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MEASUREMENT REPORT
FCC PART 15.247 / ISED RSS-247 802.11b/g/n/ax/be

Applicant Name:

Microsoft Corporation
1 Microsoft Way
Redmond, WA 98052-8300
United States

Date of Testing:

4/16/2026-6/25/2026

Test Report Issue Date:

7/14/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2604150032-09-R2.C3K

FCC ID:

C3K00002101

IC:

3048A-00002101

APPLICANT:

Microsoft Corporation

FCC Application Type:

Class II Permissive Change, Module Host Integration

ISED Application Type:

Class IV Permissive Change, Module Host Integration

Host Model:

2145

HVIN:

HWB-Q94

EUT Type:

Limited Modular Approval - Host Integration Computing Device

Frequency Range:

2412 – 2472MHz

Modulation Type:

CCK, DSSS, OFDM/OFDMA

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specifications:

RSS-247 Issue 4

FCC Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023

ISED Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024

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 C63.10:2020. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2604150032-09-R2.C3K) supersedes and replaces the previously issued test report (S/N: 1M2604150032-09-R1.C3K) 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



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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	6/26/2026	WKR0000005883
1	Addressed Client's Feedback	7/7/2026	WKR0000005883
2	Addressed comments made by TCB reviewer	7/14/2026	WKR0000005883

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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

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4:2014 and KDB 414788 D01 v01r01.

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 test laboratory with the site description on file with ISED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113).
- 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).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Limited Modular Approval FCC ID: C3K00002101** and **IC: 3048A-00002101 Host Integration in Model 2145 Portable Computing Device**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

This test report provides testing results of the referenced module being integrated into the Model 2145 Portable Computing Device.

Test Device Serial No.: 0F393T926063X3, 0F394BH26063X3, 0F394DJ26063X3, 0F394D626063X3, 0F394BC26063X3, 0F393TH26063X3, 0F393TG26063X3, 0F394HT26063X3, 0F3933F26063X3

2.2 Device Capabilities

This device contains the following capabilities:

Bluetooth (1x, EDR, LE), 802.11b/g/n/ac/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz)

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

Notes:

1. 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 C63.10:2020. 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:

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802.11 Mode/Band		MIMO (1+2)	
		Duty Cycle [%]	Radiated DCCF [dB]
2.4GHz	b	98.99	N/A
	g	99.24	N/A
	n (HT20)	99.70	N/A
	ac (VHT20)	99.61	N/A
	ax (HE20)	99.67	N/A
	be (EHT20)	99.67	N/A
	n (HT40)	99.70	N/A
	ac (VHT40)	99.39	N/A
	ax (HE40)	99.56	N/A
	be (EHT40)	97.36	0.12

Table 2-2. Measured Duty Cycles – OFDM

Band	Bandwidth	Tone Type	Tone Size	MIMO (1+2)	
				Duty Cycle [%]	Radiated DCCF [dB]
2.4GHz	20MHz	RU	26T	99.45	N/A
			52T	99.22	N/A
			106T	98.19	N/A
			242T	96.55	0.15
		MRU	52+26T	96.63	0.15
			106+26T	98.47	N/A
	40MHz	RU	26T	99.47	N/A
			52T	99.65	N/A
			106T	98.78	N/A
			242T	98.17	N/A
			484T	98.73	N/A
		MRU	52+26T	99.67	N/A
			106+26T	99.21	N/A

Table 2-3. Measured Duty Cycles – OFDMA

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

WiFi Configurations		SISO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
2.4GHz	11b	✓	✓	✗	✗	✓	✓
	11g	✓	✓	✗	✗	✓	✓
	11n	✓	✓	✓	✓	✓	✓
	11ac	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓

