test Mode	Test Channel	Verdict
11N HT20	HCH	PASS



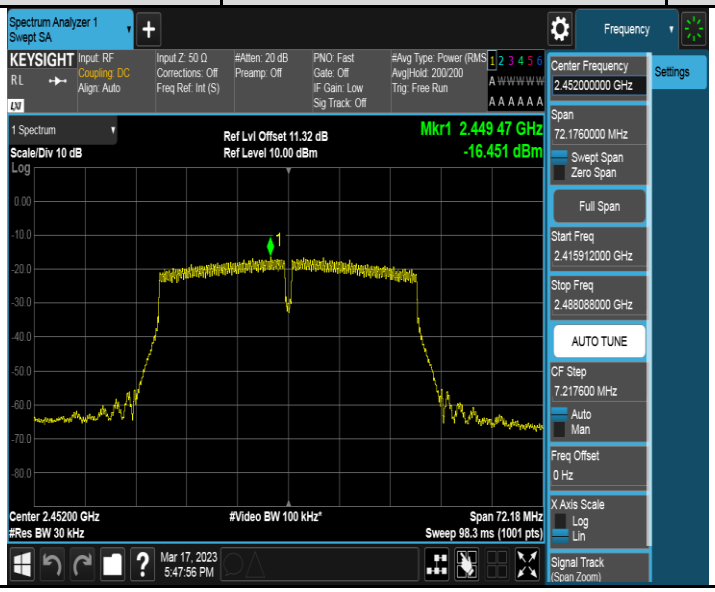
Test Mode	Test Channel	Verdict
11N HT40	LCH	PASS



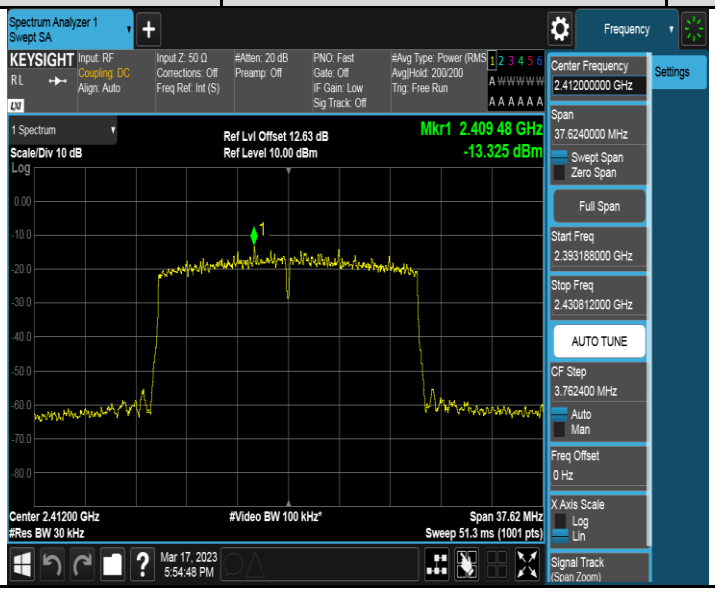
Test Mode	Test Channel	Verdict
11N HT40	MCH	PASS



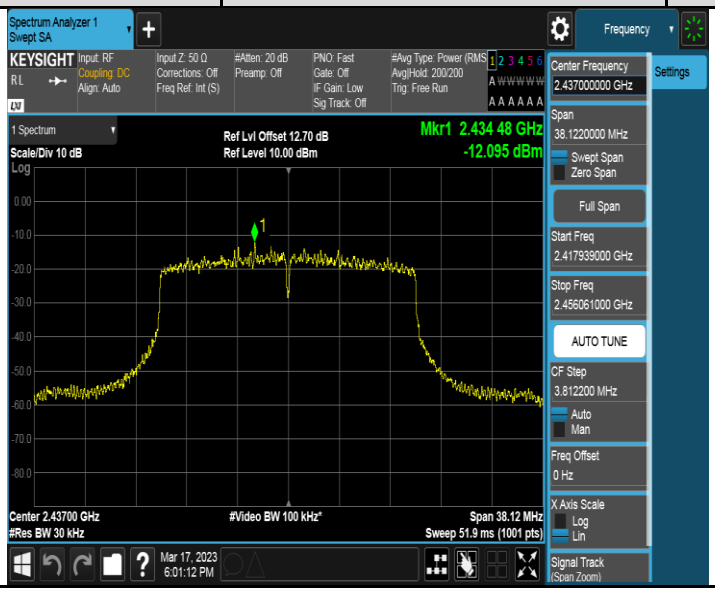
Test Mode	Test Channel	Verdict
11N HT40	HCH	PASS



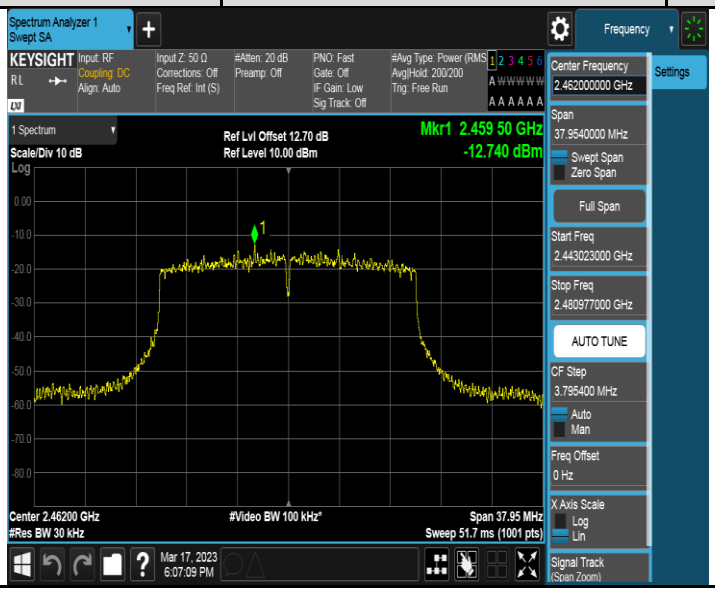
Test Mode	Test Channel	Verdict
11AX20	LCH	PASS



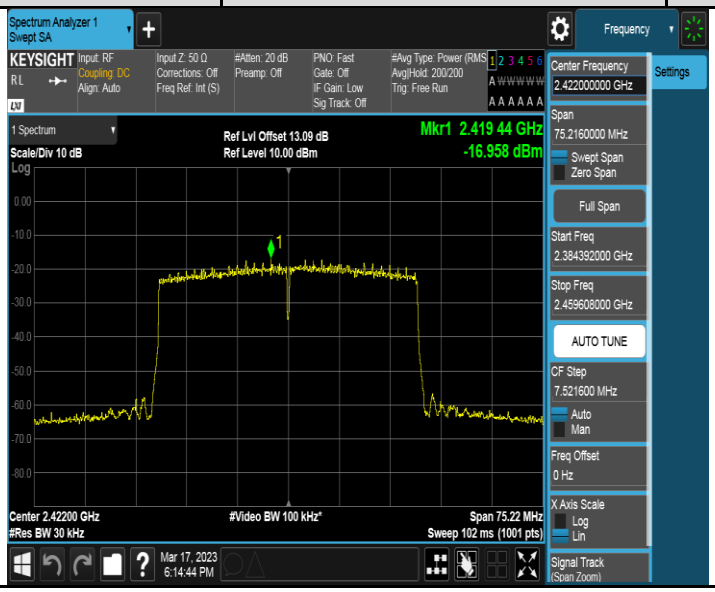
Test Mode	Test Channel	Verdict
11AX20	MCH	PASS



