

MEASUREMENT REPORT
FCC PART 15.247 / ISED RSS-247 WLAN OFDMA**Applicant Name:**Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
United States**Date of Testing:**

3/14/2022-7/1/2022

Test Report Issue Date:

7/11/2022

Test Site/Location:

Element lab., Columbia, MD, USA

Test Report Serial No.:

1M2204040049-14-R1.C3K

FCC ID:	C3K1997
IC:	3048A-1997
APPLICANT:	Microsoft Corporation

Application Type:

Certification

Model/HVIN:

1997

EUT Type:

Portable Computing Device

Frequency Range:

2412 – 2472MHz

Modulation Type:

CCK/DSSS/OFDMA

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specification:

RSS-247 Issue 2

Test Procedure(s):ANSI C63.10-2013, KDB 558074 D01 v05r02,
KDB 662911 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

Note: This revised Test Report (S/N: 1M2204040049-14-R1.C3K) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

**RJ Ortanez**
Executive Vice President

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 1 of 213

TABLE OF CONTENTS

1.0	INTRODUCTION.....	4
1.1	Scope	4
1.2	Element Test Location.....	4
1.3	Test Facility / Accreditations.....	4
2.0	PRODUCT INFORMATION	5
2.1	Equipment Description	5
2.2	Device Capabilities.....	5
2.3	Test Configuration	8
2.4	Antenna Description	8
2.5	Software and Firmware	8
2.6	EMI Suppression Device(s)/Modifications	8
3.0	DESCRIPTION OF TESTS	9
3.1	Evaluation Procedure	9
3.2	Radiated Emissions.....	9
3.3	Environmental Conditions.....	9
4.0	ANTENNA REQUIREMENTS	10
5.0	MEASUREMENT UNCERTAINTY.....	11
6.0	TEST EQUIPMENT CALIBRATION DATA.....	12
7.0	TEST RESULTS.....	13
7.1	Summary	13
7.2	6dB Bandwidth Measurement	14
7.3	Output Power Measurement.....	32
7.4	Power Spectral Density	57
7.5	Conducted Emissions at the Band Edge	76
7.6	Conducted Spurious Emissions.....	112
7.7	Radiated Spurious Emission Measurements – Above 1 GHz.....	138
7.7.1	SISO Antenna-1 Radiated Spurious Emission Measurements	141
7.7.2	SISO Antenna-2 Radiated Spurious Emission Measurements	147
7.7.3	MIMO Radiated Spurious Emission Measurements	153
7.7.4	SISO Antenna-1 Radiated Restricted Band Edge Measurements 20MHz.....	159
7.7.5	SISO Antenna-1 Radiated Restricted Band Edge Measurements 40MHz.....	169
7.7.6	SISO Antenna-2 Radiated Restricted Band Edge Measurements 20MHz.....	177
7.7.7	SISO Antenna-2 Radiated Restricted Band Edge Measurements 40MHz.....	187
7.7.8	MIMO Radiated Restricted Band Edge Measurements – 20MHz	195
7.7.9	MIMO Radiated Restricted Band Edge Measurements – 40MHz	205
8.0	CONCLUSION	213

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 2 of 213

MEASUREMENT REPORT

Mode	Tones	Tx Frequency [MHz]	ANT1				ANT2				MIMO			
			Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11ax OFDMA	26T	2412 - 2472	122.462	20.88	467.735	26.70	117.761	20.71	500.035	26.99	240.436	23.81	912.011	29.60
802.11ax OFDMA	52T	2412 - 2472	124.451	20.95	475.335	26.77	125.603	20.99	479.733	26.81	247.478	23.94	955.069	29.80
802.11ax OFDMA	106T	2412 - 2472	124.738	20.96	474.242	26.76	122.462	20.88	495.450	26.95	247.200	23.93	969.692	29.87
802.11ax OFDMA	242T	2412 - 2472	123.027	20.90	472.063	26.74	120.226	20.80	441.570	26.45	243.253	23.86	913.633	29.61
802.11ax OFDMA	484T	2422 - 2462	61.944	17.92	279.254	24.46	60.117	17.79	305.492	24.85	122.180	20.87	584.790	27.67

EUT Overview

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 3 of 213

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Test Location

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 4 of 213

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Corporation Portable Computing Device FCC ID: C3K1997**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

Test Device Serial No.: JC220, H3220, JW220, HN220

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1 and FR2), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5,6GHz), Bluetooth (1x, EDR, LE)

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Table 2-1. Frequency/ Channel Operations

Note: The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of ANSI C63.10-2013 and KDB 558074 D01 v05r02. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 5 of 213

Mode	Antenna	Bandwidth	Tone	Duty Cycle
		[MHz]		
802.11ax DTS RU	1	20	26T	98.9
			52T	99.0
			106T	99.1
			242T	99.2
802.11ax DTS RU	2		26T	99.1
			52T	98.8
			106T	99.2
			242T	99.2
802.11ax DTS RU	MIMO CDD	26T	98.9	
		52T	98.8	
		106T	98.8	
		242T	98.6	
802.11ax DTS RU	1	40	26T	98.9
			52T	99.2
			106T	98.9
			242T	99.0
802.11ax DTS RU	2		484T	97.6
			26T	98.9
			52T	99.0
			106T	99.1
802.11ax DTS RU	MIMO CDD	242T	98.9	
		484T	97.6	
		26T	98.9	
		52T	98.8	
802.11ax DTS RU	40	106T	98.8	
		242T	98.6	
		484T	99.1	
		26T	98.9	

Table 2-2. Measured Duty Cycles

The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
2.4GHz	11ax	✓	✓	✓	✓	✓	✓

Table 2-3. Frequency / Channel Operations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 6 of 213



This device supports simultaneous transmission operation, which allows for two SISO channels to operate independent of one another in the 2.4GHz and 5GHz bands simultaneously on each antenna. The following tables show the worst case configurations determined during testing. The data for these configurations is contained in the UNII test report.

Configuration 1: ANT1 transmitting in 2.4GHz mode and ANT2 in 5GHz mode

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	11	120
Operating Frequency (MHz)	2462	5600
Data Rate (Mbps)	1	6
Mode	b	a

Table 2-4. Config-1 (ANT1 2.4GHz & ANT2 5GHz)

Configuration 2: ANT1 transmitting in 5GHz mode and ANT2 in 2.4GHz mode

Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	11	120
Operating Frequency (MHz)	2462	5600
Data Rate (Mbps)	1	6
Mode	b	a

Table 2-5. Config-2 (ANT1 5GHz & ANT2 2.4GHz)

Configuration 3: ANT1 transmitting in 2.4GHz mode and ANT2 in 6GHz mode

Description	2.4 GHz Emission	6 GHz Emission
Antenna	1	2
Channel	11	2
Operating Frequency (MHz)	2462	5935
Data Rate (Mbps)	1	6
Mode	b	a

Table 2-6. Config-3 (ANT1 2.4GHz & ANT2 6GHz)

Configuration 4: ANT1 transmitting in 6GHz mode and ANT2 in 2.4GHz mode

Description	2.4 GHz Emission	6 GHz Emission
Antenna	2	1
Channel	11	2
Operating Frequency (MHz)	2462	5935
Data Rate (Mbps)	1	6
Mode	b	a

Table 2-7. Config-4 (ANT1 6GHz & ANT2 2.4GHz)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 7 of 213

V9.0 02/01/2019

Configuration 5: ANT1 and ANT2 both transmitting in 2.4GHz and 5GHz modes simultaneously

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	11	120
Operating Frequency (MHz)	2462	5600
Data Rate (Mbps)	1	6
Mode	b	a

Table 2-8. Config-5 (ANT1 MIMO & ANT2 MIMO)

Configuration 6: ANT1 and ANT2 both transmitting in 2.4GHz and 6GHz modes simultaneously

Description	2.4 GHz Emission	6 GHz Emission
Antenna	1, 2	1, 2
Channel	11	2
Operating Frequency (MHz)	2462	5935
Data Rate (Mbps)	1	6
Mode	b	a

Table 2-9. Config-6 (ANT1 MIMO & ANT2 MIMO)

2.3 Test Configuration

The EUT was tested per the guidance of KDB 558074 D01 v05r02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing. See Sections 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

This device supports open and closed configurations. Multiple angles are tested and the worst case radiated emissions data is shown in the report.

2.4 Antenna Description

Following antenna was used for the testing.

Frequency [GHz]	Antenna 1 Gain [dBi]	Antenna 2 Gain [dBi]	MIMO Gain [dBi]
2.4	1.40	1.60	4.51

Table 2-10. Antenna Peak Gain

2.5 Software and Firmware

The test was conducted with software/firmware version 1.426.0 installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 8 of 213

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 474788 D01 v01r01.

3.3 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 9 of 213

4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connections to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 10 of 213

5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (\pm dB)
Conducted Bench Top Measurements	1.13
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 11 of 213

V9.0 02/01/2019

6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	WL25-1	Conducted Cable Set (25GHz)	12/19/2021	Annual	12/19/2022	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	12/19/2022	Annual	12/19/2022	WL25-2
-	WL40-1	Conducted Cable Set (40GHz)	12/19/2022	Annual	12/19/2022	WL40-1
-	ETS-001	EMC Cable and Switch System	12/9/2021	Annual	12/9/2022	ETS-001
-	ETS-002	EMC Cable and Switch System	3/10/2022	Annual	3/10/2023	ETS-002
-	AP1-002	EMC Cable and Switch System	3/9/2022	Annual	3/9/2023	AP1-002
-	AP2-001	EMC Cable and Switch System	1/4/2022	Annual	1/4/2023	AP2-001
-	AP2-002	EMC Cable and Switch System	3/11/2022	Annual	3/11/2023	AP2-002
Agilent	N9038A	MXE EMI Receiver	1/21/2022	Annual	1/21/2023	MY51210133
Agilent	N9020A	MXA Signal Analyzer	3/4/2022	Annual	3/4/2023	US46470561
Agilent	N9030A	PXA Signal Analyzer (44GHz)	7/21/2021	Annual	7/21/2022	MY49430494
Emco	3116	Horn Antenna (18 - 40GHz)	7/20/2021	Biennial	7/20/2022	9203-2178
ETS-Lindgren	3117	Horn Antenna (1 - 18GHz)	4/20/2021	Biennial	4/20/2023	9203-2178
ETS-Lindgren	3816/2NM	Line Impedance Stabilization Network	7/9/2020	Biennial	7/9/2022	114451
Keysight Technologies	N9030A	PXA Signal Analyzer (3Hz-26.5GHz)	2/14/2022	Annual	2/14/2023	MY54490576
Keysight Technologies	N9030A	PXA Signal Analyzer (3Hz-44GHz)	2/14/2022	Annual	2/14/2023	MY52350166
Keysight Technologies	N9020A	MXA Signal Analyzer	3/15/2022	Annual	3/15/2023	MY54500644
Pasternack	NMLC-2	Line Conducted Emissions Cable (NM)	12/19/2021	Annual	12/19/2022	NMLC-2
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	8/3/2021	Annual	8/3/2022	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	7/25/2021	Annual	7/25/2022	100348
Sunol	DRH-118	Horn Antenna (1-18GHz)	2/14/2022	Biennial	2/14/2024	A050307
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	7/27/2020	Biennial	7/27/2022	A051107

Table 6-1. Annual Test Equipment Calibration Schedule

Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 12 of 213

7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation

FCC ID: C3K1997

IC: 3048A-1997

FCC Classification: Digital Transmission System (DTS)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.2
15.247(b)(3)	RSS-247 [5.4]	Transmitter Output Power	< 1 Watt		PASS	Sections 7.3
N/A	RSS-247 [5.4(b)]	Equivalent Isotropically Radiated Power (e.i.r.p.)	<4 Watts		PASS	Sections 7.3
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Section 7.7

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "WLAN Automation," Version 3.5.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "Chamber Automation," Version 1.3.1.
- 6) 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 13 of 213

7.2 6dB Bandwidth Measurement

§15.247(a.2); RSS-247 [5.2]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 11.8.2 Option 2
KDB 558074 D01 v05r02 – Section 8.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 14 of 213

V9.0 02/01/2019

Test Notes

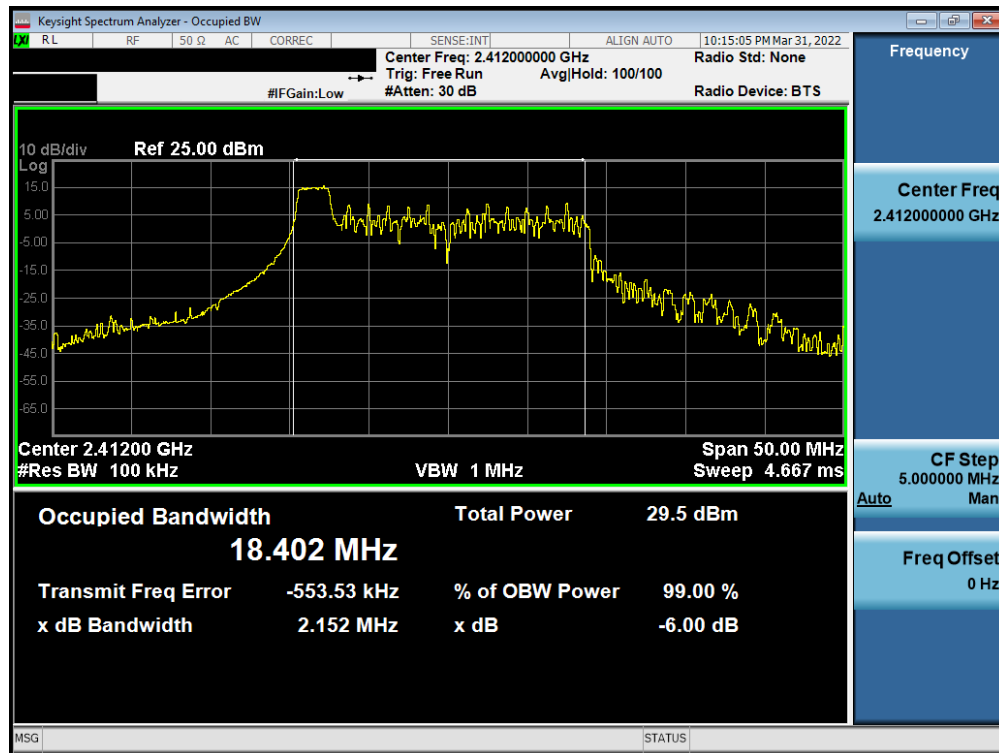
1. Based on preliminary measurements, it was determined that, of all the tone configurations, the 26T configuration produced the worst case 6dB Bandwidth measurement. Only the worst case data is included in this section.
2. The 6dB bandwidth for each channel was measured with the RU index showing the highest conducted power.

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 15 of 213

SISO Antenna-1 6 dB Bandwidth Measurements

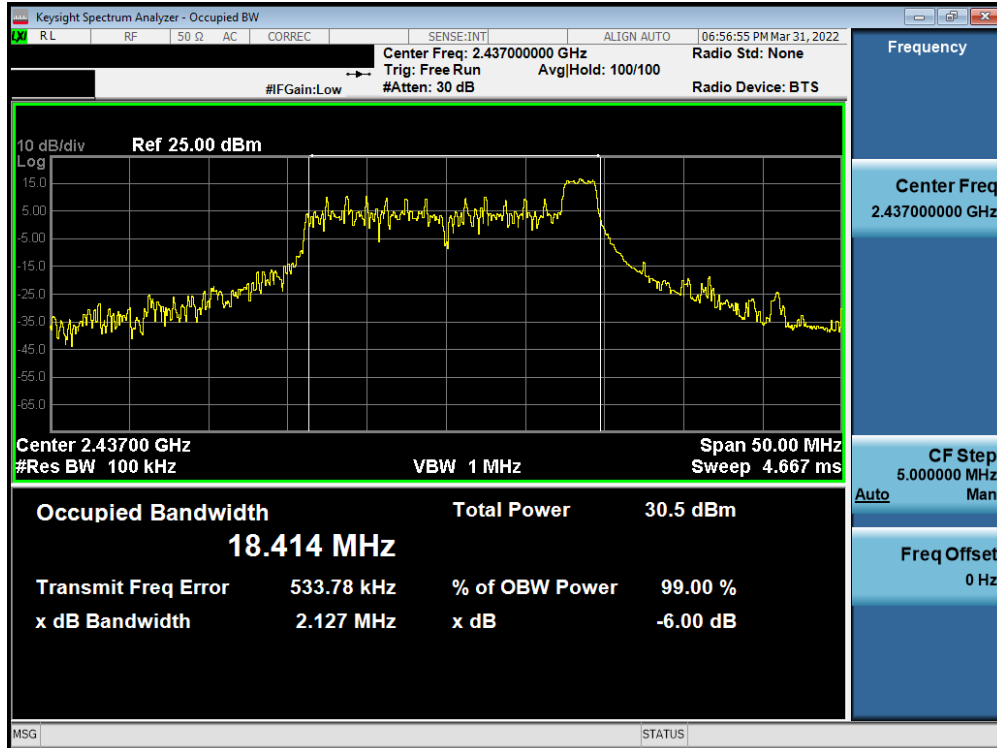
Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]
2412	1	ax	26T	MCS0	2.152	0.500
2437	6	ax	26T	MCS0	2.127	0.500
2462	11	ax	26T	MCS0	2.141	0.500
2412	1	ax	242T	MCS0	19.07	0.500
2437	6	ax	242T	MCS0	19.07	0.500
2462	11	ax	242T	MCS0	19.06	0.500

Table 7-2. Conducted Bandwidth Measurements SISO ANT1 20MHz BW

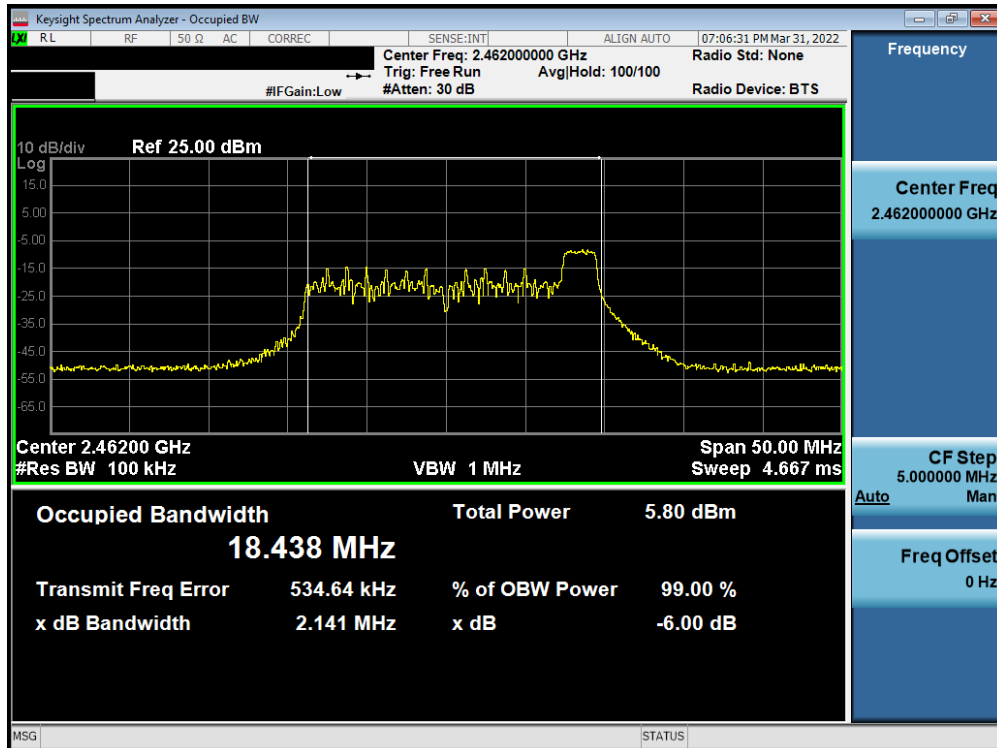


Plot 7-1. 6dB Bandwidth Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 1)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 16 of 213

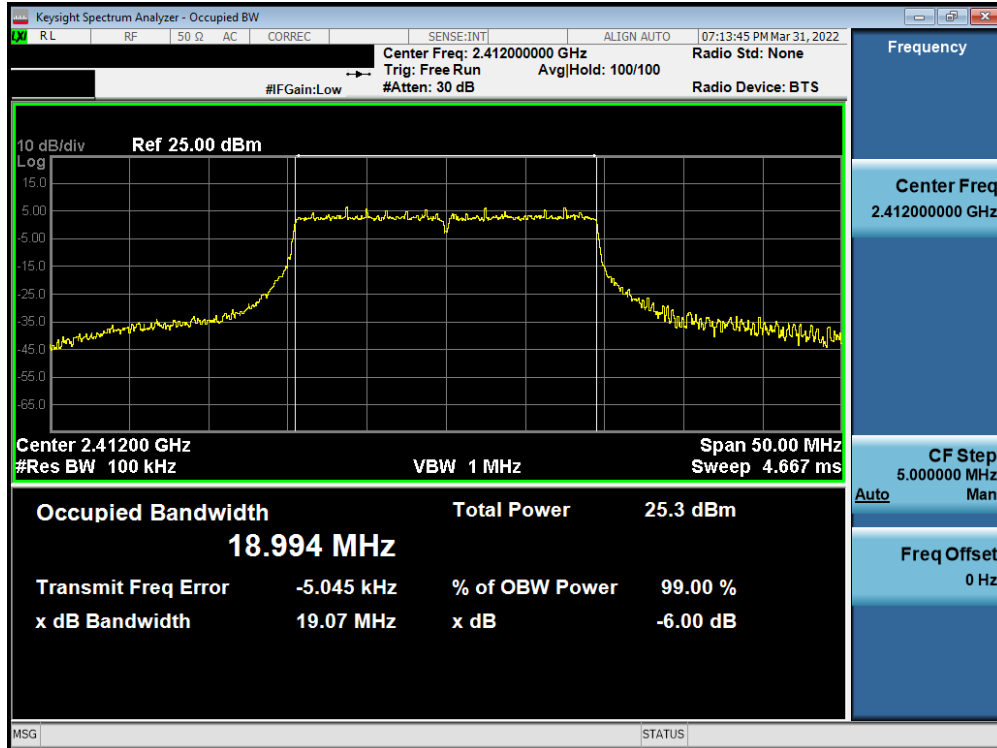


Plot 7-2. 6dB Bandwidth Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 6)

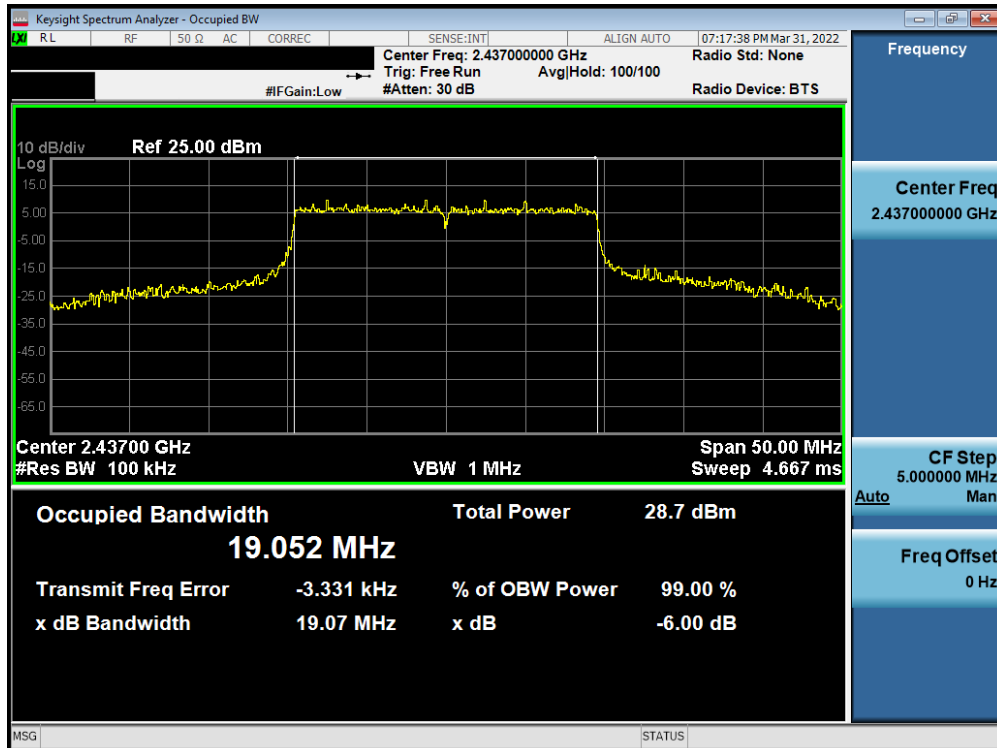


Plot 7-3. 6dB Bandwidth Plot SISO ANT1 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 17 of 213

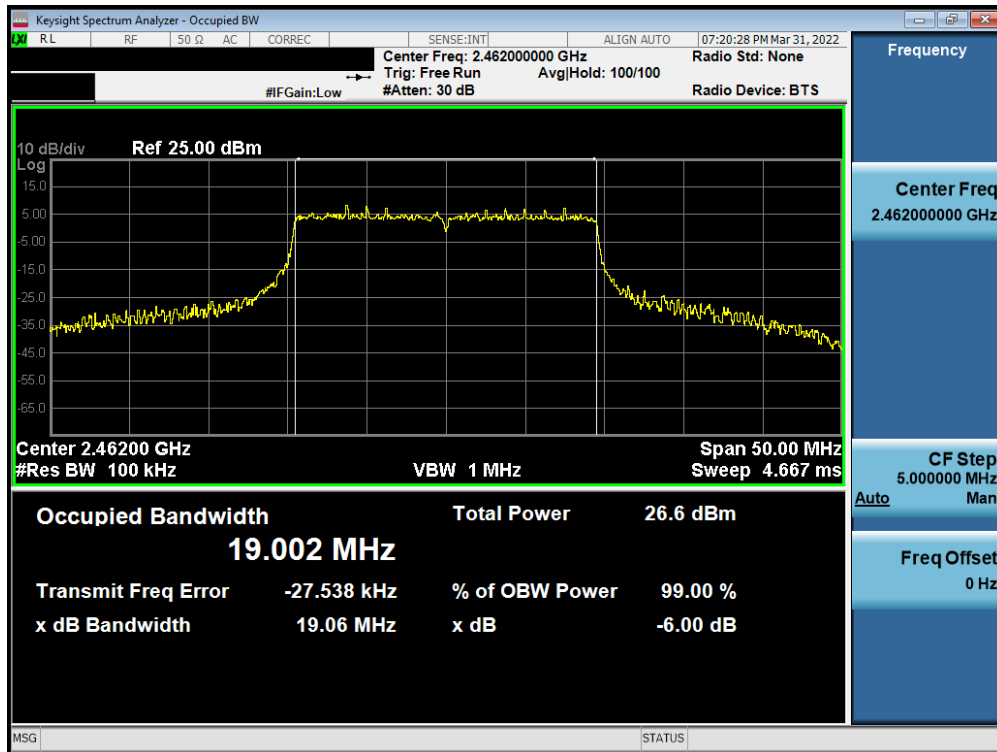


Plot 7-4. 6dB Bandwidth Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 1)



Plot 7-5. 6dB Bandwidth Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 6)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 18 of 213

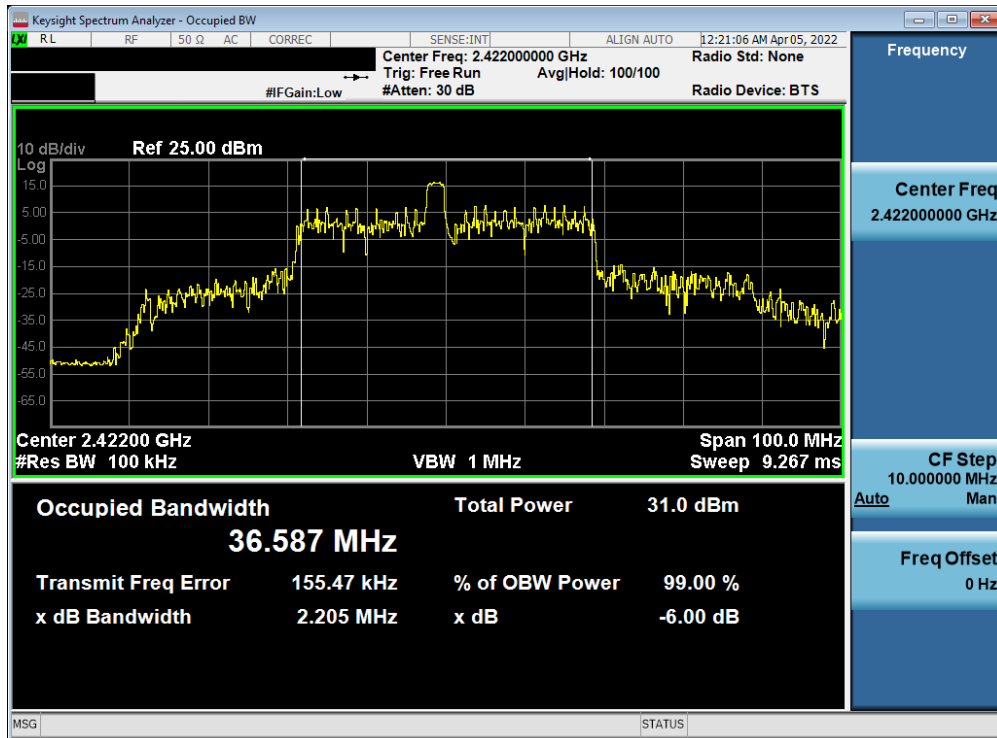


Plot 7-6. 6dB Bandwidth Plot SISO ANT1 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 19 of 213

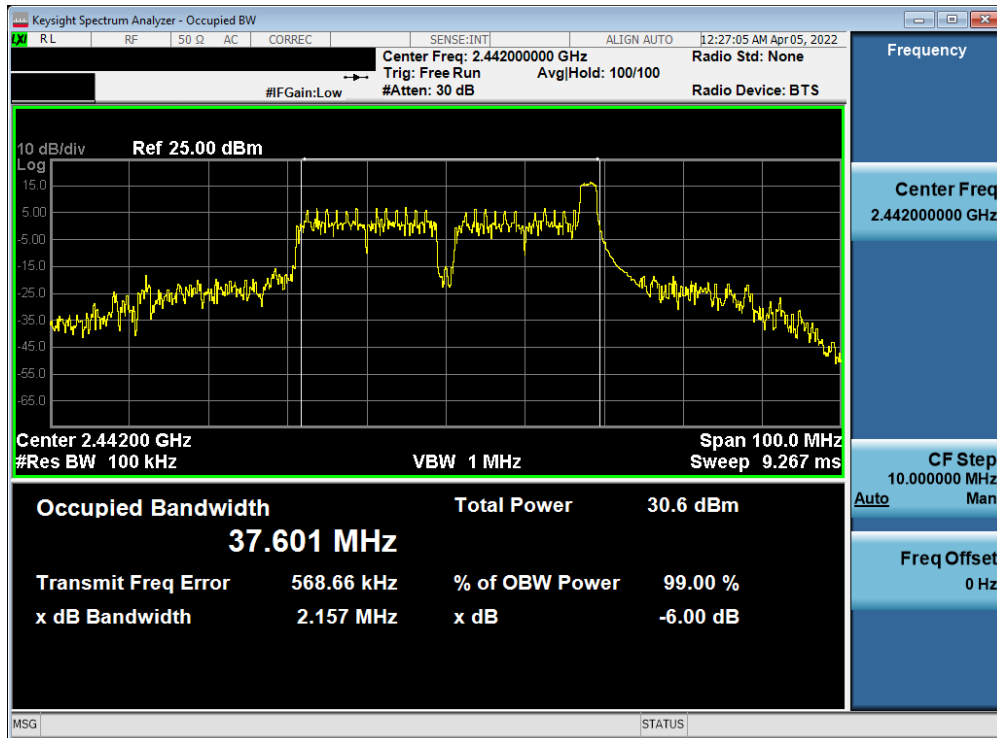
Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]
2422	3	ax	26T	MCS0	2.205	0.500
2442	7	ax	26T	MCS0	2.157	0.500
2462	11	ax	26T	MCS0	2.192	0.500
2422	3	ax	484T	MCS0	38.12	0.500
2442	7	ax	484T	MCS0	38.08	0.500
2462	11	ax	484T	MCS0	37.53	0.500

Table 7-3. Conducted Bandwidth Measurements SISO ANT1 40MHz BW

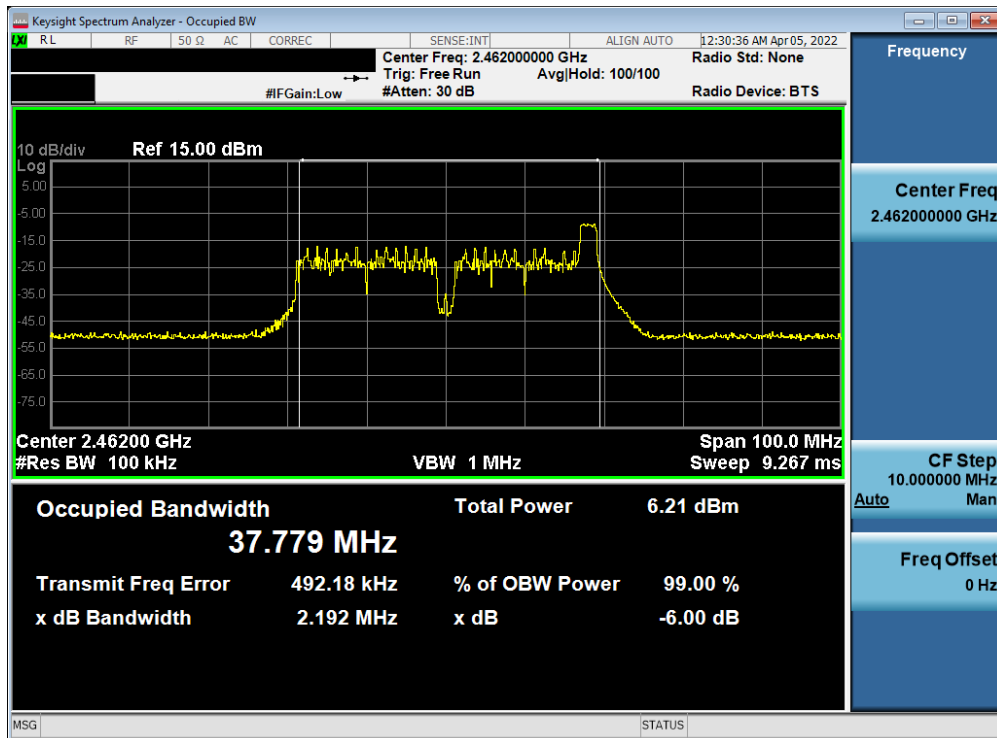


Plot 7-7. 6dB Bandwidth Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 3)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 20 of 213

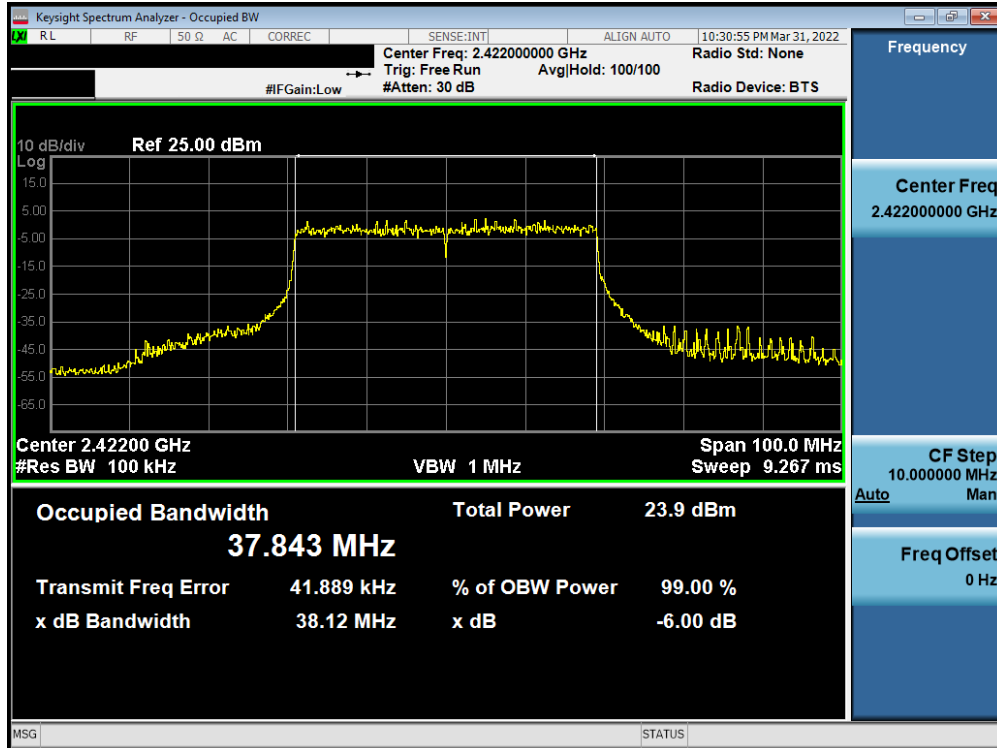


Plot 7-8. 6dB Bandwidth Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 7)

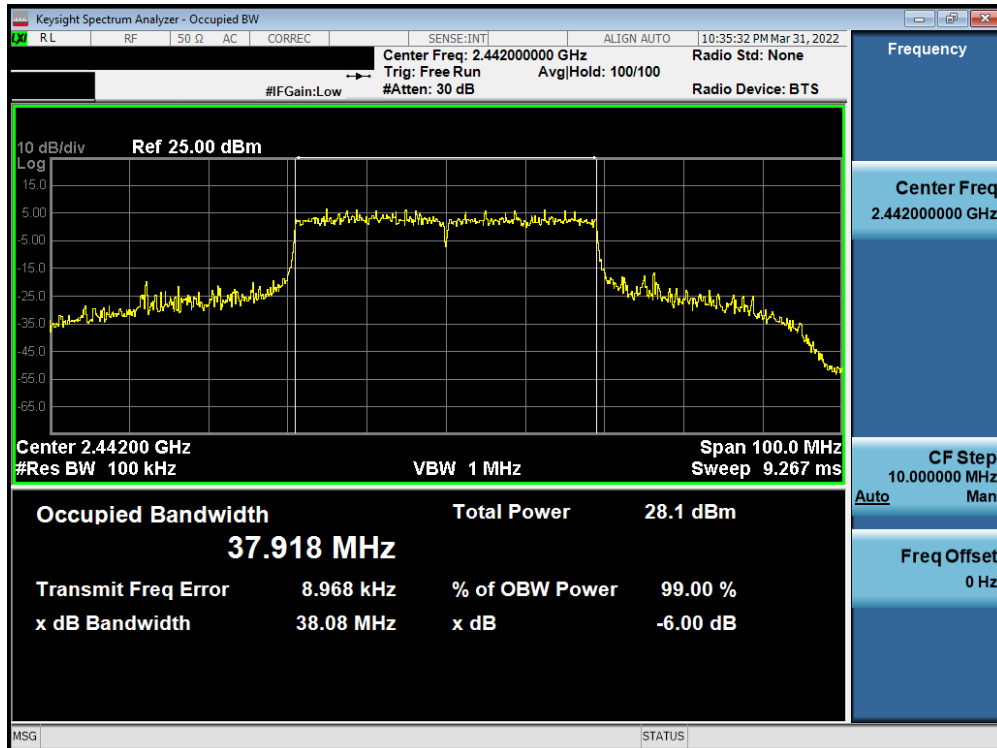


Plot 7-9. 6dB Bandwidth Plot SISO ANT1 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 21 of 213

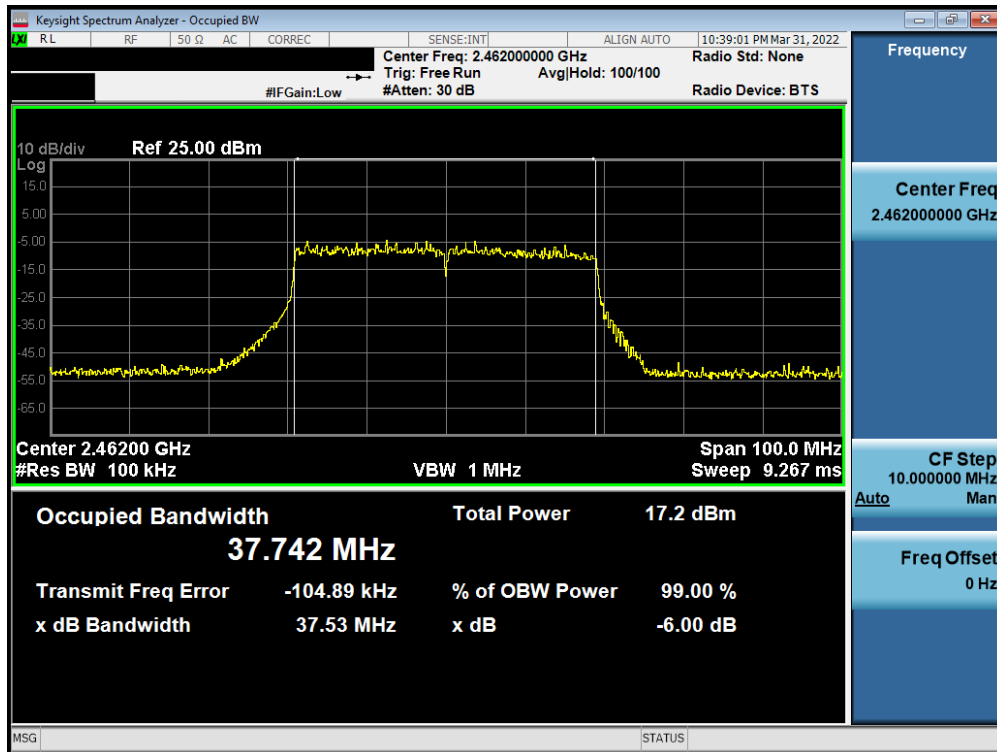


Plot 7-10. 6dB Bandwidth Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 3)



Plot 7-11. 6dB Bandwidth Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 7)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 22 of 213



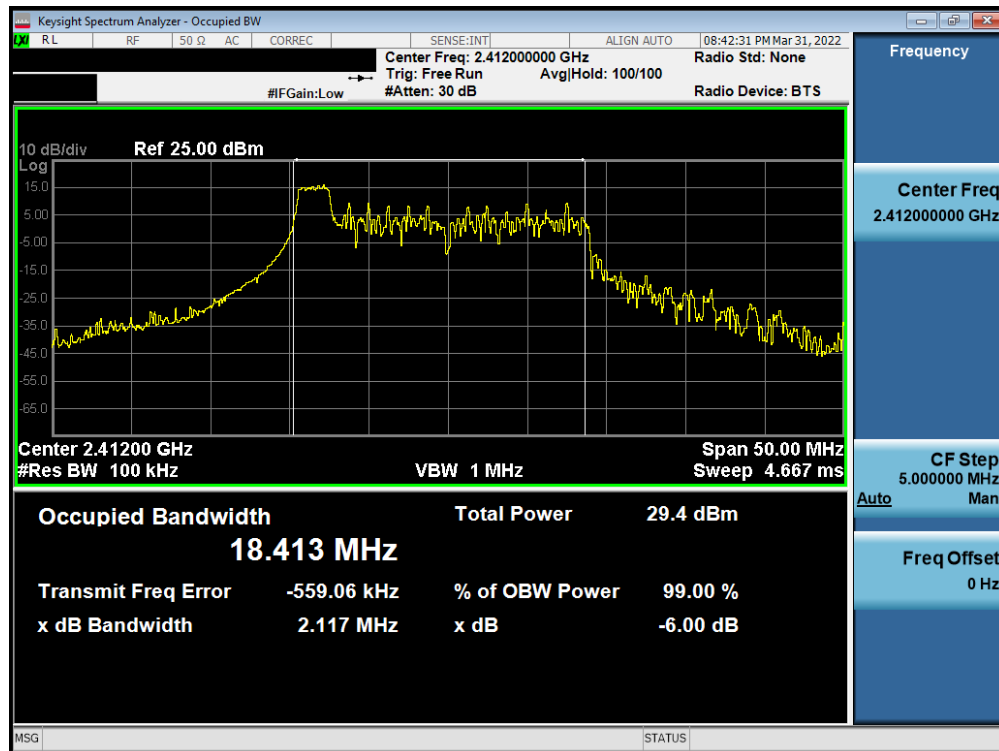
Plot 7-12. 6dB Bandwidth Plot SISO ANT1 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 23 of 213