Table 2-4. Antenna / Technology Configuration

✓= Support; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

3. The device supports the following data rates (shown in Mbps):

802.11b	802.11a/g	MCS Index			OFDM (802.11n)		OFDM (802.11ax/be)		
20MHz	20MHz				20MHz		20MHz		
		HT	HE	EHT	0.8μs GI	0.4μs GI	0.8μs GI	1.6μs GI	3.2μs GI
1	6	0	0	0	6.5	7.2	8.6	8.1	7.3
2	9	1	1	1	13	14.4	17.2	16.3	14.6
5.5	12	2	2	2	19.5	21.7	25.8	24.4	21.9
11	18	3	3	3	26	28.9	34.4	32.5	29.3
	24	4	4	4	39	43.3	51.6	48.8	43.9
	36	5	5	5	52	57.8	68.8	65	58.5
	48	6	6	6	58.5	65	77.4	73.1	65.8
	54	7	7	7	65	72.2	86	81.3	73.1
			8	8			103.2	97.5	87.8
			9	9			114.7	108.3	97.5
			10	10			129	121.9	109.7
			11	11			143.4	135.4	121.9
				12			154.9	146.3	131.6
				13			172.1	162.5	146.3
1	6	8	0	0	13	14.4	17.2	16.3	14.6
2	9	9	1	1	26	28.9	34.4	32.5	29.3
5.5	12	10	2	2	39	43.3	51.6	48.8	43.9
11	18	11	3	3	52	57.8	68.8	65	58.5
	24	12	4	4	78	86.7	103.2	97.5	87.8
	36	13	5	5	104	115.6	137.6	130	117
	48	14	6	6	117	130	154.9	146.3	131.6
	54	15	7	7	130	144.4	172.1	162.5	146.3
			8	8	156	173.3	206.5	195	175.5
			9	9	N/A	N/A	229.4	216.7	195
			10	10			258.1	243.8	219.4
			11	11			286.8	270.8	243.8
				12			309.7	292.5	263.3
				13			344.1	325	292.5

Table 2-5. Supported Data Rates - OFDM

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MCS Index	HE	EHT	Spatial Stream	OFDMA (802.11ax/be)												OFDMA (802.11be)					
				26T			52T			106T			242T			52+26T			106+26T		
				0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI
0	0	1	1	0.9	0.8	0.8	1.8	1.7	1.5	3.8	3.5	3.2	8.6	8.1	7.3	17.2	16.3	14.6	2.6	2.5	2.3
1	1	1	1	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	5.3	5	4.5
2	2	1	1	2.6	2.5	2.3	5.3	5	4.5	11.3	10.6	9.6	25.8	24.4	21.9	51.6	48.8	43.9	7.9	7.5	6.8
3	3	1	1	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	10.6	10	9
4	4	1	1	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	15.9	15	13.5
5	5	1	1	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	21.2	20	18
6	6	1	1	7.9	7.5	6.8	15.9	15	13.5	33.8	31.9	28.7	77.4	73.1	65.8	154.9	146.3	131.6	23.8	22.5	20.3
7	7	1	1	8.8	8.3	7.5	17.6	16.7	15	37.5	35.4	31.9	86	81.3	73.1	172.1	162.5	146.3	26.5	25	22.5
8	8	1	1	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	31.8	30	27
9	9	1	1	11.8	11.1	10	23.5	22.2	20	50	47.2	42.5	114.7	108.3	97.5	229.4	216.7	195	35.3	33.3	30
10	10	1	1	13.2	12.5	11.3	26.5	25	22.5	56.3	53.1	47.8	129	121.9	109.7	258.1	243.8	219.4	39.7	37.5	33.8
11	11	1	1	14.7	13.9	12.5	29.4	27.8	25	62.5	59	53.1	143.4	135.4	121.9	286.8	270.8	243.8	44.1	41.7	37.5
12	1	1	1	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	47.6	45	40.5
13	1	1	1	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	52.9	50	45
0	0	2	2	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	5.3	5	4.5
1	1	2	2	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	10.6	10	9
2	2	2	2	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	15.9	15	13.5
3	3	2	2	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	21.2	20	18
4	4	2	2	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	31.8	30	27
5	5	2	2	14.1	13.3	12	28.2	26.7	24	60	56.7	51	137.6	130	117	275.3	260	234	42.4	40	36
6	6	2	2	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	47.6	45	40.5
7	7	2	2	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	52.9	50	45
8	8	2	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	63.5	60	54
9	9	2	2	23.5	22.2	20	47.1	44.4	40	100	94.4	85	229.4	216.7	195	458.8	433.3	390	70.6	66.7	60
10	10	2	2	26.5	25	22.5	52.9	50	45	112.5	106.3	95.6	258.1	243.8	219.4	516.2	487.5	438.8	79.4	75	67.5
11	11	2	2	29.4	27.8	25	58.8	55.6	50	125	118.1	106.3	286.8	270.8	243.8	573.5	541.7	487.5	88.2	83.3	75
12	2	2	2	31.8	30	27	63.5	60	54	135	127.5	114.8	309.7	292.5	263.3	619.4	585	526.5	95.3	90	81
13	2	2	2	35.3	33.3	30	70.6	66.7	60	150	141.7	127.5	344.1	325	292.5	688.2	650	585	105.9	100	90