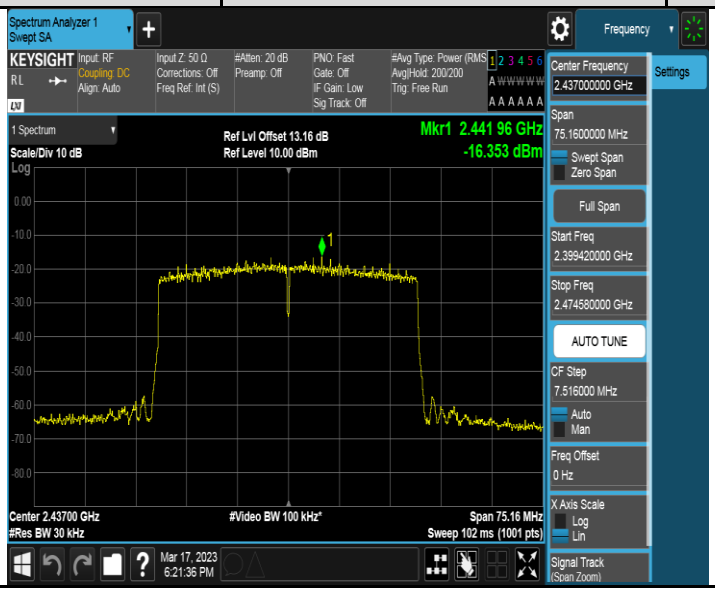
Test Mode	Test Channel	Verdict
11AX20	HCH	PASS



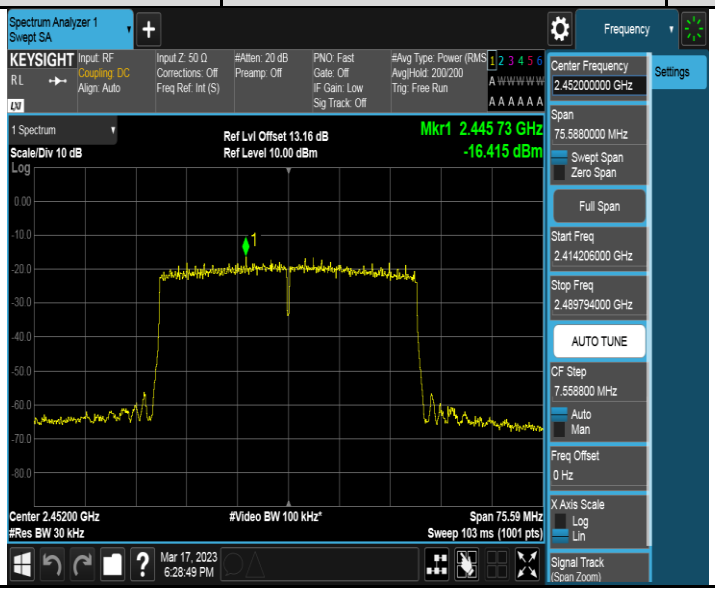
Test Mode	Test Channel	Verdict
11AX40	LCH	PASS



Test Mode	Test Channel	Verdict
11AX40	MCH	PASS



Test Mode	Test Channel	Verdict
11AX40	HCH	PASS



7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247) Subpart C, RSS-247		
Section	Test Item	Limit
FCC §15.247 (d) RSS-247 Clause 5.5 RSS-GEN Clause 6.13	Conducted Bandedge and Spurious Emissions	30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

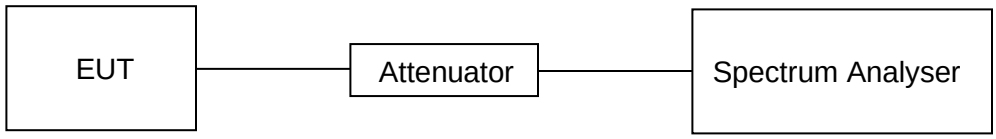
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	⩾3 × RBW
measurement points	⩾span/RBW
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level**.**

TEST SETUP



TEST ENVIRONMENT

Temperature	24.2℃	Relative Humidity	52.5%
Atmosphere Pressure	102.1kpa	Test Voltage	DC5V

PART 1: REFERENCE LEVEL MEASUREMENT

TEST RESULTS TABLE

Test Mode	Test Antenna	Channel	Pref(dBm)	Puw(dBm)	Verdict
11B	Antenna 1	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
	Antenna 2	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
11G	Antenna 1	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
	Antenna 2	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
11N20 MIMO	Antenna 1	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
	Antenna 2	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
11N40 MIMO	Antenna 1	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
	Antenna 2	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
11AX20 MIMO	Antenna 1	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
	Antenna 2	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
11AX40	Antenna 1	LCH	See the test graphs	<Limit	PASS
		MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS
		LCH	See the test graphs	<Limit	PASS

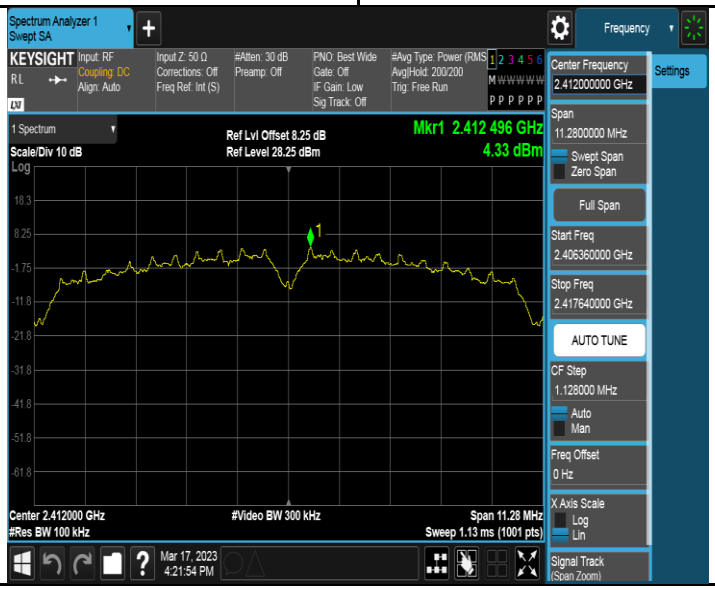
Test Mode	Test Antenna	Channel	Pref(dBm)	Puw(dBm)	Verdict
MIMO	Antenna 2	MCH	See the test graphs	<Limit	PASS
		HCH	See the test graphs	<Limit	PASS

Remark: For this product, it has five antennas, but only three antennas for WF-M921U RF module, but only two antennas for WIFI function. For this WF-M921U RF module WIFI function, only the 802.11N HT20, 802.11N HT40, 802.11 AX20 and 802.11 AX40 modes can support both the SISO and MIMO technical. For the modes of 11B&11G only support SISO mode.