SISO Antenna-2 6 dB Bandwidth Measurements

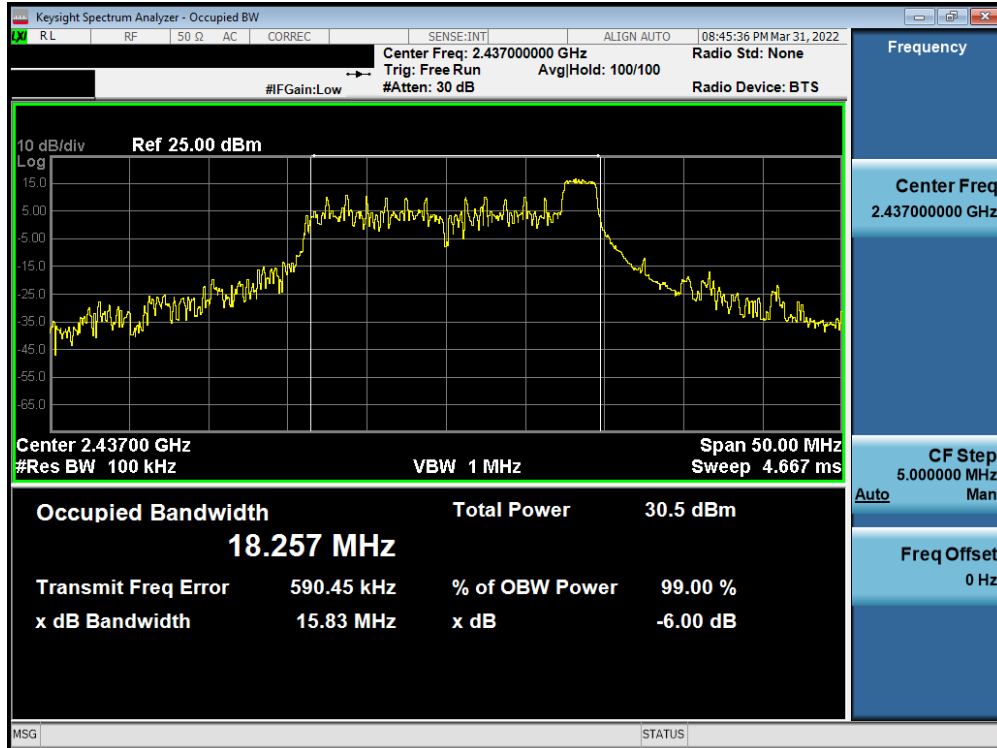
Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]
2412	1	ax	26T	MCS0	2.117	0.500
2437	6	ax	26T	MCS0	15.83	0.500
2462	11	ax	26T	MCS0	2.158	0.500
2412	1	ax	242T	MCS0	19.08	0.500
2437	6	ax	242T	MCS0	19.05	0.500
2462	11	ax	242T	MCS0	19.06	0.500

Table 7-4. Conducted Bandwidth Measurements SISO ANT2 20MHz BW

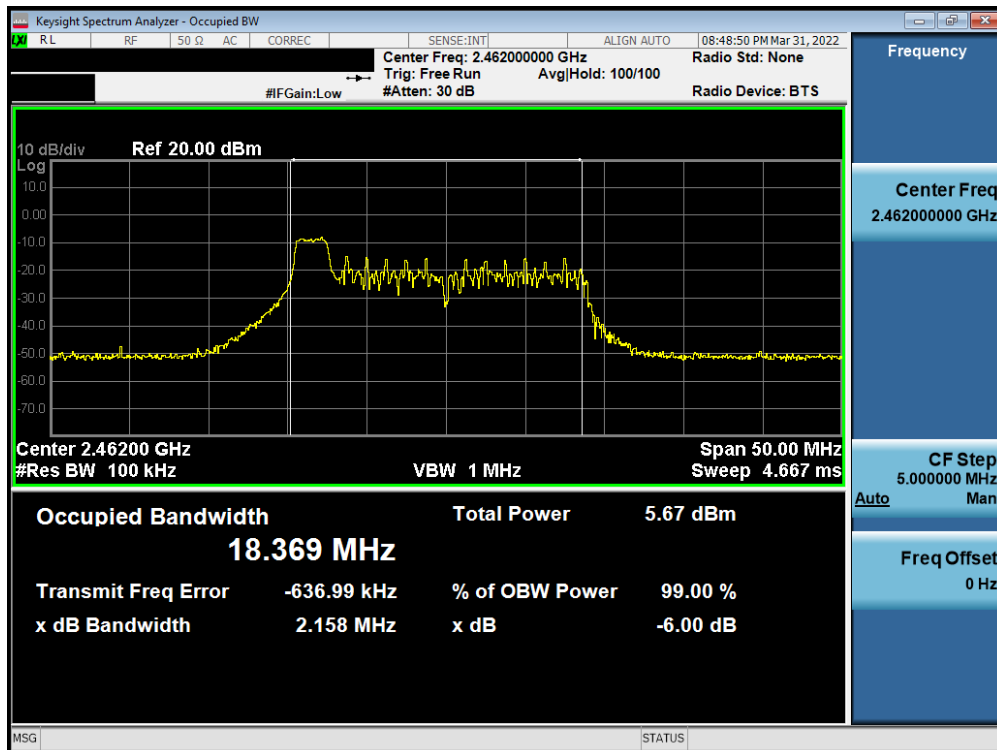


Plot 7-13. 6dB Bandwidth Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 1)

FCC ID: C3K1997 IC: 3048A-1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 24 of 213	

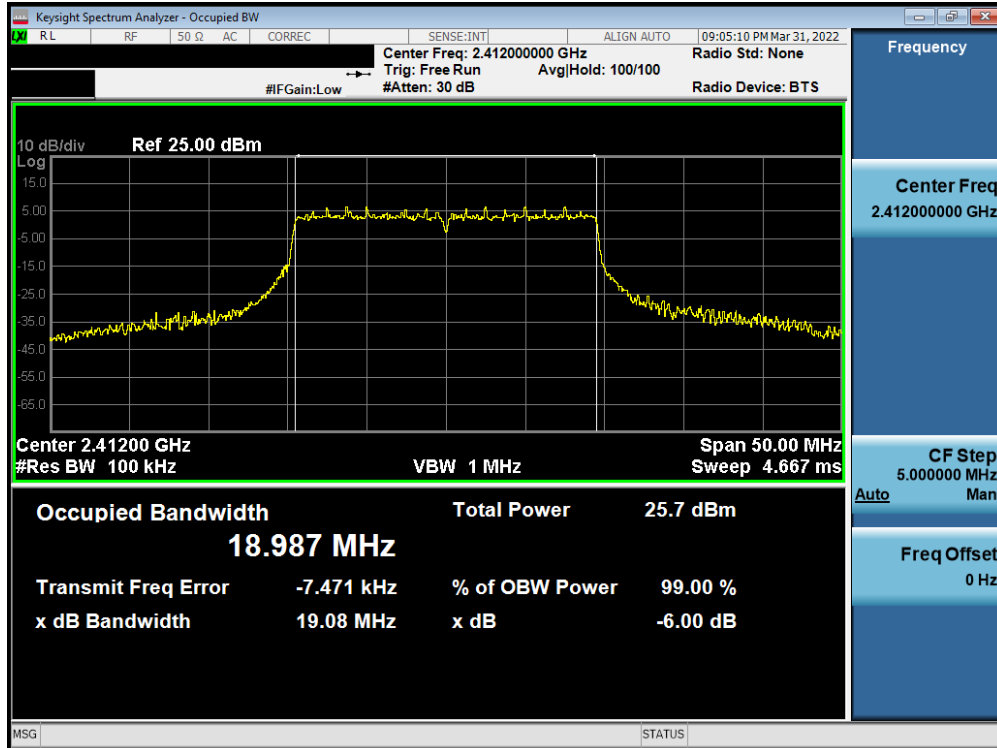


Plot 7-14. 6dB Bandwidth Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 6)

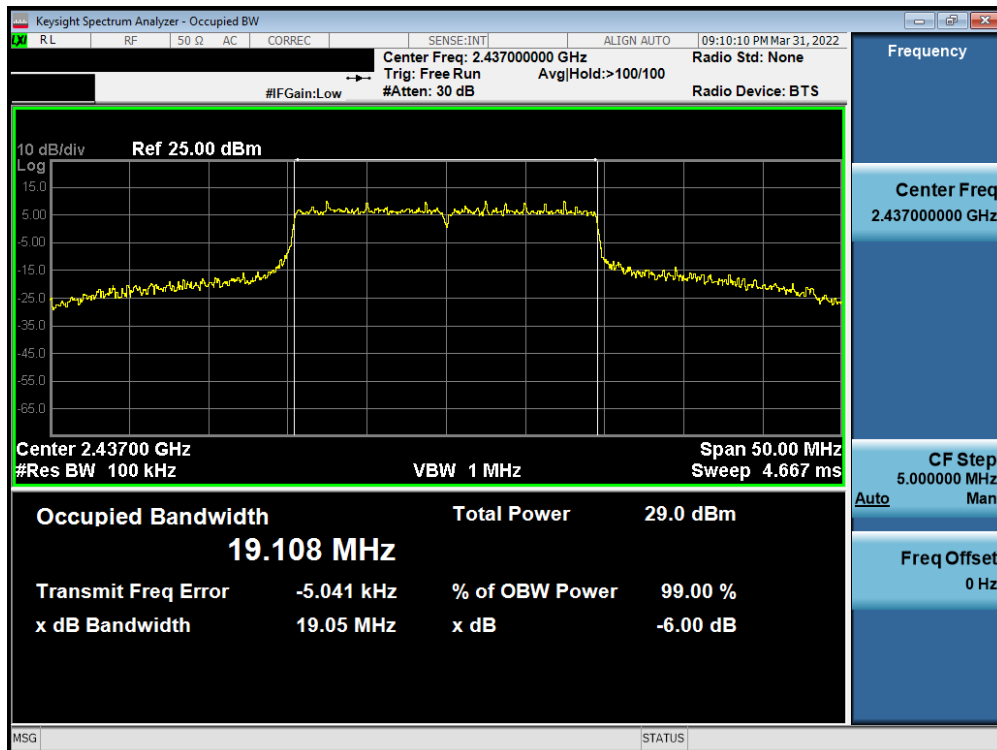


Plot 7-15. 6dB Bandwidth Plot SISO ANT2 (802.11ax 20MHz OFDMA – 26 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 25 of 213

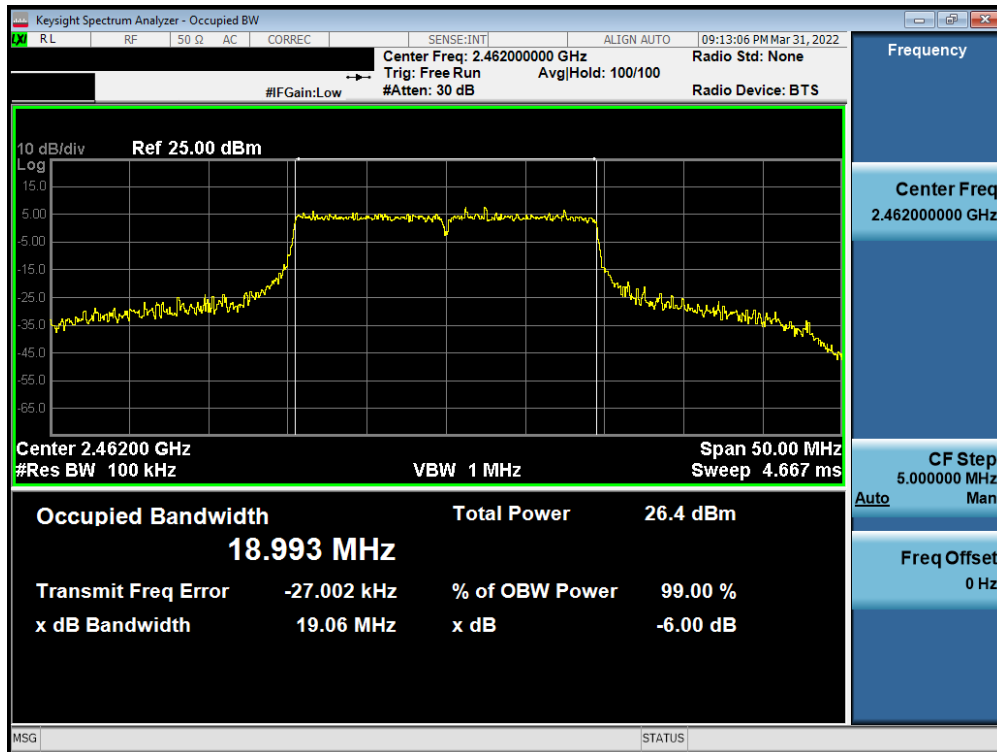


Plot 7-16. 6dB Bandwidth Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 1)



Plot 7-17. 6dB Bandwidth Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 6)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 26 of 213

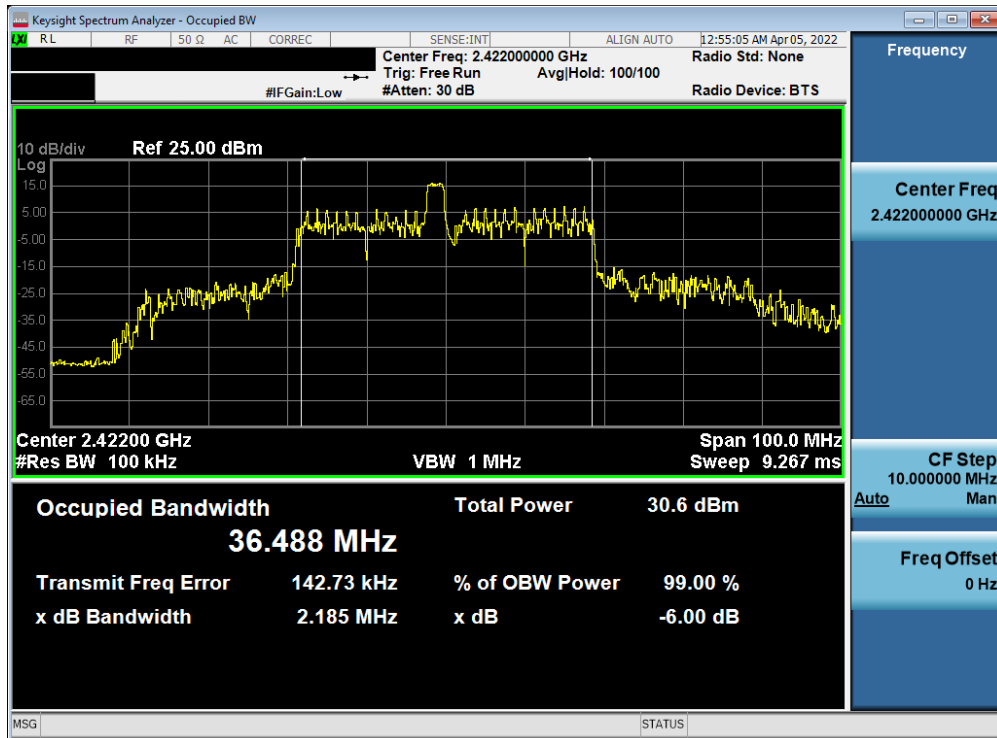


Plot 7-18. 6dB Bandwidth Plot SISO ANT2 (802.11ax 20MHz OFDMA – 242 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 27 of 213

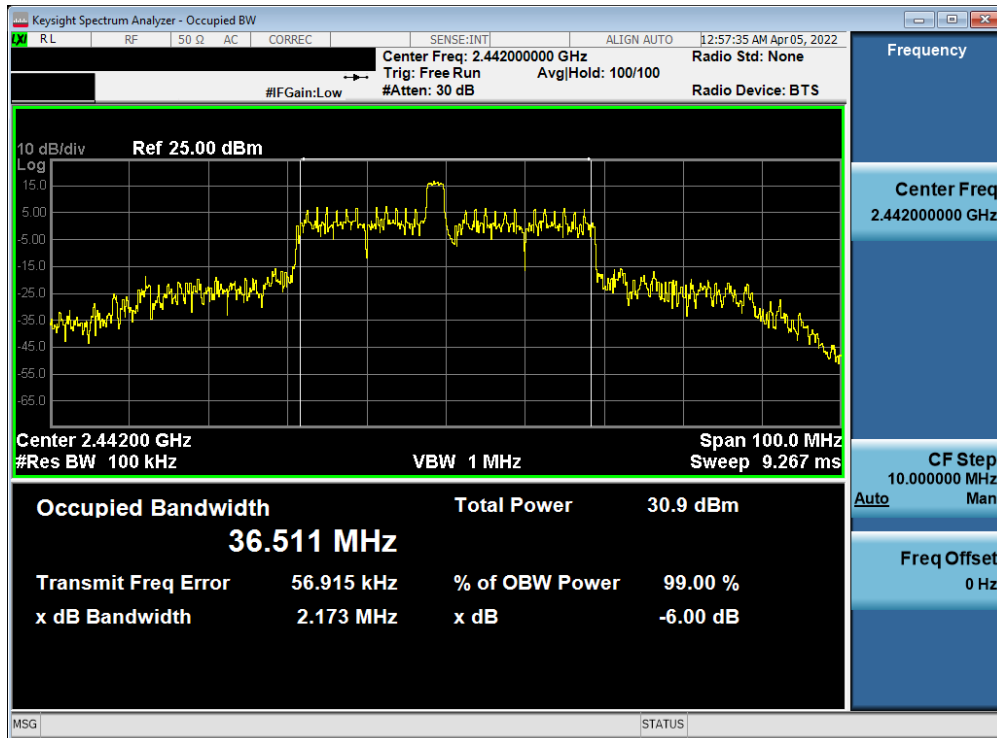
Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]
2422	3	ax	26T	MCS0	2.185	0.500
2442	7	ax	26T	MCS0	2.173	0.500
2462	11	ax	26T	MCS0	2.183	0.500
2422	3	ax	484T	MCS0	38.04	0.500
2442	7	ax	484T	MCS0	38.10	0.500
2462	11	ax	484T	MCS0	38.12	0.500

Table 7-5. Conducted Bandwidth Measurements SISO ANT2 40MHz BW

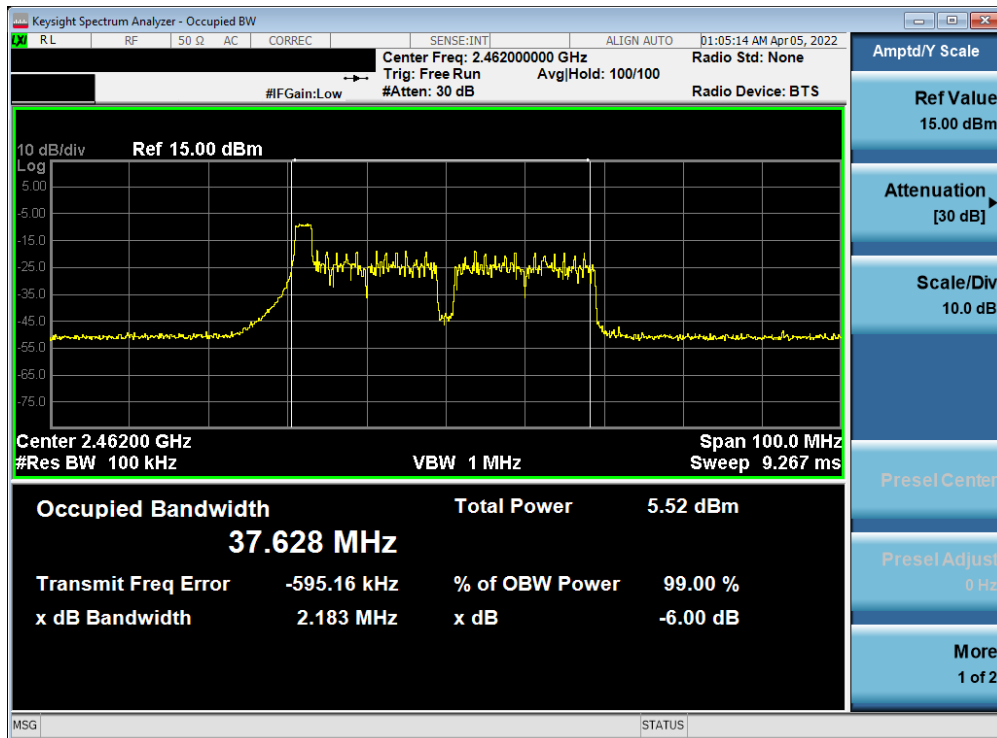


Plot 7-19. 6dB Bandwidth Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 3)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 28 of 213

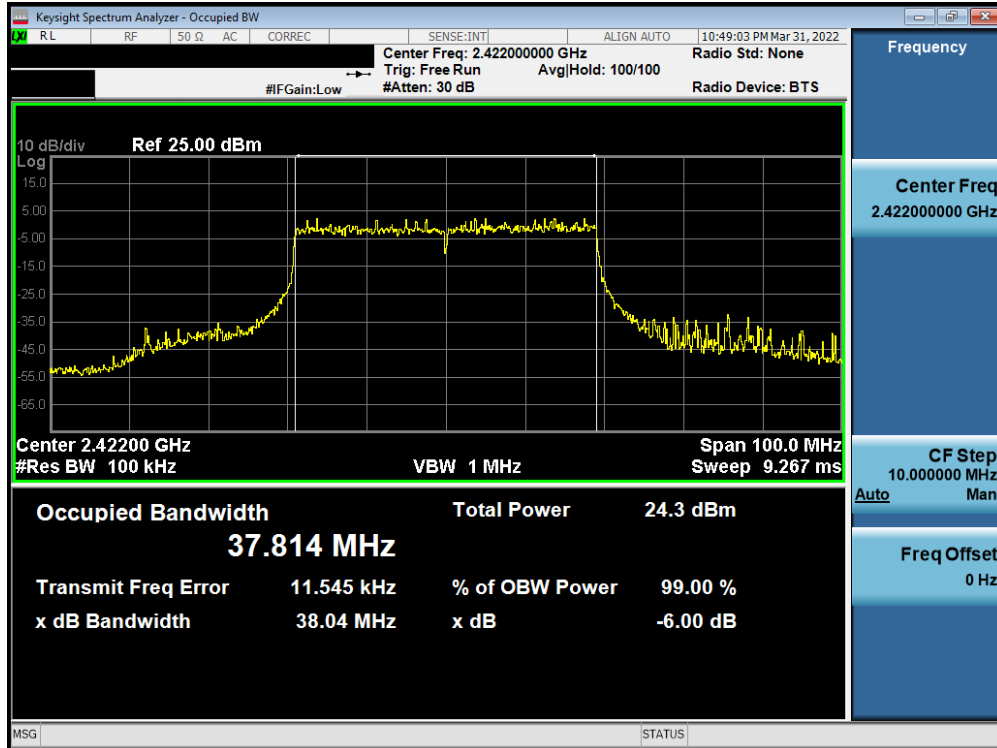


Plot 7-20. 6dB Bandwidth Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 7)

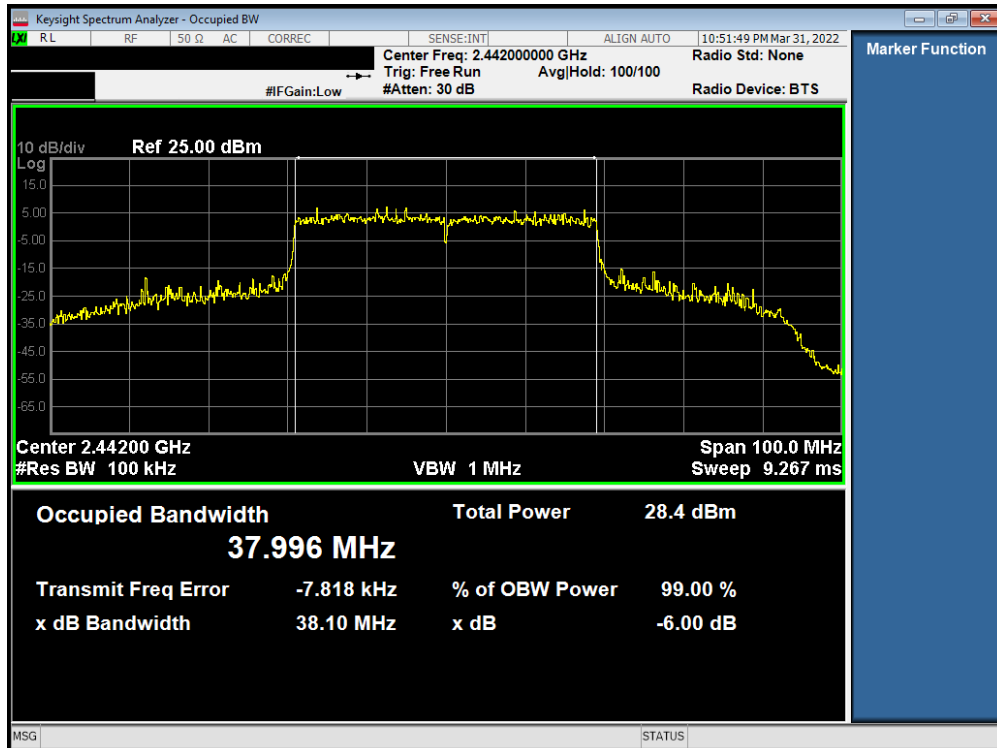


Plot 7-21. 6dB Bandwidth Plot SISO ANT2 (802.11ax 40MHz OFDMA – 26 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 29 of 213

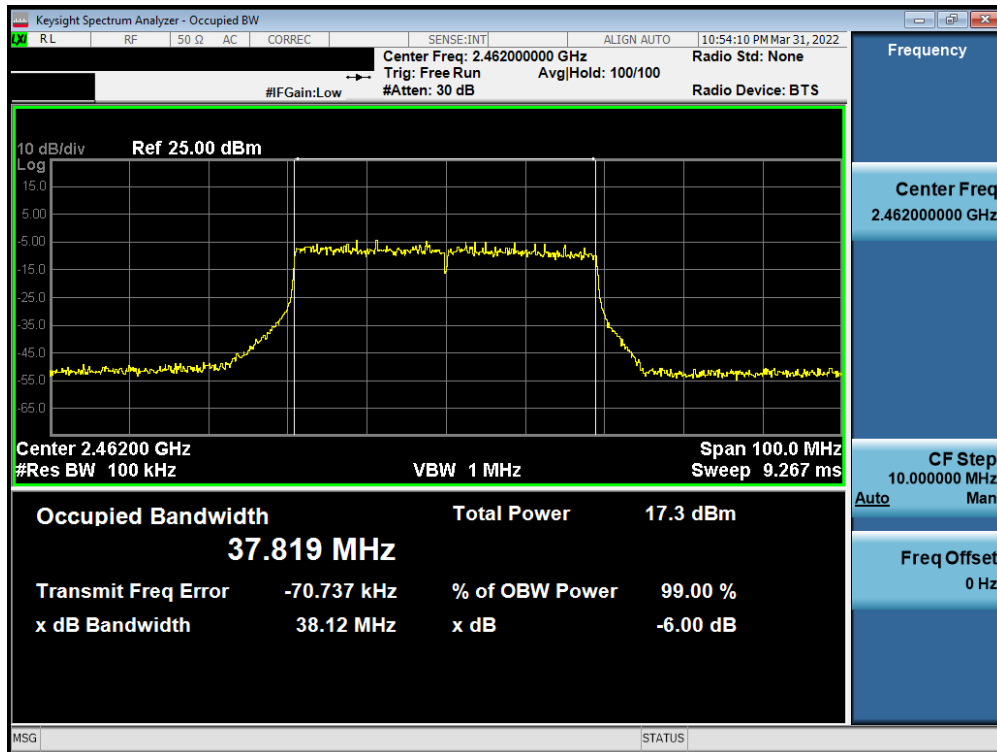


Plot 7-22. 6dB Bandwidth Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 3)



Plot 7-23. 6dB Bandwidth Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 7)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 30 of 213



Plot 7-24. 6dB Bandwidth Plot SISO ANT2 (802.11ax 40MHz OFDMA – 484 Tones – Ch. 11)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 31 of 213

7.3 Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

The maximum permissible e.i.r.p. is 4 Watts.

Test Procedure Used

ANSI C63.10-2013 – Section 11.9.1.3 PKPM1 Peak Power Method
 KDB 558074 D01 v05r02 – Section 8.3.1.3 PKPM1 Peak-reading Power Meter Method
 ANSI C63.10-2013 – Section 11.9.2.3.2 Method AVGPM-G
 KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)
 ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique
 KDB 662911 D01 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Method PKPM1 (Peak Power Measurement)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

None

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 32 of 213

V9.0 02/01/2019

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2412	1	26T	0	AVG	17.13	30.00	-12.87	1.40	18.53	36.02	-17.49
					PEAK	25.86	30.00	-4.14	1.40	27.26	36.02	-8.76
					AVG	16.95	30.00	-13.05	1.40	18.35	36.02	-17.67
				4	PEAK	25.75	30.00	-4.25	1.40	27.15	36.02	-8.87
					AVG	17.05	30.00	-12.95	1.40	18.45	36.02	-17.57
					PEAK	25.80	30.00	-4.20	1.40	27.20	36.02	-8.82
	2417	2	26T	0	AVG	17.06	30.00	-12.94	1.40	18.46	36.02	-17.56
					PEAK	25.48	30.00	-4.52	1.40	26.88	36.02	-9.14
					AVG	17.29	30.00	-12.71	1.40	18.69	36.02	-17.33
				4	PEAK	25.58	30.00	-4.42	1.40	26.98	36.02	-9.04
					AVG	17.48	30.00	-12.52	1.40	18.88	36.02	-17.14
					PEAK	25.62	30.00	-4.38	1.40	27.02	36.02	-9.00
2422	3	26T	0	AVG	17.28	30.00	-12.72	1.40	18.68	36.02	-17.34	
				PEAK	25.29	30.00	-4.71	1.40	26.69	36.02	-9.33	
				AVG	17.17	30.00	-12.83	1.40	18.57	36.02	-17.45	
			4	PEAK	25.20	30.00	-4.80	1.40	26.60	36.02	-9.42	
				AVG	17.04	30.00	-12.96	1.40	18.44	36.02	-17.58	
				PEAK	25.56	30.00	-4.44	1.40	26.96	36.02	-9.06	
2427	4	26T	0	AVG	20.73	30.00	-9.27	1.40	22.13	36.02	-13.89	
				PEAK	26.99	30.00	-3.01	1.40	28.39	36.02	-7.63	
				AVG	20.78	30.00	-9.22	1.40	22.18	36.02	-13.84	
			4	PEAK	26.93	30.00	-3.07	1.40	28.33	36.02	-7.69	
				AVG	20.84	30.00	-9.16	1.40	22.24	36.02	-13.78	
				PEAK	26.81	30.00	-3.19	1.40	28.21	36.02	-7.81	
2437	6	26T	0	AVG	20.59	30.00	-9.41	1.40	21.99	36.02	-14.03	
				PEAK	26.45	30.00	-3.55	1.40	27.85	36.02	-8.17	
				AVG	20.79	30.00	-9.21	1.40	22.19	36.02	-13.83	
			4	PEAK	26.54	30.00	-3.46	1.40	27.94	36.02	-8.08	
				AVG	20.88	30.00	-9.12	1.40	22.28	36.02	-13.74	
				PEAK	26.70	30.00	-3.30	1.40	28.10	36.02	-7.92	
2447	8	26T	0	AVG	20.85	30.00	-9.15	1.40	22.25	36.02	-13.77	
				PEAK	26.78	30.00	-3.22	1.40	28.18	36.02	-7.84	
				AVG	20.78	30.00	-9.22	1.40	22.18	36.02	-13.84	
			4	PEAK	26.70	30.00	-3.30	1.40	28.10	36.02	-7.92	
				AVG	20.80	30.00	-9.20	1.40	22.20	36.02	-13.82	
				PEAK	26.72	30.00	-3.28	1.40	28.12	36.02	-7.90	
2452	9	26T	0	AVG	19.15	30.00	-10.85	1.40	20.55	36.02	-15.47	
				PEAK	26.62	30.00	-3.38	1.40	28.02	36.02	-8.00	
				AVG	19.12	30.00	-10.88	1.40	20.52	36.02	-15.50	
			4	PEAK	26.55	30.00	-3.45	1.40	27.95	36.02	-8.07	
				AVG	19.39	30.00	-10.61	1.40	20.79	36.02	-15.23	
				PEAK	26.56	30.00	-3.44	1.40	27.96	36.02	-8.06	
2457	10	26T	0	AVG	14.30	30.00	-15.70	1.40	15.70	36.02	-20.32	
				PEAK	21.54	30.00	-8.46	1.40	22.94	36.02	-13.08	
				AVG	13.95	30.00	-16.05	1.40	15.35	36.02	-20.67	
			4	PEAK	21.14	30.00	-8.86	1.40	22.54	36.02	-13.48	
				AVG	14.22	30.00	-15.78	1.40	15.62	36.02	-20.40	
				PEAK	21.27	30.00	-8.73	1.40	22.67	36.02	-13.35	
2462	11	26T	0	AVG	-3.81	30.00	-33.81	1.40	-2.41	36.02	-38.43	
				PEAK	4.51	30.00	-25.49	1.40	5.91	36.02	-30.11	
				AVG	-3.89	30.00	-33.89	1.40	-2.49	36.02	-38.51	
			4	PEAK	3.75	30.00	-26.25	1.40	5.15	36.02	-30.87	
				AVG	-3.76	30.00	-33.76	1.40	-2.36	36.02	-38.38	
				PEAK	3.59	30.00	-26.41	1.40	4.99	36.02	-31.03	
2467	12	26T	0	AVG	-3.79	30.00	-33.79	1.40	-2.39	36.02	-38.41	
				PEAK	4.29	30.00	-25.71	1.40	5.69	36.02	-30.33	
				AVG	-3.62	30.00	-33.62	1.40	-2.22	36.02	-38.24	
			4	PEAK	4.17	30.00	-25.83	1.40	5.57	36.02	-30.45	
				AVG	-3.58	30.00	-33.58	1.40	-2.18	36.02	-38.20	
				PEAK	4.15	30.00	-25.85	1.40	5.55	36.02	-30.47	
2472	13	26T	0	AVG	-3.85	30.00	-33.85	1.40	-2.45	36.02	-38.47	
				PEAK	3.71	30.00	-26.29	1.40	5.11	36.02	-30.91	
				AVG	-3.74	30.00	-33.74	1.40	-2.34	36.02	-38.36	
			4	PEAK	4.03	30.00	-25.97	1.40	5.43	36.02	-30.59	
				AVG	-3.56	30.00	-33.56	1.40	-2.16	36.02	-38.18	
				PEAK	4.10	30.00	-25.90	1.40	5.50	36.02	-30.52	

Table 7-6. Conducted Output Power Measurements SISO ANT1 (26 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 33 of 213

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2412	1	52T	37	AVG	17.20	30.00	-12.80	1.40	18.60	36.02	-17.42
					PEAK	25.90	30.00	-4.10	1.40	27.30	36.02	-8.72
				38	AVG	17.15	30.00	-12.85	1.40	18.55	36.02	-17.47
					PEAK	25.06	30.00	-4.94	1.40	26.46	36.02	-9.56
				40	AVG	17.40	30.00	-12.60	1.40	18.80	36.02	-17.22
					PEAK	26.25	30.00	-3.75	1.40	27.65	36.02	-8.37
	2417	2	52T	37	AVG	17.41	30.00	-12.59	1.40	18.81	36.02	-17.21
					PEAK	23.61	30.00	-6.39	1.40	25.01	36.02	-11.01
				38	AVG	17.32	30.00	-12.68	1.40	18.72	36.02	-17.30
					PEAK	23.43	30.00	-6.57	1.40	24.83	36.02	-11.19
				40	AVG	17.31	30.00	-12.69	1.40	18.71	36.02	-17.31
					PEAK	23.39	30.00	-6.61	1.40	24.79	36.02	-11.23
2422	3	52T	37	AVG	17.15	30.00	-12.85	1.40	18.55	36.02	-17.47	
				PEAK	22.76	30.00	-7.24	1.40	24.16	36.02	-11.86	
			38	AVG	17.49	30.00	-12.51	1.40	18.89	36.02	-17.13	
				PEAK	23.20	30.00	-6.80	1.40	24.60	36.02	-11.42	
			40	AVG	17.15	30.00	-12.85	1.40	18.55	36.02	-17.47	
				PEAK	23.10	30.00	-6.90	1.40	24.50	36.02	-11.52	
2427	4	52T	37	AVG	20.56	30.00	-9.44	1.40	21.96	36.02	-14.06	
				PEAK	26.52	30.00	-3.48	1.40	27.92	36.02	-8.10	
			38	AVG	20.55	30.00	-9.45	1.40	21.95	36.02	-14.07	
				PEAK	26.58	30.00	-3.42	1.40	27.98	36.02	-8.04	
			40	AVG	20.69	30.00	-9.31	1.40	22.09	36.02	-13.93	
				PEAK	26.60	30.00	-3.40	1.40	28.00	36.02	-8.02	
2437	6	52T	37	AVG	20.95	30.00	-9.05	1.40	22.35	36.02	-13.67	
				PEAK	26.67	30.00	-3.33	1.40	28.07	36.02	-7.95	
			38	AVG	20.71	30.00	-9.29	1.40	22.11	36.02	-13.91	
				PEAK	26.65	30.00	-3.35	1.40	28.05	36.02	-7.97	
			40	AVG	20.73	30.00	-9.27	1.40	22.13	36.02	-13.89	
				PEAK	26.77	30.00	-3.23	1.40	28.17	36.02	-7.85	
2447	8	52T	37	AVG	20.75	30.00	-9.25	1.40	22.15	36.02	-13.87	
				PEAK	26.75	30.00	-3.25	1.40	28.15	36.02	-7.87	
			38	AVG	20.61	30.00	-9.39	1.40	22.01	36.02	-14.01	
				PEAK	26.72	30.00	-3.28	1.40	28.12	36.02	-7.90	
			40	AVG	20.66	30.00	-9.34	1.40	22.06	36.02	-13.96	
				PEAK	26.70	30.00	-3.30	1.40	28.10	36.02	-7.92	
2452	9	52T	37	AVG	19.25	30.00	-10.75	1.40	20.65	36.02	-15.37	
				PEAK	26.45	30.00	-3.55	1.40	27.85	36.02	-8.17	
			38	AVG	19.01	30.00	-10.99	1.40	20.41	36.02	-15.61	
				PEAK	26.12	30.00	-3.88	1.40	27.52	36.02	-8.50	
			40	AVG	19.17	30.00	-10.83	1.40	20.57	36.02	-15.45	
				PEAK	26.32	30.00	-3.68	1.40	27.72	36.02	-8.30	
2457	10	52T	37	AVG	13.35	30.00	-16.65	1.40	14.75	36.02	-21.27	
				PEAK	20.80	30.00	-9.20	1.40	22.20	36.02	-13.82	
			38	AVG	13.05	30.00	-16.95	1.40	14.45	36.02	-21.57	
				PEAK	19.75	30.00	-10.25	1.40	21.15	36.02	-14.87	
			40	AVG	13.26	30.00	-16.74	1.40	14.66	36.02	-21.36	
				PEAK	20.22	30.00	-9.78	1.40	21.62	36.02	-14.40	
2462	11	52T	37	AVG	0.21	30.00	-29.79	1.40	1.61	36.02	-34.41	
				PEAK	7.51	30.00	-22.49	1.40	8.91	36.02	-27.11	
			38	AVG	0.02	30.00	-29.98	1.40	1.42	36.02	-34.60	
				PEAK	7.45	30.00	-22.55	1.40	8.85	36.02	-27.17	
			40	AVG	-0.09	30.00	-30.09	1.40	1.31	36.02	-34.71	
				PEAK	7.35	30.00	-22.65	1.40	8.75	36.02	-27.27	
2467	12	52T	37	AVG	0.14	30.00	-29.86	1.40	1.54	36.02	-34.48	
				PEAK	7.55	30.00	-22.45	1.40	8.95	36.02	-27.07	
			38	AVG	-0.39	30.00	-30.39	1.40	1.01	36.02	-35.01	
				PEAK	7.20	30.00	-22.80	1.40	8.60	36.02	-27.42	
			40	AVG	-0.45	30.00	-30.45	1.40	0.95	36.02	-35.07	
				PEAK	7.12	30.00	-22.88	1.40	8.52	36.02	-27.50	
2472	13	52T	37	AVG	0.22	30.00	-29.78	1.40	1.62	36.02	-34.40	
				PEAK	7.72	30.00	-22.28	1.40	9.12	36.02	-26.90	
			38	AVG	-0.15	30.00	-30.15	1.40	1.25	36.02	-34.77	
				PEAK	7.35	30.00	-22.65	1.40	8.75	36.02	-27.27	
			40	AVG	0.22	30.00	-29.78	1.40	1.62	36.02	-34.40	
				PEAK	7.95	30.00	-22.05	1.40	9.35	36.02	-26.67	

Table 7-7. Conducted Output Power Measurements SISO ANT1 (52 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 34 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2412	1	106T	53	AVG	17.19	30.00	-12.81	1.40	18.59	36.02	-17.43
					PEAK	24.36	30.00	-5.64	1.40	25.76	36.02	-10.26
	2412	1	106T	54	AVG	17.40	30.00	-12.60	1.40	18.80	36.02	-17.22
					PEAK	24.51	30.00	-5.49	1.40	25.91	36.02	-10.11
	2417	2	106T	53	AVG	17.35	30.00	-12.65	1.40	18.75	36.02	-17.27
					PEAK	23.09	30.00	-6.91	1.40	24.49	36.02	-11.53
	2417	2	106T	54	AVG	17.30	30.00	-12.70	1.40	18.70	36.02	-17.32
					PEAK	22.96	30.00	-7.04	1.40	24.36	36.02	-11.66
	2422	3	106T	53	AVG	17.30	30.00	-12.70	1.40	18.70	36.02	-17.32
					PEAK	22.63	30.00	-7.37	1.40	24.03	36.02	-11.99
	2422	3	106T	54	AVG	17.28	30.00	-12.72	1.40	18.68	36.02	-17.34
					PEAK	23.18	30.00	-6.82	1.40	24.58	36.02	-11.44
2427	4	106T	53	AVG	20.72	30.00	-9.28	1.40	22.12	36.02	-13.90	
				PEAK	26.11	30.00	-3.89	1.40	27.51	36.02	-8.51	
2427	4	106T	54	AVG	20.68	30.00	-9.32	1.40	22.08	36.02	-13.94	
				PEAK	26.17	30.00	-3.83	1.40	27.57	36.02	-8.45	
2437	6	106T	53	AVG	20.96	30.00	-9.04	1.40	22.36	36.02	-13.66	
				PEAK	26.76	30.00	-3.24	1.40	28.16	36.02	-7.86	
2437	6	106T	54	AVG	20.47	30.00	-9.53	1.40	21.87	36.02	-14.15	
				PEAK	26.72	30.00	-3.28	1.40	28.12	36.02	-7.90	
2447	8	106T	53	AVG	20.65	30.00	-9.35	1.40	22.05	36.02	-13.97	
				PEAK	26.71	30.00	-3.29	1.40	28.11	36.02	-7.91	
2447	8	106T	54	AVG	20.61	30.00	-9.39	1.40	22.01	36.02	-14.01	
				PEAK	26.75	30.00	-3.25	1.40	28.15	36.02	-7.87	
2452	9	106T	53	AVG	19.29	30.00	-10.71	1.40	20.69	36.02	-15.33	
				PEAK	25.02	30.00	-4.98	1.40	26.42	36.02	-9.60	
2452	9	106T	54	AVG	19.45	30.00	-10.55	1.40	20.85	36.02	-15.17	
				PEAK	25.15	30.00	-4.85	1.40	26.55	36.02	-9.47	
2457	10	106T	53	AVG	13.35	30.00	-16.65	1.40	14.75	36.02	-21.27	
				PEAK	20.43	30.00	-9.57	1.40	21.83	36.02	-14.19	
2457	10	106T	54	AVG	13.45	30.00	-16.55	1.40	14.85	36.02	-21.17	
				PEAK	20.34	30.00	-9.66	1.40	21.74	36.02	-14.28	
2462	11	106T	53	AVG	0.25	30.00	-29.75	1.40	1.65	36.02	-34.37	
				PEAK	7.38	30.00	-22.62	1.40	8.78	36.02	-27.24	
2462	11	106T	54	AVG	0.45	30.00	-29.55	1.40	1.85	36.02	-34.17	
				PEAK	7.56	30.00	-22.44	1.40	8.96	36.02	-27.06	
2467	12	106T	53	AVG	0.14	30.00	-29.86	1.40	1.54	36.02	-34.48	
				PEAK	7.32	30.00	-22.68	1.40	8.72	36.02	-27.30	
2467	12	106T	54	AVG	0.08	30.00	-29.92	1.40	1.48	36.02	-34.54	
				PEAK	7.31	30.00	-22.69	1.40	8.71	36.02	-27.31	
2472	13	106T	53	AVG	0.45	30.00	-29.55	1.40	1.85	36.02	-34.17	
				PEAK	7.52	30.00	-22.48	1.40	8.92	36.02	-27.10	
2472	13	106T	54	AVG	0.25	30.00	-29.75	1.40	1.65	36.02	-34.37	
				PEAK	6.85	30.00	-23.15	1.40	8.25	36.02	-27.77	