Table 2-6. Supported Data Rates - OFDMA

2.3 Test Configuration

ANSI C63.10:2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups.

2.4 Antenna Description

The manufacturer provided the following antenna gains which can affect the validity of test results used for determination of compliance. The following antenna gains are used in this device per the Antenna Report document provided by the client. This document is also included in the filing as a public exhibit.

Frequency [GHz]	Chan 0 Antenna Gain (dBi)	Chan 1 Antenna Gain (dBi)	Correlated MIMO Antenna Gain (measured) (dBi)	Uncorrelated MIMO Antenna Gain (measured) (dBi)
2.4	3.38	4.12	5.67	2.75

Table 2-7. Antenna Peak Gain

The directional antenna gains were measured per the guidance of KDB 662911 D03. The measurement report is uploaded as part of this filing. Correlated directional gain is used for MIMO measurements where applicable.

2.5 Software and Firmware

The test was conducted with software/firmware version 692.5605.21.34463 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.

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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 C63.10:2020) was used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF Enclosures. The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are ETS Lindgren Model LRW-2030-S1 (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

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 RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.4. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

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3.3 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 414788 D01 v01r01.

3.4 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).

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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.

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10:2020. 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

Table 5-1. Measurement Uncertainty

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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
-	MD 1M 40	EMC Cable and Switch System	2/3/2026	Annual	2/3/2027	MD 1M 40
-	AP2-001	EMC Cable and Switch System	1/30/2026	Annual	1/30/2027	AP2-001
-	AP2-002	EMC Cable and Switch System	1/30/2026	Annual	1/30/2027	AP2-002
-	ETS-001	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-001
-	ETS-002	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-002
-	WL25-1	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-2
Agilent	N4010A	Wireless Connectivity Test Set	#N/A			GB44450273
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
EMCO	3116	Horn Antenna (18-40GHz)	1/26/2026	Biennial	1/26/2028	9203-2178
Keysight Technologies	N9030A	PXA Signal Analyzer	11/3/2025	Annual	11/3/2026	MY54490576
Pasternack	NMLC-2	Line Conducted Emissions Cable (NM)	1/30/2026	Annual	1/30/2027	NMLC-2
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	1/16/2026	Annual	1/16/2027	100348
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/11/2026	Annual	3/11/2027	101716
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Rohde & Schwarz	ENV216	Two-Line V-Network	2/4/2026	Biennial	2/4/2028	101379
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107

Table 6-1. Test Equipment Calibration Table

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.

Equipment listed with "N/A" under calibration information was not used to make calibrated measurements.

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable TM40-K1K1-30	20233002 004
Uniflex Micro Coax UFB 142A-Q-0984-200200	64639 232063 001
R&S TS-PR1840	9037.7670.02

Table 6-2. MD 1M 18-40 EMC Cable and Switch System Components

Component	Serial Number
Flex Cable	P2A-0001
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Chamber Passthrough	CP4/X12
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Micro-Coax Utilflex Cable UFB142A-0-0629-5GU200 MFR 6463	232069-001
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181

Table 6-3. AP2-001 EMC Cable and Switch System Components

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Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-002
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	19046401 001
Megaphase (CAGE 1GVT4) Flex Cable 10511-1	15044701-006
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-002
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-004
Micro-Coax Utilflex Cable UFB142A-0-0629-5GU200 MFR 64639	232069-001
Rohde & Schwarz SF Unit	102138
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335

Table 6-4. AP2-002 EMC Cable and Switch System Components

Component	Serial Number
Pasternack Cable RG214/U	111815
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001

Table 6-5. ETS-001 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20502201 001
Rohde & Schwarz SF Unit	102134
Minicircuits Cable CBL=0.5M-NMNM+	15440