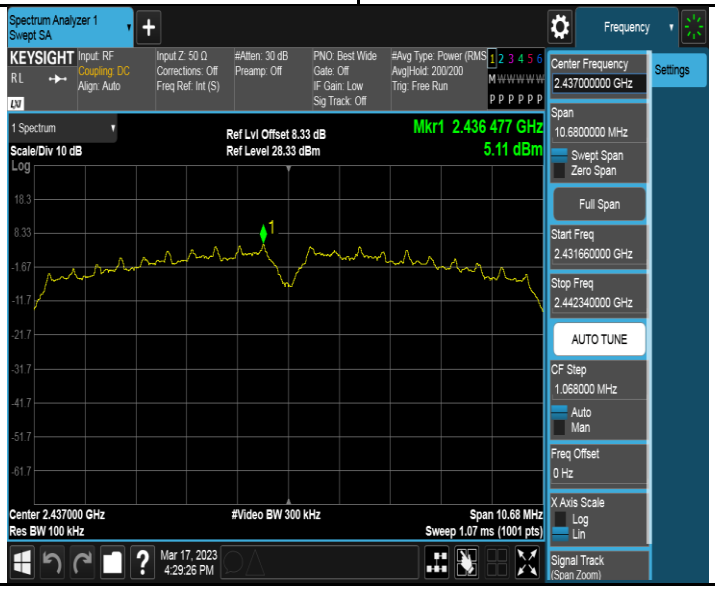
TEST GRAPHS

1) For Antenna 1 Part:

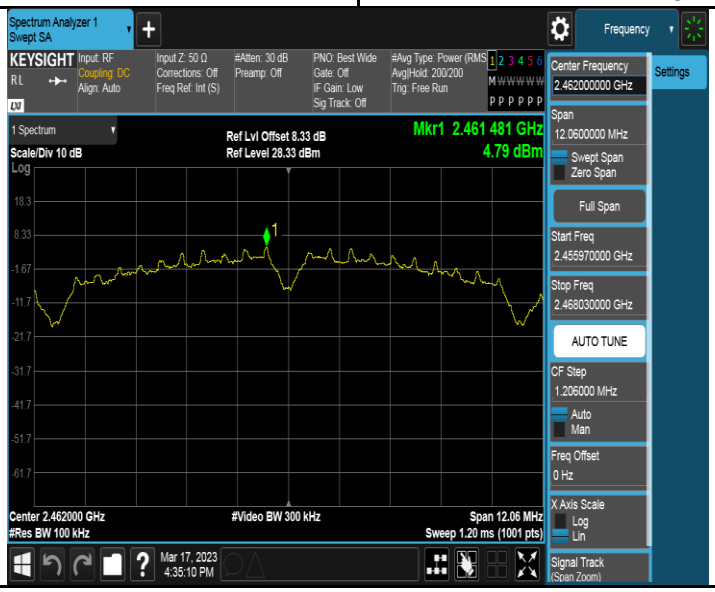
Test Mode	Channel
11B	LCH



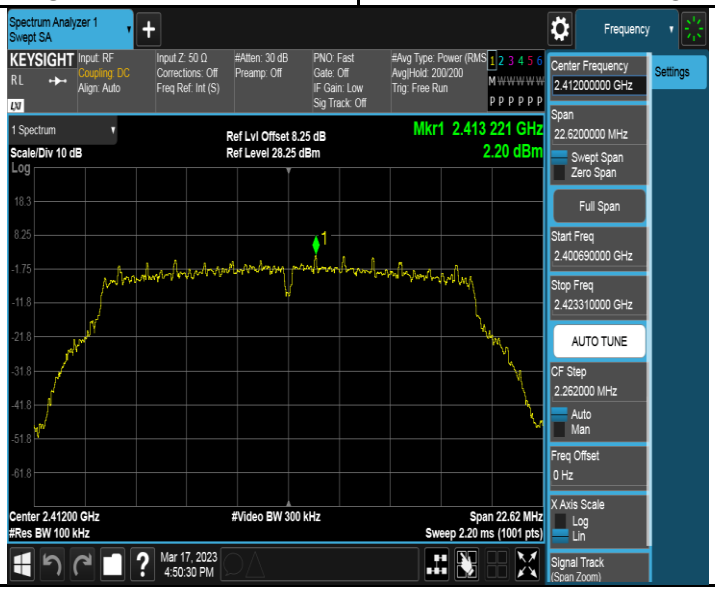
Test Mode	Channel
11B	MCH



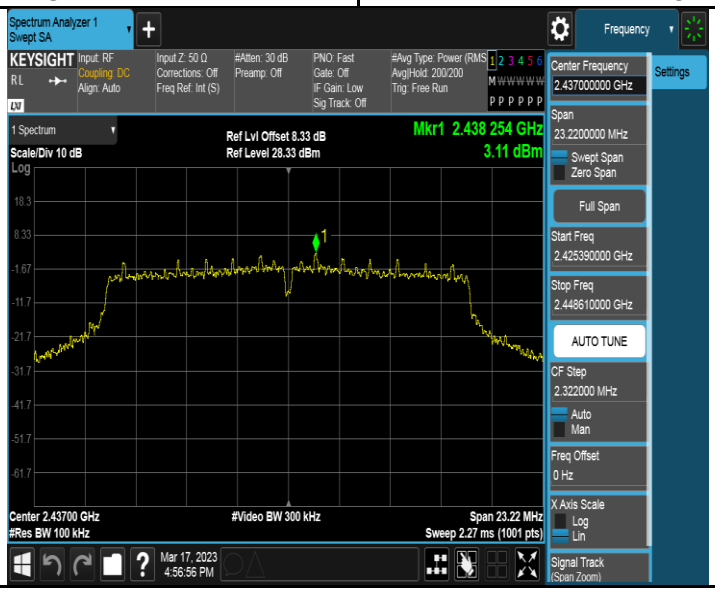
Test Mode	Channel
11B	HCH



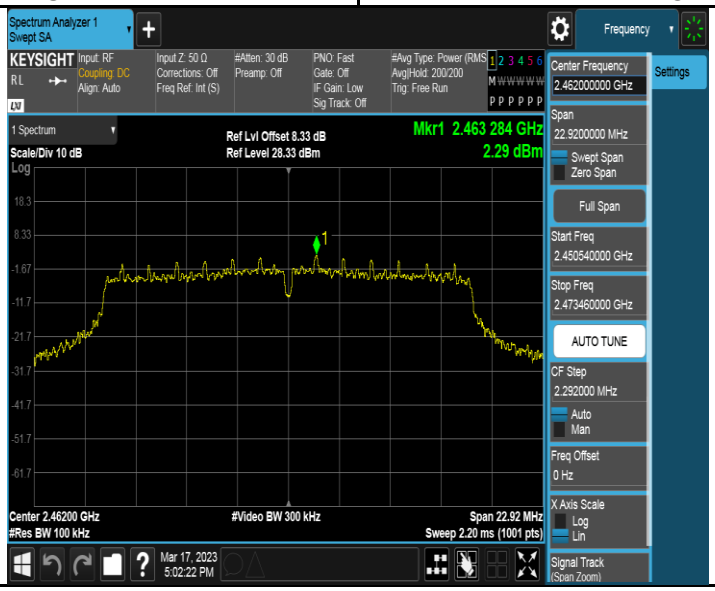
Test Mode	Channel
11G	LCH



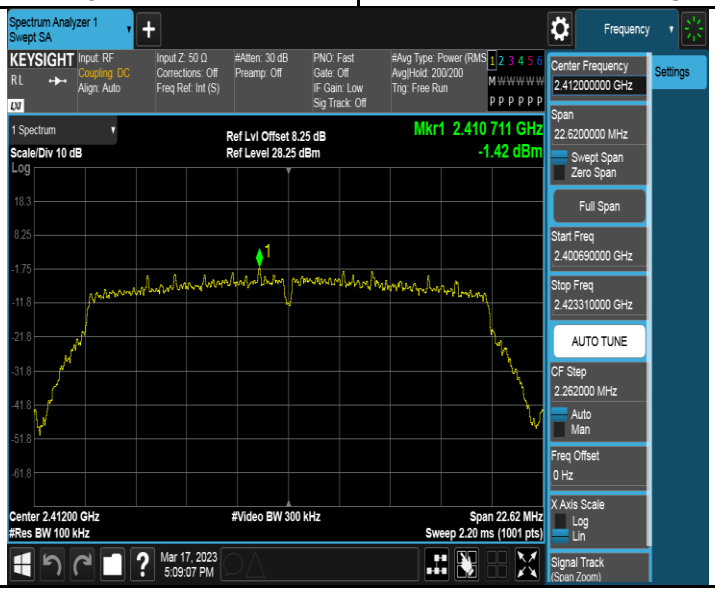
Test Mode	Channel
11G	MCH



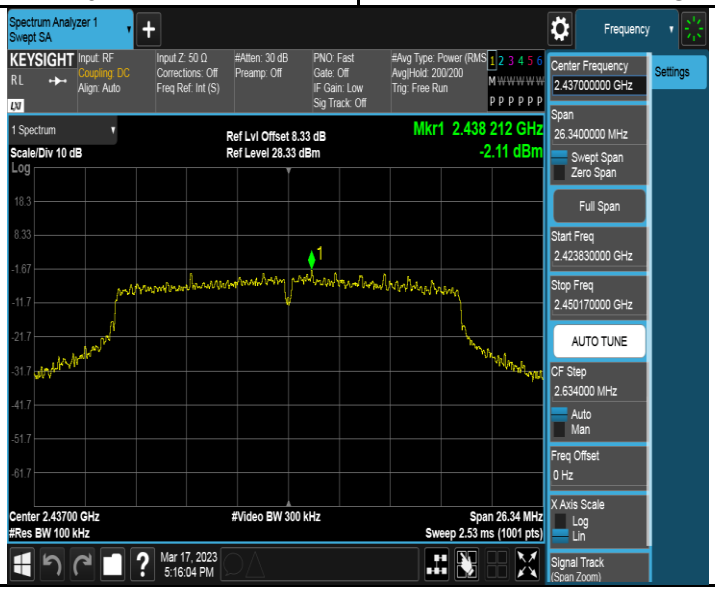
Test Mode	Channel
11G	HCH



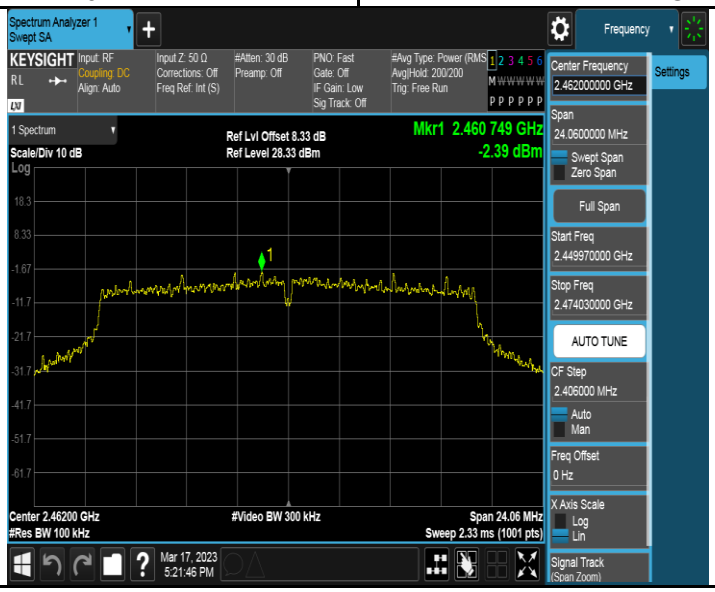