Table 7-8. Conducted Output Power Measurements SISO ANT1 (106 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 35 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2412	1	242T	61	AVG	15.55	30.00	-14.45	1.40	16.95	36.02	-19.07
					PEAK	21.99	30.00	-8.01	1.40	23.39	36.02	-12.63
	2417	2	242T	61	AVG	17.65	30.00	-12.35	1.40	19.05	36.02	-16.97
					PEAK	24.44	30.00	-5.56	1.40	25.84	36.02	-10.18
	2422	3	242T	61	AVG	19.29	30.00	-10.71	1.40	20.69	36.02	-15.33
					PEAK	25.85	30.00	-4.15	1.40	27.25	36.02	-8.77
	2427	4	242T	61	AVG	20.74	30.00	-9.26	1.40	22.14	36.02	-13.88
					PEAK	26.35	30.00	-3.65	1.40	27.75	36.02	-8.27
	2437	6	242T	61	AVG	20.90	30.00	-9.10	1.40	22.30	36.02	-13.72
					PEAK	26.74	30.00	-3.26	1.40	28.14	36.02	-7.88
	2452	9	242T	61	AVG	20.82	30.00	-9.18	1.40	22.22	36.02	-13.80
					PEAK	26.18	30.00	-3.82	1.40	27.58	36.02	-8.44
	2457	10	242T	61	AVG	18.69	30.00	-11.31	1.40	20.09	36.02	-15.93
PEAK					25.74	30.00	-4.26	1.40	27.14	36.02	-8.88	
2462	11	242T	61	AVG	17.54	30.00	-12.46	1.40	18.94	36.02	-17.08	
				PEAK	24.49	30.00	-5.51	1.40	25.89	36.02	-10.13	
2467	12	242T	61	AVG	14.60	30.00	-15.40	1.40	16.00	36.02	-20.02	
				PEAK	21.09	30.00	-8.91	1.40	22.49	36.02	-13.53	
2472	13	242T	61	AVG	4.61	30.00	-25.39	1.40	6.01	36.02	-30.01	
				PEAK	11.23	30.00	-18.77	1.40	12.63	36.02	-23.39	

Table 7-9. Conducted Output Power Measurements SISO ANT1 (242 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 36 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2412	1	26T	0	AVG	17.15	30.00	-12.85	1.60	18.75	36.02	-17.27
					PEAK	25.89	30.00	-4.11	1.60	27.49	36.02	-8.53
				4	AVG	17.02	30.00	-12.98	1.60	18.62	36.02	-17.40
					PEAK	25.84	30.00	-4.16	1.60	27.44	36.02	-8.58
				8	AVG	17.25	30.00	-12.75	1.60	18.85	36.02	-17.17
					PEAK	26.22	30.00	-3.78	1.60	27.82	36.02	-8.20
	2417	2	26T	0	AVG	17.13	30.00	-12.87	1.60	18.73	36.02	-17.29
					PEAK	25.53	30.00	-4.47	1.60	27.13	36.02	-8.89
				4	AVG	17.07	30.00	-12.93	1.60	18.67	36.02	-17.35
					PEAK	25.39	30.00	-4.61	1.60	26.99	36.02	-9.03
				8	AVG	17.37	30.00	-12.63	1.60	18.97	36.02	-17.05
					PEAK	25.80	30.00	-4.20	1.60	27.40	36.02	-8.62
2422	3	26T	0	AVG	17.31	30.00	-12.69	1.60	18.91	36.02	-17.11	
				PEAK	25.26	30.00	-4.74	1.60	26.86	36.02	-9.16	
			4	AVG	17.22	30.00	-12.78	1.60	18.82	36.02	-17.20	
				PEAK	25.35	30.00	-4.65	1.60	26.95	36.02	-9.07	
			8	AVG	17.02	30.00	-12.98	1.60	18.62	36.02	-17.40	
				PEAK	25.32	30.00	-4.68	1.60	26.92	36.02	-9.10	
2427	4	26T	0	AVG	20.57	30.00	-9.43	1.60	22.17	36.02	-13.85	
				PEAK	26.62	30.00	-3.38	1.60	28.22	36.02	-7.80	
			4	AVG	20.70	30.00	-9.30	1.60	22.30	36.02	-13.72	
				PEAK	26.58	30.00	-3.42	1.60	28.18	36.02	-7.84	
			8	AVG	20.67	30.00	-9.33	1.60	22.27	36.02	-13.75	
				PEAK	26.41	30.00	-3.59	1.60	28.01	36.02	-8.01	
2437	6	26T	0	AVG	20.63	30.00	-9.37	1.60	22.23	36.02	-13.79	
				PEAK	26.56	30.00	-3.44	1.60	28.16	36.02	-7.86	
			4	AVG	20.67	30.00	-9.33	1.60	22.27	36.02	-13.75	
				PEAK	26.53	30.00	-3.47	1.60	28.13	36.02	-7.89	
			8	AVG	20.71	30.00	-9.29	1.60	22.31	36.02	-13.71	
				PEAK	26.47	30.00	-3.53	1.60	28.07	36.02	-7.95	
2447	8	26T	0	AVG	20.69	30.00	-9.31	1.60	22.29	36.02	-13.73	
				PEAK	26.58	30.00	-3.42	1.60	28.18	36.02	-7.84	
			4	AVG	20.72	30.00	-9.28	1.60	22.32	36.02	-13.70	
				PEAK	26.68	30.00	-3.32	1.60	28.28	36.02	-7.74	
			8	AVG	20.59	30.00	-9.41	1.60	22.19	36.02	-13.83	
				PEAK	26.48	30.00	-3.52	1.60	28.08	36.02	-7.94	
2452	9	26T	0	AVG	19.88	30.00	-10.12	1.60	21.48	36.02	-14.54	
				PEAK	26.99	30.00	-3.01	1.60	28.59	36.02	-7.43	
			4	AVG	19.25	30.00	-10.75	1.60	20.85	36.02	-15.17	
				PEAK	26.30	30.00	-3.70	1.60	27.90	36.02	-8.12	
			8	AVG	19.55	30.00	-10.45	1.60	21.15	36.02	-14.87	
				PEAK	26.99	30.00	-3.01	1.60	28.59	36.02	-7.43	
2457	10	26T	0	AVG	14.73	30.00	-15.27	1.60	16.33	36.02	-19.69	
				PEAK	22.07	30.00	-7.93	1.60	23.67	36.02	-12.35	
			4	AVG	14.26	30.00	-15.74	1.60	15.86	36.02	-20.16	
				PEAK	21.65	30.00	-8.35	1.60	23.25	36.02	-12.77	
			8	AVG	14.36	30.00	-15.64	1.60	15.96	36.02	-20.06	
				PEAK	21.70	30.00	-8.30	1.60	23.30	36.02	-12.72	
2462	11	26T	0	AVG	-3.59	30.00	-33.59	1.60	-1.99	36.02	-38.01	
				PEAK	4.40	30.00	-25.60	1.60	6.00	36.02	-30.02	
			4	AVG	-3.72	30.00	-33.72	1.60	-2.12	36.02	-38.14	
				PEAK	4.36	30.00	-25.64	1.60	5.96	36.02	-30.06	
			8	AVG	-3.64	30.00	-33.64	1.60	-2.04	36.02	-38.06	
				PEAK	3.91	30.00	-26.09	1.60	5.51	36.02	-30.51	
2467	12	26T	0	AVG	-3.64	30.00	-33.64	1.60	-2.04	36.02	-38.06	
				PEAK	3.98	30.00	-26.02	1.60	5.58	36.02	-30.44	
			4	AVG	-3.52	30.00	-33.52	1.60	-1.92	36.02	-37.94	
				PEAK	4.33	30.00	-25.67	1.60	5.93	36.02	-30.09	
			8	AVG	-3.59	30.00	-33.59	1.60	-1.99	36.02	-38.01	
				PEAK	4.63	30.00	-25.37	1.60	6.23	36.02	-29.79	
2472	13	26T	0	AVG	-3.93	30.00	-33.93	1.60	-2.33	36.02	-38.35	
				PEAK	3.88	30.00	-26.12	1.60	5.48	36.02	-30.54	
			4	AVG	-3.66	30.00	-33.66	1.60	-2.06	36.02	-38.08	
				PEAK	4.61	30.00	-25.39	1.60	6.21	36.02	-29.81	
			8	AVG	-3.94	30.00	-33.94	1.60	-2.34	36.02	-38.36	
				PEAK	4.05	30.00	-25.95	1.60	5.65	36.02	-30.37	

Table 7-10. Conducted Output Power Measurements SISO ANT2 (26 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 37 of 213

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
	2412	1	52T	37	AVG	17.25	30.00	-12.75	1.60	18.85	36.02	-17.17	
					PEAK	25.32	30.00	-4.68	1.60	26.92	36.02	-9.10	
					38	AVG	17.15	30.00	-12.85	1.60	18.75	36.02	-17.27
						PEAK	25.00	30.00	-5.00	1.60	26.60	36.02	-9.42
					40	AVG	17.20	30.00	-12.80	1.60	18.80	36.02	-17.22
						PEAK	25.17	30.00	-4.83	1.60	26.77	36.02	-9.25
	2417	2	52T	37	AVG	17.40	30.00	-12.60	1.60	19.00	36.02	-17.02	
					PEAK	23.77	30.00	-6.23	1.60	25.37	36.02	-10.65	
					38	AVG	17.23	30.00	-12.77	1.60	18.83	36.02	-17.19
						PEAK	23.14	30.00	-6.86	1.60	24.74	36.02	-11.28
					40	AVG	17.26	30.00	-12.74	1.60	18.86	36.02	-17.16
						PEAK	23.21	30.00	-6.79	1.60	24.81	36.02	-11.21
2422	3	52T	37	AVG	17.31	30.00	-12.69	1.60	18.91	36.02	-17.11		
				PEAK	23.63	30.00	-6.37	1.60	25.23	36.02	-10.79		
				38	AVG	17.48	30.00	-12.52	1.60	19.08	36.02	-16.94	
					PEAK	23.66	30.00	-6.34	1.60	25.26	36.02	-10.76	
				40	AVG	17.43	30.00	-12.57	1.60	19.03	36.02	-16.99	
					PEAK	23.03	30.00	-6.97	1.60	24.63	36.02	-11.39	
2427	4	52T	37	AVG	20.47	30.00	-9.53	1.60	22.07	36.02	-13.95		
				PEAK	26.09	30.00	-3.91	1.60	27.69	36.02	-8.33		
				38	AVG	20.35	30.00	-9.65	1.60	21.95	36.02	-14.07	
					PEAK	26.27	30.00	-3.73	1.60	27.87	36.02	-8.15	
				40	AVG	20.64	30.00	-9.36	1.60	22.24	36.02	-13.78	
					PEAK	26.58	30.00	-3.42	1.60	28.18	36.02	-7.84	
2437	6	52T	37	AVG	20.90	30.00	-9.10	1.60	22.50	36.02	-13.52		
				PEAK	26.70	30.00	-3.30	1.60	28.30	36.02	-7.72		
				38	AVG	20.96	30.00	-9.04	1.60	22.56	36.02	-13.46	
					PEAK	26.62	30.00	-3.38	1.60	28.22	36.02	-7.80	
				40	AVG	20.99	30.00	-9.01	1.60	22.59	36.02	-13.43	
					PEAK	26.81	30.00	-3.19	1.60	28.41	36.02	-7.61	
2447	8	52T	37	AVG	20.89	30.00	-9.11	1.60	22.49	36.02	-13.53		
				PEAK	26.78	30.00	-3.22	1.60	28.38	36.02	-7.64		
				38	AVG	20.81	30.00	-9.19	1.60	22.41	36.02	-13.61	
					PEAK	26.70	30.00	-3.30	1.60	28.30	36.02	-7.72	
				40	AVG	20.78	30.00	-9.22	1.60	22.38	36.02	-13.64	
					PEAK	26.75	30.00	-3.25	1.60	28.35	36.02	-7.67	
2452	9	52T	37	AVG	19.67	30.00	-10.33	1.60	21.27	36.02	-14.75		
				PEAK	26.75	30.00	-3.25	1.60	28.35	36.02	-7.67		
				38	AVG	19.52	30.00	-10.48	1.60	21.12	36.02	-14.90	
					PEAK	26.55	30.00	-3.45	1.60	28.15	36.02	-7.87	
				40	AVG	19.68	30.00	-10.32	1.60	21.28	36.02	-14.74	
					PEAK	26.48	30.00	-3.52	1.60	28.08	36.02	-7.94	
2457	10	52T	37	AVG	13.84	30.00	-16.16	1.60	15.44	36.02	-20.58		
				PEAK	20.94	30.00	-9.06	1.60	22.54	36.02	-13.48		
				38	AVG	13.45	30.00	-16.55	1.60	15.05	36.02	-20.97	
					PEAK	20.05	30.00	-9.95	1.60	21.65	36.02	-14.37	
				40	AVG	13.55	30.00	-16.45	1.60	15.15	36.02	-20.87	
					PEAK	20.35	30.00	-9.65	1.60	21.95	36.02	-14.07	
2462	11	52T	37	AVG	0.33	30.00	-29.67	1.60	1.93	36.02	-34.09		
				PEAK	7.86	30.00	-22.14	1.60	9.46	36.02	-26.56		
				38	AVG	0.05	30.00	-29.95	1.60	1.65	36.02	-34.37	
					PEAK	7.23	30.00	-22.77	1.60	8.83	36.02	-27.19	
				40	AVG	0.01	30.00	-29.99	1.60	1.61	36.02	-34.41	
					PEAK	7.33	30.00	-22.67	1.60	8.93	36.02	-27.09	
2467	12	52T	37	AVG	0.39	30.00	-29.61	1.60	1.99	36.02	-34.03		
				PEAK	7.62	30.00	-22.38	1.60	9.22	36.02	-26.80		
				38	AVG	-0.15	30.00	-30.15	1.60	1.45	36.02	-34.57	
					PEAK	7.25	30.00	-22.75	1.60	8.85	36.02	-27.17	
				40	AVG	-0.22	30.00	-30.22	1.60	1.38	36.02	-34.64	
					PEAK	7.21	30.00	-22.79	1.60	8.81	36.02	-27.21	
2472	13	52T	37	AVG	0.23	30.00	-29.77	1.60	1.83	36.02	-34.19		
				PEAK	7.40	30.00	-22.60	1.60	9.00	36.02	-27.02		
				38	AVG	-0.07	30.00	-30.07	1.60	1.53	36.02	-34.49	
					PEAK	7.16	30.00	-22.84	1.60	8.76	36.02	-27.26	
				40	AVG	0.45	30.00	-29.55	1.60	2.05	36.02	-33.97	
					PEAK	8.10	30.00	-21.90	1.60	9.70	36.02	-26.32	

Table 7-11. Conducted Output Power Measurements SISO ANT2 (52 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 38 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2412	1	106T	53	AVG	17.15	30.00	-12.85	1.60	18.75	36.02	-17.27
					PEAK	24.37	30.00	-5.63	1.60	25.97	36.02	-10.05
	2417	2	106T	54	AVG	17.33	30.00	-12.67	1.60	18.93	36.02	-17.09
					PEAK	24.56	30.00	-5.44	1.60	26.16	36.02	-9.86
	2422	3	106T	53	AVG	17.42	30.00	-12.58	1.60	19.02	36.02	-17.00
					PEAK	23.02	30.00	-6.98	1.60	24.62	36.02	-11.40
	2427	4	106T	54	AVG	17.13	30.00	-12.87	1.60	18.73	36.02	-17.29
					PEAK	22.88	30.00	-7.12	1.60	24.48	36.02	-11.54
	2437	6	106T	53	AVG	17.35	30.00	-12.65	1.60	18.95	36.02	-17.07
					PEAK	22.95	30.00	-7.05	1.60	24.55	36.02	-11.47
	2447	8	106T	54	AVG	17.30	30.00	-12.70	1.60	18.90	36.02	-17.12
					PEAK	22.86	30.00	-7.14	1.60	24.46	36.02	-11.56
2452	9	106T	53	AVG	20.60	30.00	-9.40	1.60	22.20	36.02	-13.82	
				PEAK	26.30	30.00	-3.70	1.60	27.90	36.02	-8.12	
2457	10	106T	54	AVG	20.68	30.00	-9.32	1.60	22.28	36.02	-13.74	
				PEAK	26.04	30.00	-3.96	1.60	27.64	36.02	-8.38	
2462	11	106T	53	AVG	20.88	30.00	-9.12	1.60	22.48	36.02	-13.54	
				PEAK	26.95	30.00	-3.05	1.60	28.55	36.02	-7.47	
2467	12	106T	54	AVG	20.71	30.00	-9.29	1.60	22.31	36.02	-13.71	
				PEAK	26.66	30.00	-3.34	1.60	28.26	36.02	-7.76	
2472	13	106T	53	AVG	20.81	30.00	-9.19	1.60	22.41	36.02	-13.61	
				PEAK	26.80	30.00	-3.20	1.60	28.40	36.02	-7.62	
2477	13	106T	54	AVG	20.72	30.00	-9.29	1.60	22.32	36.02	-13.70	
				PEAK	26.78	30.00	-3.34	1.60	28.38	36.02	-7.64	
2482	13	106T	53	AVG	19.72	30.00	-10.28	1.60	21.32	36.02	-14.70	
				PEAK	25.89	30.00	-4.11	1.60	27.49	36.02	-8.53	
2487	13	106T	54	AVG	19.59	30.00	-10.41	1.60	21.19	36.02	-14.83	
				PEAK	25.48	30.00	-4.52	1.60	27.08	36.02	-8.94	
2492	13	106T	53	AVG	13.74	30.00	-16.26	1.60	15.34	36.02	-20.68	
				PEAK	20.99	30.00	-9.01	1.60	22.59	36.02	-13.43	
2497	13	106T	54	AVG	13.59	30.00	-16.41	1.60	15.19	36.02	-20.83	
				PEAK	20.76	30.00	-9.24	1.60	22.36	36.02	-13.66	
2502	13	106T	53	AVG	0.51	30.00	-29.49	1.60	2.11	36.02	-33.91	
				PEAK	7.62	30.00	-22.38	1.60	9.22	36.02	-26.80	
2507	13	106T	54	AVG	0.62	30.00	-29.38	1.60	2.22	36.02	-33.80	
				PEAK	7.85	30.00	-22.15	1.60	9.45	36.02	-26.57	
2512	13	106T	53	AVG	0.22	30.00	-29.78	1.60	1.82	36.02	-34.20	
				PEAK	7.39	30.00	-22.61	1.60	8.99	36.02	-27.03	
2517	13	106T	54	AVG	0.18	30.00	-29.82	1.60	1.78	36.02	-34.24	
				PEAK	7.35	30.00	-22.65	1.60	8.95	36.02	-27.07	
2522	13	106T	53	AVG	0.65	30.00	-29.35	1.60	2.25	36.02	-33.77	
				PEAK	7.61	30.00	-22.39	1.60	9.21	36.02	-26.81	
2527	13	106T	54	AVG	0.17	30.00	-29.83	1.60	1.77	36.02	-34.25	
				PEAK	6.75	30.00	-23.25	1.60	8.35	36.02	-27.67	

Table 7-12. Conducted Output Power Measurements SISO ANT2 (106 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 39 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2412	1	242T	61	AVG	15.95	30.00	-14.05	1.60	17.55	36.02	-18.47
					PEAK	22.68	30.00	-7.32	1.60	24.28	36.02	-11.74
	2417	2	242T	61	AVG	17.95	30.00	-12.05	1.60	19.55	36.02	-16.47
					PEAK	24.68	30.00	-5.32	1.60	26.28	36.02	-9.74
	2422	3	242T	61	AVG	19.35	30.00	-10.65	1.60	20.95	36.02	-15.07
					PEAK	25.95	30.00	-4.05	1.60	27.55	36.02	-8.47
	2427	4	242T	61	AVG	20.77	30.00	-9.23	1.60	22.37	36.02	-13.65
					PEAK	26.27	30.00	-3.73	1.60	27.87	36.02	-8.15
	2437	6	242T	61	AVG	20.80	30.00	-9.20	1.60	22.40	36.02	-13.62
					PEAK	26.45	30.00	-3.55	1.60	28.05	36.02	-7.97
	2452	9	242T	61	AVG	20.69	30.00	-9.31	1.60	22.29	36.02	-13.73
					PEAK	26.22	30.00	-3.78	1.60	27.82	36.02	-8.20
2457	10	242T	61	AVG	18.75	30.00	-11.25	1.60	20.35	36.02	-15.67	
				PEAK	25.70	30.00	-4.30	1.60	27.30	36.02	-8.72	
2462	11	242T	61	AVG	17.75	30.00	-12.25	1.60	19.35	36.02	-16.67	
				PEAK	24.61	30.00	-5.39	1.60	26.21	36.02	-9.81	
2467	12	242T	61	AVG	14.47	30.00	-15.53	1.60	16.07	36.02	-19.95	
				PEAK	20.94	30.00	-9.06	1.60	22.54	36.02	-13.48	
2472	13	242T	61	AVG	4.67	30.00	-25.33	1.60	6.27	36.02	-29.75	
				PEAK	11.19	30.00	-18.81	1.60	12.79	36.02	-23.23	

Table 7-13. Conducted Output Power Measurements SISO ANT2 (242 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 40 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	AVG						
2412	1	26T	0	AVG	17.13	17.15	20.15	30.00	-9.85	4.51	24.66	36.02	-11.36	
				PEAK	25.86	25.89	28.89	30.00	-1.11	4.51	33.40	36.02	-2.62	
			4	AVG	16.95	17.02	20.00	30.00	-10.00	4.51	24.51	36.02	-11.51	
				PEAK	25.75	25.84	28.81	30.00	-1.19	4.51	33.32	36.02	-2.70	
			8	AVG	17.05	17.25	20.16	30.00	-9.84	4.51	24.67	36.02	-11.35	
				PEAK	25.80	26.22	29.03	30.00	-0.97	4.51	33.54	36.02	-2.48	
2417	2	26T	0	AVG	17.06	17.13	20.11	30.00	-9.89	4.51	24.62	36.02	-11.40	
				PEAK	25.48	25.53	28.52	30.00	-1.48	4.51	33.03	36.02	-2.99	
			4	AVG	17.29	17.07	20.19	30.00	-9.81	4.51	24.70	36.02	-11.32	
				PEAK	25.58	25.39	28.50	30.00	-1.50	4.51	33.01	36.02	-3.01	
			8	AVG	17.48	17.37	20.44	30.00	-9.56	4.51	24.95	36.02	-11.07	
				PEAK	25.62	25.80	28.72	30.00	-1.28	4.51	33.23	36.02	-2.79	
2422	3	26T	0	AVG	17.28	17.31	20.31	30.00	-9.69	4.51	24.82	36.02	-11.20	
				PEAK	25.29	25.26	28.29	30.00	-1.71	4.51	32.80	36.02	-3.22	
			4	AVG	17.17	17.22	20.21	30.00	-9.79	4.51	24.72	36.02	-11.30	
				PEAK	25.20	25.35	28.29	30.00	-1.71	4.51	32.80	36.02	-3.22	
			8	AVG	17.04	17.02	20.04	30.00	-9.96	4.51	24.55	36.02	-11.47	
				PEAK	25.56	25.32	28.45	30.00	-1.55	4.51	32.96	36.02	-3.06	
2427	4	26T	0	AVG	20.73	20.57	23.66	30.00	-6.34	4.51	28.17	36.02	-7.85	
				PEAK	26.99	26.62	29.82	30.00	-0.18	4.51	34.33	36.02	-1.69	
			4	AVG	20.78	20.70	23.75	30.00	-6.25	4.51	28.26	36.02	-7.76	
				PEAK	26.93	26.58	29.77	30.00	-0.23	4.51	34.28	36.02	-1.74	
			8	AVG	20.84	20.67	23.77	30.00	-6.23	4.51	28.28	36.02	-7.74	
				PEAK	26.81	26.41	29.62	30.00	-0.38	4.51	34.14	36.02	-1.88	
2437	6	26T	0	AVG	20.59	20.63	23.62	30.00	-6.38	4.51	28.13	36.02	-7.89	
				PEAK	26.45	26.56	29.52	30.00	-0.48	4.51	34.03	36.02	-1.99	
			4	AVG	20.79	20.67	23.74	30.00	-6.26	4.51	28.25	36.02	-7.77	
				PEAK	26.54	26.53	29.55	30.00	-0.45	4.51	34.06	36.02	-1.96	
			8	AVG	20.88	20.71	23.81	30.00	-6.19	4.51	28.32	36.02	-7.70	
				PEAK	26.70	26.47	29.60	30.00	-0.40	4.51	34.11	36.02	-1.91	
2447	8	26T	0	AVG	20.85	20.69	23.78	30.00	-6.22	4.51	28.29	36.02	-7.73	
				PEAK	26.78	26.58	29.69	30.00	-0.31	4.51	34.20	36.02	-1.82	
			4	AVG	20.78	20.72	23.76	30.00	-6.24	4.51	28.27	36.02	-7.75	
				PEAK	26.70	26.68	29.70	30.00	-0.30	4.51	34.21	36.02	-1.81	
			8	AVG	20.80	20.59	23.71	30.00	-6.29	4.51	28.22	36.02	-7.80	
				PEAK	26.72	26.48	29.61	30.00	-0.39	4.51	34.12	36.02	-1.90	
2452	9	26T	0	AVG	18.78	19.46	22.14	30.00	-7.86	4.51	26.65	36.02	-9.37	
				PEAK	26.22	26.59	29.42	30.00	-0.58	4.51	33.93	36.02	-2.09	
			4	AVG	18.72	18.98	21.86	30.00	-8.14	4.51	26.37	36.02	-9.65	
				PEAK	26.23	26.02	29.14	30.00	-0.86	4.51	33.65	36.02	-2.37	
			8	AVG	18.85	19.17	22.02	30.00	-7.98	4.51	26.53	36.02	-9.49	
				PEAK	26.40	26.45	29.44	30.00	-0.56	4.51	33.95	36.02	-2.07	
2457	10	26T	0	AVG	13.69	13.85	16.78	30.00	-13.22	4.51	21.29	36.02	-14.73	
				PEAK	20.69	21.15	23.94	30.00	-6.06	4.51	28.45	36.02	-7.57	
			4	AVG	12.99	13.35	16.18	30.00	-13.82	4.51	20.69	36.02	-15.33	
				PEAK	20.91	20.78	23.86	30.00	-6.14	4.51	28.37	36.02	-7.65	
			8	AVG	13.35	13.20	16.29	30.00	-13.71	4.51	20.80	36.02	-15.22	
				PEAK	20.78	20.80	23.80	30.00	-6.20	4.51	28.31	36.02	-7.71	
2462	11	26T	0	AVG	-3.81	-3.59	-0.69	30.00	-30.69	4.51	3.82	36.02	-32.20	
				PEAK	4.51	4.40	7.47	30.00	-22.53	4.51	11.98	36.02	-24.04	
			4	AVG	-3.89	-3.72	-0.79	30.00	-30.79	4.51	3.72	36.02	-32.30	
				PEAK	3.75	4.36	7.08	30.00	-22.92	4.51	11.59	36.02	-24.43	
			8	AVG	-3.76	-3.64	-0.69	30.00	-30.69	4.51	3.82	36.02	-32.20	
				PEAK	3.59	3.91	6.76	30.00	-23.24	4.51	11.27	36.02	-24.75	
2467	12	26T	0	AVG	-3.79	-3.64	-0.70	30.00	-30.70	4.51	3.81	36.02	-32.21	
				PEAK	4.29	3.98	7.15	30.00	-22.85	4.51	11.66	36.02	-24.36	
			4	AVG	-3.62	-3.52	-0.56	30.00	-30.56	4.51	3.95	36.02	-32.07	
				PEAK	4.17	4.33	7.26	30.00	-22.74	4.51	11.77	36.02	-24.25	
			8	AVG	-3.58	-3.59	-0.57	30.00	-30.57	4.51	3.94	36.02	-32.08	
				PEAK	4.15	4.63	7.41	30.00	-22.59	4.51	11.92	36.02	-24.10	
2472	13	26T	0	AVG	-3.85	-3.93	-0.88	30.00	-30.88	4.51	3.63	36.02	-32.39	
				PEAK	3.71	3.88	6.81	30.00	-23.19	4.51	11.32	36.02	-24.70	
			4	AVG	-3.74	-3.66	-0.69	30.00	-30.69	4.51	3.82	36.02	-32.20	
				PEAK	4.03	4.61	7.34	30.00	-22.66	4.51	11.85	36.02	-24.17	
			8	AVG	-3.56	-3.94	-0.74	30.00	-30.74	4.51	3.78	36.02	-32.25	
				PEAK	4.10	4.05	7.09	30.00	-22.91	4.51	11.60	36.02	-24.42	

Table 7-14. Conducted Output Power Measurements MIMO (26 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 41 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	AVG						
2412	1	52T	37	AVG	17.20	17.25	20.24	30.00	-9.76	4.51	24.75	36.02	-11.27	
				PEAK	25.90	25.32	28.63	30.00	-1.37	4.51	33.14	36.02	-2.88	
				AVG	17.15	17.15	20.16	30.00	-9.84	4.51	24.67	36.02	-11.35	
			38	PEAK	25.06	25.00	28.04	30.00	-1.96	4.51	32.55	36.02	-3.47	
				AVG	17.40	17.20	20.31	30.00	-9.69	4.51	24.82	36.02	-11.20	
				PEAK	26.25	25.17	28.75	30.00	-1.25	4.51	33.26	36.02	-2.76	
	2417	2	52T	37	AVG	17.41	17.40	20.42	30.00	-9.58	4.51	24.93	36.02	-11.09
					PEAK	23.61	23.77	26.70	30.00	-3.30	4.51	31.21	36.02	-4.81
					AVG	17.32	17.23	20.29	30.00	-9.71	4.51	24.80	36.02	-11.22
				38	PEAK	23.43	23.14	26.30	30.00	-3.70	4.51	30.81	36.02	-5.21
					AVG	17.15	17.26	20.22	30.00	-9.78	4.51	24.73	36.02	-11.29
					PEAK	23.10	23.21	26.17	30.00	-3.83	4.51	30.68	36.02	-5.34
2422	3	52T	37	AVG	17.15	17.31	20.24	30.00	-9.76	4.51	24.75	36.02	-11.27	
				PEAK	22.76	23.63	26.23	30.00	-3.77	4.51	30.74	36.02	-5.28	
				AVG	17.49	17.46	20.49	30.00	-9.51	4.51	25.00	36.02	-11.02	
			38	PEAK	23.20	23.66	26.45	30.00	-3.55	4.51	30.96	36.02	-5.06	
				AVG	17.15	17.43	20.30	30.00	-9.70	4.51	24.81	36.02	-11.21	
				PEAK	23.10	23.03	26.08	30.00	-3.92	4.51	30.59	36.02	-5.43	
2427	4	52T	37	AVG	20.56	20.47	23.53	30.00	-6.47	4.51	28.04	36.02	-7.98	
				PEAK	26.52	26.09	29.32	30.00	-0.68	4.51	33.83	36.02	-2.19	
				AVG	20.55	20.35	23.46	30.00	-6.54	4.51	27.97	36.02	-8.05	
			38	PEAK	26.58	26.27	29.44	30.00	-0.56	4.51	33.95	36.02	-2.07	
				AVG	20.69	20.64	23.68	30.00	-6.32	4.51	28.19	36.02	-7.83	
				PEAK	26.60	26.58	29.60	30.00	-0.40	4.51	34.11	36.02	-1.91	
2437	6	52T	37	AVG	20.95	20.90	23.94	30.00	-6.06	4.51	28.45	36.02	-7.57	
				PEAK	26.67	26.70	29.70	30.00	-0.30	4.51	34.21	36.02	-1.81	
				AVG	20.71	20.96	23.85	30.00	-6.15	4.51	28.36	36.02	-7.66	
			38	PEAK	26.65	26.62	29.65	30.00	-0.35	4.51	34.16	36.02	-1.86	
				AVG	20.73	20.99	23.87	30.00	-6.13	4.51	28.38	36.02	-7.64	
				PEAK	26.77	26.81	29.80	30.00	-0.20	4.51	34.31	36.02	-1.71	
2447	8	52T	37	AVG	20.75	20.89	23.83	30.00	-6.17	4.51	28.34	36.02	-7.68	
				PEAK	26.75	26.78	29.78	30.00	-0.22	4.51	34.29	36.02	-1.73	
				AVG	20.61	20.81	23.72	30.00	-6.28	4.51	28.23	36.02	-7.79	
			38	PEAK	26.72	26.70	29.72	30.00	-0.28	4.51	34.23	36.02	-1.79	
				AVG	20.66	20.78	23.73	30.00	-6.27	4.51	28.24	36.02	-7.78	
				PEAK	26.70	26.75	29.74	30.00	-0.26	4.51	34.25	36.02	-1.77	
2452	9	52T	37	AVG	19.25	19.45	22.36	30.00	-7.64	4.51	26.87	36.02	-9.15	
				PEAK	26.45	26.55	29.51	30.00	-0.49	4.51	34.02	36.02	-2.00	
				AVG	19.01	19.48	22.26	30.00	-7.74	4.51	26.77	36.02	-9.25	
			38	PEAK	26.12	26.49	29.32	30.00	-0.68	4.51	33.83	36.02	-2.19	
				AVG	19.17	19.49	22.34	30.00	-7.66	4.51	26.85	36.02	-9.17	
				PEAK	26.32	26.47	29.41	30.00	-0.59	4.51	33.92	36.02	-2.10	
2457	10	52T	37	AVG	13.35	13.84	16.61	30.00	-13.39	4.51	21.12	36.02	-14.90	
				PEAK	20.80	20.94	23.88	30.00	-6.12	4.51	28.39	36.02	-7.63	
				AVG	13.05	13.45	16.26	30.00	-13.74	4.51	20.78	36.02	-15.24	
			38	PEAK	19.75	20.05	22.91	30.00	-7.09	4.51	27.42	36.02	-8.60	
				AVG	13.26	13.55	16.42	30.00	-13.58	4.51	20.93	36.02	-15.09	
				PEAK	20.22	20.35	23.30	30.00	-6.70	4.51	27.81	36.02	-8.21	
2462	11	52T	37	AVG	0.21	0.33	3.28	30.00	-26.72	4.51	7.79	36.02	-28.23	
				PEAK	7.51	7.86	10.70	30.00	-19.30	4.51	15.21	36.02	-20.81	
				AVG	0.02	0.05	3.05	30.00	-26.95	4.51	7.56	36.02	-28.46	
			38	PEAK	7.45	7.23	10.35	30.00	-19.65	4.51	14.86	36.02	-21.16	
				AVG	-0.09	0.01	2.97	30.00	-27.03	4.51	7.48	36.02	-28.54	
				PEAK	7.35	7.33	10.35	30.00	-19.65	4.51	14.86	36.02	-21.16	
2467	12	52T	37	AVG	0.14	0.39	3.28	30.00	-26.72	4.51	7.79	36.02	-28.23	
				PEAK	7.55	7.62	10.60	30.00	-19.40	4.51	15.11	36.02	-20.91	
				AVG	-0.39	-0.15	2.74	30.00	-27.26	4.51	7.25	36.02	-28.77	
			38	PEAK	7.20	7.25	10.24	30.00	-19.76	4.51	14.75	36.02	-21.27	
				AVG	-0.45	-0.22	2.68	30.00	-27.32	4.51	7.19	36.02	-28.83	
				PEAK	7.12	7.21	10.18	30.00	-19.82	4.51	14.69	36.02	-21.33	
2472	13	52T	37	AVG	0.22	0.23	3.24	30.00	-26.76	4.51	7.75	36.02	-28.27	
				PEAK	7.72	7.40	10.57	30.00	-19.43	4.51	15.08	36.02	-20.94	
				AVG	-0.15	-0.07	2.90	30.00	-27.10	4.51	7.41	36.02	-28.61	
			38	PEAK	7.35	7.16	10.27	30.00	-19.73	4.51	14.78	36.02	-21.24	
				AVG	0.22	0.45	3.35	30.00	-26.65	4.51	7.86	36.02	-28.16	
				PEAK	7.95	8.10	11.04	30.00	-18.96	4.51	15.55	36.02	-20.47	

Table 7-15. Conducted Output Power Measurements MIMO (52 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 42 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	AVG						
2412	1	106T	53	AVG	17.19	17.15	20.18	30.00	-9.82	4.51	24.69	36.02	-11.33	
				PEAK	24.36	24.37	27.38	30.00	-2.62	4.51	31.89	36.02	-4.13	
				AVG	17.40	17.33	20.38	30.00	-9.62	4.51	24.89	36.02	-11.13	
				PEAK	24.51	24.56	27.55	30.00	-2.45	4.51	32.06	36.02	-3.96	
2417	2	106T	53	AVG	17.35	17.42	20.40	30.00	-9.60	4.51	24.91	36.02	-11.11	
				PEAK	23.09	23.02	26.07	30.00	-3.93	4.51	30.58	36.02	-5.44	
				AVG	17.30	17.13	20.23	30.00	-9.77	4.51	24.74	36.02	-11.28	
				PEAK	22.96	22.88	25.93	30.00	-4.07	4.51	30.44	36.02	-5.58	
2422	3	106T	53	AVG	17.30	17.35	20.34	30.00	-9.66	4.51	24.85	36.02	-11.17	
				PEAK	22.63	22.95	25.80	30.00	-4.20	4.51	30.31	36.02	-5.71	
				AVG	17.28	17.30	20.30	30.00	-9.70	4.51	24.81	36.02	-11.21	
				PEAK	23.18	22.86	26.03	30.00	-3.97	4.51	30.54	36.02	-5.48	
2427	4	106T	53	AVG	20.72	20.60	23.67	30.00	-6.33	4.51	28.18	36.02	-7.84	
				PEAK	26.11	26.30	29.22	30.00	-0.78	4.51	33.73	36.02	-2.29	
				AVG	20.68	20.68	23.69	30.00	-6.31	4.51	28.20	36.02	-7.82	
				PEAK	26.17	26.04	29.12	30.00	-0.88	4.51	33.63	36.02	-2.39	
2437	6	106T	53	AVG	20.96	20.88	23.93	30.00	-6.07	4.51	28.44	36.02	-7.58	
				PEAK	26.76	26.95	29.87	30.00	-0.13	4.51	34.38	36.02	-1.64	
				AVG	20.47	20.71	23.60	30.00	-6.40	4.51	28.11	36.02	-7.91	
				PEAK	26.72	26.66	29.70	30.00	-0.30	4.51	34.21	36.02	-1.81	
2447	8	106T	53	AVG	20.65	20.81	23.74	30.00	-6.26	4.51	28.25	36.02	-7.77	
				PEAK	26.71	26.80	29.77	30.00	-0.23	4.51	34.28	36.02	-1.74	
				AVG	20.61	20.72	23.68	30.00	-6.32	4.51	28.19	36.02	-7.83	
				PEAK	26.75	26.78	29.78	30.00	-0.22	4.51	34.29	36.02	-1.73	
2452	9	106T	53	AVG	18.78	19.43	22.13	30.00	-7.87	4.51	26.64	36.02	-9.38	
				PEAK	24.67	25.38	28.05	30.00	-1.95	4.51	32.56	36.02	-3.46	
				AVG	18.99	19.15	22.08	30.00	-7.92	4.51	26.59	36.02	-9.43	
				PEAK	25.15	25.15	28.16	30.00	-1.84	4.51	32.67	36.02	-3.35	
2457	10	106T	53	AVG	13.35	13.74	16.56	30.00	-13.44	4.51	21.07	36.02	-14.95	
				PEAK	20.43	20.99	23.73	30.00	-6.27	4.51	28.24	36.02	-7.78	
				AVG	13.45	13.59	16.53	30.00	-13.47	4.51	21.04	36.02	-14.98	
				PEAK	20.34	20.76	23.57	30.00	-6.43	4.51	28.08	36.02	-7.94	
2462	11	106T	53	AVG	0.25	0.51	3.39	30.00	-26.61	4.51	7.90	36.02	-28.12	
				PEAK	7.38	7.62	10.51	30.00	-19.49	4.51	15.02	36.02	-21.00	
				AVG	0.45	0.62	3.55	30.00	-26.45	4.51	8.06	36.02	-27.96	
				PEAK	7.56	7.85	10.72	30.00	-19.28	4.51	15.23	36.02	-20.79	
2467	12	106T	53	AVG	0.14	0.22	3.19	30.00	-26.81	4.51	7.70	36.02	-28.32	
				PEAK	7.32	7.39	10.37	30.00	-19.63	4.51	14.88	36.02	-21.14	
				AVG	0.08	0.18	3.14	30.00	-26.86	4.51	7.65	36.02	-28.37	
				PEAK	7.31	7.35	10.34	30.00	-19.66	4.51	14.85	36.02	-21.17	
2472	13	106T	53	AVG	0.45	0.65	3.56	30.00	-26.44	4.51	8.07	36.02	-27.95	
				PEAK	7.52	7.61	10.58	30.00	-19.42	4.51	15.09	36.02	-20.93	
				AVG	0.25	0.17	3.22	30.00	-26.78	4.51	7.73	36.02	-28.29	
				PEAK	6.85	6.75	9.81	30.00	-20.19	4.51	14.32	36.02	-21.70	

Table 7-16. Conducted Output Power Measurements MIMO (106 Tones) – 20MHz

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	AVG						
2412	1	242T	61	AVG	15.55	15.95	18.76	30.00	-11.24	4.51	23.28	36.02	-12.74	
				PEAK	21.99	22.68	25.36	30.00	-4.64	4.51	29.87	36.02	-6.15	
2417	2	242T	61	AVG	17.65	17.95	20.81	30.00	-9.19	4.51	25.32	36.02	-10.70	
				PEAK	24.44	24.68	27.57	30.00	-2.43	4.51	32.08	36.02	-3.94	
2422	3	242T	61	AVG	19.29	19.35	22.33	30.00	-7.67	4.51	26.84	36.02	-9.18	
				PEAK	25.85	25.95	28.91	30.00	-1.09	4.51	33.42	36.02	-2.60	
2427	4	242T	61	AVG	20.74	20.77	23.77	30.00	-6.23	4.51	28.28	36.02	-7.74	
				PEAK	26.35	26.27	29.32	30.00	-0.68	4.51	33.83	36.02	-2.19	
2437	6	242T	61	AVG	20.90	20.80	23.86	30.00	-6.14	4.51	28.37	36.02	-7.65	
				PEAK	26.74	26.45	29.61	30.00	-0.39	4.51	34.12	36.02	-1.90	
2452	9	242T	61	AVG	18.69	18.75	21.73	30.00	-8.27	4.51	26.24	36.02	-9.78	
				PEAK	25.74	25.70	28.73	30.00	-1.27	4.51	33.24	36.02	-2.78	
2457	10	242T	61	AVG	18.69	18.75	21.73	30.00	-8.27	4.51	26.24	36.02	-9.78	
				PEAK	25.74	25.70	28.73	30.00	-1.27	4.51	33.24	36.02	-2.78	
2462	11	242T	61	AVG	17.54	17.75	20.66	30.00	-9.34	4.51	25.17	36.02	-10.85	
				PEAK	24.49	24.61	27.56	30.00	-2.44	4.51	32.07	36.02	-3.95	
2467	12	242T	61	AVG	14.60	14.47	17.55	30.00	-12.45	4.51	22.06	36.02	-13.96	
				PEAK	21.09	20.94	24.03	30.00	-5.97	4.51	28.54	36.02	-7.48	
2472	13	242T	61	AVG	4.61	4.67	7.65	30.00	-22.35	4.51	12.16	36.02	-23.86	
				PEAK	11.23	11.19	14.22	30.00	-15.78	4.51	18.73	36.02	-17.29	