Table 6-6. ETS-002 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase Cable, Model: TM26-S1S1-30	20929201 004
Pasternack 6dB Attenuator, Model: PE7005-6	N/A

Table 6-7. WL25-1 Conducted Cable Set Components

Component	Serial Number
Mini-Circuits Cable, Model: CBL-2FT-SMSM+	77743
MCL 6dB Attenuator, Model: BW-S6W2+	1314

Table 6-8. WL25-2 Conducted Cable Set Components

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7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation
 FCC ID: C3K00002101
 IC: 3048A-00002101
 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 [6.3.1(a)]	6dB Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.	CONDUCTED	PASS	See Original Filing for Module
15.247(b)(3)	RSS-247 [6.3.2]	Transmitter Output Power	shall not exceed 1 W		PASS	Section 7.2
N/A	RSS-247 [6.3.2]	e.i.r.p.	shall not exceed 4 W		PASS	Section 7.2
15.247(e)	RSS-247 [6.3.1(b)]	Transmitter Power Spectral Density	shall not be greater than 8 dBm in any 3 kHz band		PASS	See Original Filing for Module
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	See Original Filing for Module
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 7.3
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	LINE CONDUCTED	PASS	Section 7.4

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 Element “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 Element “Chamber Automation,” Version 1.7.1.

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7.2 Output Power Measurement

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 per 15.247. The e.i.r.p. shall not exceed 4 W per RSS-247.

Test Procedure Used

ANSI C63.10:2020 – Section 11.9.1.2 PKPM1 Peak Power Method
ANSI C63.10:2020 – Section 11.9.2.3.2 Method AVGPM-G
ANSI C63.10:2020 – Section 14.5.2.3 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 7-1. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

None.

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2.4GHz WIFI (20MHz 802.11b MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	18.32	18.30	21.32	30.00	-8.68	5.67	26.99	36.02	-9.03
2437	6		18.38	18.07	21.24	30.00	-8.76	5.67	26.91	36.02	-9.11
2462	11		18.24	18.18	21.22	30.00	-8.78	5.67	26.89	36.02	-9.13
2467	12		15.43	15.56	18.51	30.00	-11.49	5.67	24.18	36.02	-11.84
2472	13		7.96	8.09	11.04	30.00	-18.96	5.67	16.71	36.02	-19.31
2412	1	Peak	21.09	21.10	24.11	30.00	-5.89	5.67	29.78	36.02	-6.24
2437	6		21.25	21.00	24.14	30.00	-5.86	5.67	29.81	36.02	-6.21
2462	11		21.16	21.05	24.12	30.00	-5.88	5.67	29.79	36.02	-6.23
2467	12		18.37	18.46	21.43	30.00	-8.57	5.67	27.10	36.02	-8.92
2472	13		10.88	11.01	13.96	30.00	-16.04	5.67	19.63	36.02	-16.39

Table 7-2. Conducted Output Power Measurements MIMO (802.11b)

2.4GHz WIFI (20MHz 802.11g MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.42	15.17	18.31	30.00	-11.69	5.67	23.98	36.02	-12.04
2417	2		17.35	17.53	20.45	30.00	-9.55	5.67	26.12	36.02	-9.90
2422	3		18.74	18.27	21.52	30.00	-8.48	5.67	27.19	36.02	-8.83
2427	4		20.19	19.56	22.90	30.00	-7.10	5.67	28.57	36.02	-7.45
2437	6		20.17	19.60	22.90	30.00	-7.10	5.67	28.57	36.02	-7.45
2457	10		19.47	19.97	22.74	30.00	-7.26	5.67	28.41	36.02	-7.61
2462	11		14.71	14.47	17.60	30.00	-12.40	5.67	23.27	36.02	-12.75
2467	12		12.09	11.88	15.00	30.00	-15.00	5.67	20.67	36.02	-15.35
2472	13		-7.95	-7.93	-4.93	30.00	-34.93	5.67	0.74	36.02	-35.28
2412	1		Peak	21.56	21.53	24.56	30.00	-5.44	5.67	30.23	36.02
2417	2	23.81		23.85	26.84	30.00	-3.16	5.67	32.51	36.02	-3.51
2422	3	24.66		24.49	27.59	30.00	-2.41	5.67	33.26	36.02	-2.76
2427	4	26.29		25.95	29.13	30.00	-0.87	5.67	34.80	36.02	-1.22
2437	6	26.33		25.91	29.14	30.00	-0.86	5.67	34.81	36.02	-1.21
2457	10	26.02		25.87	28.96	30.00	-1.04	5.67	34.63	36.02	-1.39
2462	11	20.82		20.74	23.79	30.00	-6.21	5.67	29.46	36.02	-6.56
2467	12	18.07		18.35	21.22	30.00	-8.78	5.67	26.89	36.02	-9.13
2472	13	-1.54		-1.33	1.58	30.00	-28.42	5.67	7.25	36.02	-28.77