Test Mode	Channel
11N HT20	LCH



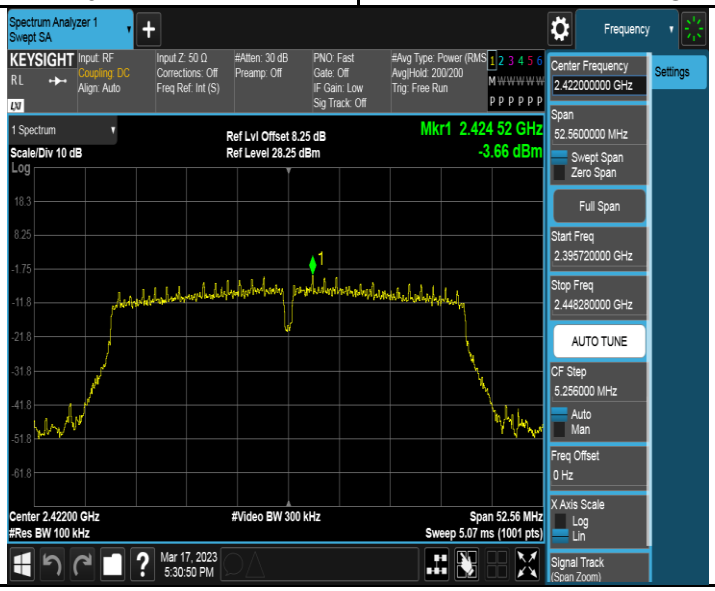
Test Mode	Channel
11N HT20	MCH



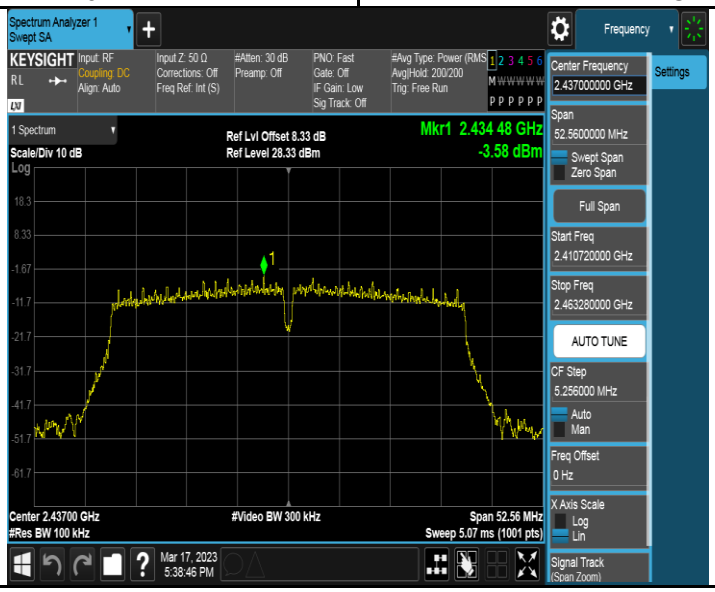
Test Mode	Channel
11N HT20	HCH



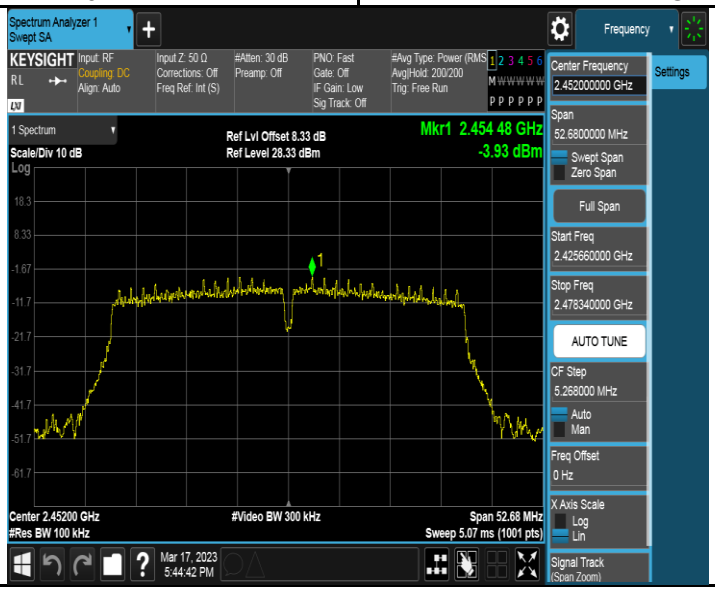
Test Mode	Channel
11N HT40	LCH



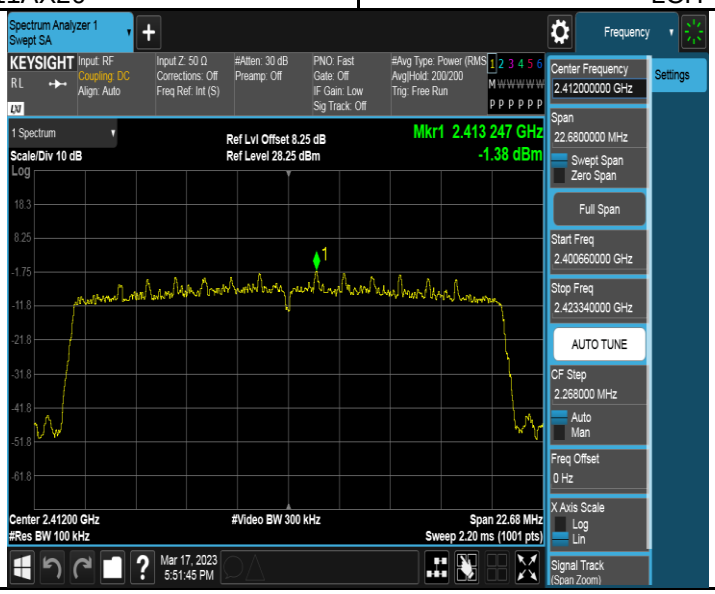
Test Mode	Channel
11N HT40	MCH



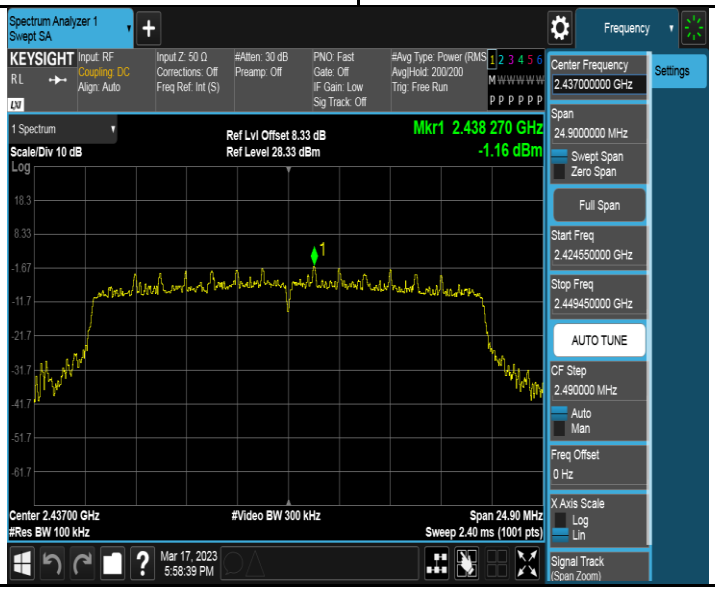
Test Mode	Channel
11N HT40	HCH