Table 7-17. Conducted Output Power Measurements MIMO (242 Tones) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 43 of 213

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	26T	0	AVG	16.76	30.00	-13.24	1.40	18.16	36.02	-17.86
					PEAK	24.97	30.00	-5.03	1.40	26.37	36.02	-9.65
				8	AVG	17.16	30.00	-12.84	1.40	18.56	36.02	-17.46
					PEAK	25.21	30.00	-4.79	1.40	26.61	36.02	-9.41
				17	AVG	16.92	30.00	-13.08	1.40	18.32	36.02	-17.70
					PEAK	25.10	30.00	-4.90	1.40	26.50	36.02	-9.52
	2427	4	26T	0	AVG	20.95	30.00	-9.05	1.40	22.35	36.02	-13.67
					PEAK	26.75	30.00	-3.25	1.40	28.15	36.02	-7.87
				8	AVG	20.57	30.00	-9.43	1.40	21.97	36.02	-14.05
					PEAK	26.59	30.00	-3.41	1.40	27.99	36.02	-8.03
				17	AVG	20.62	30.00	-9.38	1.40	22.02	36.02	-14.00
					PEAK	26.58	30.00	-3.42	1.40	27.98	36.02	-8.04
2442	7	26T	0	AVG	20.76	30.00	-9.24	1.40	22.16	36.02	-13.86	
				PEAK	26.90	30.00	-3.10	1.40	28.30	36.02	-7.72	
			8	AVG	20.72	30.00	-9.28	1.40	22.12	36.02	-13.90	
				PEAK	26.55	30.00	-3.45	1.40	27.95	36.02	-8.07	
			17	AVG	20.77	30.00	-9.23	1.40	22.17	36.02	-13.85	
				PEAK	26.70	30.00	-3.30	1.40	28.10	36.02	-7.92	
2447	8	26T	0	AVG	20.42	30.00	-9.58	1.40	21.82	36.02	-14.20	
				PEAK	26.48	30.00	-3.52	1.40	27.88	36.02	-8.14	
			8	AVG	20.90	30.00	-9.10	1.40	22.30	36.02	-13.72	
				PEAK	26.59	30.00	-3.41	1.40	27.99	36.02	-8.03	
			17	AVG	20.77	30.00	-9.23	1.40	22.17	36.02	-13.85	
				PEAK	26.67	30.00	-3.33	1.40	28.07	36.02	-7.95	
2452	9	26T	0	AVG	19.26	30.00	-10.74	1.40	20.66	36.02	-15.36	
				PEAK	26.25	30.00	-3.75	1.40	27.65	36.02	-8.37	
			8	AVG	19.11	30.00	-10.89	1.40	20.51	36.02	-15.51	
				PEAK	26.10	30.00	-3.90	1.40	27.50	36.02	-8.52	
			17	AVG	18.68	30.00	-11.32	1.40	20.08	36.02	-15.94	
				PEAK	25.74	30.00	-4.26	1.40	27.14	36.02	-8.88	
2457	10	26T	0	AVG	14.15	30.00	-15.86	1.40	15.55	36.02	-20.48	
				PEAK	22.32	30.00	-7.68	1.40	23.72	36.02	-12.30	
			8	AVG	13.95	30.00	-16.05	1.40	15.35	36.02	-20.67	
				PEAK	22.02	30.00	-7.98	1.40	23.42	36.02	-12.60	
			17	AVG	13.98	30.00	-16.02	1.40	15.38	36.02	-20.64	
				PEAK	21.86	30.00	-8.14	1.40	23.26	36.02	-12.76	
2462	11	26T	0	AVG	-3.76	30.00	-33.76	1.40	-2.36	36.02	-38.38	
				PEAK	4.02	30.00	-25.98	1.40	5.42	36.02	-30.60	
			8	AVG	-3.73	30.00	-33.73	1.40	-2.33	36.02	-38.35	
				PEAK	3.91	30.00	-26.09	1.40	5.31	36.02	-30.71	
			17	AVG	-3.61	30.00	-33.61	1.40	-2.21	36.02	-38.23	
				PEAK	3.96	30.00	-26.04	1.40	5.36	36.02	-30.66	

Table 7-18. Conducted Output Power Measurements SISO ANT1 (26 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 44 of 213

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	52T	37	AVG	16.94	30.00	-13.06	1.40	18.34	36.02	-17.68
					PEAK	24.91	30.00	-5.09	1.40	26.31	36.02	-9.71
				40	AVG	17.12	30.00	-12.88	1.40	18.52	36.02	-17.50
					PEAK	25.05	30.00	-4.95	1.40	26.45	36.02	-9.57
				44	AVG	16.99	30.00	-13.01	1.40	18.39	36.02	-17.63
					PEAK	24.98	30.00	-5.02	1.40	26.38	36.02	-9.64
	2427	4	52T	37	AVG	20.70	30.00	-9.30	1.40	22.10	36.02	-13.92
					PEAK	26.68	30.00	-3.32	1.40	28.08	36.02	-7.94
				40	AVG	20.51	30.00	-9.49	1.40	21.91	36.02	-14.11
					PEAK	26.16	30.00	-3.84	1.40	27.56	36.02	-8.46
				44	AVG	20.66	30.00	-9.34	1.40	22.06	36.02	-13.96
					PEAK	26.67	30.00	-3.33	1.40	28.07	36.02	-7.95
2442	7	52T	37	AVG	20.80	30.00	-9.20	1.40	22.20	36.02	-13.82	
				PEAK	27.05	30.00	-2.95	1.40	28.45	36.02	-7.57	
			40	AVG	20.68	30.00	-9.32	1.40	22.08	36.02	-13.94	
				PEAK	26.69	30.00	-3.31	1.40	28.09	36.02	-7.93	
			44	AVG	20.82	30.00	-9.18	1.40	22.22	36.02	-13.80	
				PEAK	26.86	30.00	-3.14	1.40	28.26	36.02	-7.76	
2447	8	52T	37	AVG	20.71	30.00	-9.29	1.40	22.11	36.02	-13.91	
				PEAK	26.30	30.00	-3.70	1.40	27.70	36.02	-8.32	
			40	AVG	20.49	30.00	-9.51	1.40	21.89	36.02	-14.13	
				PEAK	26.68	30.00	-3.32	1.40	28.08	36.02	-7.94	
			44	AVG	20.93	30.00	-9.07	1.40	22.33	36.02	-13.69	
				PEAK	26.87	30.00	-3.13	1.40	28.27	36.02	-7.75	
2452	9	52T	37	AVG	19.22	30.00	-10.78	1.40	20.62	36.02	-15.40	
				PEAK	26.32	30.00	-3.68	1.40	27.72	36.02	-8.30	
			40	AVG	19.51	30.00	-10.49	1.40	20.91	36.02	-15.11	
				PEAK	26.50	30.00	-3.50	1.40	27.90	36.02	-8.12	
			44	AVG	19.41	30.00	-10.59	1.40	20.81	36.02	-15.21	
				PEAK	26.41	30.00	-3.59	1.40	27.81	36.02	-8.21	
2457	10	52T	37	AVG	13.05	30.00	-16.95	1.40	14.45	36.02	-21.57	
				PEAK	20.68	30.00	-9.32	1.40	22.08	36.02	-13.94	
			40	AVG	13.45	30.00	-16.55	1.40	14.85	36.02	-21.17	
				PEAK	21.44	30.00	-8.56	1.40	22.84	36.02	-13.18	
			44	AVG	13.15	30.00	-16.85	1.40	14.55	36.02	-21.47	
				PEAK	21.32	30.00	-8.68	1.40	22.72	36.02	-13.30	
2462	11	52T	37	AVG	0.20	30.00	-29.80	1.40	1.60	36.02	-34.42	
				PEAK	7.97	30.00	-22.03	1.40	9.37	36.02	-26.65	
			40	AVG	0.82	30.00	-29.18	1.40	2.22	36.02	-33.80	
				PEAK	8.47	30.00	-21.53	1.40	9.87	36.02	-26.15	
			44	AVG	0.05	30.00	-29.95	1.40	1.45	36.02	-34.57	
				PEAK	8.34	30.00	-21.66	1.40	9.74	36.02	-26.28	

Table 7-19. Conducted Output Power Measurements SISO ANT1 (52 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 45 of 213

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	222	3	106T	53	AVG	16.96	30.00	-13.04	1.40	18.36	36.02	-17.66
					PEAK	24.99	30.00	-5.01	1.40	26.39	36.02	-9.63
				54	AVG	17.01	30.00	-12.99	1.40	18.41	36.02	-17.61
					PEAK	25.08	30.00	-4.92	1.40	26.48	36.02	-9.54
					AVG	17.24	30.00	-12.76	1.40	18.64	36.02	-17.38
					PEAK	25.12	30.00	-4.88	1.40	26.52	36.02	-9.50
	2427	4	106T	53	AVG	20.73	30.00	-9.27	1.40	22.13	36.02	-13.89
					PEAK	26.80	30.00	-3.20	1.40	28.20	36.02	-7.82
				54	AVG	20.93	30.00	-9.07	1.40	22.33	36.02	-13.69
					PEAK	26.77	30.00	-3.23	1.40	28.17	36.02	-7.85
					AVG	20.81	30.00	-9.19	1.40	22.21	36.02	-13.81
					PEAK	26.52	30.00	-3.48	1.40	27.92	36.02	-8.10
2442	7	106T	53	AVG	20.94	30.00	-9.06	1.40	22.34	36.02	-13.68	
				PEAK	26.85	30.00	-3.15	1.40	28.25	36.02	-7.77	
			54	AVG	20.93	30.00	-9.07	1.40	22.33	36.02	-13.69	
				PEAK	26.72	30.00	-3.28	1.40	28.12	36.02	-7.90	
				AVG	20.83	30.00	-9.17	1.40	22.23	36.02	-13.79	
				PEAK	26.95	30.00	-3.05	1.40	28.35	36.02	-7.67	
2447	8	106T	53	AVG	20.72	30.00	-9.28	1.40	22.12	36.02	-13.90	
				PEAK	26.73	30.00	-3.27	1.40	28.13	36.02	-7.89	
			54	AVG	20.61	30.00	-9.39	1.40	22.01	36.02	-14.01	
				PEAK	26.60	30.00	-3.40	1.40	28.00	36.02	-8.02	
				AVG	20.46	30.00	-9.54	1.40	21.86	36.02	-14.16	
				PEAK	26.29	30.00	-3.71	1.40	27.69	36.02	-8.33	
2452	9	106T	53	AVG	19.50	30.00	-10.50	1.40	20.90	36.02	-15.12	
				PEAK	26.41	30.00	-3.59	1.40	27.81	36.02	-8.21	
			54	AVG	18.96	30.00	-11.04	1.40	20.36	36.02	-15.66	
				PEAK	26.02	30.00	-3.98	1.40	27.42	36.02	-8.60	
				AVG	18.86	30.00	-11.14	1.40	20.26	36.02	-15.76	
				PEAK	25.94	30.00	-4.06	1.40	27.34	36.02	-8.68	
2457	10	106T	53	AVG	13.21	30.00	-16.79	1.40	14.61	36.02	-21.41	
				PEAK	21.69	30.00	-8.31	1.40	23.09	36.02	-12.93	
			54	AVG	13.30	30.00	-16.70	1.40	14.70	36.02	-21.32	
				PEAK	21.20	30.00	-8.80	1.40	22.60	36.02	-13.42	
				AVG	13.14	30.00	-16.86	1.40	14.54	36.02	-21.48	
				PEAK	21.18	30.00	-8.82	1.40	22.58	36.02	-13.44	
2462	11	106T	53	AVG	0.18	30.00	-29.82	1.40	1.58	36.02	-34.44	
				PEAK	7.84	30.00	-22.16	1.40	9.24	36.02	-26.78	
			54	AVG	0.74	30.00	-29.26	1.40	2.14	36.02	-33.88	
				PEAK	8.32	30.00	-21.68	1.40	9.72	36.02	-26.30	
				AVG	0.15	30.00	-29.85	1.40	1.55	36.02	-34.47	
				PEAK	7.95	30.00	-22.05	1.40	9.35	36.02	-26.67	

Table 7-20. Conducted Output Power Measurements SISO ANT1 (106 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 46 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	242T	61	AVG	15.00	30.00	-15.00	1.40	16.40	36.02	-19.62
					PEAK	23.80	30.00	-6.20	1.40	25.20	36.02	-10.82
					62	AVG	15.23	30.00	-14.77	1.40	16.63	36.02
	PEAK	23.72	30.00	-6.28		1.40	25.12	36.02	-10.90			
	2427	4	242T	61		AVG	16.12	30.00	-13.88	1.40	17.52	36.02
					PEAK	24.32	30.00	-5.68	1.40	25.72	36.02	-10.30
					62	AVG	16.65	30.00	-13.35	1.40	18.05	36.02
	PEAK	24.62	30.00	-5.38		1.40	26.02	36.02	-10.00			
	2432	5	242T	61		AVG	17.00	30.00	-13.00	1.40	18.40	36.02
					PEAK	25.02	30.00	-4.98	1.40	26.42	36.02	-9.60
					62	AVG	17.12	30.00	-12.88	1.40	18.52	36.02
	PEAK	25.12	30.00	-4.88		1.40	26.52	36.02	-9.50			
2437	6	242T	61	AVG		17.50	30.00	-12.50	1.40	18.90	36.02	-17.12
				PEAK	25.38	30.00	-4.62	1.40	26.78	36.02	-9.24	
				62	AVG	17.97	30.00	-12.03	1.40	19.37	36.02	-16.65
PEAK	25.78	30.00	-4.22		1.40	27.18	36.02	-8.84				
2442	7	242T	61		AVG	17.62	30.00	-12.38	1.40	19.02	36.02	-17.00
				PEAK	25.45	30.00	-4.55	1.40	26.85	36.02	-9.17	
				62	AVG	17.56	30.00	-12.44	1.40	18.96	36.02	-17.06
PEAK	25.42	30.00	-4.58		1.40	26.82	36.02	-9.20				
2447	8	242T	61		AVG	17.55	30.00	-12.45	1.40	18.95	36.02	-17.07
				PEAK	25.27	30.00	-4.73	1.40	26.67	36.02	-9.35	
				62	AVG	17.79	30.00	-12.21	1.40	19.19	36.02	-16.83
PEAK	25.55	30.00	-4.45		1.40	26.95	36.02	-9.07				
2452	9	242T	61		AVG	17.12	30.00	-12.88	1.40	18.52	36.02	-17.50
				PEAK	25.25	30.00	-4.75	1.40	26.65	36.02	-9.37	
				62	AVG	16.89	30.00	-13.11	1.40	18.29	36.02	-17.73
PEAK	25.00	30.00	-5.00		1.40	26.40	36.02	-9.62				
2457	10	242T	61		AVG	15.68	30.00	-14.32	1.40	17.08	36.02	-18.94
				PEAK	22.75	30.00	-7.25	1.40	24.15	36.02	-11.87	
				62	AVG	15.74	30.00	-14.26	1.40	17.14	36.02	-18.88
PEAK	23.55	30.00	-6.45		1.40	24.95	36.02	-11.07				
2462	11	242T	61		AVG	4.72	30.00	-25.28	1.40	6.12	36.02	-29.90
				PEAK	12.69	30.00	-17.31	1.40	14.09	36.02	-21.93	
				62	AVG	4.07	30.00	-25.93	1.40	5.47	36.02	-30.55
PEAK	11.95	30.00	-18.05		1.40	13.35	36.02	-22.67				

Table 7-21. Conducted Output Power Measurements SISO ANT1 (242 Tones) – 40MHz

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	484T	65	AVG	15.45	30.00	-14.55	1.40	16.85	36.02	-19.17
					PEAK	22.75	30.00	-7.25	1.40	24.15	36.02	-11.87
	2427	4	484T	65	AVG	15.95	30.00	-14.05	1.40	17.35	36.02	-18.67
					PEAK	23.22	30.00	-6.78	1.40	24.62	36.02	-11.40
	2432	5	484T	65	AVG	16.65	30.00	-13.35	1.40	18.05	36.02	-17.97
					PEAK	23.79	30.00	-6.21	1.40	25.19	36.02	-10.83
	2437	6	484T	65	AVG	17.80	30.00	-12.20	1.40	19.20	36.02	-16.82
					PEAK	24.29	30.00	-5.71	1.40	25.69	36.02	-10.33
	2442	7	484T	65	AVG	16.99	30.00	-13.01	1.40	18.39	36.02	-17.63
					PEAK	24.46	30.00	-5.54	1.40	25.86	36.02	-10.16
	2447	8	484T	65	AVG	17.92	30.00	-12.08	1.40	19.32	36.02	-16.70
					PEAK	24.40	30.00	-5.60	1.40	25.80	36.02	-10.22
2452	9	484T	65	AVG	16.69	30.00	-13.31	1.40	18.09	36.02	-17.93	
				PEAK	23.93	30.00	-6.07	1.40	25.33	36.02	-10.69	
2457	10	484T	65	AVG	15.65	30.00	-14.35	1.40	17.05	36.02	-18.97	
				PEAK	22.89	30.00	-7.11	1.40	24.29	36.02	-11.73	
2462	11	484T	65	AVG	4.12	30.00	-25.88	1.40	5.52	36.02	-30.50	
				PEAK	11.44	30.00	-18.56	1.40	12.84	36.02	-23.18	

Table 7-22. Conducted Output Power Measurements SISO ANT1 (484 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 47 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	26T	0	AVG	16.94	30.00	-13.06	1.60	18.54	36.02	-17.48
					PEAK	24.79	30.00	-5.21	1.60	26.39	36.02	-9.63
				8	AVG	17.36	30.00	-12.64	1.60	18.96	36.02	-17.06
					PEAK	25.42	30.00	-4.58	1.60	27.02	36.02	-9.00
				17	AVG	17.32	30.00	-12.68	1.60	18.92	36.02	-17.10
					PEAK	25.39	30.00	-4.61	1.60	26.99	36.02	-9.03
	2427	4	26T	0	AVG	20.95	30.00	-9.05	1.60	22.55	36.02	-13.47
					PEAK	26.75	30.00	-3.25	1.60	28.35	36.02	-7.67
				8	AVG	20.57	30.00	-9.43	1.60	22.17	36.02	-13.85
					PEAK	26.59	30.00	-3.41	1.60	28.19	36.02	-7.83
				17	AVG	20.62	30.00	-9.38	1.60	22.22	36.02	-13.80
					PEAK	26.58	30.00	-3.42	1.60	28.18	36.02	-7.84
2442	7	26T	0	AVG	20.94	30.00	-9.06	1.60	22.54	36.02	-13.48	
				PEAK	26.84	30.00	-3.16	1.60	28.44	36.02	-7.58	
			8	AVG	20.96	30.00	-9.04	1.60	22.56	36.02	-13.46	
				PEAK	26.33	30.00	-3.67	1.60	27.93	36.02	-8.09	
			17	AVG	20.75	30.00	-9.25	1.60	22.35	36.02	-13.67	
				PEAK	26.84	30.00	-3.16	1.60	28.44	36.02	-7.58	
2447	8	26T	0	AVG	20.43	30.00	-9.57	1.60	22.03	36.02	-13.99	
				PEAK	25.95	30.00	-4.05	1.60	27.55	36.02	-8.47	
			8	AVG	20.82	30.00	-9.18	1.60	22.42	36.02	-13.60	
				PEAK	26.64	30.00	-3.36	1.60	28.24	36.02	-7.78	
			17	AVG	20.32	30.00	-9.68	1.60	21.92	36.02	-14.10	
				PEAK	26.64	30.00	-3.36	1.60	28.24	36.02	-7.78	
2452	9	26T	0	AVG	19.85	30.00	-10.15	1.60	21.45	36.02	-14.57	
				PEAK	26.30	30.00	-3.70	1.60	27.90	36.02	-8.12	
			8	AVG	19.01	30.00	-10.99	1.60	20.61	36.02	-15.41	
				PEAK	26.07	30.00	-3.93	1.60	27.67	36.02	-8.35	
			17	AVG	18.89	30.00	-11.11	1.60	20.49	36.02	-15.53	
				PEAK	25.86	30.00	-4.14	1.60	27.46	36.02	-8.56	
2457	10	26T	0	AVG	14.85	30.00	-15.15	1.60	16.45	36.02	-19.57	
				PEAK	22.75	30.00	-7.25	1.60	24.35	36.02	-11.67	
			8	AVG	14.16	30.00	-15.84	1.60	15.76	36.02	-20.26	
				PEAK	22.20	30.00	-7.80	1.60	23.80	36.02	-12.22	
			17	AVG	14.51	30.00	-15.49	1.60	16.11	36.02	-19.91	
				PEAK	21.93	30.00	-8.07	1.60	23.53	36.02	-12.49	
2462	11	26T	0	AVG	-3.58	30.00	-33.58	1.60	-1.98	36.02	-38.00	
				PEAK	3.97	30.00	-26.03	1.60	5.57	36.02	-30.45	
			8	AVG	-3.65	30.00	-33.65	1.60	-2.05	36.02	-38.07	
				PEAK	3.48	30.00	-26.52	1.60	5.08	36.02	-30.94	
			17	AVG	-3.91	30.00	-33.91	1.60	-2.31	36.02	-38.33	
				PEAK	4.37	30.00	-25.63	1.60	5.97	36.02	-30.05	

Table 7-23. Conducted Output Power Measurements SISO ANT2 (26 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 48 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	52T	37	AVG	17.05	30.00	-12.95	1.60	18.65	36.02	-17.37
					PEAK	25.07	30.00	-4.93	1.60	26.67	36.02	-9.35
				40	AVG	17.45	30.00	-12.55	1.60	19.05	36.02	-16.97
					PEAK	25.51	30.00	-4.49	1.60	27.11	36.02	-8.91
				44	AVG	17.40	30.00	-12.60	1.60	19.00	36.02	-17.02
					PEAK	25.47	30.00	-4.53	1.60	27.07	36.02	-8.95
	2427	4	52T	37	AVG	20.91	30.00	-9.09	1.60	22.51	36.02	-13.51
					PEAK	26.48	30.00	-3.52	1.60	28.08	36.02	-7.94
				40	AVG	20.76	30.00	-9.24	1.60	22.36	36.02	-13.66
					PEAK	27.07	30.00	-2.93	1.60	28.67	36.02	-7.35
				44	AVG	20.99	30.00	-9.01	1.60	22.59	36.02	-13.43
					PEAK	27.06	30.00	-2.94	1.60	28.66	36.02	-7.36
2442	7	52T	37	AVG	20.99	30.00	-9.01	1.60	22.59	36.02	-13.43	
				PEAK	26.81	30.00	-3.19	1.60	28.41	36.02	-7.61	
			40	AVG	20.56	30.00	-9.44	1.60	22.16	36.02	-13.86	
				PEAK	26.28	30.00	-3.72	1.60	27.88	36.02	-8.14	
			44	AVG	20.78	30.00	-9.22	1.60	22.38	36.02	-13.64	
				PEAK	26.77	30.00	-3.23	1.60	28.37	36.02	-7.65	
2447	8	52T	37	AVG	20.57	30.00	-9.43	1.60	22.17	36.02	-13.85	
				PEAK	26.26	30.00	-3.74	1.60	27.86	36.02	-8.16	
			40	AVG	20.79	30.00	-9.21	1.60	22.39	36.02	-13.63	
				PEAK	26.77	30.00	-3.23	1.60	28.37	36.02	-7.65	
			44	AVG	20.54	30.00	-9.46	1.60	22.14	36.02	-13.88	
				PEAK	26.60	30.00	-3.40	1.60	28.20	36.02	-7.82	
2452	9	52T	37	AVG	19.98	30.00	-10.02	1.60	21.58	36.02	-14.44	
				PEAK	26.85	30.00	-3.15	1.60	28.45	36.02	-7.57	
			40	AVG	19.70	30.00	-10.30	1.60	21.30	36.02	-14.72	
				PEAK	26.75	30.00	-3.25	1.60	28.35	36.02	-7.67	
			44	AVG	19.47	30.00	-10.53	1.60	21.07	36.02	-14.95	
				PEAK	26.63	30.00	-3.37	1.60	28.23	36.02	-7.79	
2457	10	52T	37	AVG	13.45	30.00	-16.55	1.60	15.05	36.02	-20.97	
				PEAK	21.34	30.00	-8.66	1.60	22.94	36.02	-13.08	
			40	AVG	13.59	30.00	-16.41	1.60	15.19	36.02	-20.83	
				PEAK	21.68	30.00	-8.32	1.60	23.28	36.02	-12.74	
			44	AVG	13.43	30.00	-16.57	1.60	15.03	36.02	-20.99	
				PEAK	21.62	30.00	-8.38	1.60	23.22	36.02	-12.80	
2462	11	52T	37	AVG	0.36	30.00	-29.64	1.60	1.96	36.02	-34.06	
				PEAK	8.55	30.00	-21.45	1.60	10.15	36.02	-25.87	
			40	AVG	0.77	30.00	-29.23	1.60	2.37	36.02	-33.65	
				PEAK	8.75	30.00	-21.25	1.60	10.35	36.02	-25.67	
			44	AVG	0.29	30.00	-29.71	1.60	1.89	36.02	-34.13	
				PEAK	7.69	30.00	-22.31	1.60	9.29	36.02	-26.73	

Table 7-24. Conducted Output Power Measurements SISO ANT2 (52 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 49 of 213

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	106T	53	AVG	17.24	30.00	-12.76	1.60	18.84	36.02	-17.18
					PEAK	25.44	30.00	-4.56	1.60	27.04	36.02	-8.98
				54	AVG	17.39	30.00	-12.61	1.60	18.99	36.02	-17.03
					PEAK	25.57	30.00	-4.43	1.60	27.17	36.02	-8.85
				56	AVG	17.49	30.00	-12.51	1.60	19.09	36.02	-16.93
					PEAK	25.86	30.00	-4.14	1.60	27.46	36.02	-8.56
	2427	4	106T	53	AVG	20.55	30.00	-9.45	1.60	22.15	36.02	-13.87
					PEAK	26.57	30.00	-3.43	1.60	28.17	36.02	-7.85
				54	AVG	20.77	30.00	-9.23	1.60	22.37	36.02	-13.65
					PEAK	26.40	30.00	-3.60	1.60	28.00	36.02	-8.02
				56	AVG	20.68	30.00	-9.32	1.60	22.28	36.02	-13.74
					PEAK	26.58	30.00	-3.42	1.60	28.18	36.02	-7.84
2442	7	106T	53	AVG	20.58	30.00	-9.42	1.60	22.18	36.02	-13.84	
				PEAK	26.76	30.00	-3.24	1.60	28.36	36.02	-7.66	
			54	AVG	20.65	30.00	-9.35	1.60	22.25	36.02	-13.77	
				PEAK	26.35	30.00	-3.65	1.60	27.95	36.02	-8.07	
			56	AVG	20.81	30.00	-9.19	1.60	22.41	36.02	-13.61	
				PEAK	26.89	30.00	-3.11	1.60	28.49	36.02	-7.53	
2447	8	106T	53	AVG	20.72	30.00	-9.28	1.60	22.32	36.02	-13.70	
				PEAK	26.39	30.00	-3.61	1.60	27.99	36.02	-8.03	
			54	AVG	20.47	30.00	-9.53	1.60	22.07	36.02	-13.95	
				PEAK	26.45	30.00	-3.55	1.60	28.05	36.02	-7.97	
			56	AVG	20.53	30.00	-9.47	1.60	22.13	36.02	-13.89	
				PEAK	26.17	30.00	-3.83	1.60	27.77	36.02	-8.25	
2452	9	106T	53	AVG	19.85	30.00	-10.15	1.60	21.45	36.02	-14.57	
				PEAK	26.86	30.00	-3.14	1.60	28.46	36.02	-7.56	
			54	AVG	19.26	30.00	-10.74	1.60	20.86	36.02	-15.16	
				PEAK	26.31	30.00	-3.69	1.60	27.91	36.02	-8.11	
			56	AVG	19.31	30.00	-10.69	1.60	20.91	36.02	-15.11	
				PEAK	26.43	30.00	-3.57	1.60	28.03	36.02	-7.99	
2457	10	106T	53	AVG	13.55	30.00	-16.45	1.60	15.15	36.02	-20.87	
				PEAK	21.79	30.00	-8.21	1.60	23.39	36.02	-12.63	
			54	AVG	13.62	30.00	-16.38	1.60	15.22	36.02	-20.80	
				PEAK	21.82	30.00	-8.18	1.60	23.42	36.02	-12.60	
			56	AVG	13.49	30.00	-16.51	1.60	15.09	36.02	-20.93	
				PEAK	21.73	30.00	-8.27	1.60	23.33	36.02	-12.69	
2462	11	106T	53	AVG	0.42	30.00	-29.58	1.60	2.02	36.02	-34.00	
				PEAK	8.41	30.00	-21.59	1.60	10.01	36.02	-26.01	
			54	AVG	0.81	30.00	-29.19	1.60	2.41	36.02	-33.61	
				PEAK	8.45	30.00	-21.55	1.60	10.05	36.02	-25.97	
			56	AVG	0.31	30.00	-29.69	1.60	1.91	36.02	-34.11	
				PEAK	8.23	30.00	-21.77	1.60	9.83	36.02	-26.19	

Table 7-25. Conducted Output Power Measurements SISO ANT2 (106 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 50 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	242T	61	AVG	15.17	30.00	-14.83	1.60	16.77	36.02	-19.25
					PEAK	23.68	30.00	-6.32	1.60	25.28	36.02	-10.74
	2427	4	242T	62	AVG	15.35	30.00	-14.65	1.60	16.95	36.02	-19.07
					PEAK	23.75	30.00	-6.25	1.60	25.35	36.02	-10.67
	2432	5	242T	61	AVG	16.26	30.00	-13.74	1.60	17.86	36.02	-18.16
					PEAK	24.48	30.00	-5.52	1.60	26.08	36.02	-9.94
	2437	6	242T	62	AVG	16.85	30.00	-13.15	1.60	18.45	36.02	-17.57
					PEAK	24.87	30.00	-5.13	1.60	26.47	36.02	-9.55
	2442	7	242T	61	AVG	17.15	30.00	-12.85	1.60	18.75	36.02	-17.27
					PEAK	25.20	30.00	-4.80	1.60	26.80	36.02	-9.22
	2447	8	242T	62	AVG	17.49	30.00	-12.51	1.60	19.09	36.02	-16.93
					PEAK	25.49	30.00	-4.51	1.60	27.09	36.02	-8.93
2452	9	242T	61	AVG	17.81	30.00	-12.19	1.60	19.41	36.02	-16.61	
				PEAK	25.64	30.00	-4.36	1.60	27.24	36.02	-8.78	
2457	10	242T	62	AVG	17.95	30.00	-12.05	1.60	19.55	36.02	-16.47	
				PEAK	25.71	30.00	-4.29	1.60	27.31	36.02	-8.71	
2462	11	242T	61	AVG	17.95	30.00	-12.05	1.60	19.55	36.02	-16.47	
				PEAK	25.78	30.00	-4.22	1.60	27.38	36.02	-8.64	
2462	11	242T	62	AVG	17.88	30.00	-12.12	1.60	19.48	36.02	-16.54	
				PEAK	25.69	30.00	-4.31	1.60	27.29	36.02	-8.73	
2462	11	242T	61	AVG	17.97	30.00	-12.03	1.60	19.57	36.02	-16.45	
				PEAK	25.69	30.00	-4.31	1.60	27.29	36.02	-8.73	
2462	11	242T	62	AVG	17.56	30.00	-12.44	1.60	19.16	36.02	-16.86	
				PEAK	25.22	30.00	-4.78	1.60	26.82	36.02	-9.20	
2462	11	242T	61	AVG	17.48	30.00	-12.52	1.60	19.08	36.02	-16.94	
				PEAK	25.49	30.00	-4.51	1.60	27.09	36.02	-8.93	
2462	11	242T	62	AVG	17.14	30.00	-12.86	1.60	18.74	36.02	-17.28	
				PEAK	25.08	30.00	-4.92	1.60	26.68	36.02	-9.34	
2462	11	242T	61	AVG	15.96	30.00	-14.04	1.60	17.56	36.02	-18.46	
				PEAK	23.15	30.00	-6.85	1.60	24.75	36.02	-11.27	
2462	11	242T	62	AVG	16.06	30.00	-13.94	1.60	17.66	36.02	-18.36	
				PEAK	24.16	30.00	-5.84	1.60	25.76	36.02	-10.26	
2462	11	242T	61	AVG	4.85	30.00	-25.15	1.60	6.45	36.02	-29.57	
				PEAK	12.74	30.00	-17.26	1.60	14.34	36.02	-21.68	
2462	11	242T	62	AVG	4.35	30.00	-25.65	1.60	5.95	36.02	-30.07	
				PEAK	12.10	30.00	-17.90	1.60	13.70	36.02	-22.32	

Table 7-26. Conducted Output Power Measurements SISO ANT2 (242 Tones) – 40MHz

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Powers (dBm)	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	2422	3	484T	65	AVG	15.85	30.00	-14.15	1.60	17.45	36.02	-18.57
					PEAK	23.06	30.00	-6.94	1.60	24.66	36.02	-11.36
	2427	4	484T	65	AVG	16.35	30.00	-13.65	1.60	17.95	36.02	-18.07
					PEAK	23.55	30.00	-6.45	1.60	25.15	36.02	-10.87
	2432	5	484T	65	AVG	17.09	30.00	-12.91	1.60	18.69	36.02	-17.33
					PEAK	23.99	30.00	-6.01	1.60	25.59	36.02	-10.43
	2437	6	484T	65	AVG	17.70	30.00	-12.30	1.60	19.30	36.02	-16.72
					PEAK	24.15	30.00	-5.85	1.60	25.75	36.02	-10.27
	2442	7	484T	65	AVG	17.45	30.00	-12.55	1.60	19.05	36.02	-16.97
					PEAK	24.85	30.00	-5.15	1.60	26.45	36.02	-9.57
	2447	8	484T	65	AVG	17.79	30.00	-12.21	1.60	19.39	36.02	-16.63
					PEAK	24.21	30.00	-5.79	1.60	25.81	36.02	-10.21
2452	9	484T	65	AVG	17.01	30.00	-12.99	1.60	18.61	36.02	-17.41	
				PEAK	24.43	30.00	-5.57	1.60	26.03	36.02	-9.99	
2457	10	484T	65	AVG	15.98	30.00	-14.02	1.60	17.58	36.02	-18.44	
				PEAK	23.24	30.00	-6.76	1.60	24.84	36.02	-11.18	
2462	11	484T	65	AVG	4.36	30.00	-25.64	1.60	5.96	36.02	-30.06	
				PEAK	11.66	30.00	-18.34	1.60	13.26	36.02	-22.76	

Table 7-27. Conducted Output Power Measurements SISO ANT2 (484 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 51 of 213

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	PEAK						
2422	3	26T	0	AVG	16.76	16.94	19.86	30.00	-10.14	4.51	24.37	36.02	-11.65	
				PEAK	24.97	24.79	27.89	30.00	-2.11	4.51	32.40	36.02	-3.62	
			4	AVG	17.16	17.36	20.27	30.00	-9.73	4.51	24.78	36.02	-11.24	
				PEAK	25.21	25.42	28.33	30.00	-1.67	4.51	32.84	36.02	-3.18	
			8	AVG	16.92	17.32	20.13	30.00	-9.87	4.51	24.65	36.02	-11.37	
				PEAK	25.10	25.39	28.26	30.00	-1.74	4.51	32.77	36.02	-3.25	
	2427	4	26T	0	AVG	20.95	20.95	23.96	30.00	-6.04	4.51	28.47	36.02	-7.55
					PEAK	26.75	26.75	29.76	30.00	-0.24	4.51	34.27	36.02	-1.75
				4	AVG	20.57	20.57	23.58	30.00	-6.42	4.51	28.09	36.02	-7.93
					PEAK	26.59	26.59	29.60	30.00	-0.40	4.51	34.11	36.02	-1.91
				8	AVG	20.62	20.62	23.63	30.00	-6.37	4.51	28.14	36.02	-7.88
					PEAK	26.58	26.58	29.59	30.00	-0.41	4.51	34.10	36.02	-1.92
2442	7	26T	0	AVG	20.76	20.94	23.86	30.00	-6.14	4.51	28.37	36.02	-7.65	
				PEAK	26.90	26.84	29.88	30.00	-0.12	4.51	34.39	36.02	-1.63	
			4	AVG	20.72	20.96	23.85	30.00	-6.15	4.51	28.36	36.02	-7.66	
				PEAK	26.55	26.33	29.45	30.00	-0.55	4.51	33.96	36.02	-2.06	
			8	AVG	20.77	20.75	23.77	30.00	-6.23	4.51	28.28	36.02	-7.74	
				PEAK	26.70	26.84	29.78	30.00	-0.22	4.51	34.29	36.02	-1.73	
2447	8	26T	0	AVG	20.42	20.43	23.44	30.00	-6.56	4.51	27.95	36.02	-8.07	
				PEAK	26.48	25.95	29.23	30.00	-0.77	4.51	33.74	36.02	-2.28	
			4	AVG	20.90	20.82	23.87	30.00	-6.13	4.51	28.38	36.02	-7.64	
				PEAK	26.59	26.64	29.63	30.00	-0.37	4.51	34.14	36.02	-1.88	
			8	AVG	20.77	20.32	23.56	30.00	-6.44	4.51	28.07	36.02	-7.95	
				PEAK	26.67	26.64	29.67	30.00	-0.33	4.51	34.18	36.02	-1.84	
2452	9	26T	0	AVG	19.26	19.49	22.39	30.00	-7.61	4.51	26.90	36.02	-9.12	
				PEAK	26.25	26.30	29.29	30.00	-0.71	4.51	33.80	36.02	-2.22	
			4	AVG	19.11	19.01	22.07	30.00	-7.93	4.51	26.58	36.02	-9.44	
				PEAK	26.10	26.07	29.10	30.00	-0.90	4.51	33.61	36.02	-2.41	
			8	AVG	18.68	18.89	21.80	30.00	-8.20	4.51	26.31	36.02	-9.71	
				PEAK	25.74	25.86	28.81	30.00	-1.19	4.51	33.32	36.02	-2.70	
2457	10	26T	0	AVG	13.25	13.85	16.57	30.00	-13.43	4.51	21.08	36.02	-14.94	
				PEAK	21.78	22.42	25.12	30.00	-4.88	4.51	29.63	36.02	-6.39	
			4	AVG	13.05	13.25	16.16	30.00	-13.84	4.51	20.67	36.02	-15.35	
				PEAK	21.12	21.32	24.23	30.00	-5.77	4.51	28.74	36.02	-7.28	
			8	AVG	13.01	13.62	16.34	30.00	-13.66	4.51	20.85	36.02	-15.17	
				PEAK	21.02	21.05	24.05	30.00	-5.95	4.51	28.56	36.02	-7.46	
2462	11	26T	0	AVG	-3.76	-3.58	-0.66	30.00	-30.66	4.51	3.85	36.02	-32.17	
				PEAK	4.02	3.97	7.01	30.00	-22.99	4.51	11.52	36.02	-24.50	
			4	AVG	-3.73	-3.65	-0.68	30.00	-30.68	4.51	3.83	36.02	-32.19	
				PEAK	3.91	3.48	6.71	30.00	-23.29	4.51	11.22	36.02	-24.80	
			8	AVG	-3.61	-3.91	-0.75	30.00	-30.75	4.51	3.76	36.02	-32.26	
				PEAK	3.96	4.37	7.18	30.00	-22.82	4.51	11.69	36.02	-24.33	

Table 7-28. Conducted Output Power Measurements MIMO (26 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 52 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	AVG						
2422	3	52T	37	AVG	16.94	17.05	20.01	30.00	-9.99	4.51	24.52	36.02	-11.50	
				PEAK	24.91	25.07	28.00	30.00	-2.00	4.51	32.51	36.02	-3.51	
			40	AVG	17.12	17.45	20.30	30.00	-9.70	4.51	24.81	36.02	-11.21	
				PEAK	25.05	25.51	28.30	30.00	-1.70	4.51	32.81	36.02	-3.21	
			44	AVG	16.99	17.40	20.21	30.00	-9.79	4.51	24.72	36.02	-11.30	
				PEAK	24.98	25.47	28.24	30.00	-1.76	4.51	32.75	36.02	-3.27	
	2427	4	52T	37	AVG	20.70	20.91	23.82	30.00	-6.18	4.51	28.33	36.02	-7.69
					PEAK	26.68	26.48	29.59	30.00	-0.41	4.51	34.10	36.02	-1.92
				40	AVG	20.51	20.76	23.65	30.00	-6.35	4.51	28.16	36.02	-7.86
					PEAK	26.16	27.07	29.65	30.00	-0.35	4.51	34.16	36.02	-1.86
				44	AVG	20.66	20.99	23.84	30.00	-6.16	4.51	28.35	36.02	-7.67
					PEAK	26.67	27.06	29.88	30.00	-0.12	4.51	34.39	36.02	-1.63
2442	7	52T	37	AVG	20.80	20.99	23.91	30.00	-6.09	4.51	28.42	36.02	-7.60	
				PEAK	27.05	26.81	29.94	30.00	-0.06	4.51	34.45	36.02	-1.57	
			40	AVG	20.68	20.56	23.63	30.00	-6.37	4.51	28.14	36.02	-7.88	
				PEAK	26.69	26.28	29.50	30.00	-0.50	4.51	34.01	36.02	-2.01	
			44	AVG	20.82	20.78	23.81	30.00	-6.19	4.51	28.32	36.02	-7.70	
				PEAK	26.86	26.77	29.83	30.00	-0.17	4.51	34.34	36.02	-1.68	
2447	8	52T	37	AVG	20.71	20.57	23.65	30.00	-6.35	4.51	28.16	36.02	-7.86	
				PEAK	26.30	26.26	29.29	30.00	-0.71	4.51	33.80	36.02	-2.22	
			40	AVG	20.49	20.79	23.65	30.00	-6.35	4.51	28.16	36.02	-7.86	
				PEAK	26.68	26.77	29.74	30.00	-0.26	4.51	34.25	36.02	-1.77	
			44	AVG	20.93	20.54	23.75	30.00	-6.25	4.51	28.26	36.02	-7.76	
				PEAK	26.87	26.60	29.75	30.00	-0.25	4.51	34.26	36.02	-1.76	
2452	9	52T	37	AVG	18.82	19.18	22.01	30.00	-7.99	4.51	26.52	36.02	-9.50	
				PEAK	25.84	25.98	28.92	30.00	-1.08	4.51	33.43	36.02	-2.59	
			40	AVG	18.87	19.11	22.00	30.00	-8.00	4.51	26.51	36.02	-9.51	
				PEAK	25.78	26.02	28.91	30.00	-1.09	4.51	33.42	36.02	-2.60	
			44	AVG	18.99	19.12	22.07	30.00	-7.93	4.51	26.58	36.02	-9.44	
				PEAK	26.00	26.22	29.12	30.00	-0.88	4.51	33.63	36.02	-2.39	
2457	10	52T	37	AVG	13.05	13.45	16.26	30.00	-13.74	4.51	20.78	36.02	-15.24	
				PEAK	20.68	21.34	24.03	30.00	-5.97	4.51	28.54	36.02	-7.48	
			40	AVG	13.45	13.59	16.53	30.00	-13.47	4.51	21.04	36.02	-14.98	
				PEAK	21.44	21.68	24.57	30.00	-5.43	4.51	29.08	36.02	-6.94	
			44	AVG	13.15	13.43	16.30	30.00	-13.70	4.51	20.81	36.02	-15.21	
				PEAK	21.32	21.62	24.48	30.00	-5.52	4.51	28.99	36.02	-7.03	
2462	11	52T	37	AVG	0.20	0.36	3.29	30.00	-26.71	4.51	7.80	36.02	-28.22	
				PEAK	7.97	8.55	11.28	30.00	-18.72	4.51	15.79	36.02	-20.23	
			40	AVG	0.82	0.77	3.81	30.00	-26.19	4.51	8.32	36.02	-27.70	
				PEAK	8.47	8.75	11.62	30.00	-18.38	4.51	16.13	36.02	-19.89	
			44	AVG	0.05	0.29	3.18	30.00	-26.82	4.51	7.69	36.02	-28.33	
				PEAK	8.34	7.69	11.04	30.00	-18.96	4.51	15.55	36.02	-20.47	

Table 7-29. Conducted Output Power Measurements MIMO (52 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 53 of 213