Table 7-3. Conducted Output Power Measurements MIMO (802.11g)

2.4GHz WIFI (20MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.37	15.23	18.31	30.00	-11.69	5.67	23.98	36.02	-12.04
2417	2		18.24	17.75	21.01	30.00	-8.99	5.67	26.68	36.02	-9.34
2437	6		19.17	18.52	21.87	30.00	-8.13	5.67	27.54	36.02	-8.48
2457	10		18.90	18.47	21.70	30.00	-8.30	5.67	27.37	36.02	-8.65
2462	11		13.72	13.44	16.59	30.00	-13.41	5.67	22.26	36.02	-13.76
2467	12		11.72	11.41	14.58	30.00	-15.42	5.67	20.25	36.02	-15.77
2472	13		-9.29	-9.37	-6.32	30.00	-36.32	5.67	-0.65	36.02	-36.67
2412	1	Peak	21.85	21.63	24.75	30.00	-5.25	5.67	30.42	36.02	-5.60
2417	2		24.51	24.02	27.28	30.00	-2.72	5.67	32.95	36.02	-3.07
2437	6		25.35	24.94	28.16	30.00	-1.84	5.67	33.83	36.02	-2.19
2457	10		25.21	24.71	27.98	30.00	-2.02	5.67	33.65	36.02	-2.37
2462	11		19.97	20.01	23.00	30.00	-7.00	5.67	28.67	36.02	-7.35
2467	12		18.11	17.85	20.99	30.00	-9.01	5.67	26.66	36.02	-9.36
2472	13		-2.91	-3.01	0.05	30.00	-29.95	5.67	5.72	36.02	-30.30

Table 7-4. Conducted Output Power Measurements MIMO (802.11n – 20MHz BW)

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2.4GHz WIFI (20MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.37	15.23	18.31	30.00	-11.69	5.67	23.98	36.02	-12.04
2417	2		18.25	17.78	21.03	30.00	-8.97	5.67	26.70	36.02	-9.32
2437	6		19.17	18.51	21.86	30.00	-8.14	5.67	27.53	36.02	-8.49
2457	10		18.47	18.88	21.69	30.00	-8.31	5.67	27.36	36.02	-8.66
2462	11		13.70	13.43	16.58	30.00	-13.42	5.67	22.25	36.02	-13.77
2467	12		11.72	11.42	14.58	30.00	-15.42	5.67	20.25	36.02	-15.77
2472	13		-9.36	-9.37	-6.35	30.00	-36.35	5.67	-0.68	36.02	36.02
2412	1	Peak	21.62	21.52	24.58	30.00	-5.42	5.67	30.25	36.02	-5.77
2417	2		24.46	24.05	27.27	30.00	-2.73	5.67	32.94	36.02	-3.08
2437	6		25.15	24.86	28.02	30.00	-1.98	5.67	33.69	36.02	-2.33
2457	10		25.07	24.70	27.90	30.00	-2.10	5.67	33.57	36.02	-2.45
2462	11		19.83	19.64	22.75	30.00	-7.25	5.67	28.42	36.02	-7.60
2467	12		17.95	17.63	20.80	30.00	-9.20	5.67	26.47	36.02	-9.55
2472	13		-2.96	-3.01	0.03	30.00	-29.97	5.67	5.70	36.02	36.02

Table 7-5. Conducted Output Power Measurements MIMO (802.11ac – 20MHz BW)