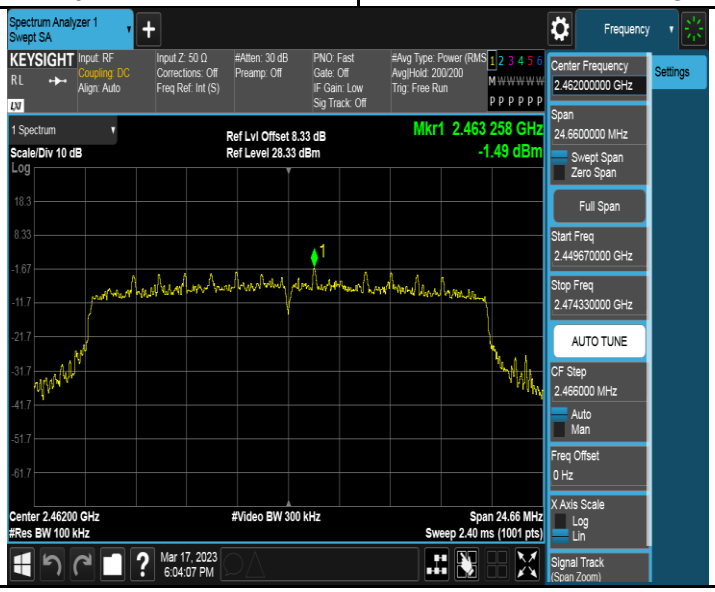
Test Mode	Channel
11AX20	LCH



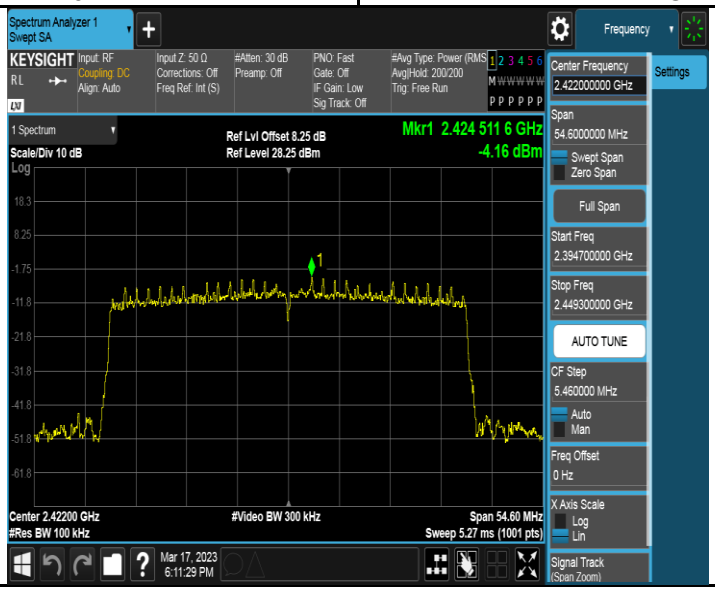
Test Mode	Channel
11AX20	MCH



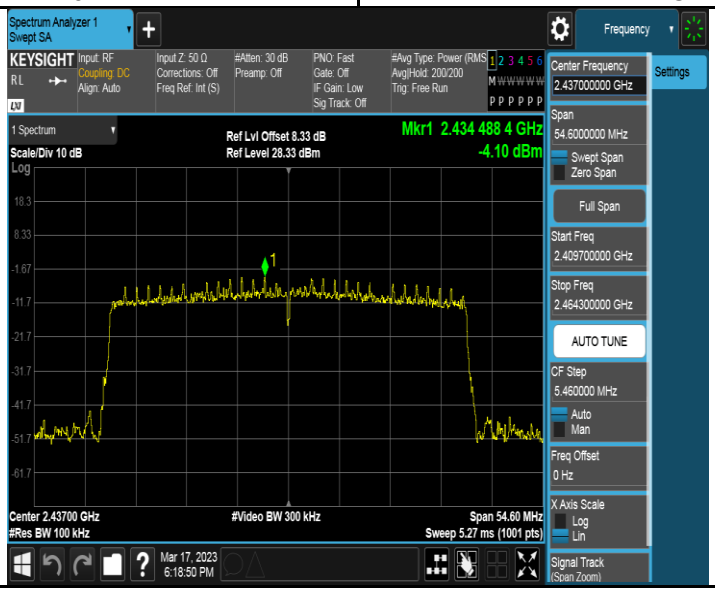
Test Mode	Channel
11AX20	HCH



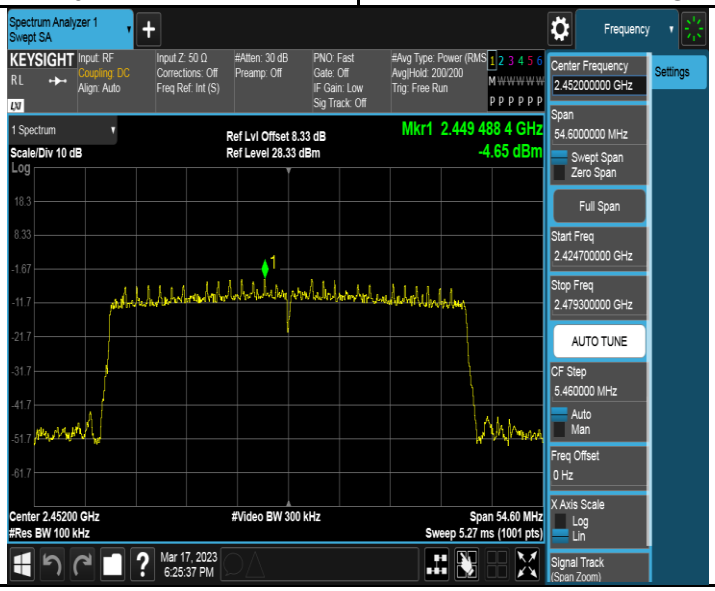
Test Mode	Channel
11AX40	LCH



Test Mode	Channel
11AX40	MCH

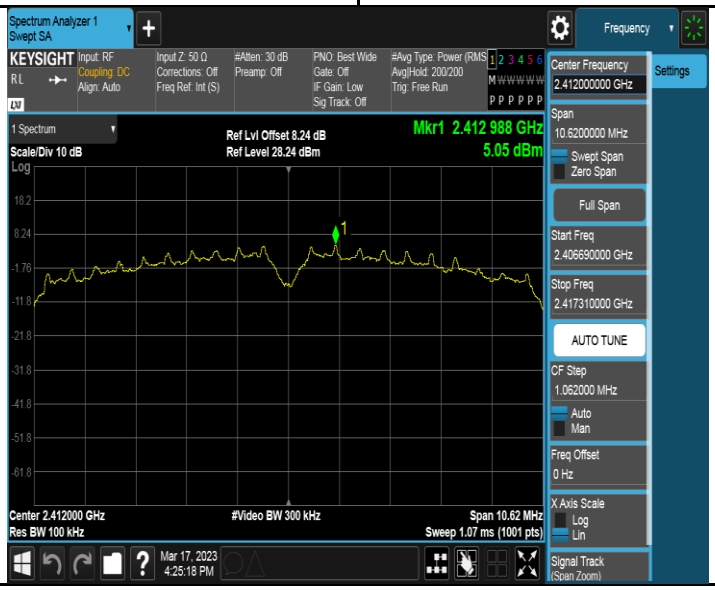


Test Mode	Channel
11AX40	HCH

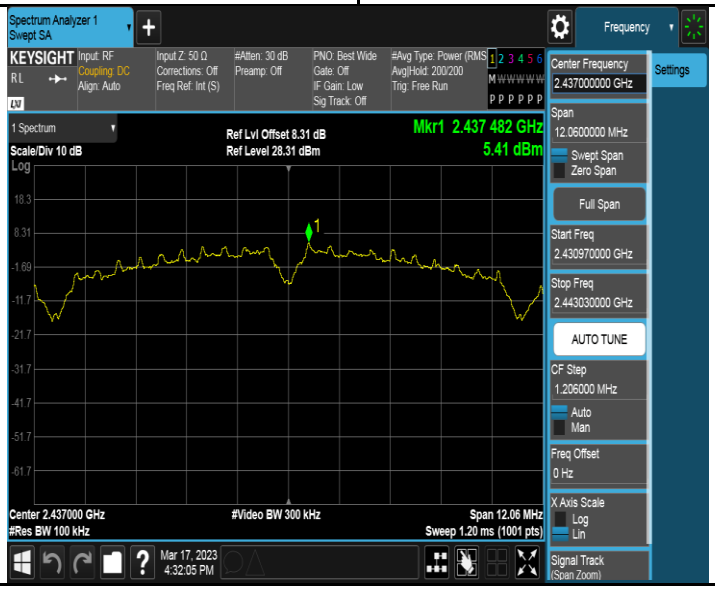


2) For Antenna 2 Part:

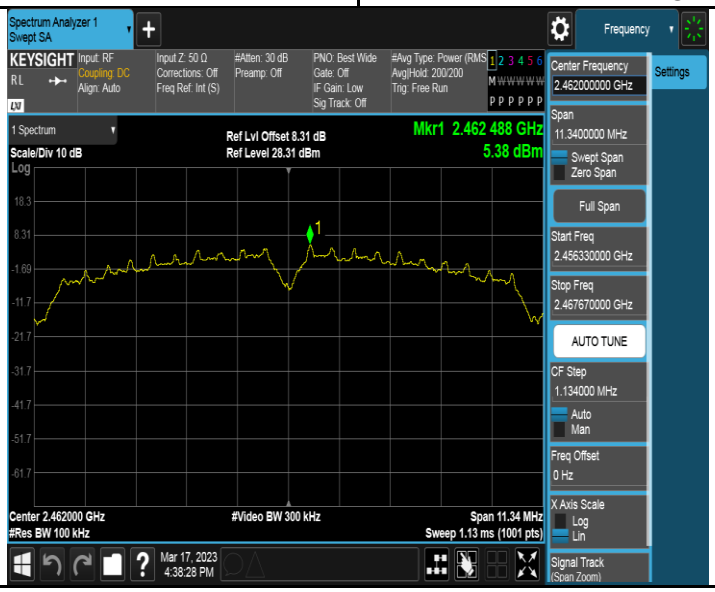
Test Mode	Channel
11B	LCH



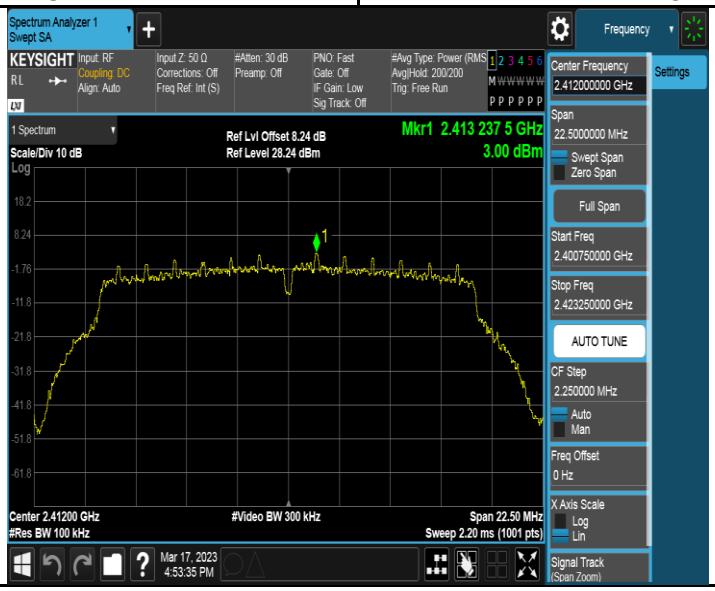
Test Mode	Channel
11B	MCH



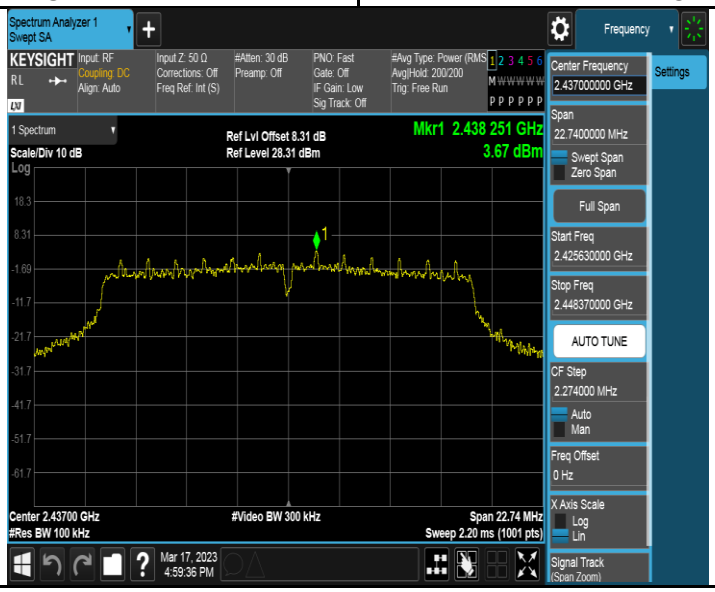
Test Mode	Channel
11B	HCH



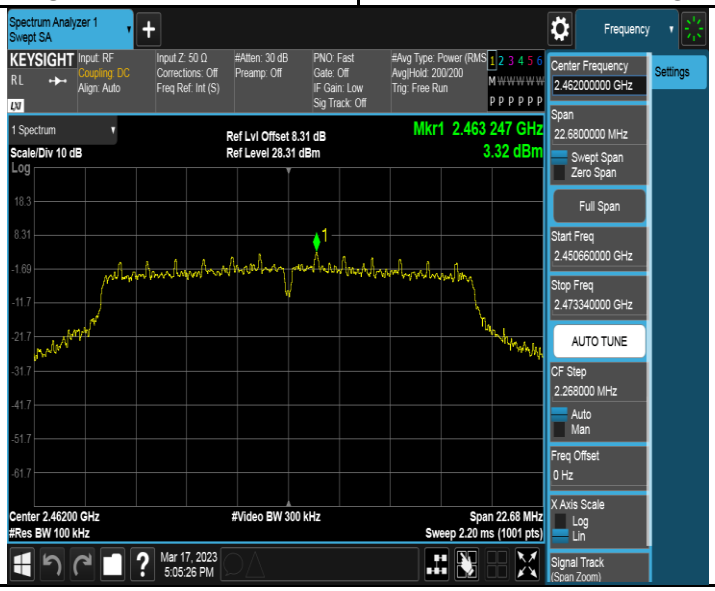
Test Mode	Channel
11G	LCH



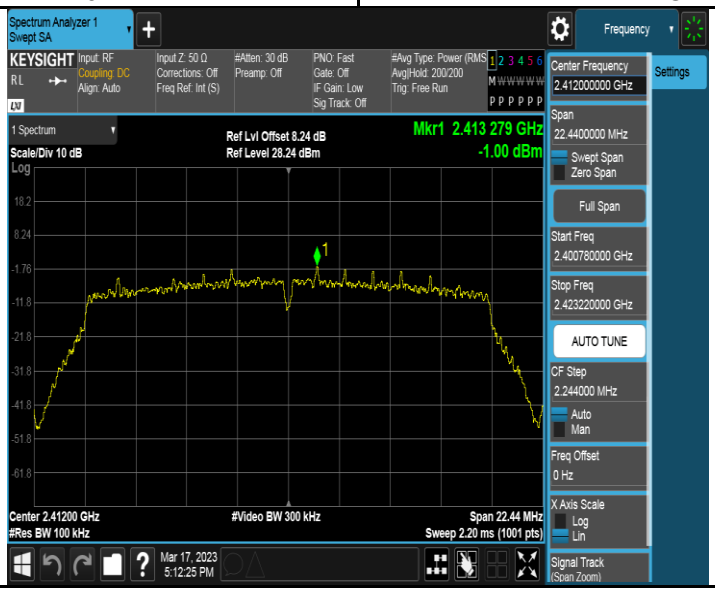
Test Mode	Channel
11G	MCH



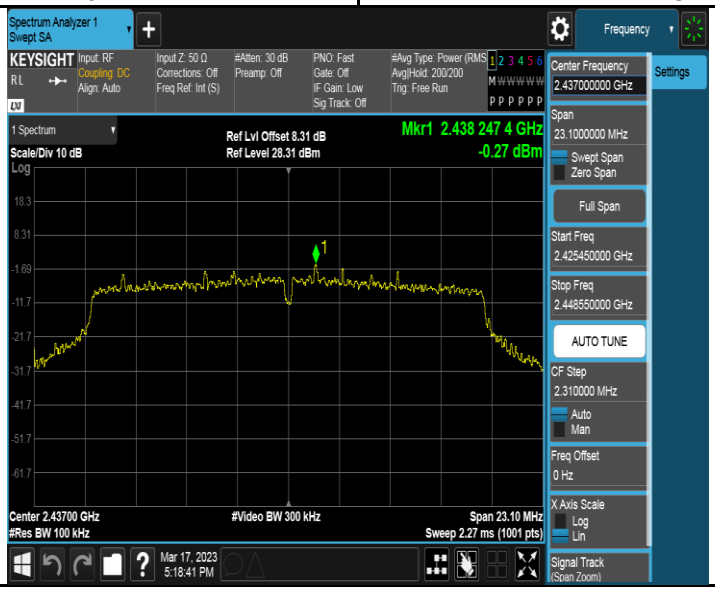
Test Mode	Channel
11G	HCH



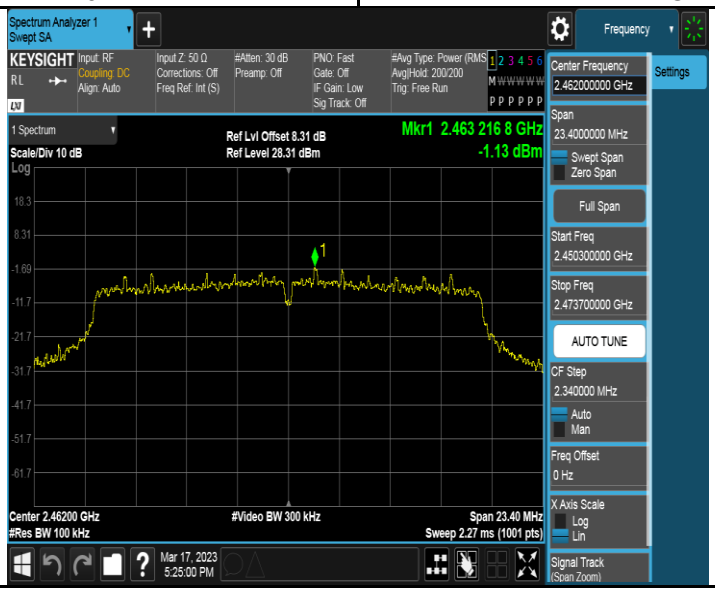
Test Mode	Channel
11N HT20	LCH



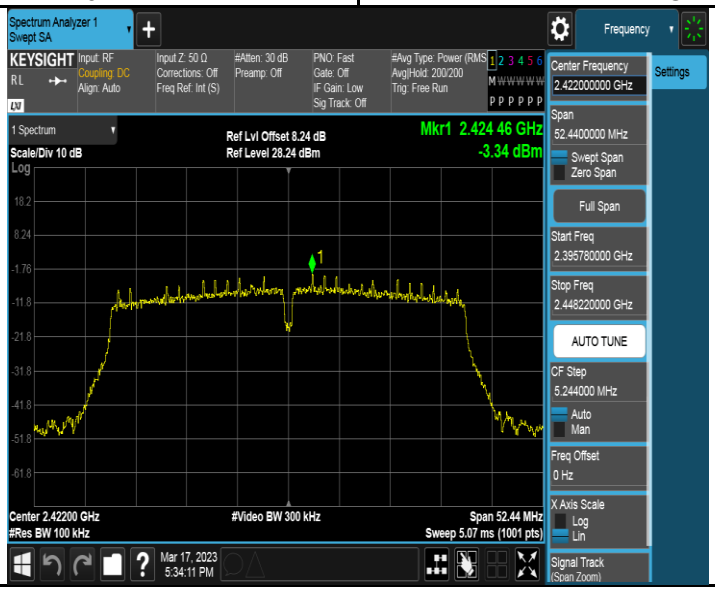