2.4GHz	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	AVG						
2422	3	106T	53	AVG	16.96	17.24	20.11	30.00	-9.89	4.51	24.62	36.02	-11.40	
				PEAK	24.99	25.44	28.23	30.00	-1.77	4.51	32.74	36.02	-3.28	
			54	AVG	17.01	17.39	20.21	30.00	-9.79	4.51	24.73	36.02	-11.30	
				PEAK	25.08	25.57	28.34	30.00	-1.66	4.51	32.85	36.02	-3.17	
			56	AVG	17.24	17.49	20.38	30.00	-9.62	4.51	24.89	36.02	-11.13	
				PEAK	25.12	25.86	28.52	30.00	-1.48	4.51	33.03	36.02	-2.99	
	2427	4	106T	53	AVG	20.73	20.55	23.65	30.00	-6.35	4.51	28.16	36.02	-7.86
					PEAK	26.80	26.57	29.70	30.00	-0.30	4.51	34.21	36.02	-1.81
				54	AVG	20.93	20.77	23.86	30.00	-6.14	4.51	28.37	36.02	-7.65
					PEAK	26.77	26.40	29.60	30.00	-0.40	4.51	34.11	36.02	-1.91
				56	AVG	20.81	20.68	23.76	30.00	-6.24	4.51	28.27	36.02	-7.75
					PEAK	26.52	26.58	29.56	30.00	-0.44	4.51	34.07	36.02	-1.95
2442	7	106T	53	AVG	20.94	20.58	23.77	30.00	-6.23	4.51	28.28	36.02	-7.74	
				PEAK	26.85	26.76	29.82	30.00	-0.18	4.51	34.33	36.02	-1.69	
			54	AVG	20.93	20.65	23.80	30.00	-6.20	4.51	28.31	36.02	-7.71	
				PEAK	26.72	26.35	29.55	30.00	-0.45	4.51	34.06	36.02	-1.96	
			56	AVG	20.83	20.81	23.83	30.00	-6.17	4.51	28.34	36.02	-7.68	
				PEAK	26.95	26.89	29.93	30.00	-0.07	4.51	34.44	36.02	-1.58	
2447	8	106T	53	AVG	20.72	20.72	23.73	30.00	-6.27	4.51	28.24	36.02	-7.78	
				PEAK	26.73	26.39	29.57	30.00	-0.43	4.51	34.08	36.02	-1.94	
			54	AVG	20.61	20.47	23.55	30.00	-6.45	4.51	28.06	36.02	-7.96	
				PEAK	26.60	26.45	29.54	30.00	-0.46	4.51	34.05	36.02	-1.97	
			56	AVG	20.46	20.53	23.51	30.00	-6.49	4.51	28.02	36.02	-8.00	
				PEAK	26.29	26.17	29.24	30.00	-0.76	4.51	33.75	36.02	-2.27	
2452	9	106T	53	AVG	18.87	19.26	22.08	30.00	-7.92	4.51	26.59	36.02	-9.43	
				PEAK	26.11	26.55	29.35	30.00	-0.65	4.51	33.86	36.02	-2.16	
			54	AVG	18.96	19.26	22.12	30.00	-7.88	4.51	26.63	36.02	-9.39	
				PEAK	26.02	26.31	29.18	30.00	-0.82	4.51	33.69	36.02	-2.33	
			56	AVG	18.86	19.31	22.10	30.00	-7.90	4.51	26.61	36.02	-9.41	
				PEAK	25.94	26.43	29.20	30.00	-0.80	4.51	33.71	36.02	-2.31	
2457	10	106T	53	AVG	13.21	13.55	16.39	30.00	-13.61	4.51	20.90	36.02	-15.12	
				PEAK	21.69	21.79	24.75	30.00	-5.25	4.51	29.26	36.02	-6.76	
			54	AVG	13.30	13.62	16.47	30.00	-13.53	4.51	20.98	36.02	-15.04	
				PEAK	21.20	21.82	24.53	30.00	-5.47	4.51	29.04	36.02	-6.98	
			56	AVG	13.14	13.49	16.33	30.00	-13.67	4.51	20.84	36.02	-15.18	
				PEAK	21.18	21.73	24.47	30.00	-5.53	4.51	28.98	36.02	-7.04	
2462	11	106T	53	AVG	0.18	0.42	3.31	30.00	-26.69	4.51	7.82	36.02	-28.20	
				PEAK	7.84	8.41	11.14	30.00	-18.86	4.51	15.66	36.02	-20.37	
			54	AVG	0.74	0.81	3.79	30.00	-26.21	4.51	8.30	36.02	-27.72	
				PEAK	8.32	8.45	11.40	30.00	-18.60	4.51	15.91	36.02	-20.11	
			56	AVG	0.15	0.31	3.24	30.00	-26.76	4.51	7.75	36.02	-28.27	
				PEAK	7.95	8.23	11.10	30.00	-18.90	4.51	15.61	36.02	-20.41	

Table 7-30. Conducted Output Power Measurements MIMO (106 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 54 of 213

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	PEAK						
2422	3	242T	61	AVG	15.00	15.17	18.10	30.00	-11.90	4.51	22.61	36.02	-13.41	
				PEAK	23.80	23.68	26.75	30.00	-3.25	4.51	31.26	36.02	-4.76	
			62	AVG	15.23	15.35	18.30	30.00	-11.70	4.51	22.81	36.02	-13.21	
				PEAK	23.72	23.75	26.75	30.00	-3.25	4.51	31.26	36.02	-4.76	
2427	4	242T	61	AVG	16.12	16.26	19.20	30.00	-10.80	4.51	23.71	36.02	-12.31	
				PEAK	24.32	24.48	27.41	30.00	-2.59	4.51	31.92	36.02	-4.10	
			62	AVG	16.65	16.85	19.76	30.00	-10.24	4.51	24.27	36.02	-11.75	
				PEAK	24.62	24.87	27.76	30.00	-2.24	4.51	32.27	36.02	-3.75	
2432	5	242T	61	AVG	17.00	17.15	20.09	30.00	-9.91	4.51	24.60	36.02	-11.42	
				PEAK	25.02	25.20	28.12	30.00	-1.88	4.51	32.63	36.02	-3.39	
			62	AVG	17.12	17.49	20.32	30.00	-9.68	4.51	24.83	36.02	-11.19	
				PEAK	25.12	25.49	28.32	30.00	-1.68	4.51	32.83	36.02	-3.19	
2437	6	242T	61	AVG	17.50	17.81	20.67	30.00	-9.33	4.51	25.18	36.02	-10.84	
				PEAK	25.38	25.64	28.52	30.00	-1.48	4.51	33.03	36.02	-2.99	
			62	AVG	17.97	17.95	20.97	30.00	-9.03	4.51	25.48	36.02	-10.54	
				PEAK	25.78	25.71	28.76	30.00	-1.24	4.51	33.27	36.02	-2.75	
2442	7	242T	61	AVG	17.62	17.95	20.80	30.00	-9.20	4.51	25.31	36.02	-10.71	
				PEAK	25.45	25.78	28.63	30.00	-1.37	4.51	33.14	36.02	-2.88	
			62	AVG	17.56	17.88	20.73	30.00	-9.27	4.51	25.24	36.02	-10.78	
				PEAK	25.42	25.69	28.57	30.00	-1.43	4.51	33.08	36.02	-2.94	
2447	8	242T	61	AVG	17.55	17.97	20.78	30.00	-9.22	4.51	25.29	36.02	-10.73	
				PEAK	25.27	25.69	28.50	30.00	-1.50	4.51	33.01	36.02	-3.01	
			62	AVG	17.79	17.56	20.69	30.00	-9.31	4.51	25.20	36.02	-10.82	
				PEAK	25.55	25.22	28.40	30.00	-1.60	4.51	32.91	36.02	-3.11	
2452	9	242T	61	AVG	17.12	17.48	20.31	30.00	-9.69	4.51	24.82	36.02	-11.20	
				PEAK	25.25	25.49	28.38	30.00	-1.62	4.51	32.89	36.02	-3.13	
			62	AVG	16.89	17.14	20.03	30.00	-9.97	4.51	24.54	36.02	-11.48	
				PEAK	25.00	25.08	28.05	30.00	-1.95	4.51	32.56	36.02	-3.46	
2457	10	242T	61	AVG	15.68	15.96	18.83	30.00	-11.17	4.51	23.34	36.02	-12.68	
				PEAK	22.75	23.15	25.96	30.00	-4.04	4.51	30.48	36.02	-5.54	
			62	AVG	15.74	16.06	18.91	30.00	-11.09	4.51	23.42	36.02	-12.60	
				PEAK	23.55	24.16	26.88	30.00	-3.12	4.51	31.39	36.02	-4.63	
2462	11	242T	61	AVG	4.72	4.85	7.80	30.00	-22.20	4.51	12.31	36.02	-23.71	
				PEAK	12.69	12.74	15.73	30.00	-14.27	4.51	20.24	36.02	-15.78	
			62	AVG	4.07	4.35	7.22	30.00	-22.78	4.51	11.73	36.02	-24.29	
				PEAK	11.95	12.10	15.04	30.00	-14.96	4.51	19.55	36.02	-16.47	

Table 7-31. Conducted Output Power Measurements MIMO (242 Tones) – 40MHz

2.4GHZ	Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
						ANT1	ANT2	MIMO						
						AVG	PEAK	PEAK						
2422	3	484T	65	AVG	15.45	15.85	18.66	30.00	-11.34	4.51	23.18	36.02	-12.84	
				PEAK	22.75	23.06	25.92	30.00	-4.08	4.51	30.43	36.02	-5.59	
2427	4	484T	65	AVG	15.95	16.35	19.16	30.00	-10.84	4.51	23.68	36.02	-12.34	
				PEAK	23.22	23.55	26.40	30.00	-3.60	4.51	30.91	36.02	-5.11	
2432	5	484T	65	AVG	16.65	17.09	19.89	30.00	-10.11	4.51	24.40	36.02	-11.62	
				PEAK	23.79	23.99	26.90	30.00	-3.10	4.51	31.41	36.02	-4.61	
2437	6	484T	65	AVG	17.80	17.70	20.76	30.00	-9.24	4.51	25.27	36.02	-10.75	
				PEAK	24.29	24.15	27.23	30.00	-2.77	4.51	31.74	36.02	-4.28	
2442	7	484T	65	AVG	16.99	17.45	20.24	30.00	-9.76	4.51	24.75	36.02	-11.27	
				PEAK	24.46	24.85	27.67	30.00	-2.33	4.51	32.18	36.02	-3.84	
2447	8	484T	65	AVG	17.92	17.79	20.87	30.00	-9.13	4.51	25.38	36.02	-10.64	
				PEAK	24.40	24.21	27.32	30.00	-2.68	4.51	31.83	36.02	-4.19	
2452	9	484T	65	AVG	16.69	17.01	19.86	30.00	-10.14	4.51	24.37	36.02	-11.65	
				PEAK	23.93	24.43	27.20	30.00	-2.80	4.51	31.71	36.02	-4.31	
2457	10	484T	65	AVG	15.65	15.98	18.83	30.00	-11.17	4.51	23.34	36.02	-12.68	
				PEAK	22.89	23.24	26.08	30.00	-3.92	4.51	30.59	36.02	-5.43	
2462	11	484T	65	AVG	4.12	4.36	7.25	30.00	-22.75	4.51	11.76	36.02	-24.26	
				PEAK	11.44	11.66	14.56	30.00	-15.44	4.51	19.07	36.02	-16.95	

Table 7-32. Conducted Output Power Measurements MIMO (484 Tones) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 55 of 213



Note:

Per ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted output power was measured to be 20.56 dBm for Antenna 1 and 20.47 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(20.56 \text{ dBm} + 20.47 \text{ dBm}) = (113.76 \text{ mW} + 111.43 \text{ mW}) = 225.19 \text{ mW} = 23.53 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2412MHz in 802.11g (20MHz BW) mode, the average MIMO conducted power was calculated to be 20.25 dBm with directional gain of 4.51 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$20.25 \text{ dBm} + 4.51 \text{ dBi} = 24.76 \text{ dBm}$$

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 56 of 213

V9.0 02/01/2019

7.4 Power Spectral Density

§15.247(e); RSS-247 [5.2]

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates, tones configurations, and RU indices were investigated and the worst case configuration results are reported in this section.

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 57 of 213

V9.0 02/01/2019

Test Notes

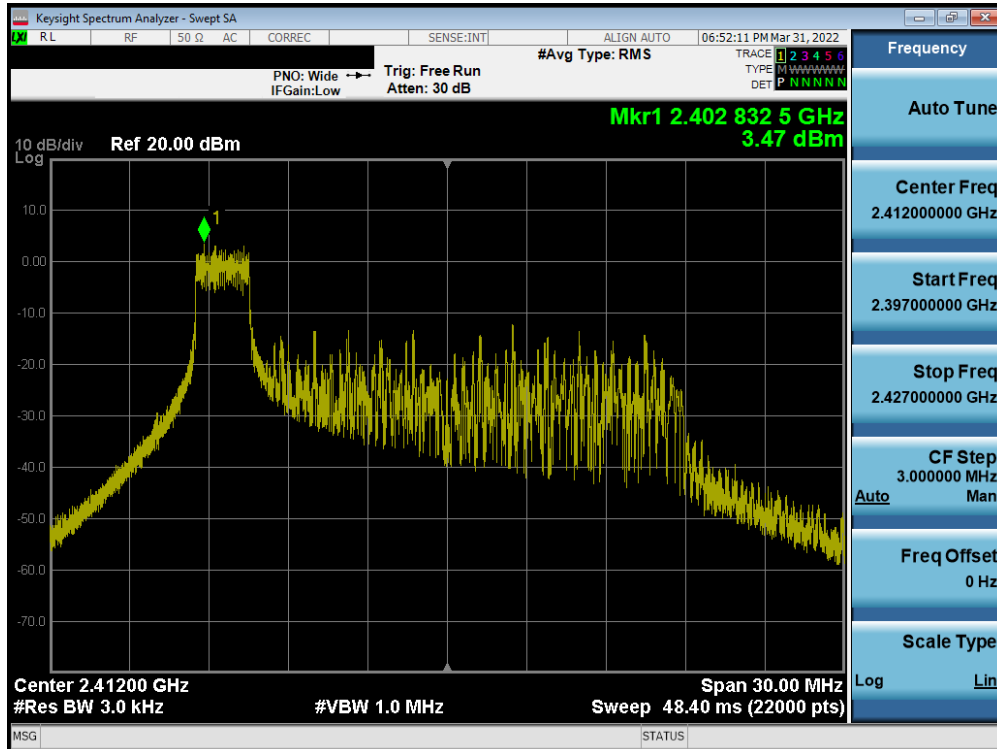
1. Based on preliminary measurements, it was determined that, of all of the tone configurations, the 26T configuration produced the worst case power spectral density measurement for partial loaded case. Therefore, only the 26 Tone configuration and 242 Tone data is included in this section.
2. The power spectral density for each channel was measured with the RU index showing the highest conducted power.

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 58 of 213

SISO Antenna-1 Power Spectral Density Measurements

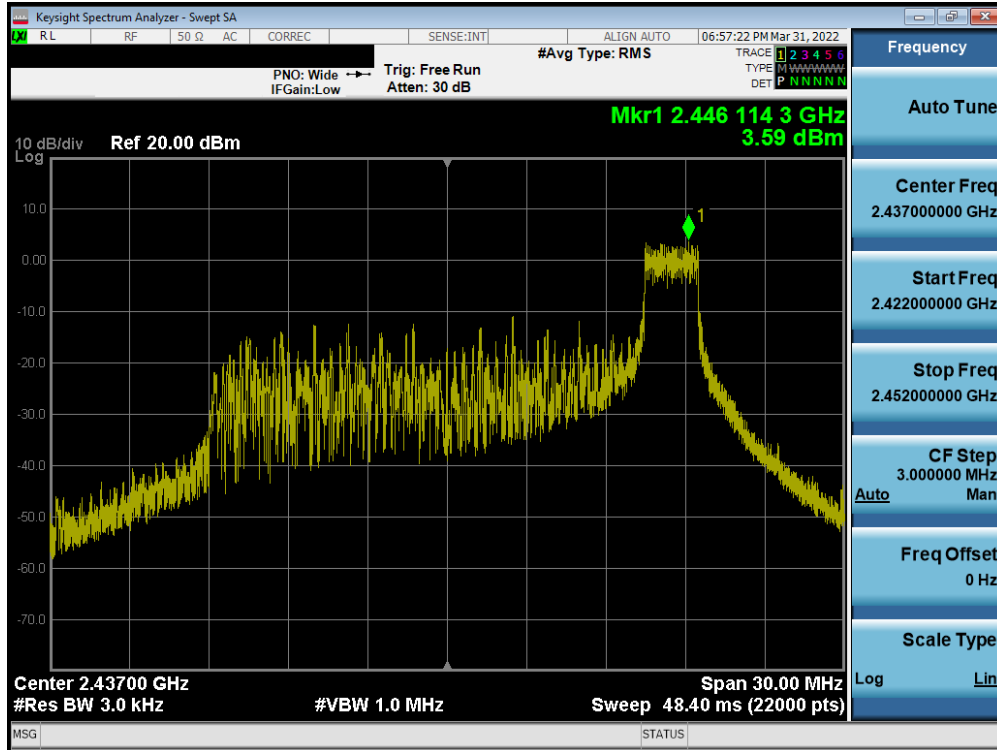
Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	ax	26T	MCS0	3.47	8.00	-4.53	Pass
2437	6	ax	26T	MCS0	3.59	8.00	-4.41	Pass
2462	11	ax	26T	MCS0	-20.62	8.00	-28.62	Pass
2412	1	ax	242T	MCS0	-6.73	8.00	-14.73	Pass
2437	6	ax	242T	MCS0	-3.12	8.00	-11.12	Pass
2462	11	ax	242T	MCS0	-5.00	8.00	-13.00	Pass

Table 7-33. Conducted Power Density Measurements SISO ANT1 – 20MHz

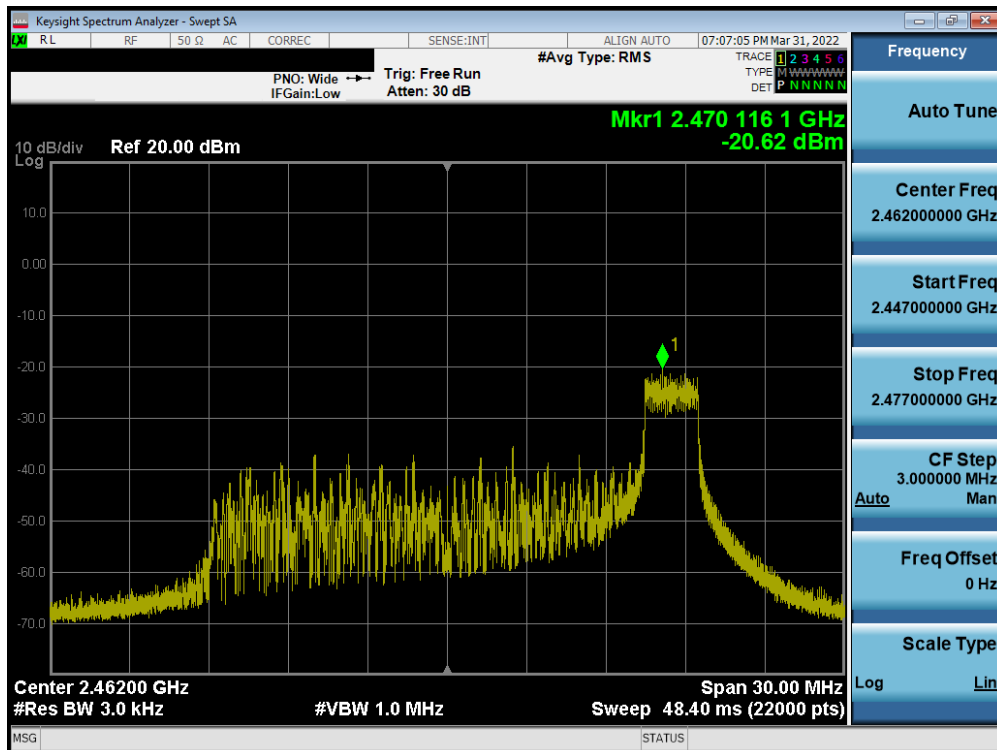


Plot 7-25. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 1) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 59 of 213

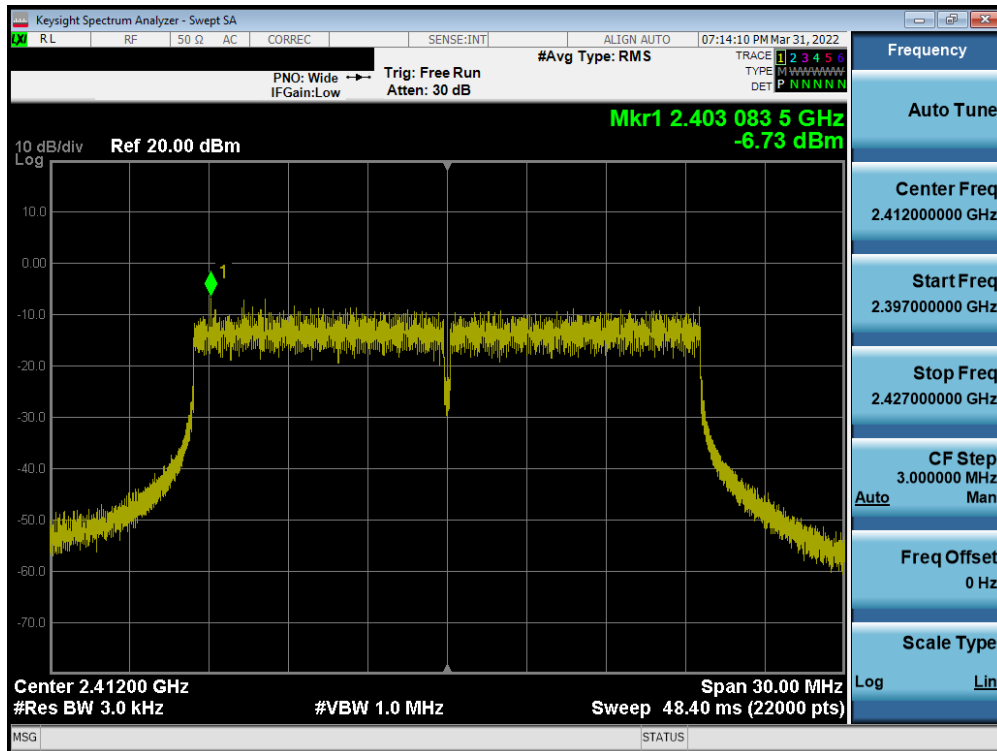


Plot 7-26. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 6) – 20MHz

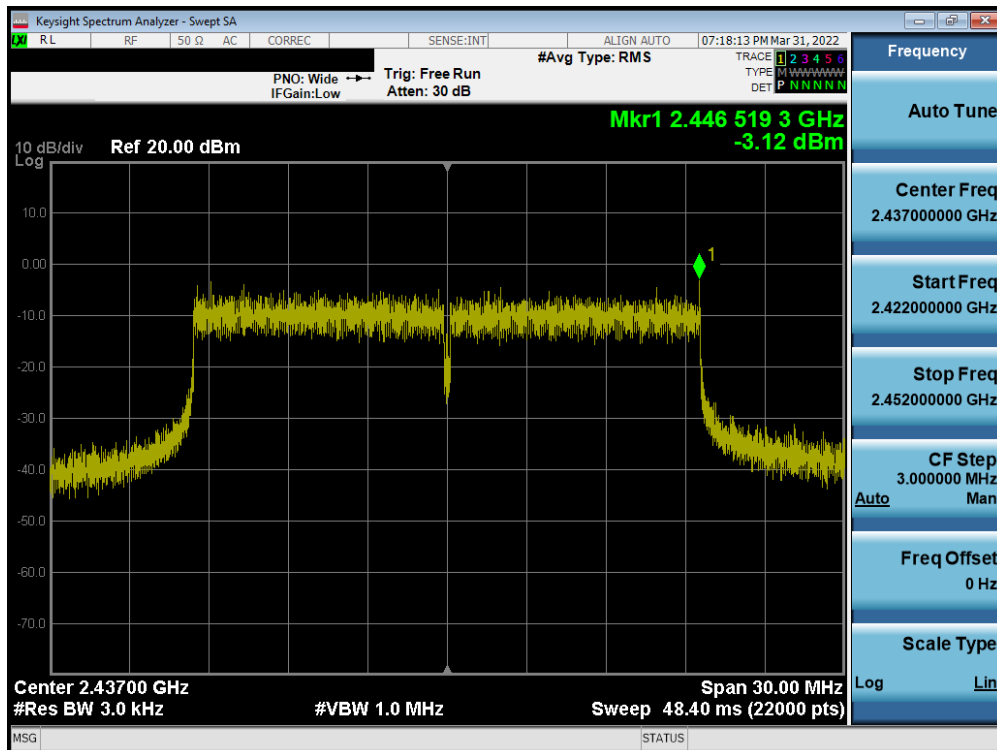


Plot 7-27. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 11) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 60 of 213

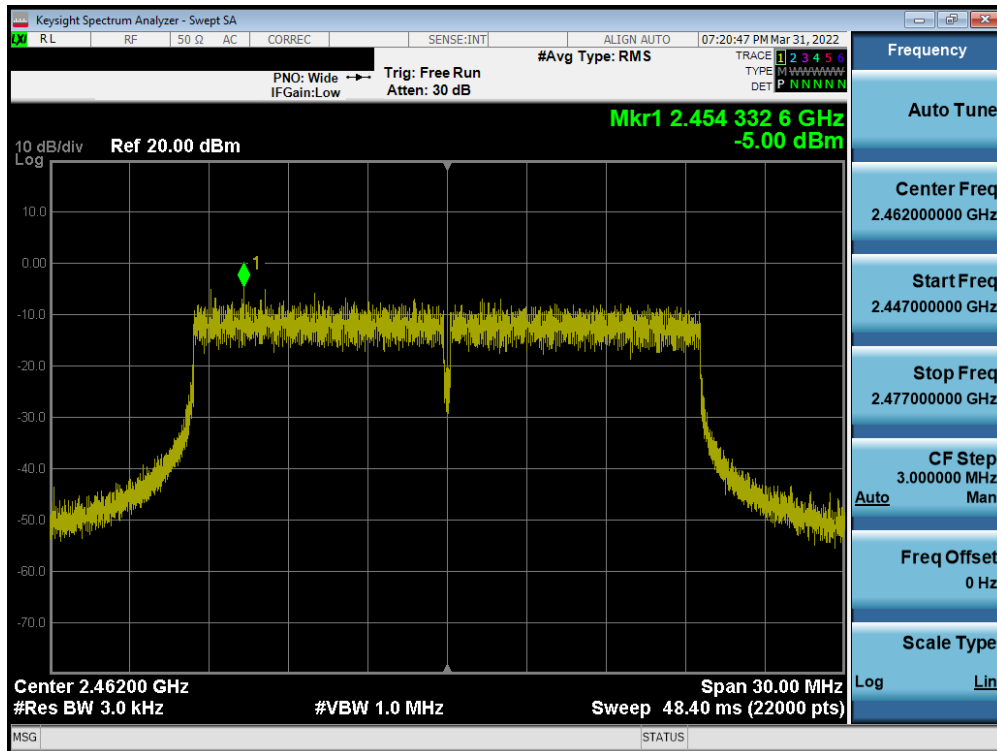


Plot 7-28. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1) – 20MHz



Plot 7-29. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 61 of 213

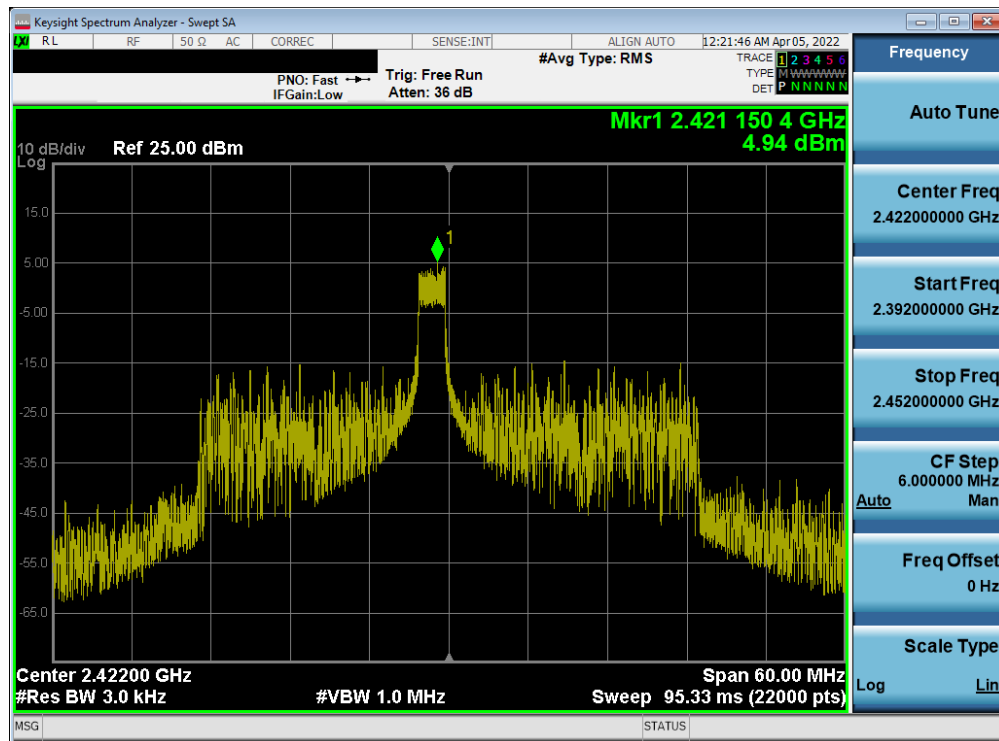


Plot 7-30. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 62 of 213

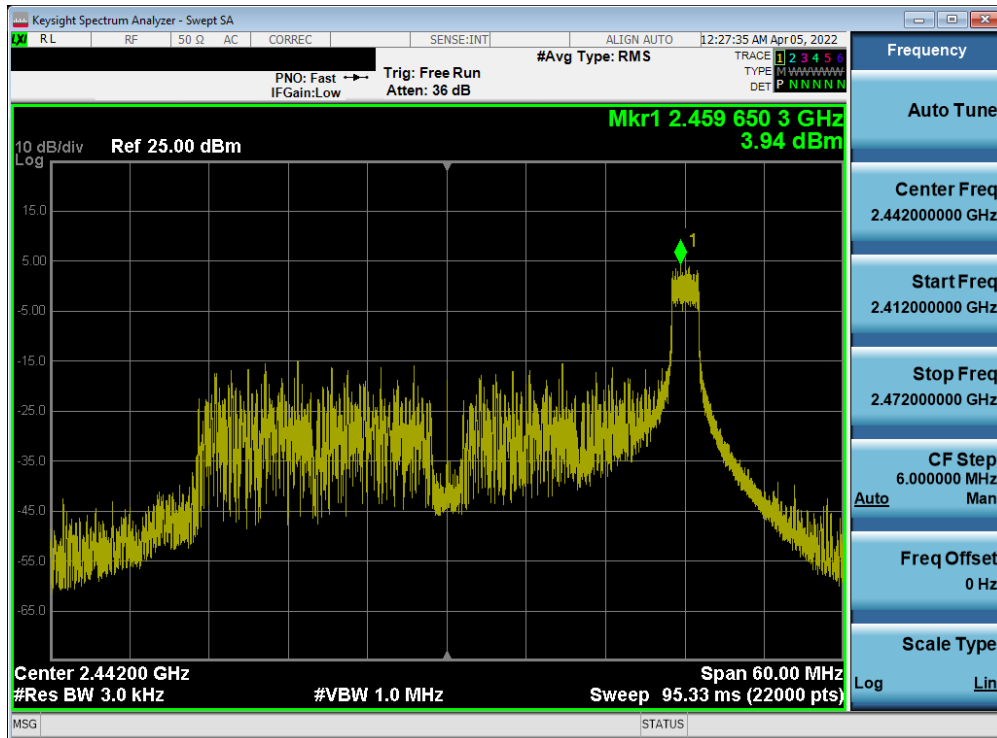
Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2422	3	ax	26T	MCS0	4.94	8.00	-3.06	Pass
2442	7	ax	26T	MCS0	3.94	8.00	-4.06	Pass
2462	11	ax	26T	MCS0	-20.75	8.00	-28.75	Pass
2422	3	ax	484T	MCS0	-12.33	8.00	-20.33	Pass
2442	7	ax	484T	MCS0	-8.39	8.00	-16.39	Pass
2462	11	ax	484T	MCS0	-18.75	8.00	-26.75	Pass

Table 7-34. Conducted Power Density Measurements SISO ANT1 – 40MHz

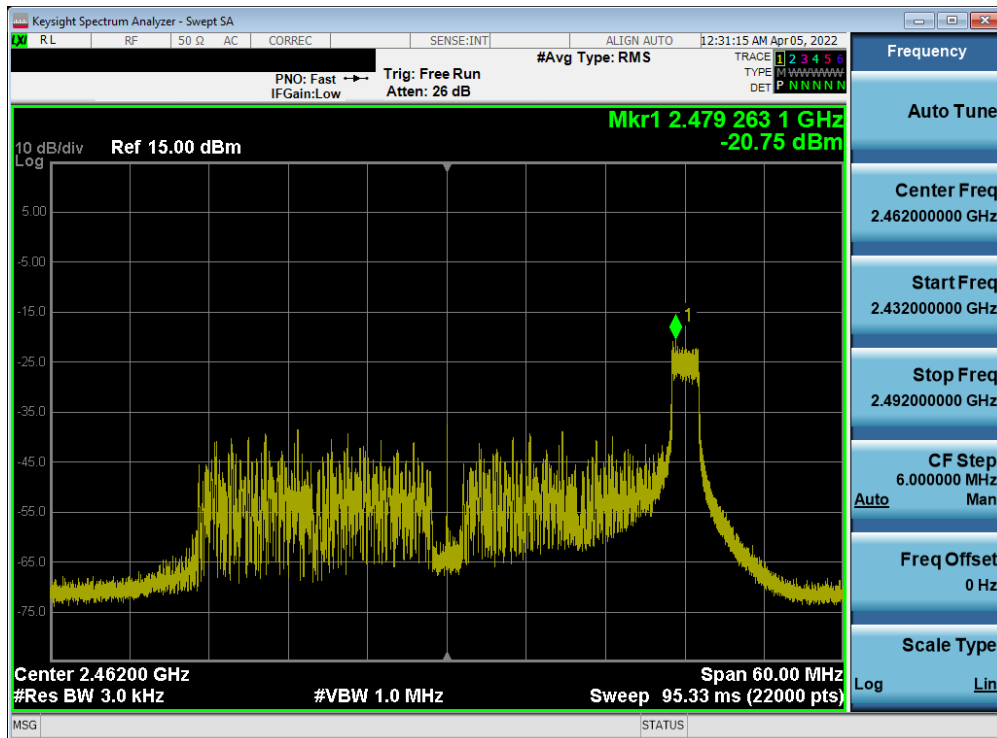


Plot 7-31. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 3) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 63 of 213

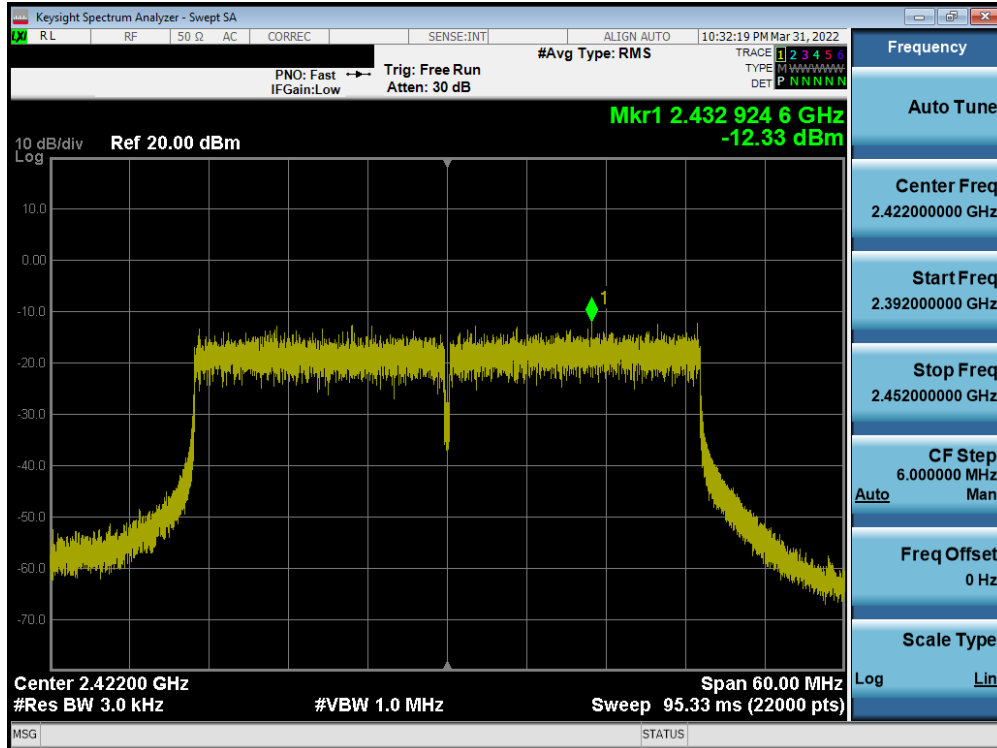


Plot 7-32. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 7) – 40MHz

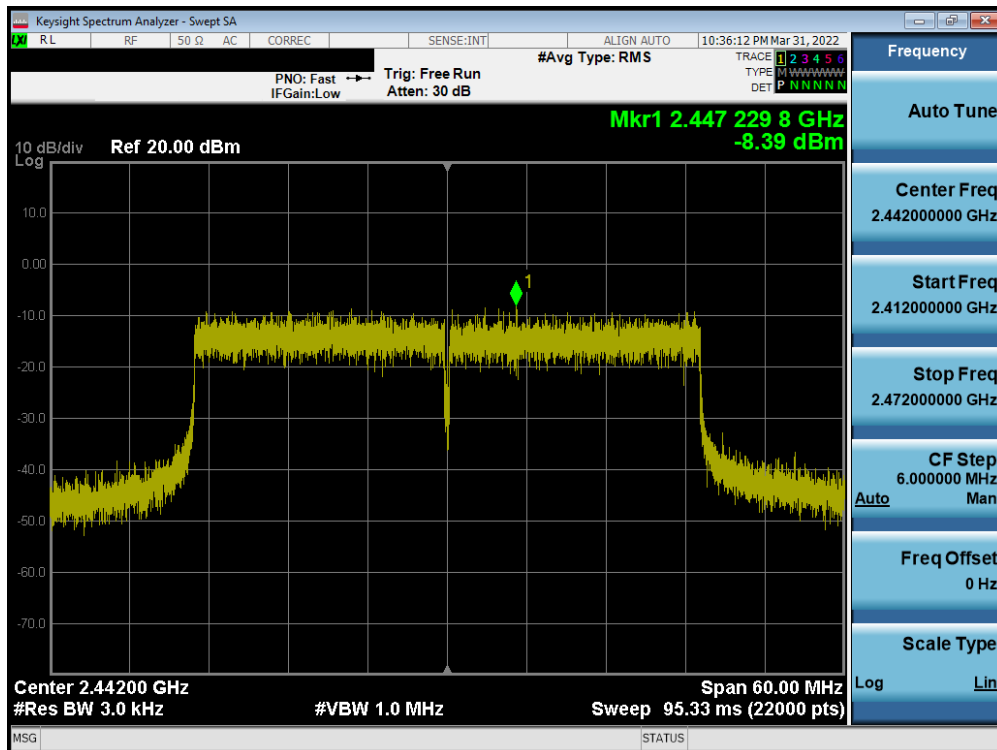


Plot 7-33. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 11) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 64 of 213

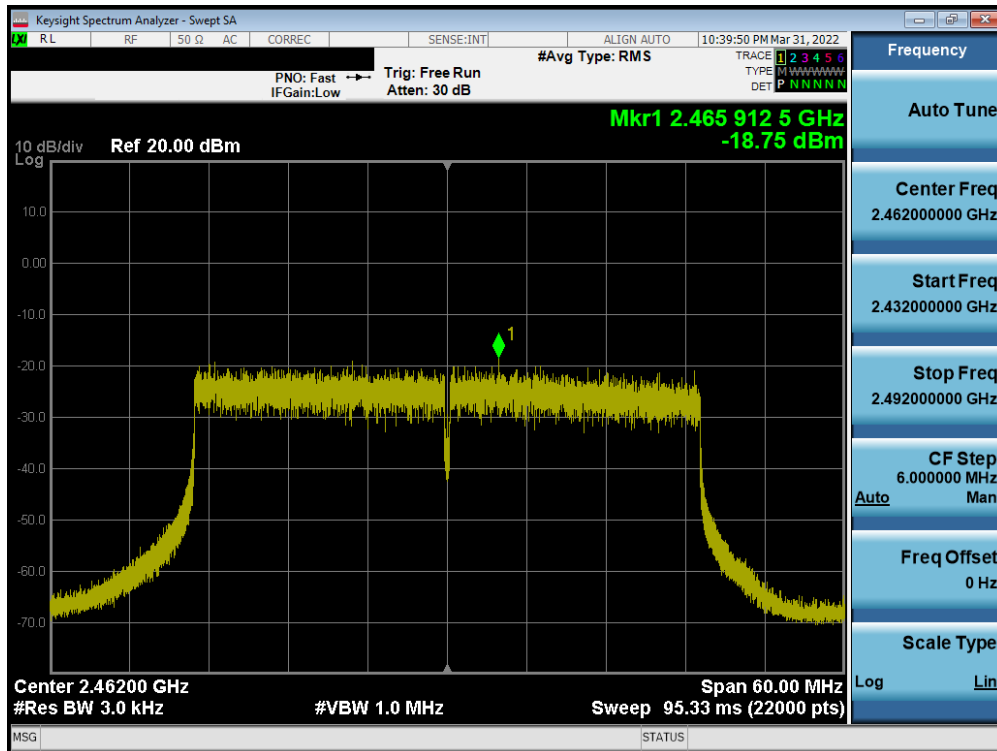


Plot 7-34. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 3) – 40MHz



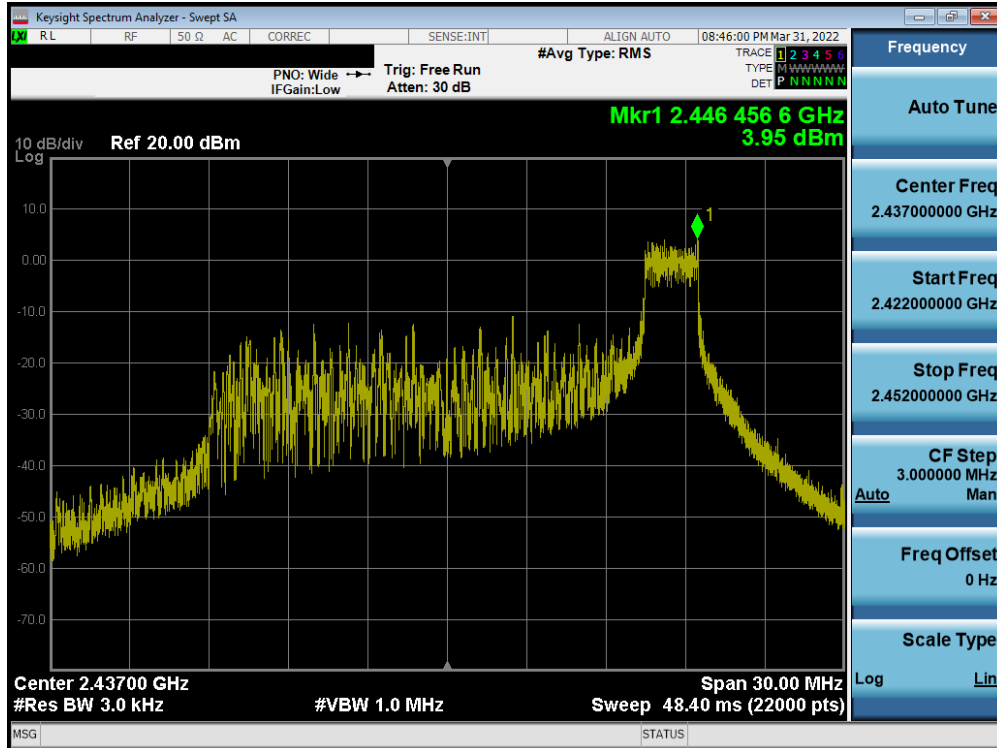
Plot 7-35. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 7) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 65 of 213