Test Mode	Channel
11N HT20	MCH



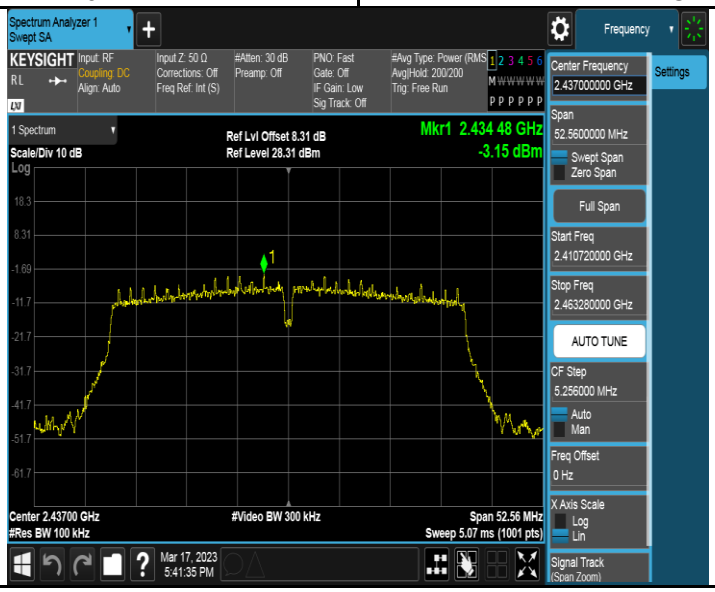
Test Mode	Channel
11N HT20	HCH



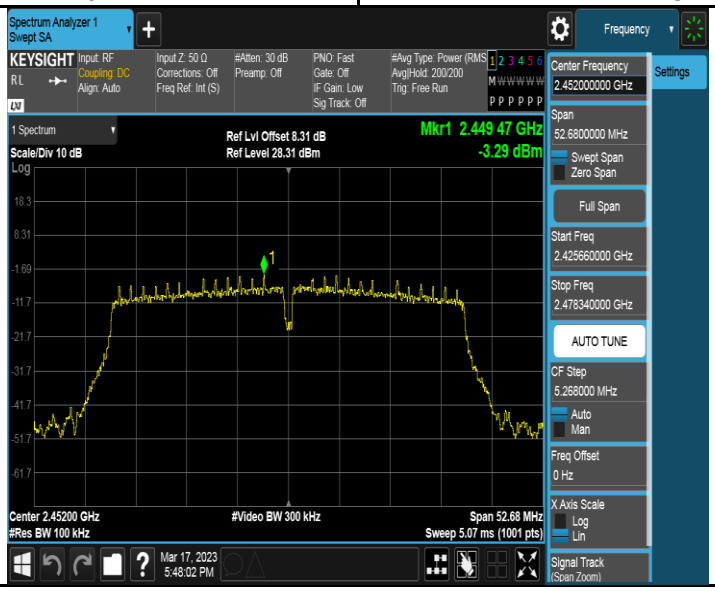
Test Mode	Channel
11N HT40	LCH



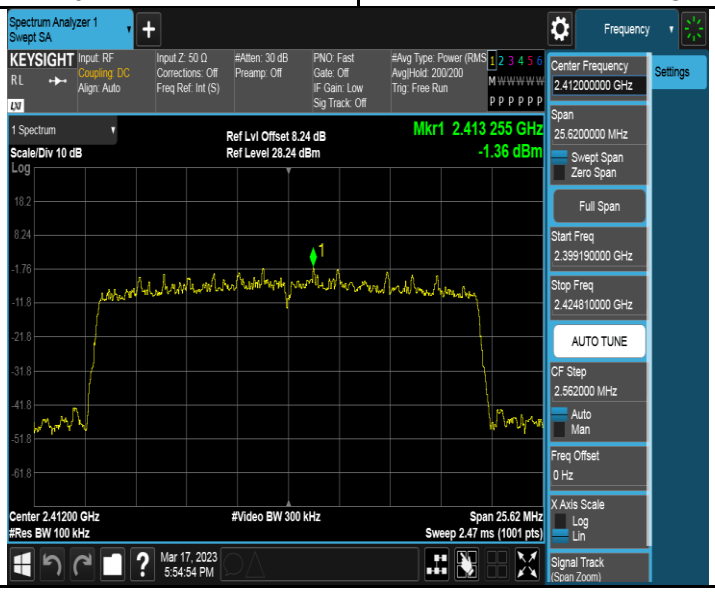
Test Mode	Channel
11N HT40	MCH



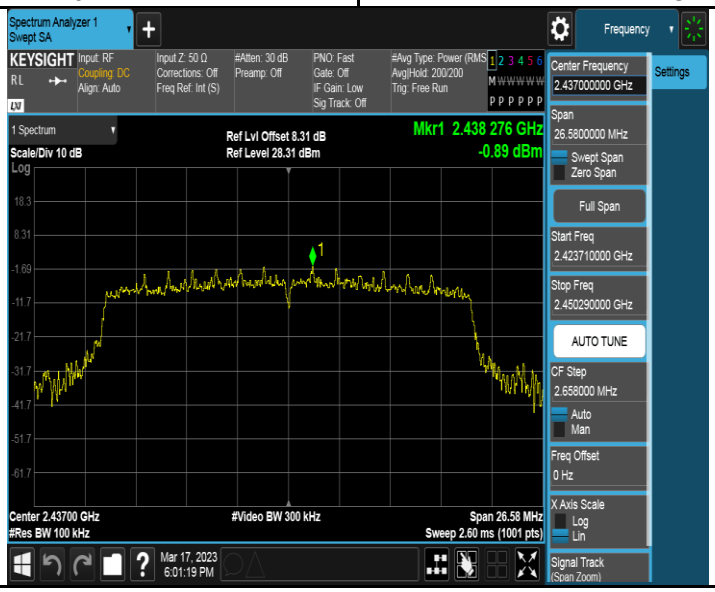
Test Mode	Channel
11N HT40	HCH



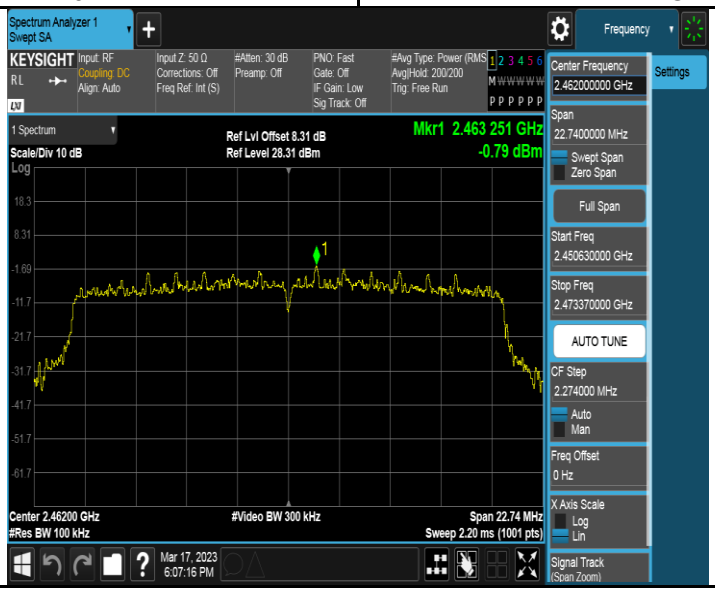
Test Mode	Channel
11AX20	LCH



Test Mode	Channel
11AX20	MCH



Test Mode	Channel
11AX20	HCH



Test Mode	Channel
11AX40	LCH