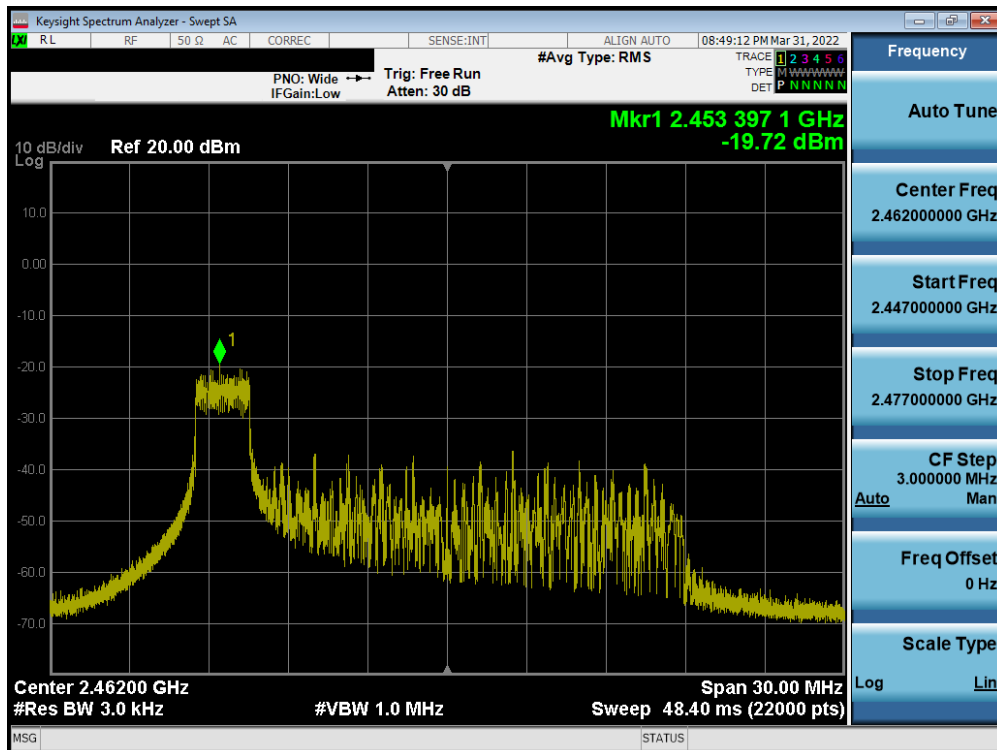


Plot 7-36. Power Spectral Density Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 11) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 66 of 213

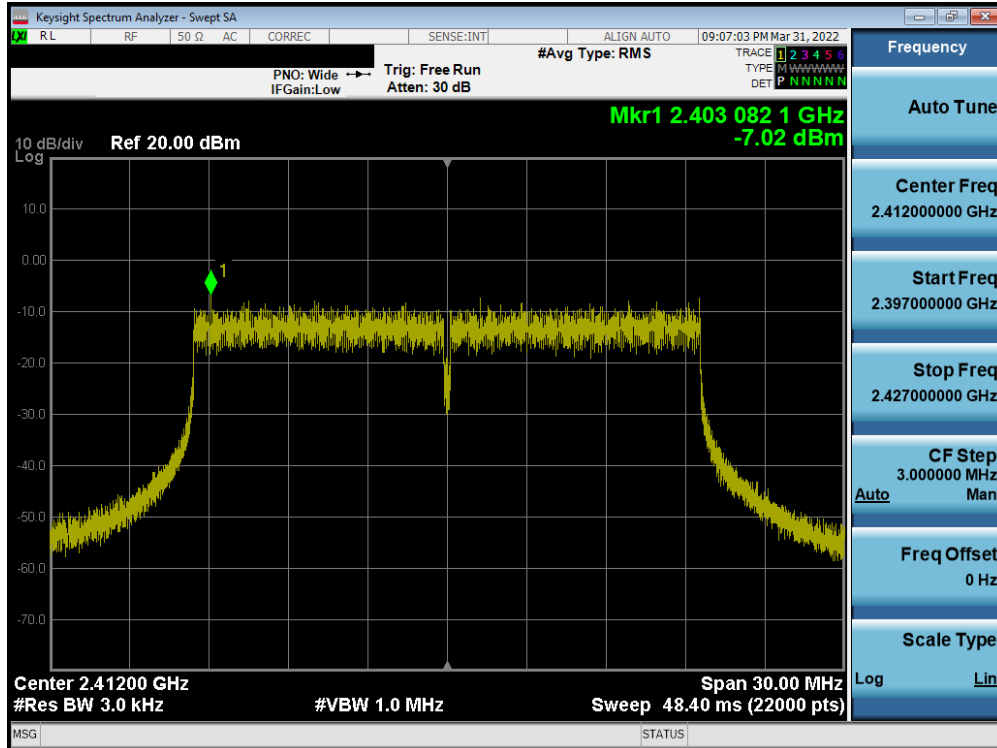


Plot 7-38. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 6) – 20MHz

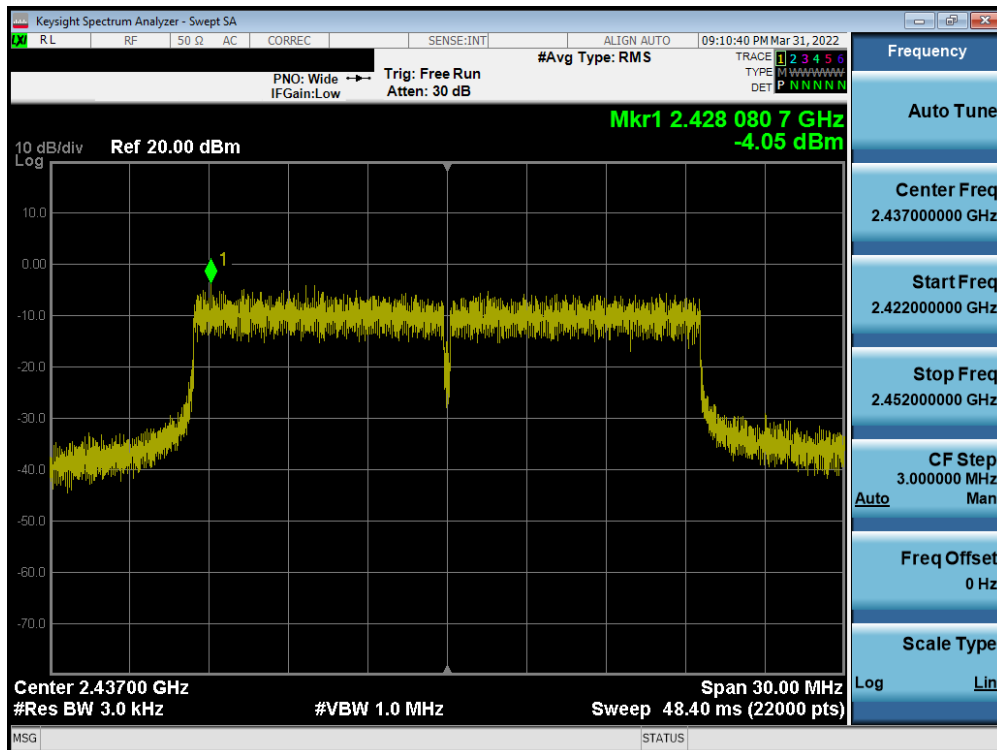


Plot 7-39. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 11) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 68 of 213

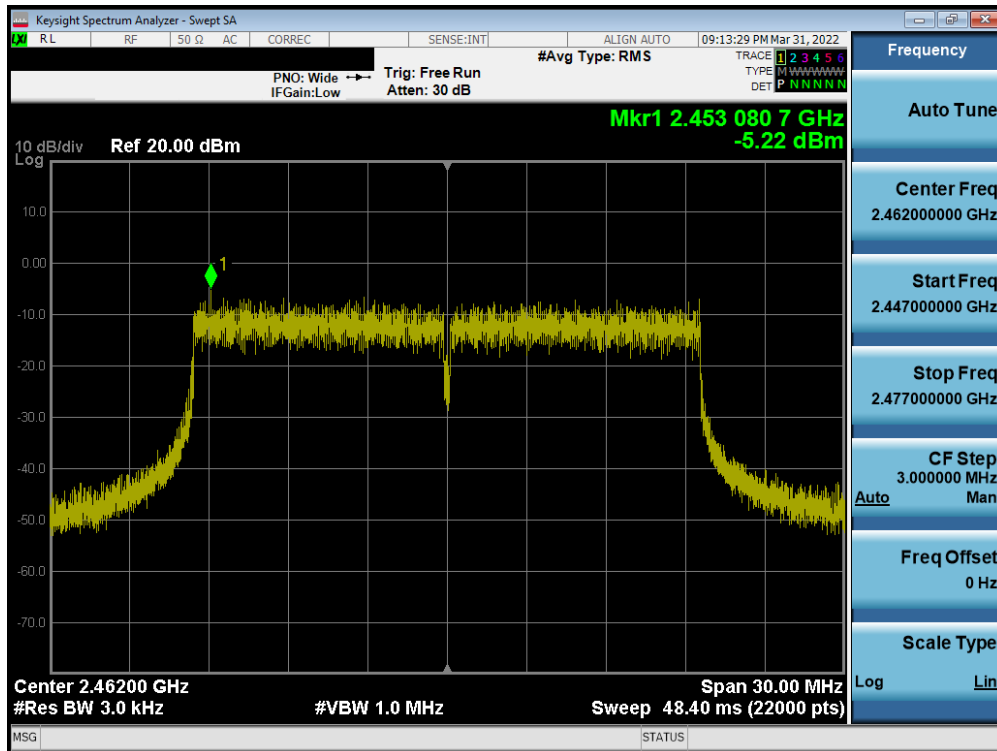


Plot 7-40. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1) – 20MHz



Plot 7-41. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 69 of 213

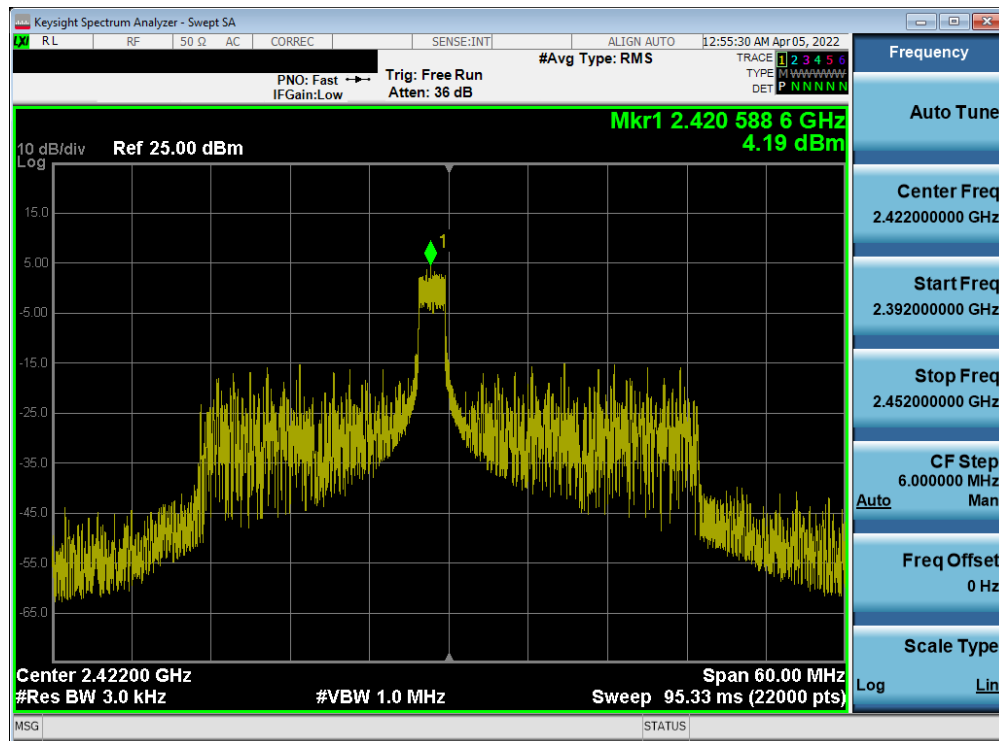


Plot 7-42. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 70 of 213

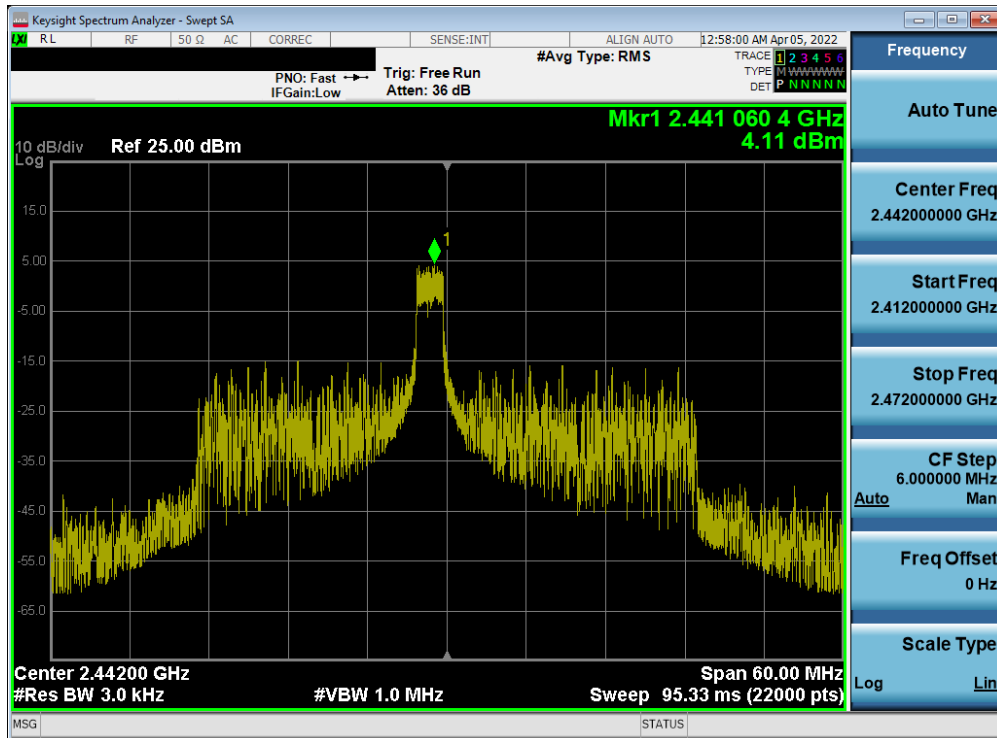
Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2422	3	ax	26T	MCS0	4.19	8.00	-3.81	Pass
2442	7	ax	26T	MCS0	4.11	8.00	-3.89	Pass
2462	11	ax	26T	MCS0	-20.12	8.00	-28.12	Pass
2422	3	ax	484T	MCS0	-11.46	8.00	-19.46	Pass
2442	7	ax	484T	MCS0	-7.20	8.00	-15.20	Pass
2462	11	ax	484T	MCS0	-19.04	8.00	-27.04	Pass

Table 7-36. Conducted Power Density Measurements SISO ANT2 – 40MHz

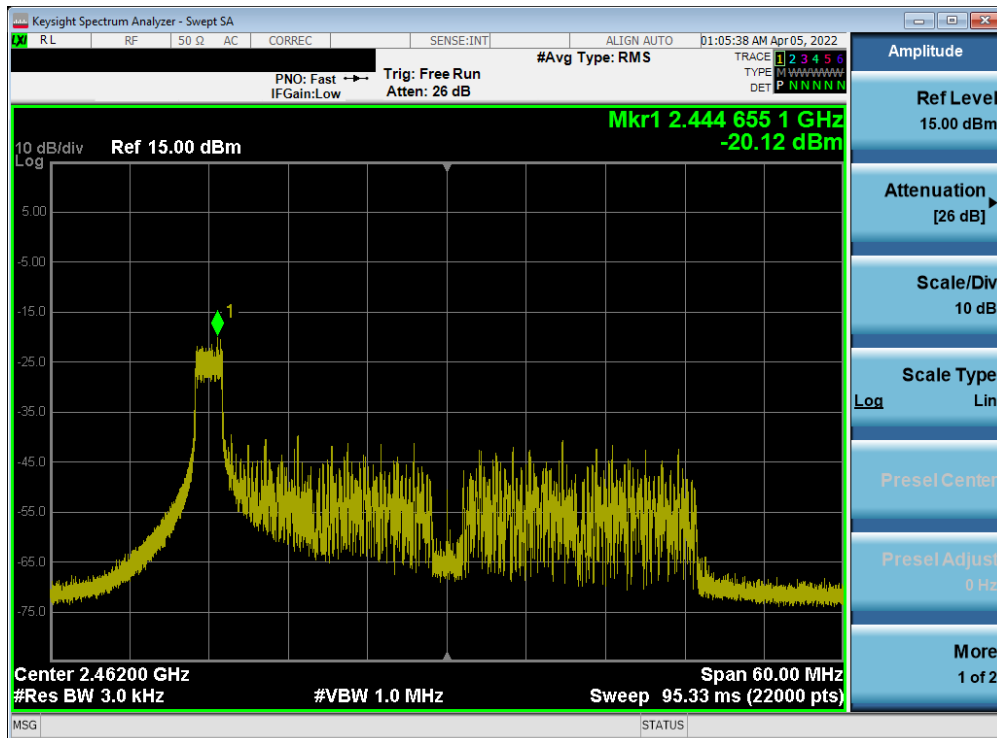


Plot 7-43. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 3) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 71 of 213

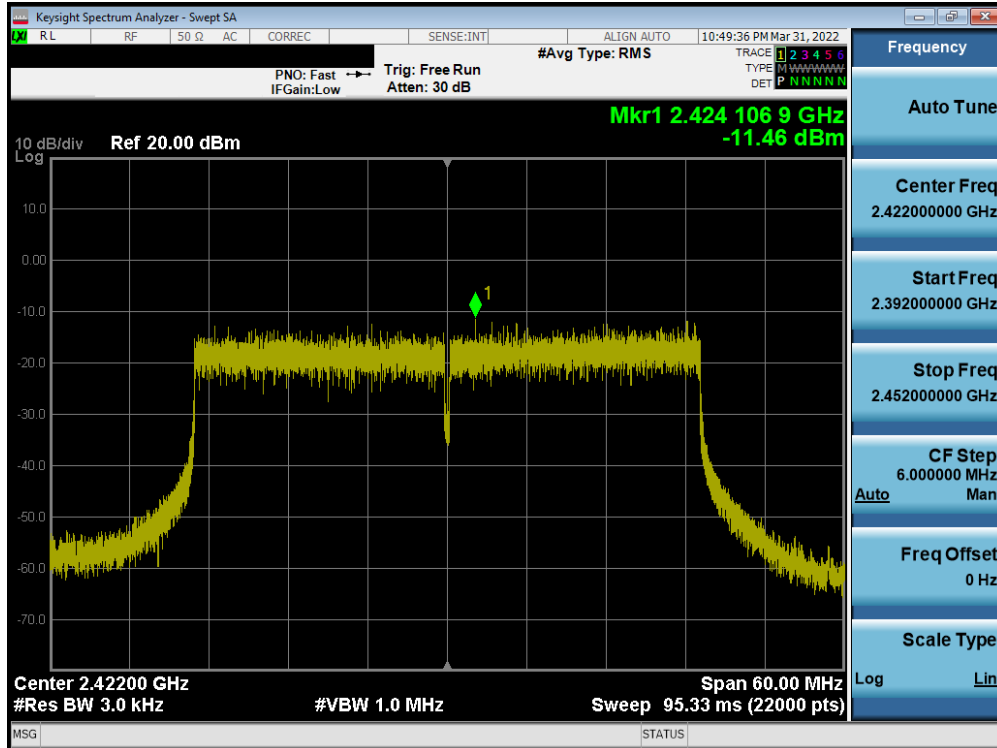


Plot 7-44. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 7) – 40MHz

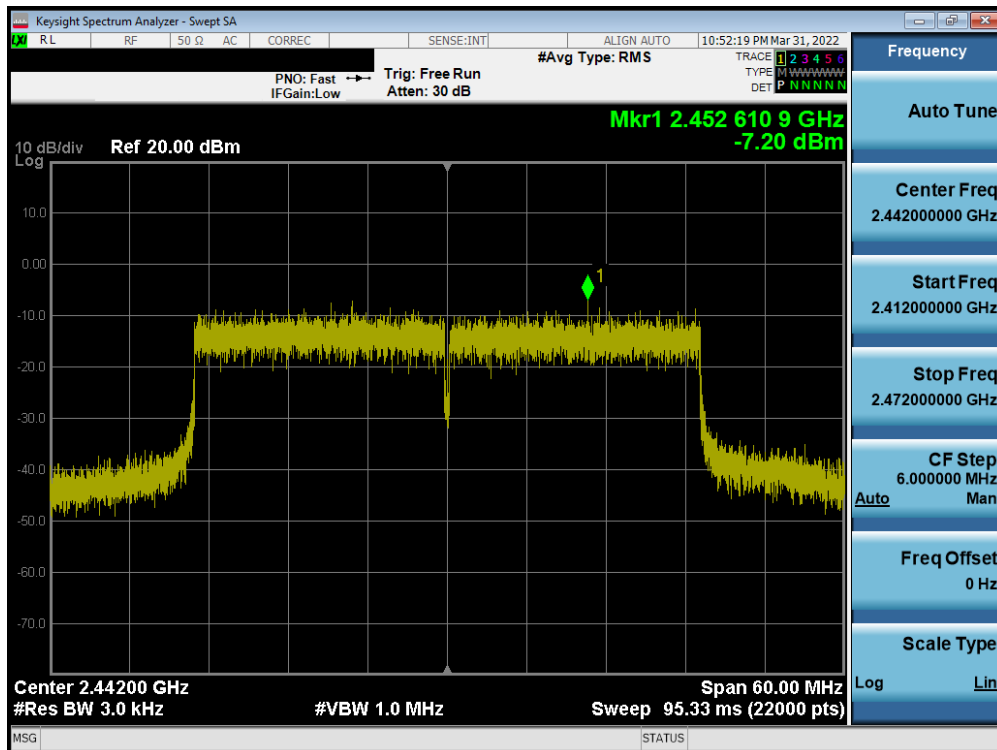


Plot 7-45. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 11) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 72 of 213

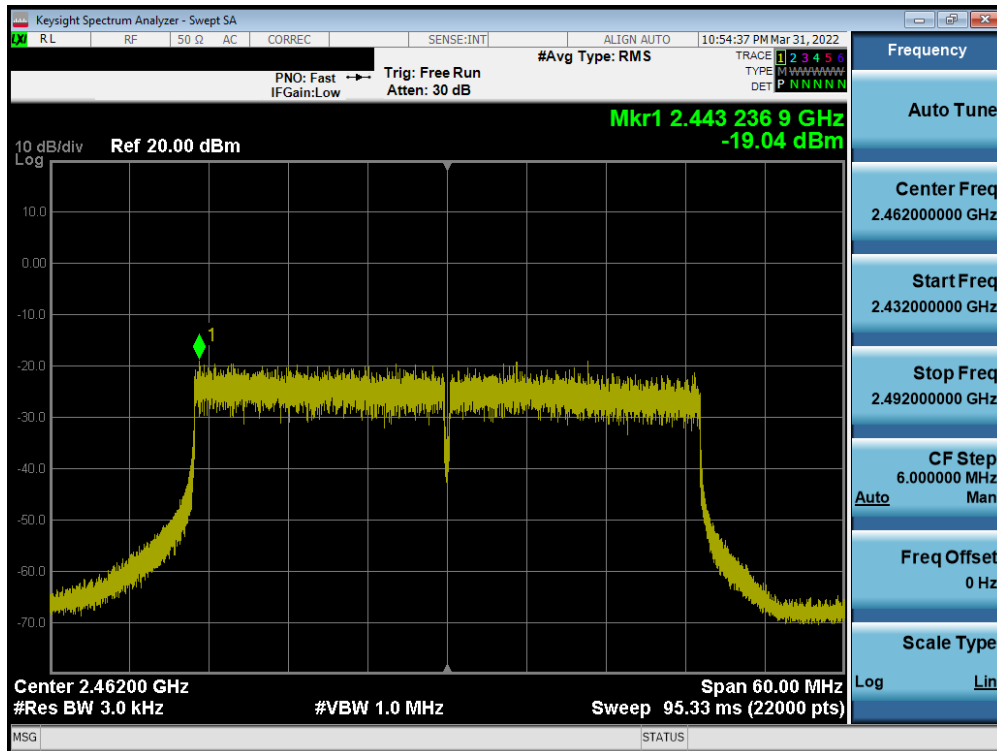


Plot 7-46. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 484 Tones – Ch. 3) – 40MHz



Plot 7-47. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 484 Tones – Ch. 7) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 73 of 213



Plot 7-48. Power Spectral Density Plot SISO ANT2 (802.11ax OFDMA – 484 Tones – Ch. 11) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 74 of 213

MIMO Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	ANT 1 Power Spectral Density [dBm]	ANT 2 Power Spectral Density [dBm]	Summed MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	ax	26T	MCS0	3.47	3.61	6.55	8.00	-1.45	Pass
2437	6	ax	26T	MCS0	3.59	3.95	6.78	8.00	-1.22	Pass
2462	11	ax	26T	MCS0	-20.62	-19.72	-17.13	8.00	-25.13	Pass
2412	1	ax	242T	MCS0	-6.73	-7.02	-3.86	8.00	-11.86	Pass
2437	6	ax	242T	MCS0	-3.12	-4.05	-0.55	8.00	-8.55	Pass
2462	11	ax	242T	MCS0	-5.00	-5.22	-2.10	8.00	-10.10	Pass

Table 7-37.MIMO Conducted Power Density Measurements– 20MHz

Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	ANT 1 Power Spectral Density [dBm]	ANT 2 Power Spectral Density [dBm]	Summed MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	ax	26T	MCS0	4.94	4.19	7.59	8.00	-0.41	Pass
2437	6	ax	26T	MCS0	3.94	4.11	7.03	8.00	-0.97	Pass
2462	11	ax	26T	MCS0	-20.75	-20.12	-17.41	8.00	-25.41	Pass
2412	1	ax	242T	MCS0	-12.33	-11.46	-8.86	8.00	-16.86	Pass
2437	6	ax	242T	MCS0	-8.39	-7.20	-4.74	8.00	-12.74	Pass
2462	11	ax	242T	MCS0	-18.75	-19.04	-15.88	8.00	-23.88	Pass

Table 7-38.MIMO Conducted Power Density Measurements– 40MHz

Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 D01 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted power spectral density was measured to be -2.13 dBm for Antenna 1 and -0.74 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(-2.13 \text{ dBm} + -0.74 \text{ dBm}) = (0.61 \text{ mW} + 0.84 \text{ mW}) = 1.46 \text{ mW} = 1.63 \text{ dBm}$$

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 75 of 213

7.5 Conducted Emissions at the Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates, tone configurations, and RU indices were investigated to determine the worst case configuration. For the following out of band conducted emissions plots at the band edge, the EUT was set to a data rate of MCS0 in 802.11ax mode as this setting produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Test Instrument & Measurement Setup

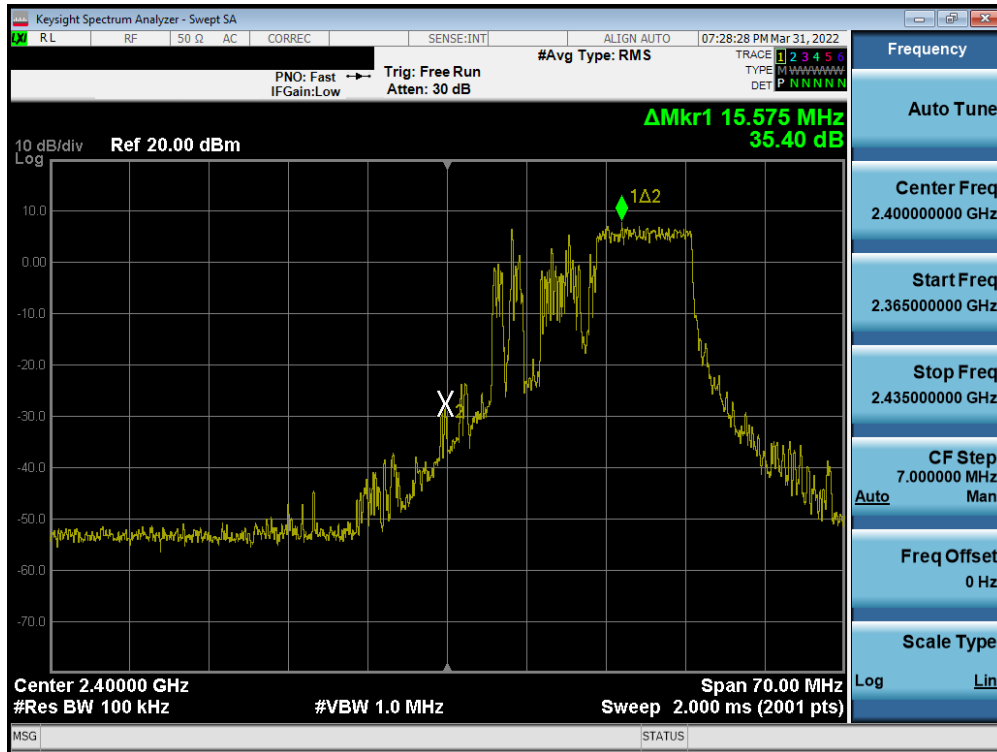
Test Notes

None

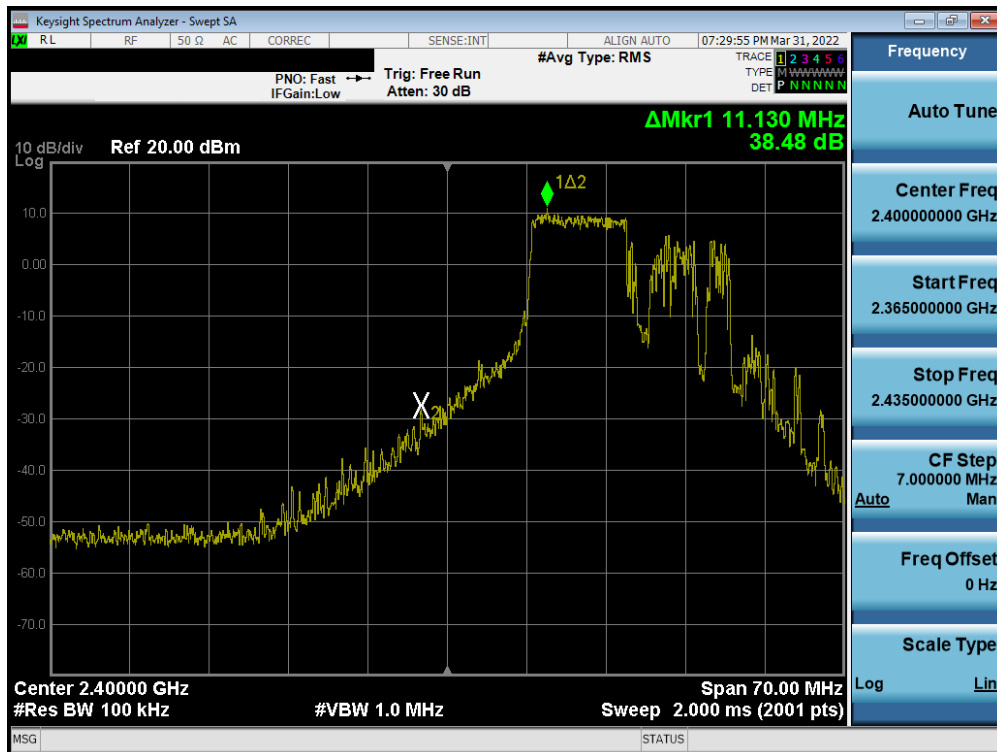
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 76 of 213

V9.0 02/01/2019

SISO Antenna-1 Conducted Emissions at the Band Edge

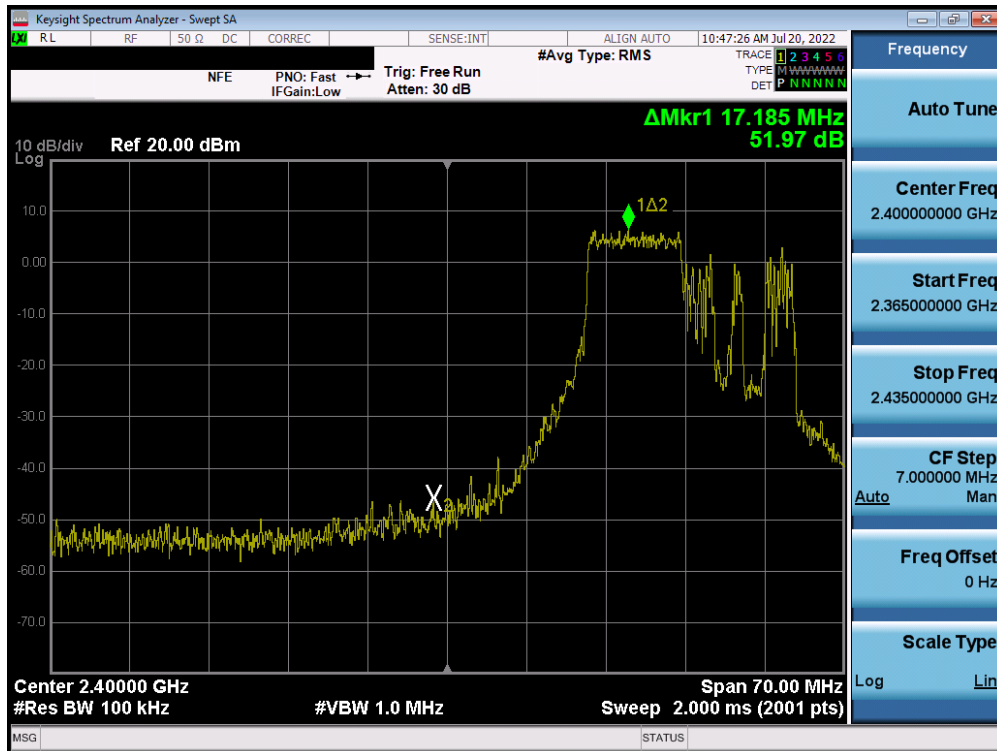


Plot 7-49. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 1) – 20MHz

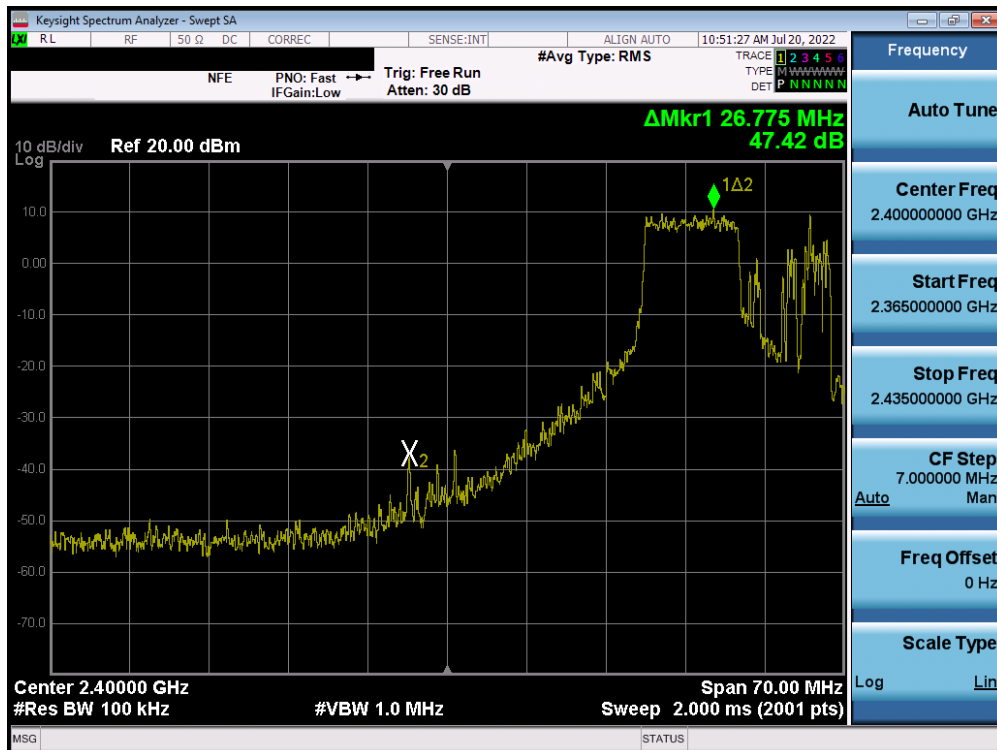


Plot 7-50. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 2) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 77 of 213

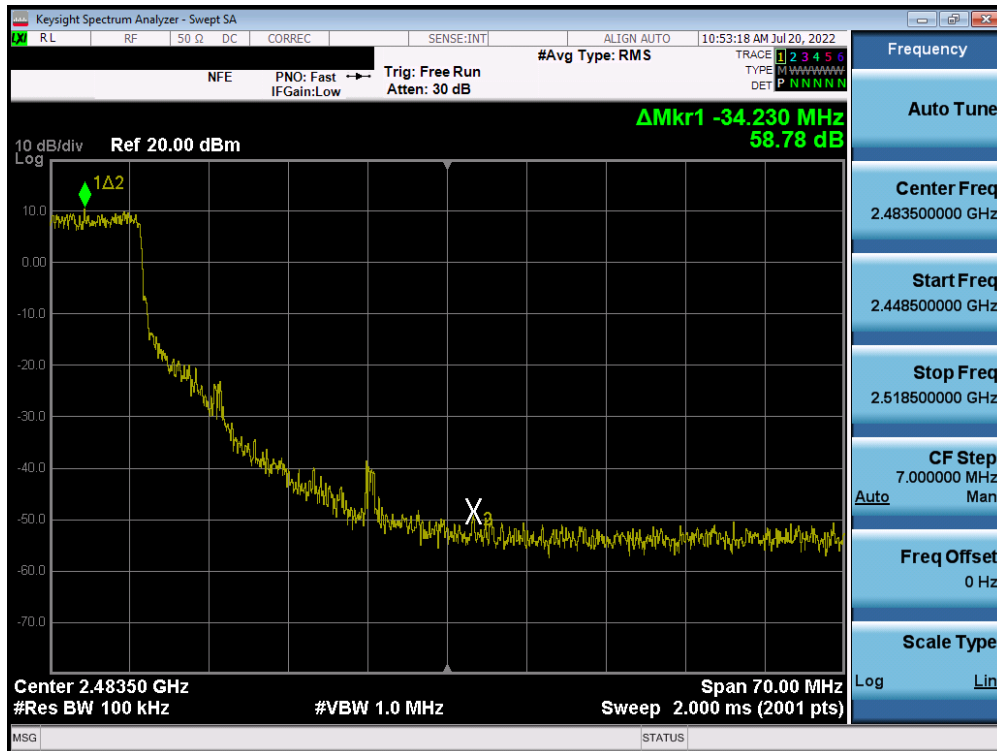


Plot 7-51. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 3) – 20MHz

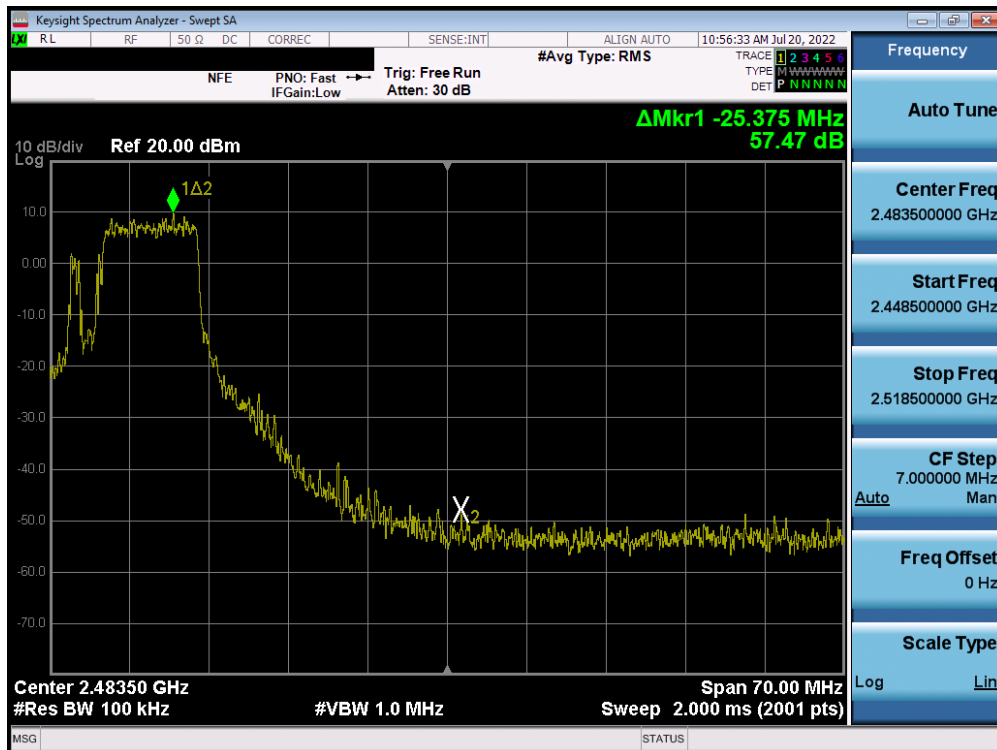


Plot 7-52. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 4) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 78 of 213



Plot 7-53. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 8) – 20MHz

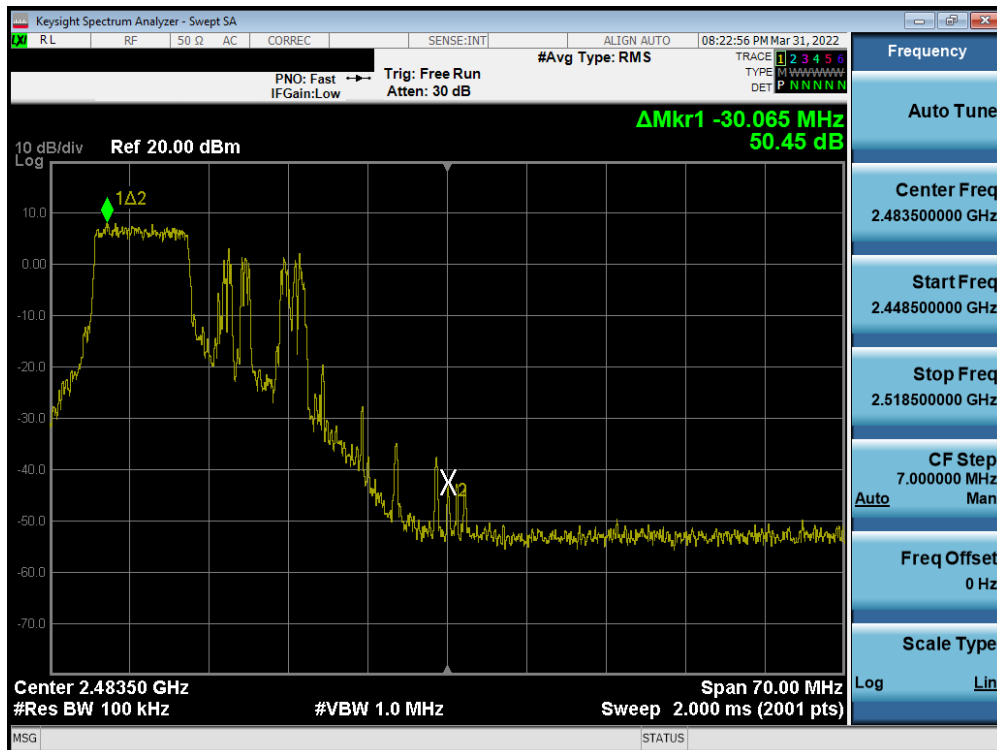


Plot 7-54. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 9) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 79 of 213

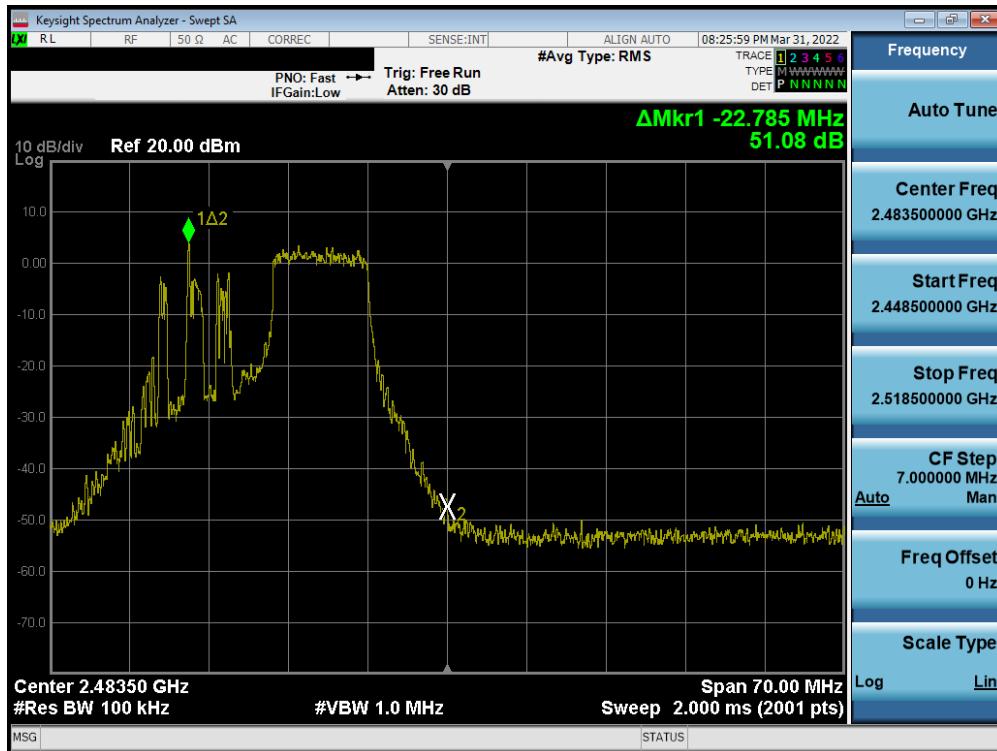


Plot 7-55. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 10) – 20MHz

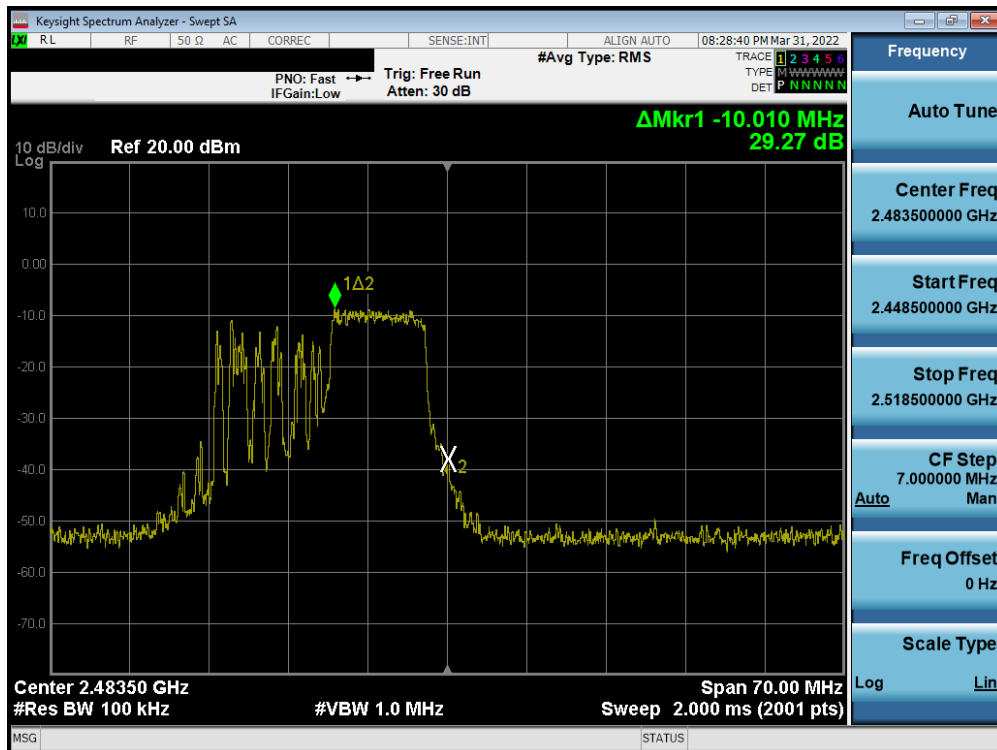


Plot 7-56. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 11) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 80 of 213

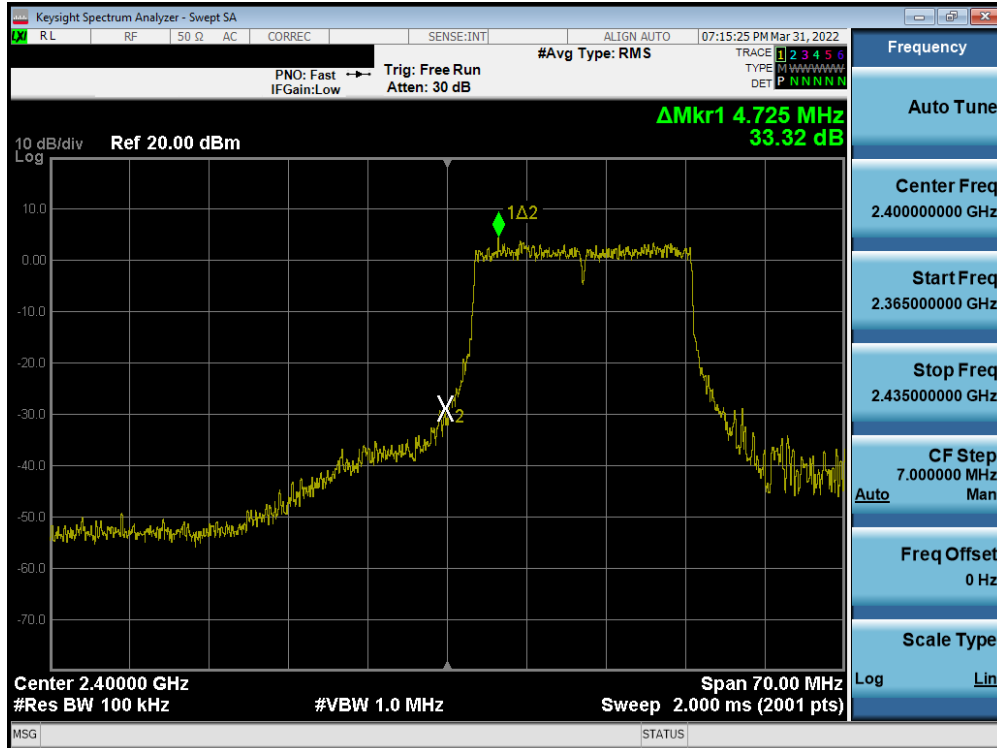


Plot 7-57. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 12) – 20MHz

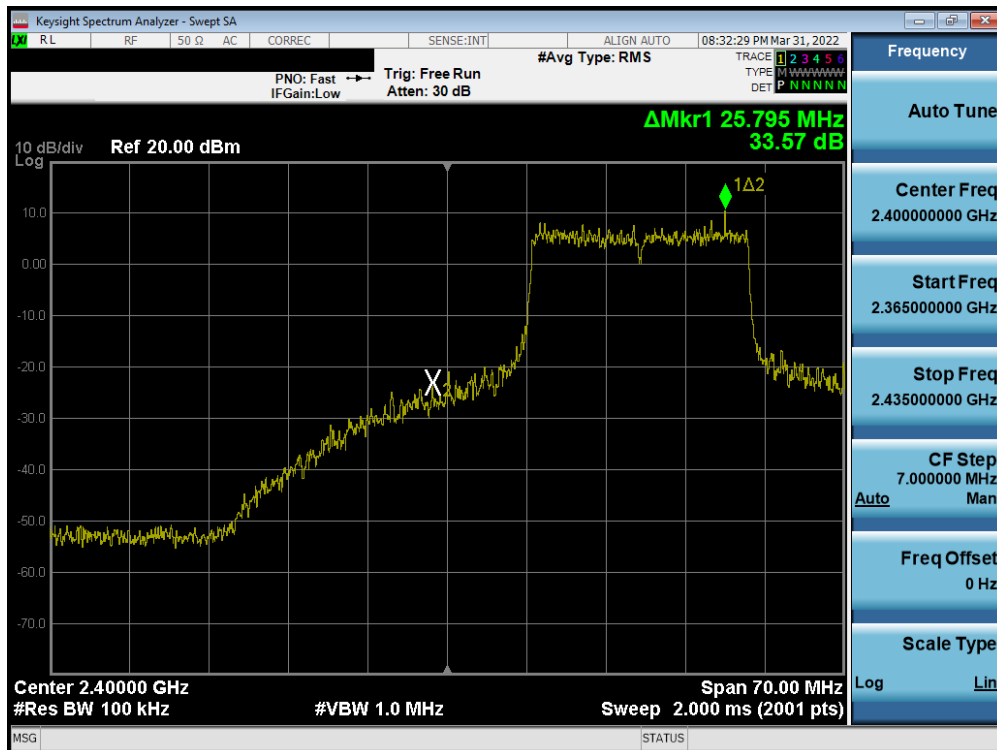


Plot 7-58. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 13) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 81 of 213

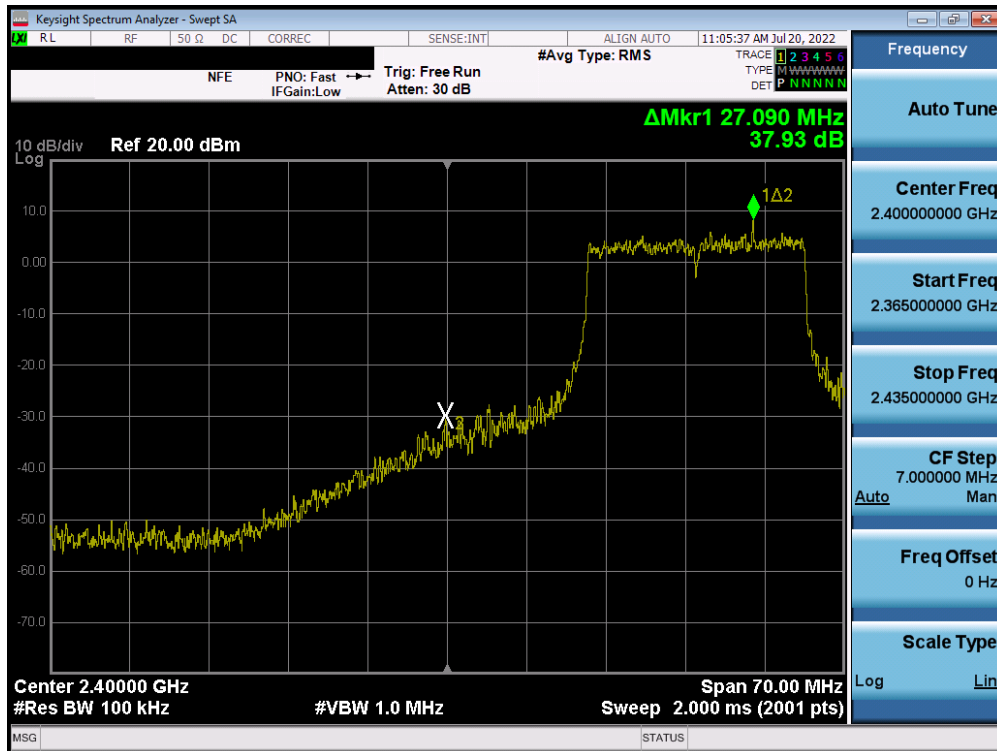


Plot 7-59. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1) – 20MHz

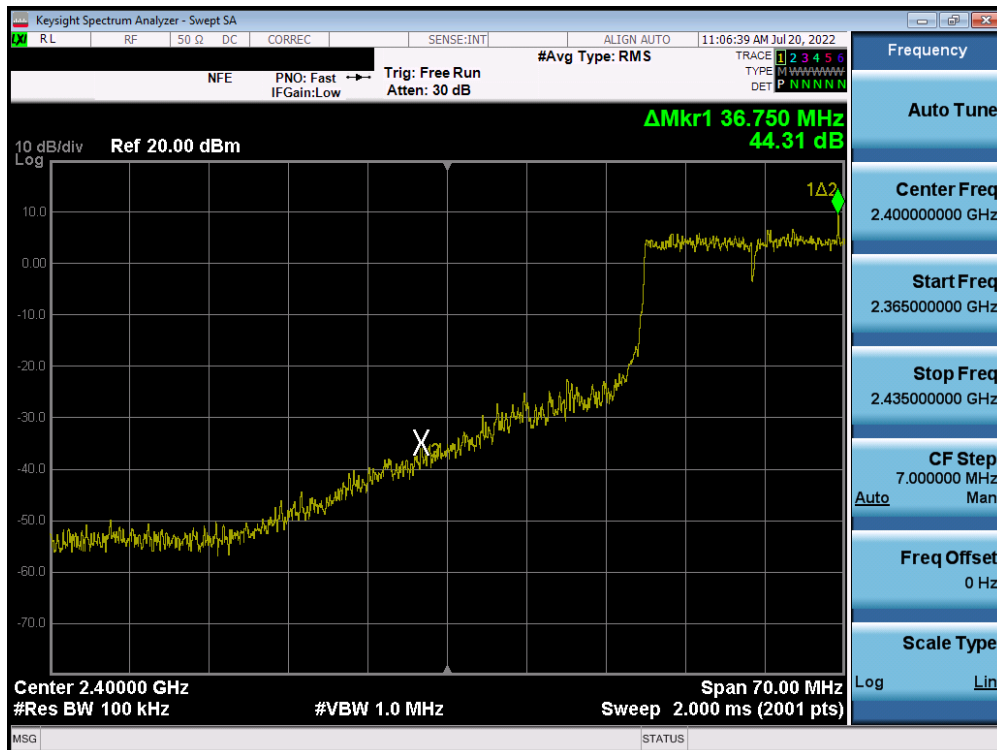


Plot 7-60. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 2) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 82 of 213

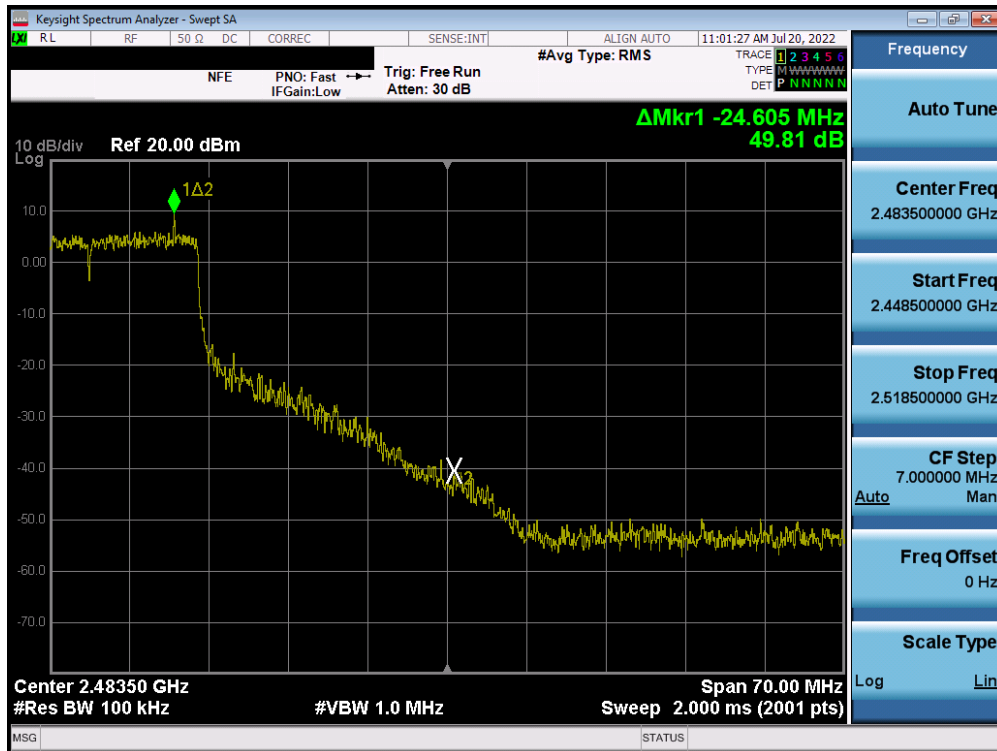


Plot 7-61. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 3) – 20MHz

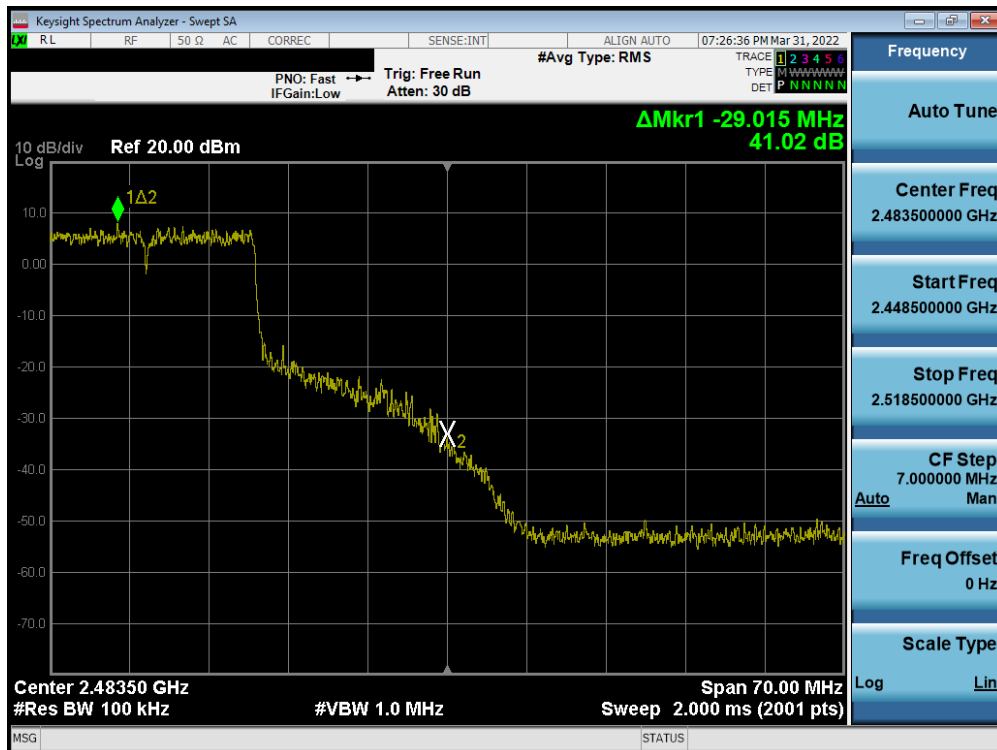


Plot 7-62. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 4) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 83 of 213

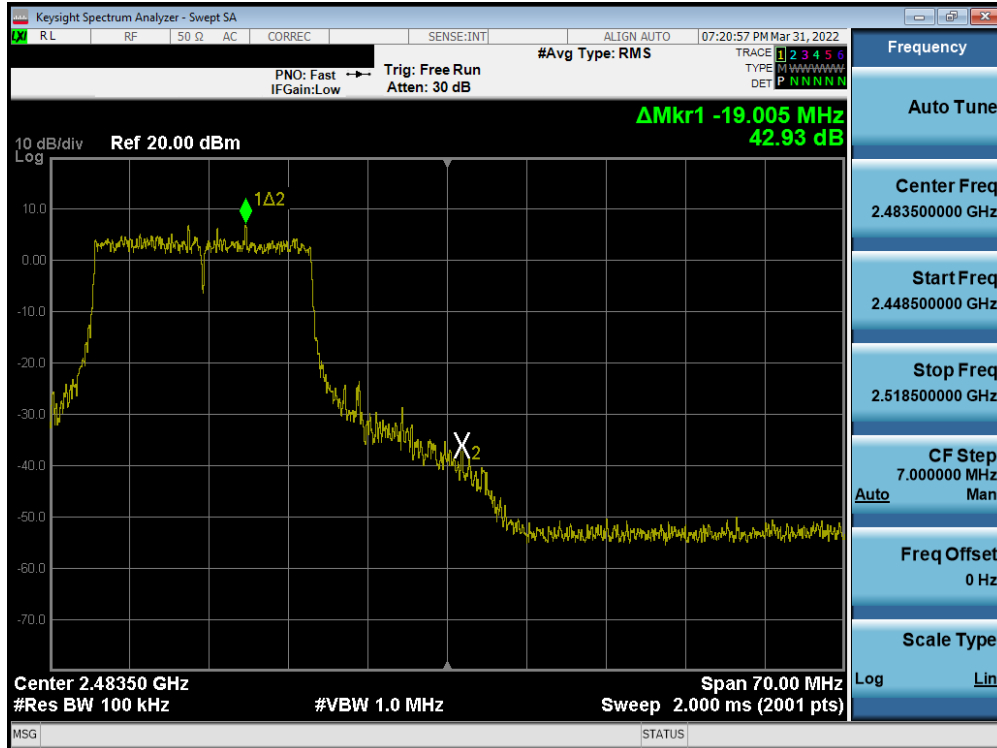


Plot 7-63. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 9) – 20MHz

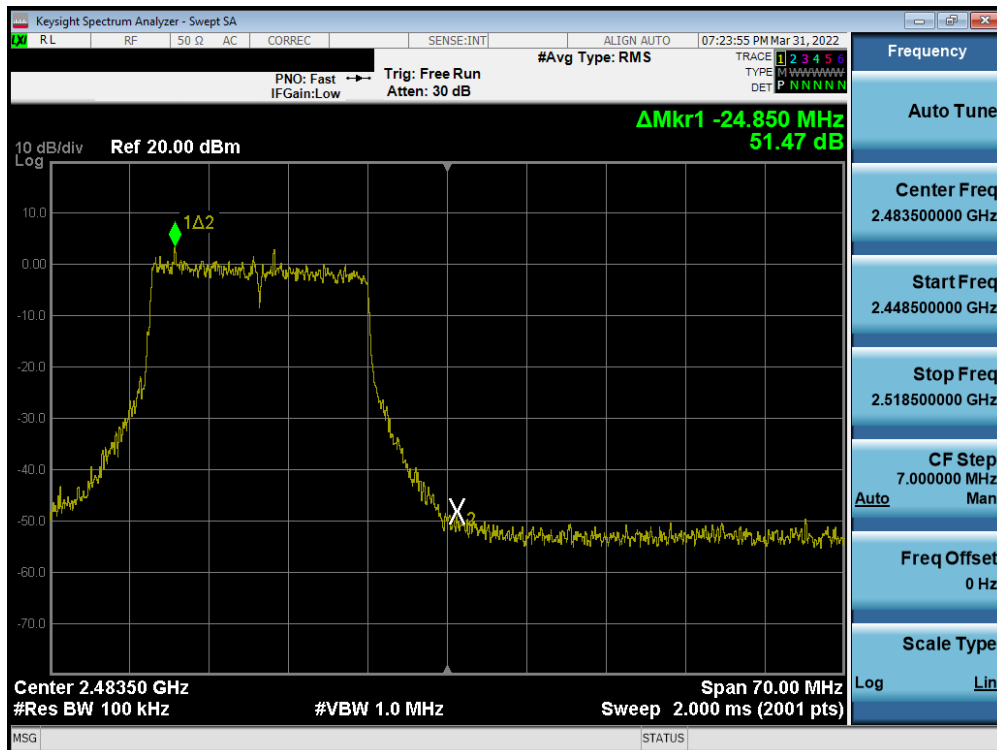


Plot 7-64. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 10) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 84 of 213

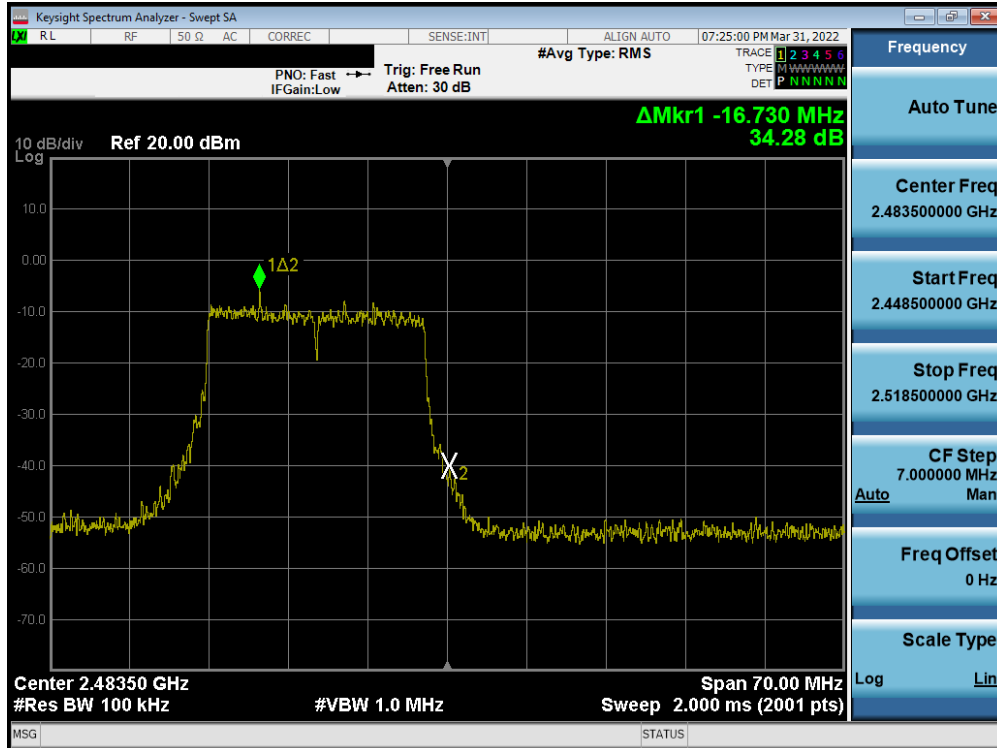


Plot 7-65. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11) – 20MHz

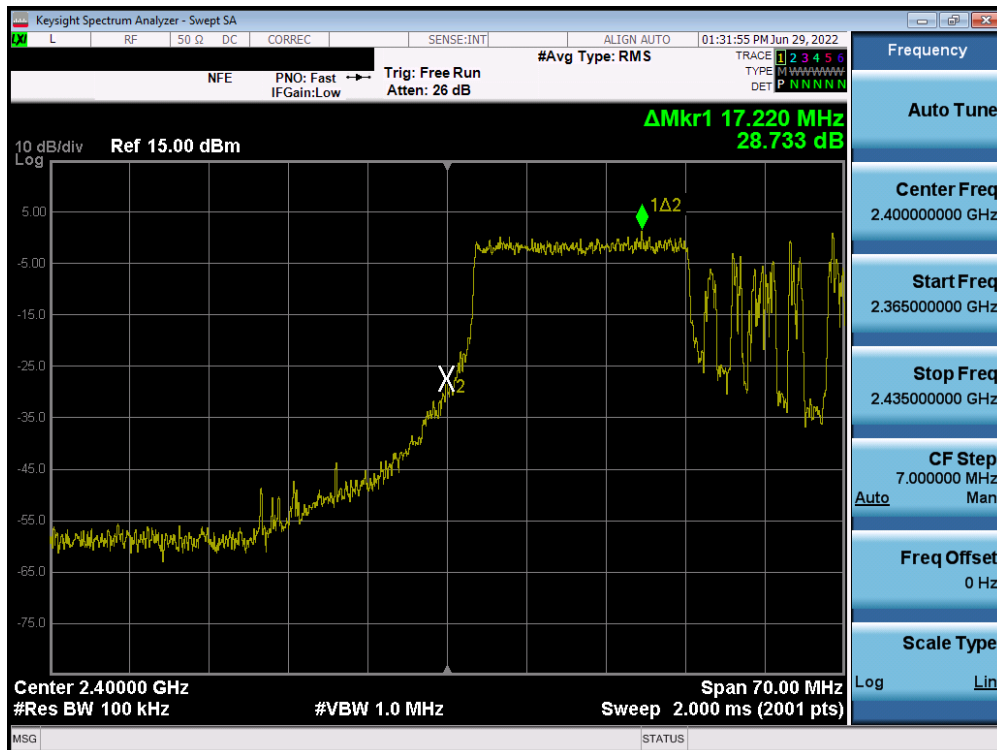


Plot 7-66. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 12) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 85 of 213

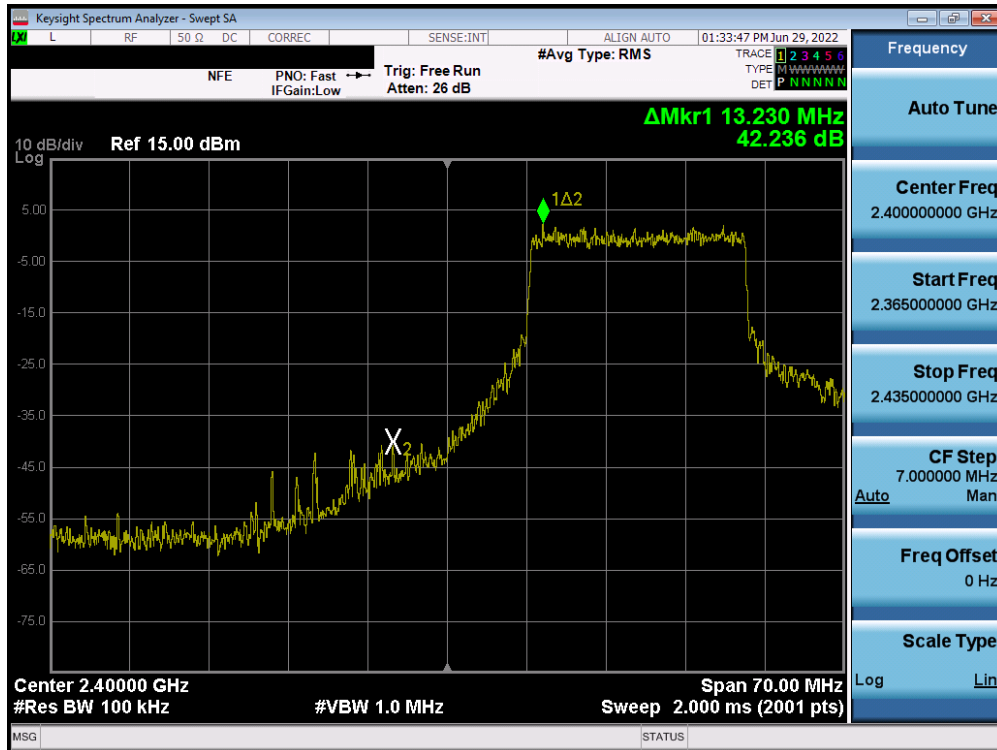


Plot 7-67. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 13) – 20MHz

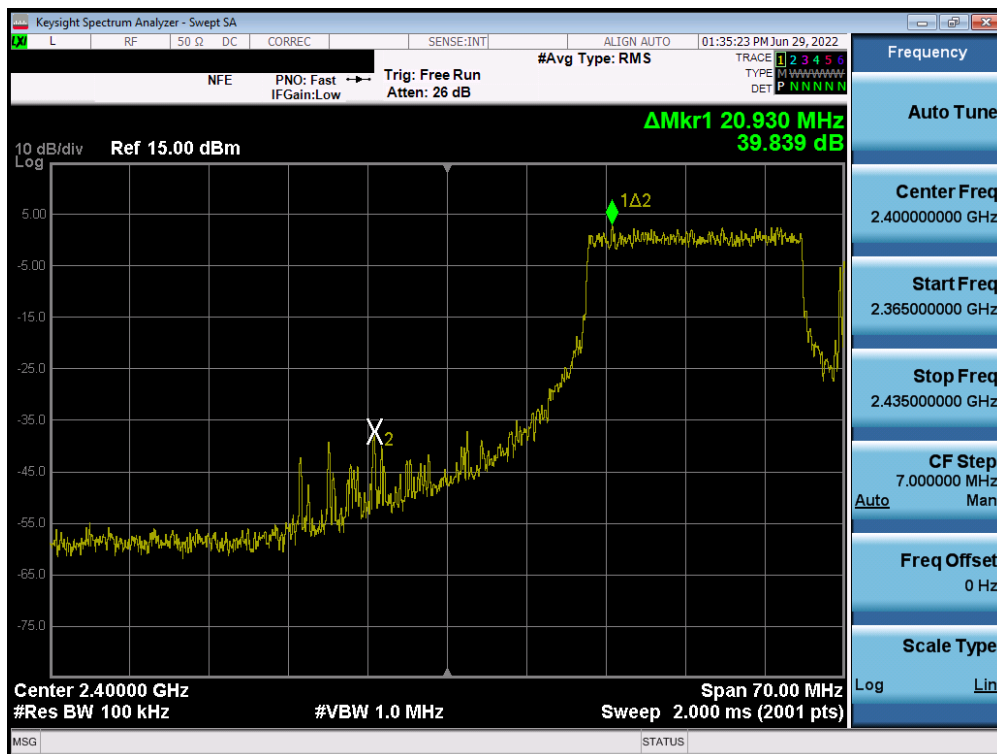


Plot 7-68. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 3) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 86 of 213

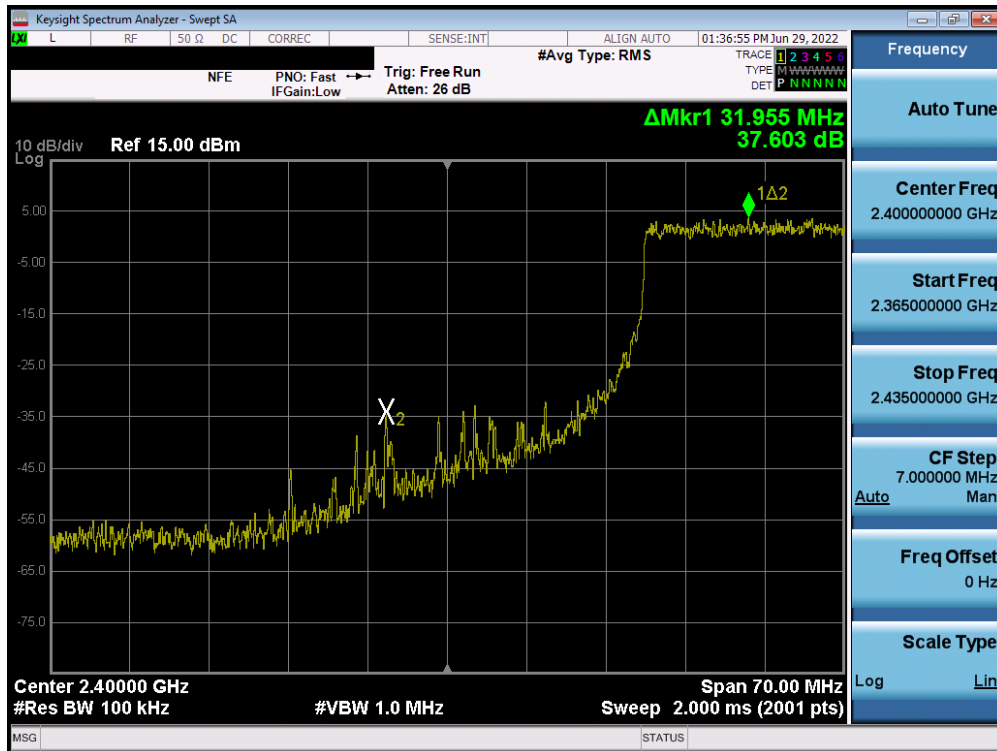


Plot 7-69. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 4) – 40MHz

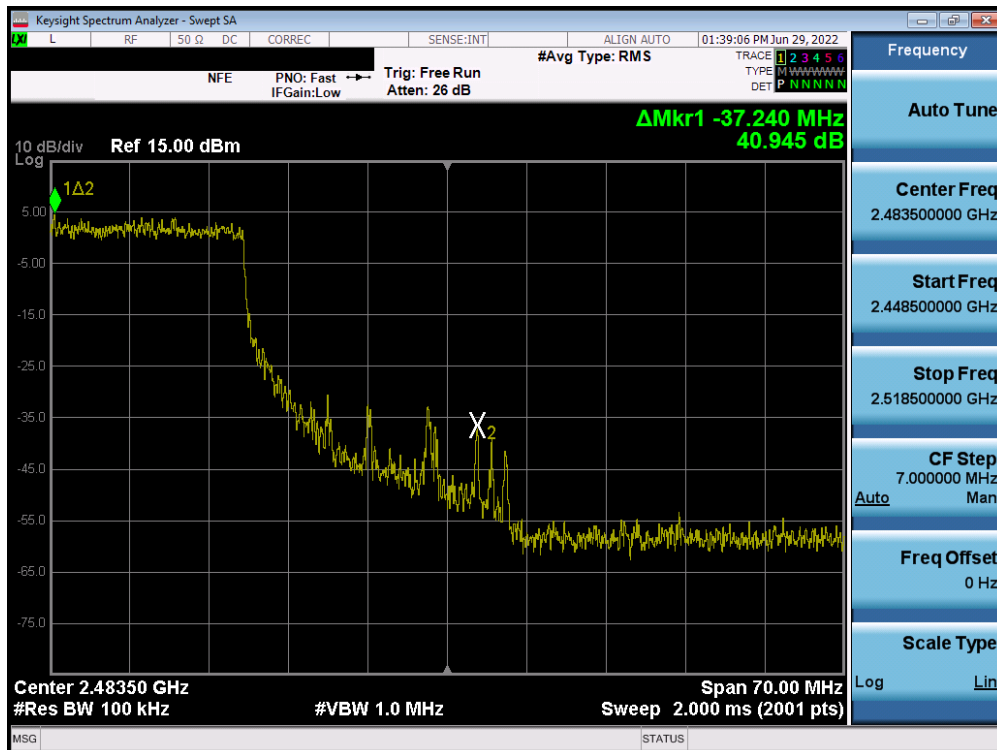


Plot 7-70. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 5) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 87 of 213

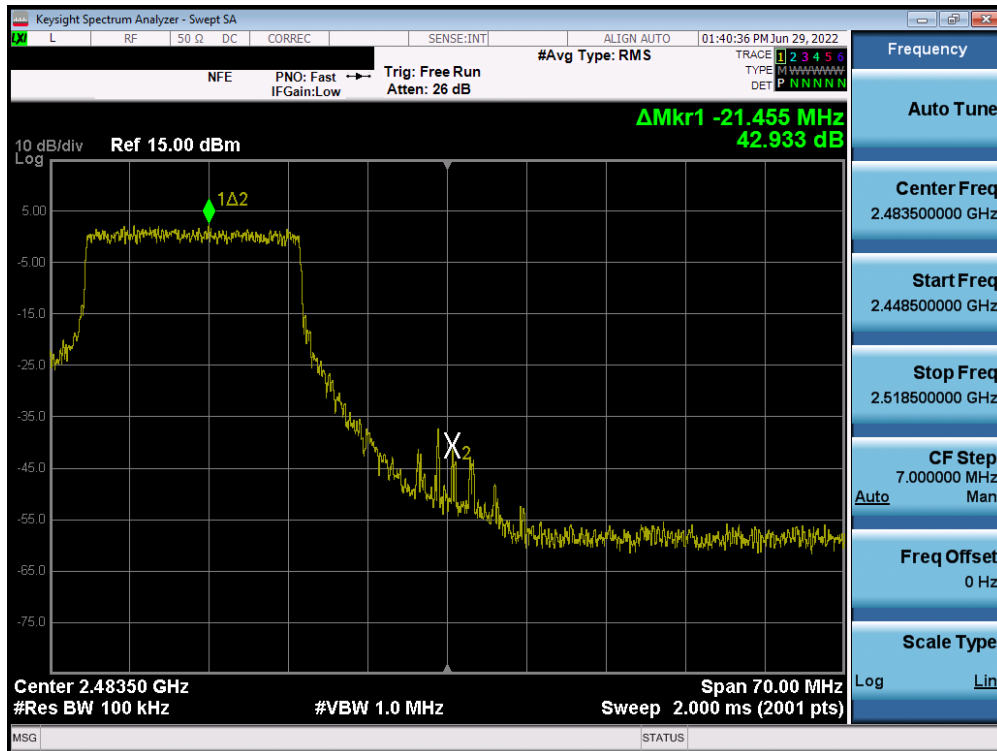


Plot 7-71. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6) – 40MHz

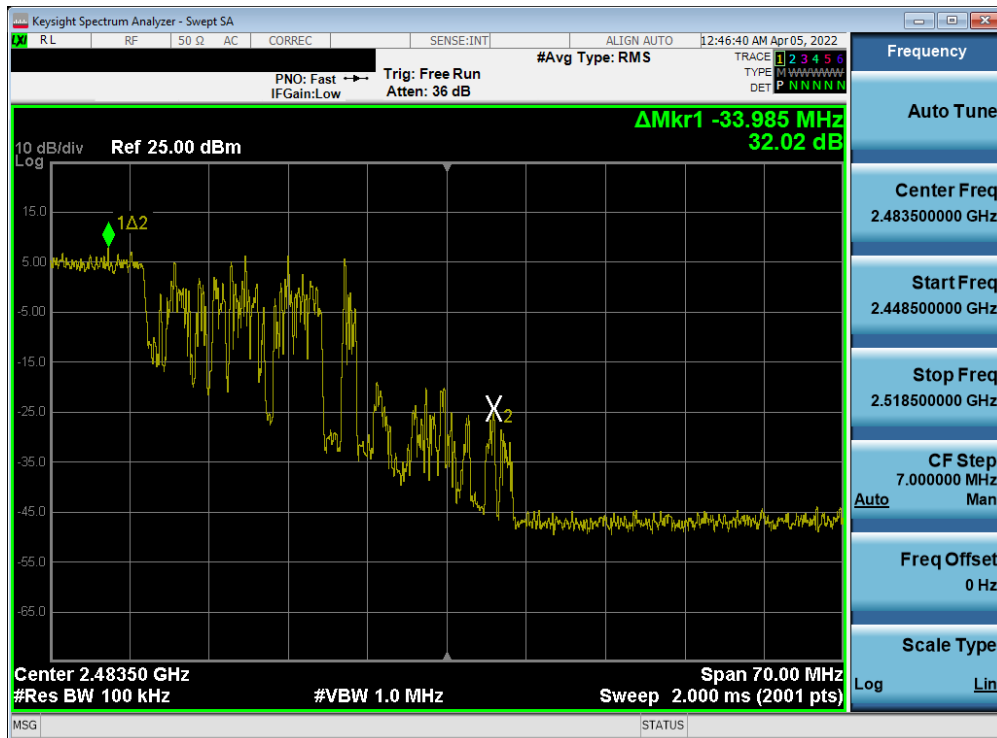


Plot 7-72. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 8) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 88 of 213

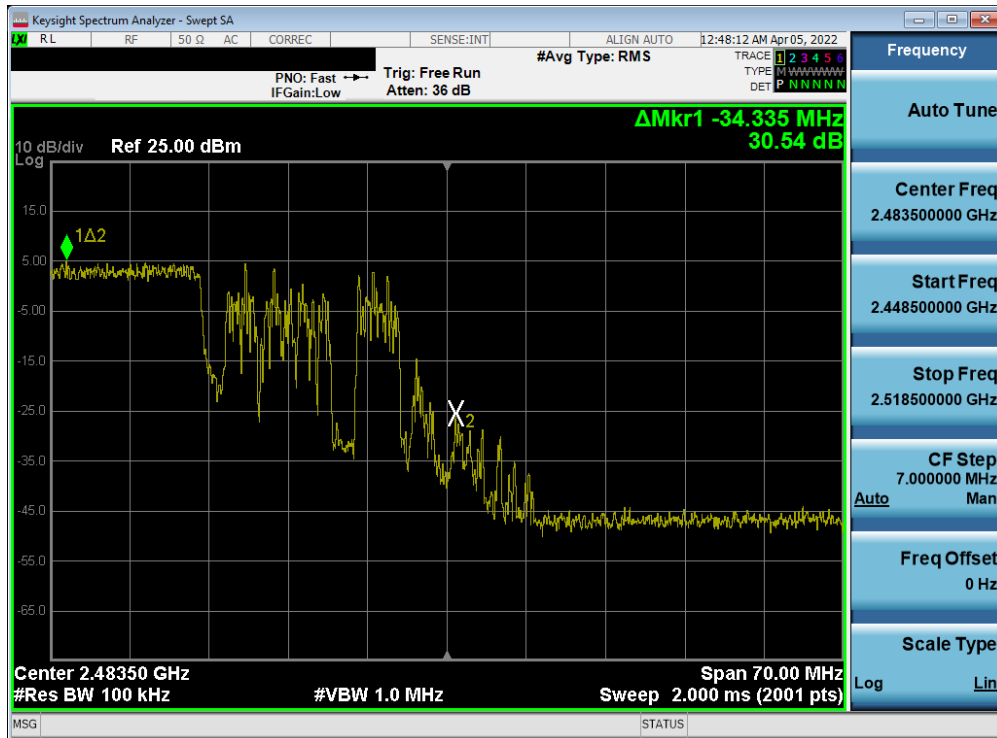


Plot 7-73. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 9) – 40MHz

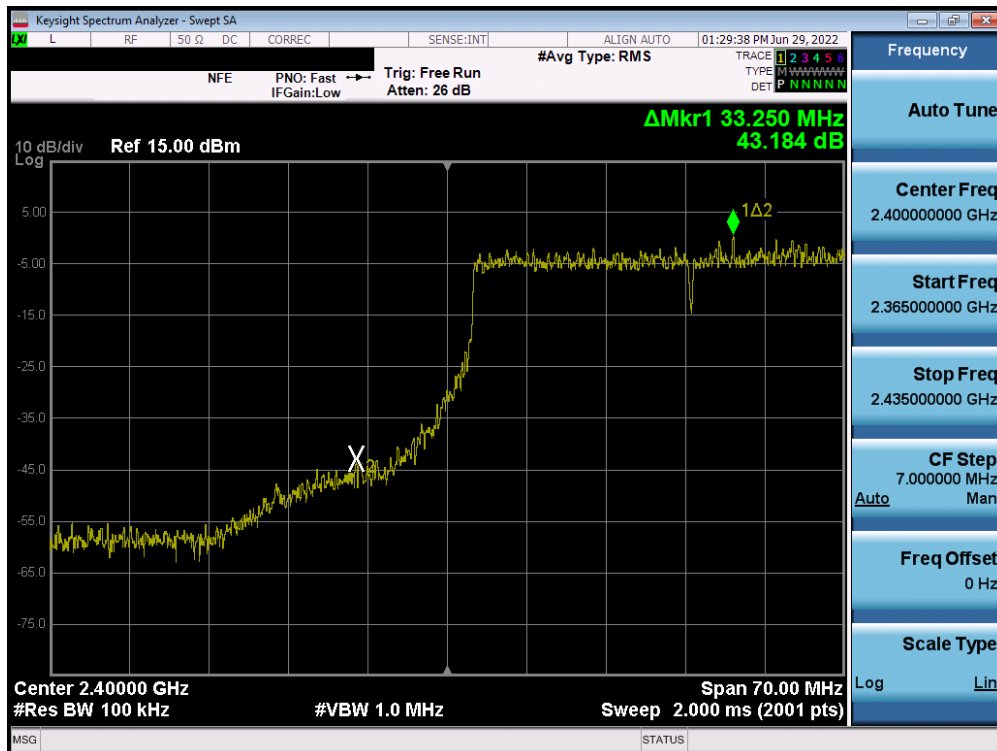


Plot 7-74. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 10) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 89 of 213

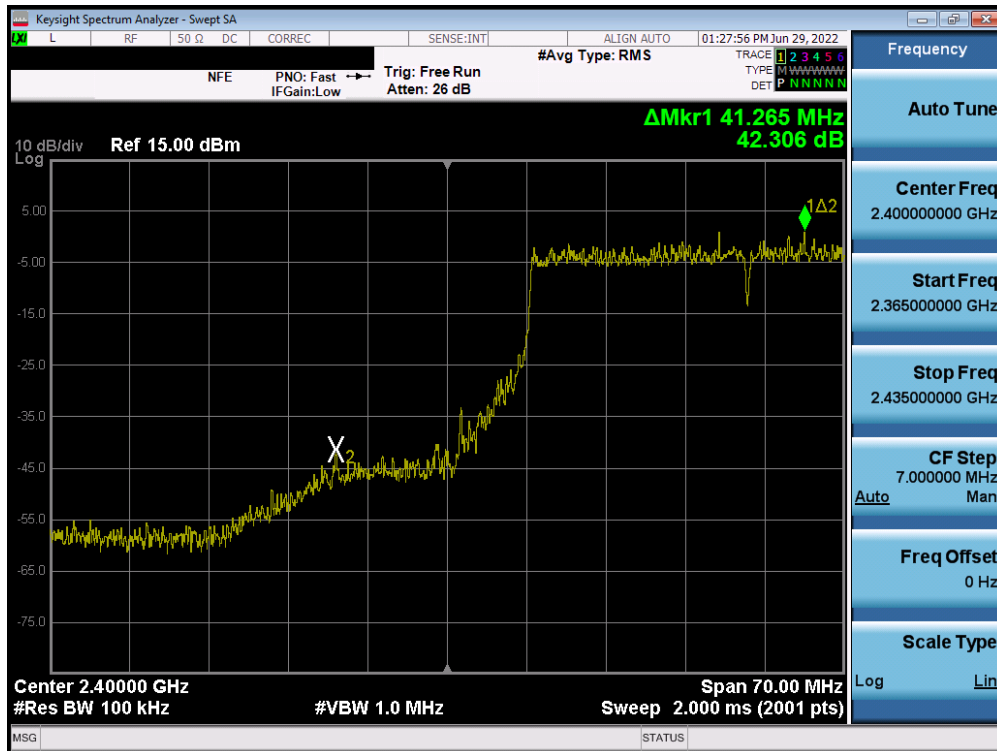


Plot 7-75. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11) – 40MHz

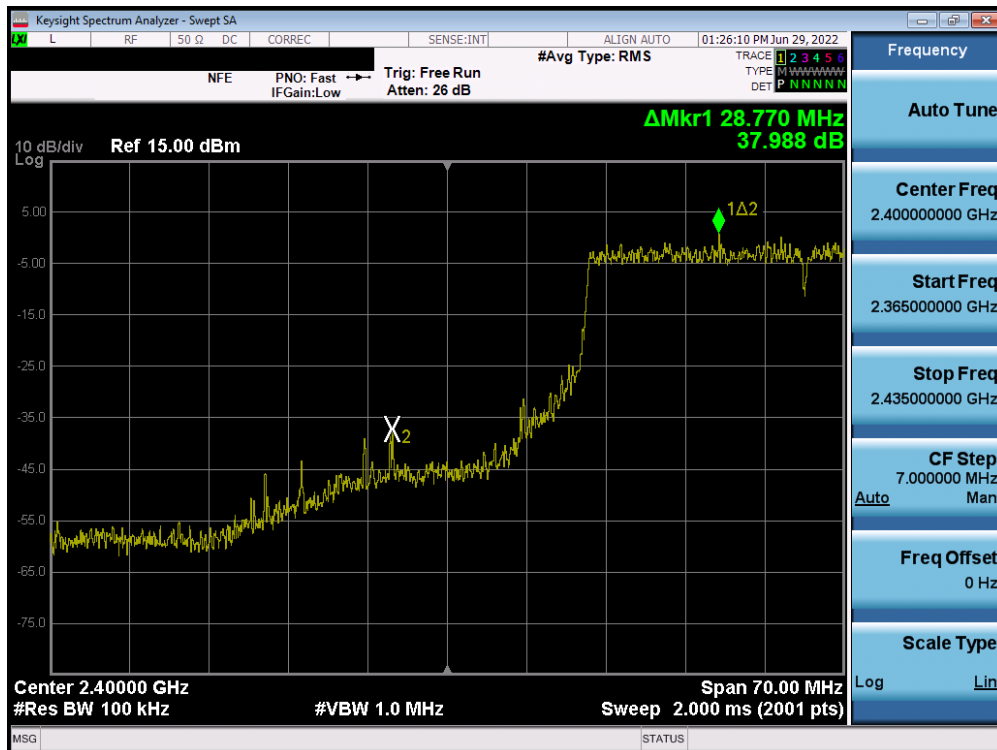


Plot 7-76. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 3) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 90 of 213

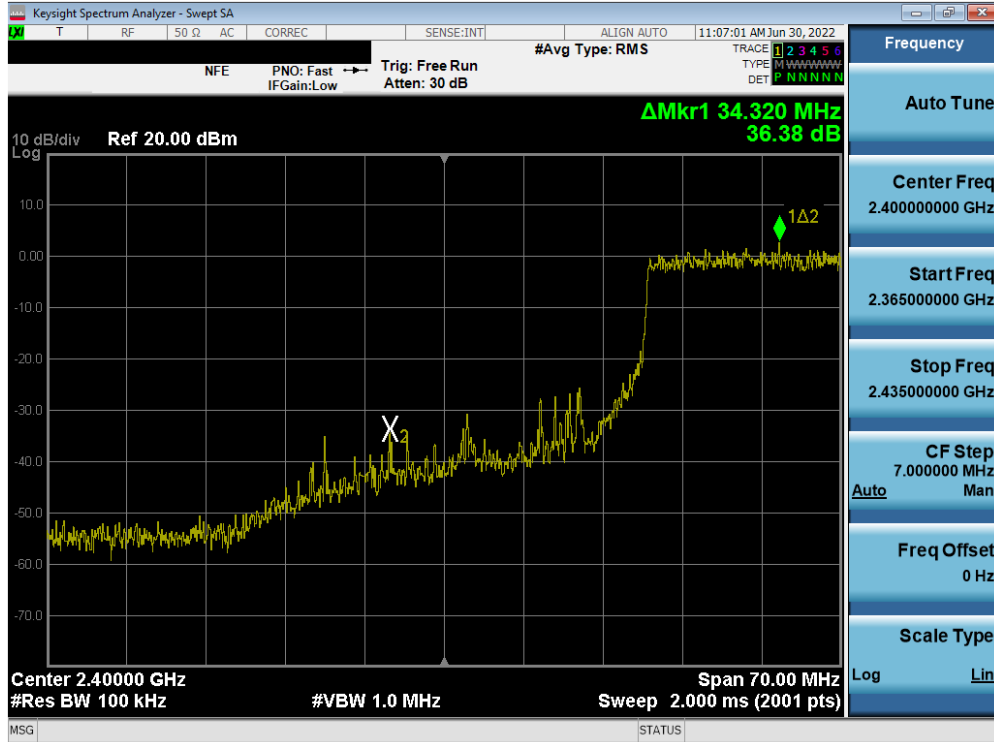


Plot 7-77. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 4) – 40MHz

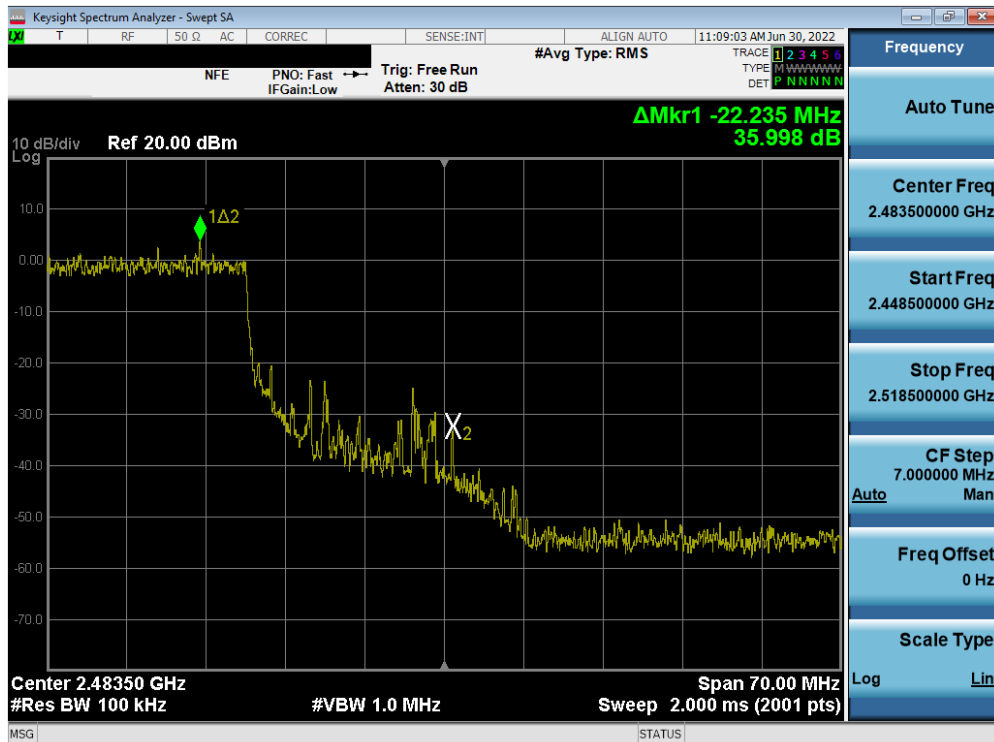


Plot 7-78. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 5) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 91 of 213

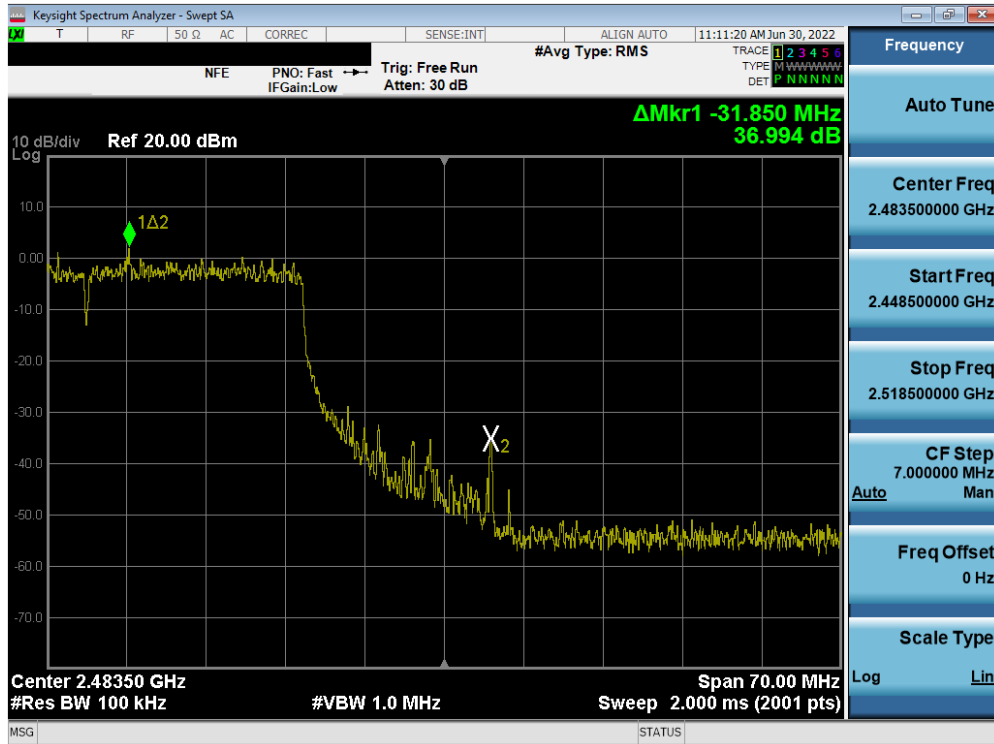


Plot 7-79. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 6) – 40MHz

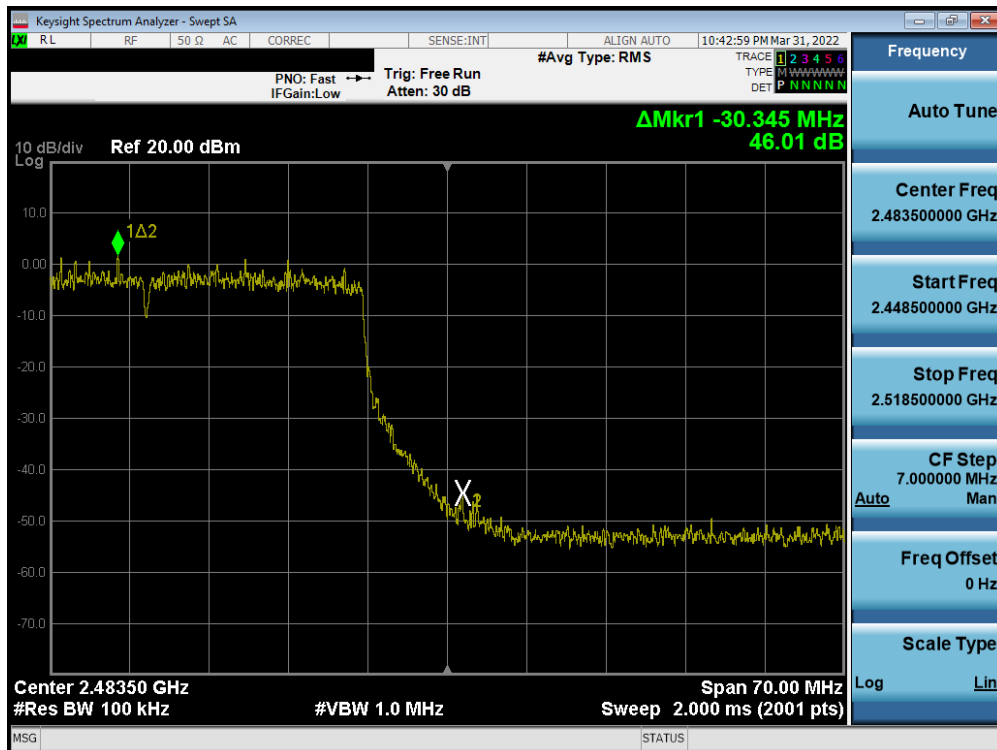


Plot 7-80. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 8) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 92 of 213

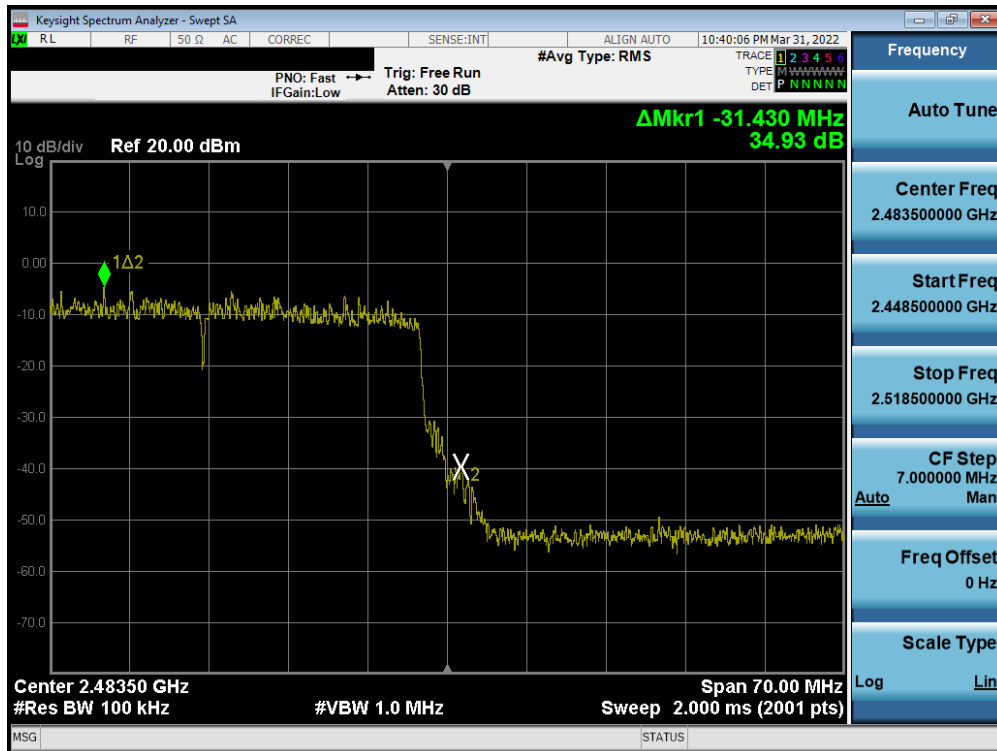


Plot 7-81. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 9) – 40MHz



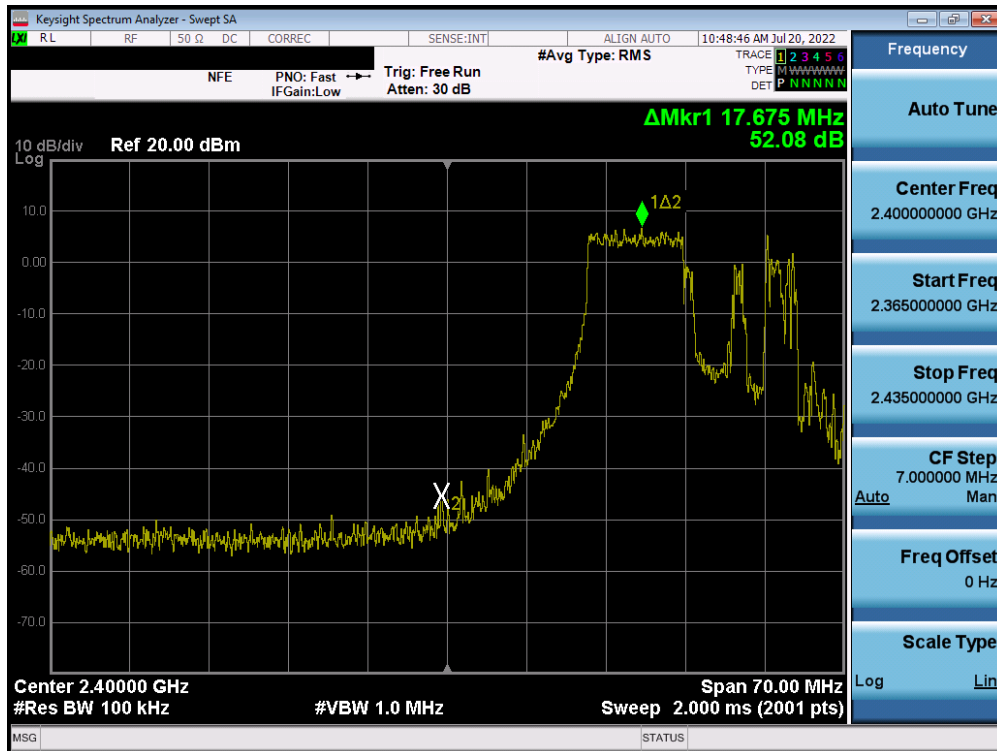
Plot 7-82. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 10) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 93 of 213

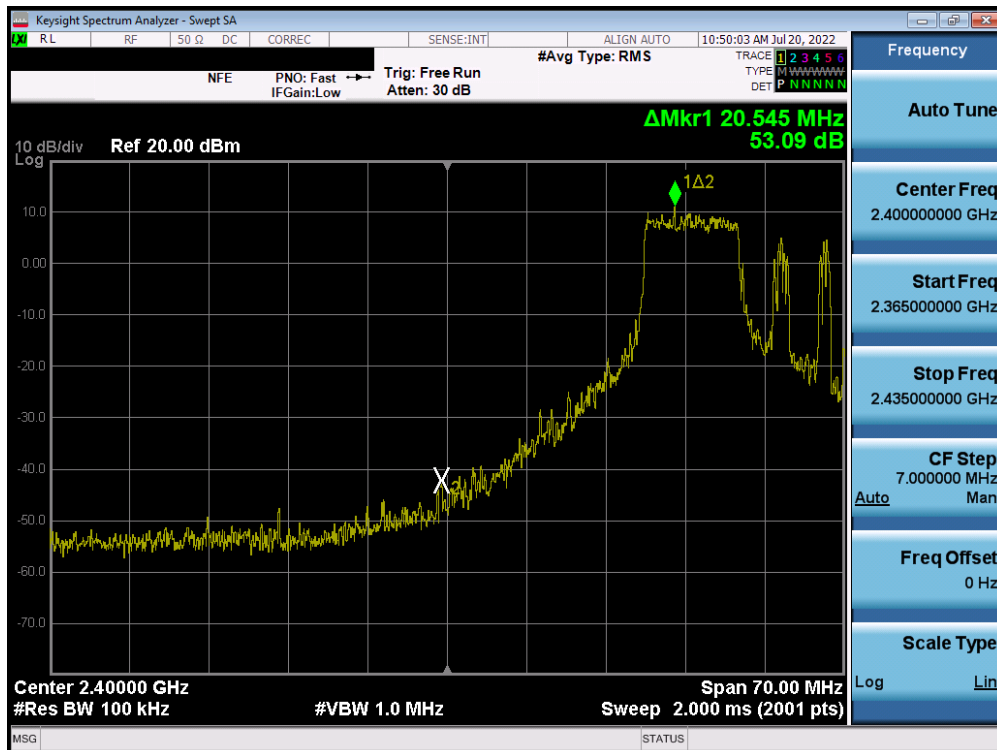


Plot 7-83. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 484 Tones – Ch. 11) – 40MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 94 of 213

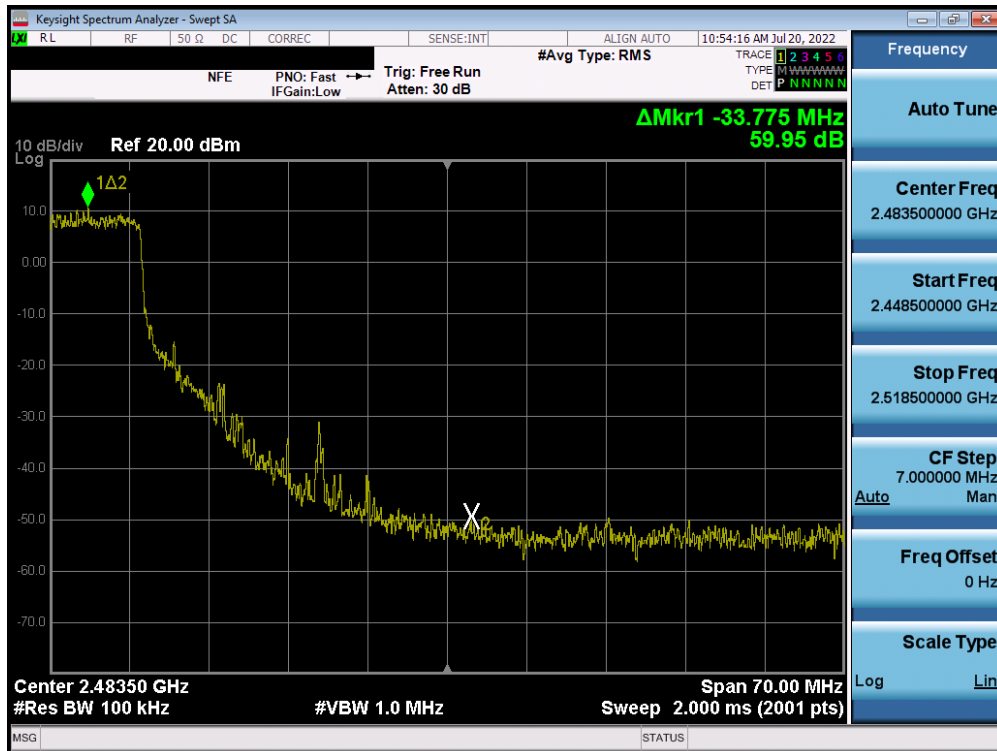


Plot 7-86. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 3) – 20MHz

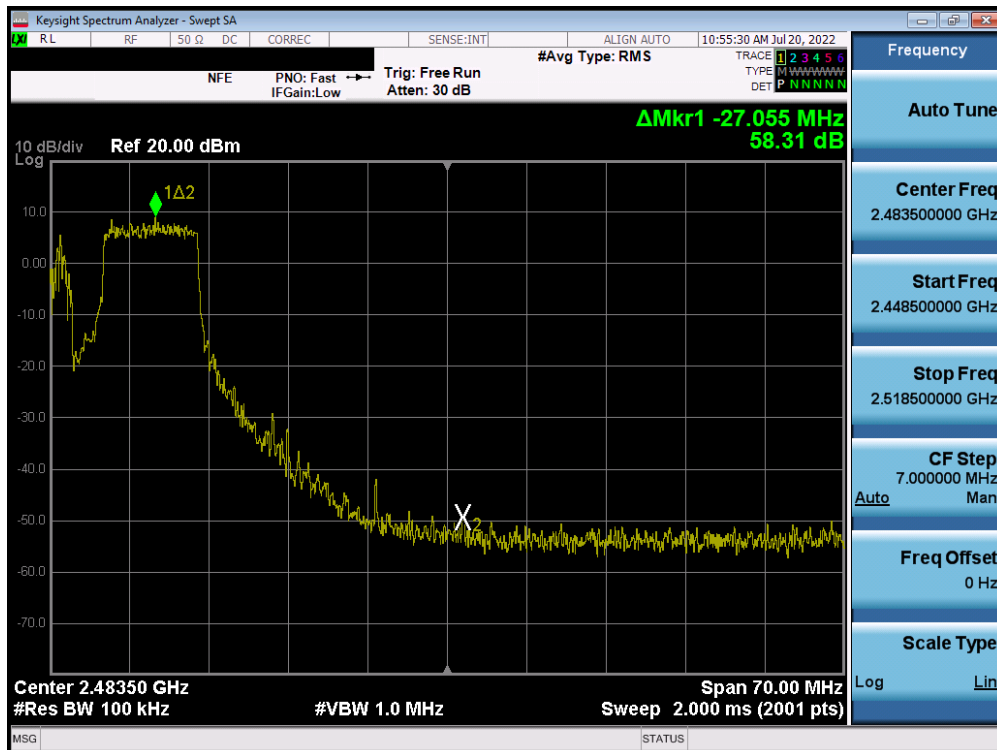


Plot 7-87. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 4) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 96 of 213



Plot 7-88. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 8) – 20MHz

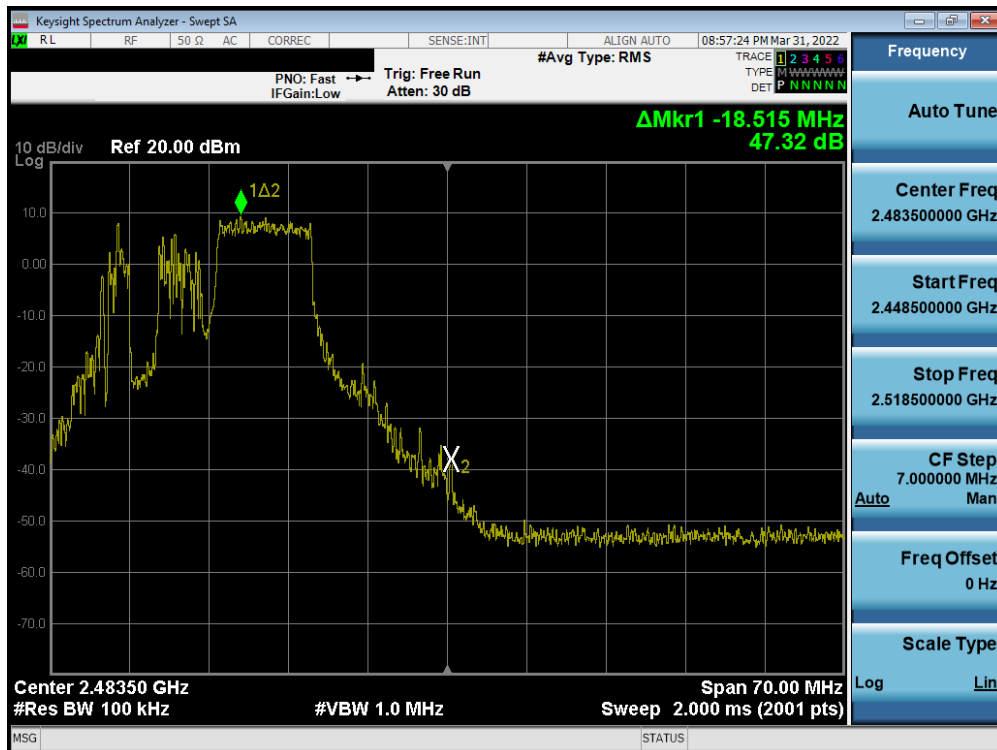


Plot 7-89. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 9) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 97 of 213



Plot 7-90. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 10) – 20MHz

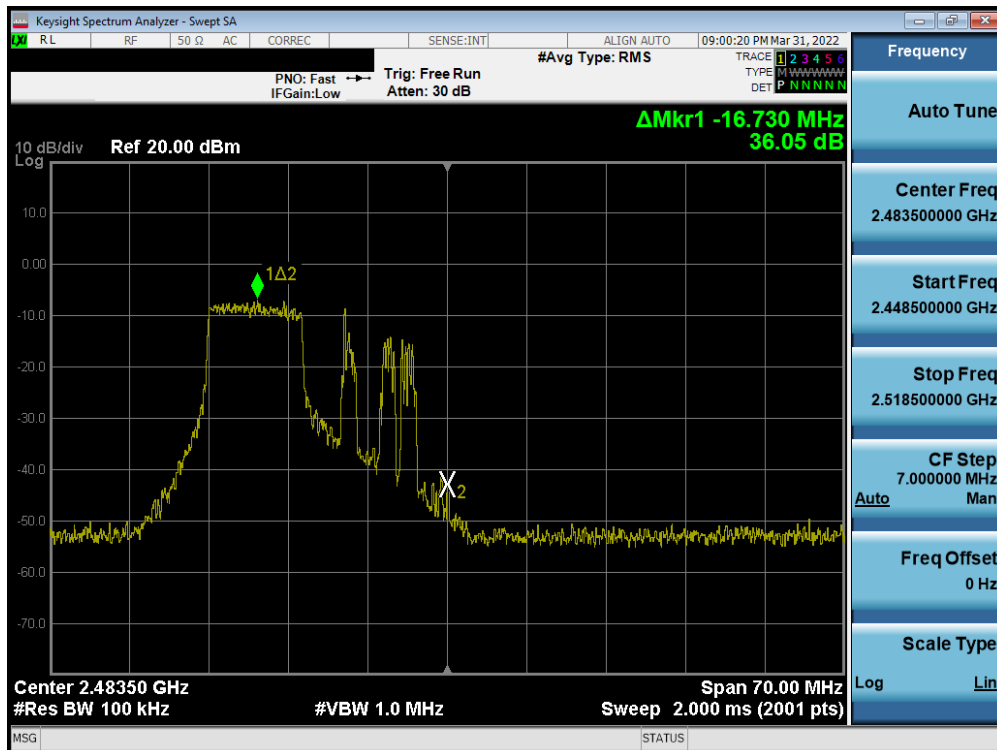


Plot 7-91. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 11) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 98 of 213

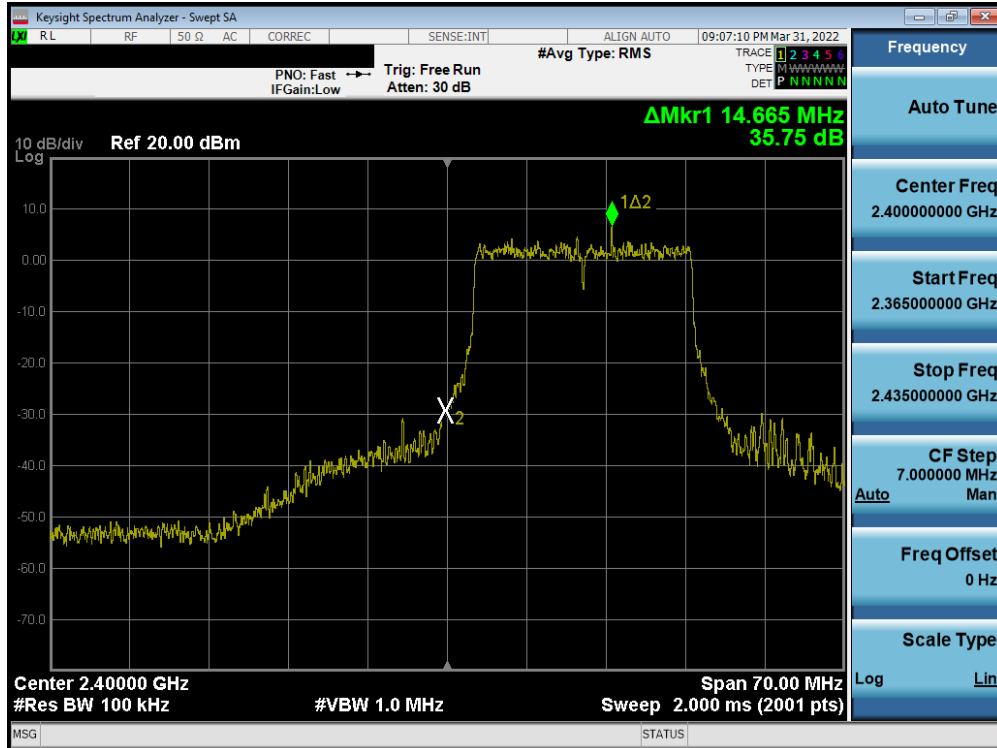


Plot 7-92. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 12) – 20MHz

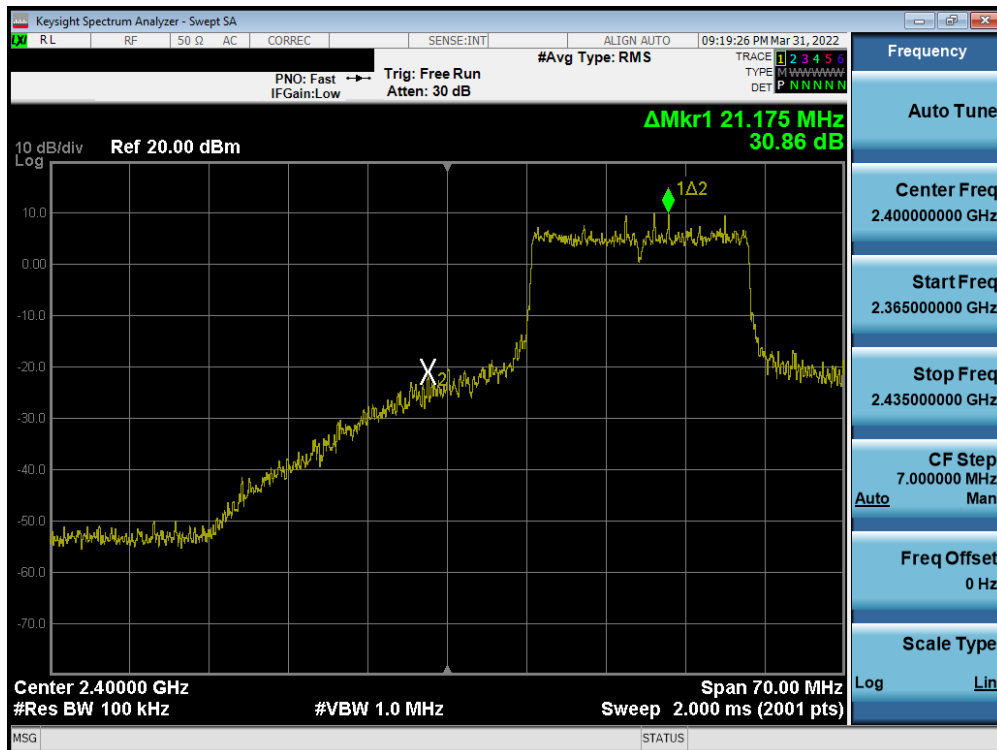


Plot 7-93. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 13) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 99 of 213

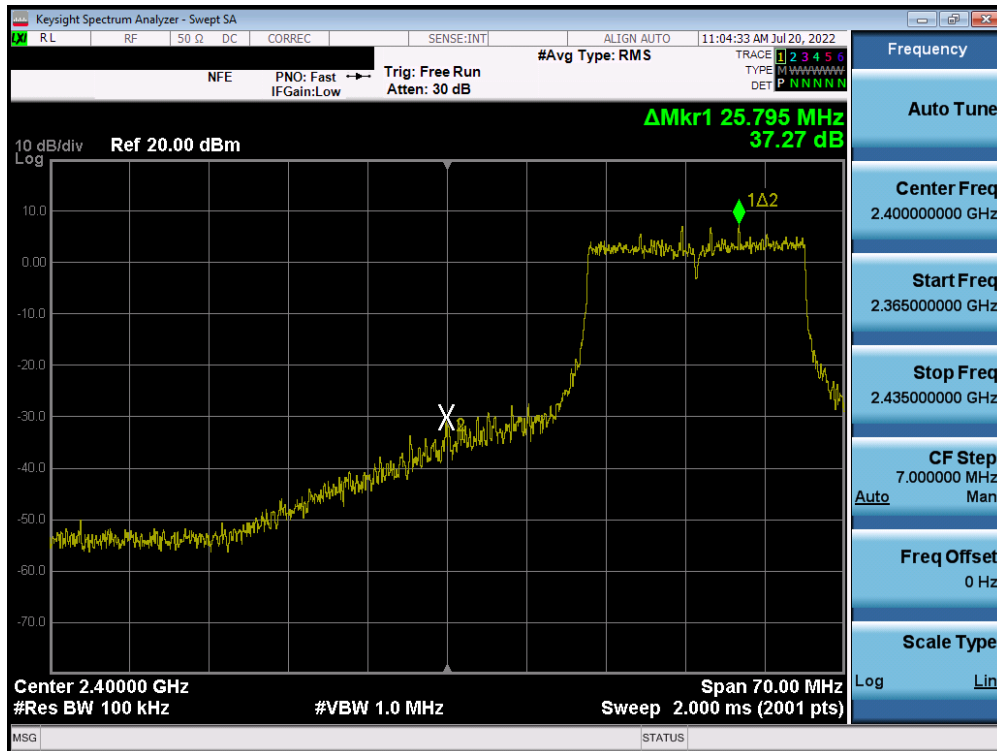


Plot 7-94. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1) – 20MHz

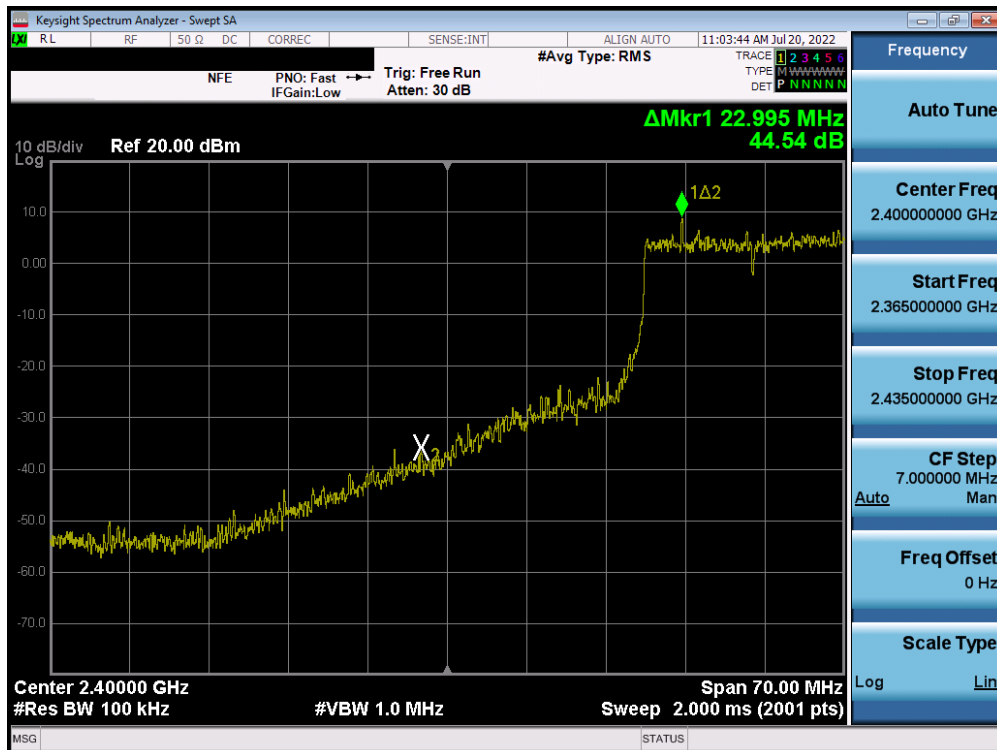


Plot 7-95. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 2) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 100 of 213



Plot 7-96. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 3) – 20MHz



Plot 7-97. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 4) – 20MHz

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-14-R1.C3K	Test Dates: 3/14/2022-7/31/2022	EUT Type: Portable Computing Device	Page 101 of 213