2.4GHz WIFI (20MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.51	15.34	18.44	30.00	-11.56	5.67	24.11	36.02	-11.91
2417	2		18.32	17.86	21.11	30.00	-8.89	5.67	26.78	36.02	-9.24
2437	6		19.28	18.62	21.97	30.00	-8.03	5.67	27.64	36.02	-8.38
2457	10		18.98	18.57	21.79	30.00	-8.21	5.67	27.46	36.02	-8.56
2462	11		13.79	13.54	16.68	30.00	-13.32	5.67	22.35	36.02	-13.67
2467	12		11.81	11.52	14.68	30.00	-15.32	5.67	20.35	36.02	-15.67
2472	13		-9.72	-9.77	-6.73	30.00	-36.73	5.67	-1.06	36.02	-37.08
2412	1	Peak	22.10	22.04	25.08	30.00	-4.92	5.67	30.75	36.02	-5.27
2417	2		25.11	24.52	27.84	30.00	-2.16	5.67	33.51	36.02	-2.51
2437	6		25.97	25.37	28.69	30.00	-1.31	5.67	34.36	36.02	-1.66
2457	10		25.43	25.09	28.27	30.00	-1.73	5.67	33.94	36.02	-2.08
2462	11		20.22	20.05	23.15	30.00	-6.85	5.67	28.82	36.02	-7.20
2467	12		18.34	18.16	21.26	30.00	-8.74	5.67	26.93	36.02	-9.09
2472	13		-2.95	-3.05	0.01	30.00	-29.99	5.67	5.68	36.02	-30.34

Table 7-6. Conducted Output Power Measurements MIMO (802.11ax – 20MHz BW)

2.4GHz WIFI (20MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.50	15.34	18.43	30.00	-11.57	5.67	24.10	36.02	-11.92
2417	2		18.34	17.85	21.11	30.00	-8.89	5.67	26.78	36.02	-9.24
2437	6		19.27	18.62	21.97	30.00	-8.03	5.67	27.64	36.02	-8.38
2457	10		18.98	18.55	21.78	30.00	-8.22	5.67	27.45	36.02	-8.57
2462	11		13.80	13.54	16.68	30.00	-13.32	5.67	22.35	36.02	-13.67
2467	12		11.82	11.52	14.68	30.00	-15.32	5.67	20.35	36.02	-15.67
2472	13	Peak	-9.73	-9.80	-6.75	30.00	-36.75	5.67	-1.08	36.02	-37.10
2412	1		22.22	21.96	25.10	30.00	-4.90	5.67	30.77	36.02	-5.25
2417	2		25.07	24.52	27.81	30.00	-2.19	5.67	33.48	36.02	-2.54
2437	6		26.06	25.37	28.74	30.00	-1.26	5.67	34.41	36.02	-1.61
2457	10		25.64	25.19	28.43	30.00	-1.57	5.67	34.10	36.02	-1.92
2462	11		20.42	20.08	23.26	30.00	-6.74	5.67	28.93	36.02	-7.09
2467	12		18.32	18.15	21.25	30.00	-8.75	5.67	26.92	36.02	-9.10
2472	13		-2.99	-3.02	0.01	30.00	-29.99	5.67	5.68	36.02	-30.34

Table 7-7. Conducted Output Power Measurements MIMO (802.11be – 20MHz BW)

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-09-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo		Page 18 of 43

2.4GHz WIFI (40MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
2422	3	Average	13.48	13.30	16.40	30.00	-13.60	5.67	22.07	36.02	-13.95
2427	4		15.40	15.05	18.24	30.00	-11.76	5.67	23.91	36.02	-12.11
2432	5		15.43	15.10	18.28	30.00	-11.72	5.67	23.95	36.02	-12.07
2437	6		18.11	17.88	21.01	30.00	-8.99	5.67	26.68	36.02	-9.34
2442	7		17.05	16.84	19.96	30.00	-10.04	5.67	25.63	36.02	-10.39
2447	8		16.99	16.76	19.89	30.00	-10.11	5.67	25.56	36.02	-10.46
2452	9		13.16	13.12	16.15	30.00	-13.85	5.67	21.82	36.02	-14.20
2457	10		8.79	8.52	11.67	30.00	-18.33	5.67	17.34	36.02	-18.68
2462	11		-9.12	-9.22	-6.16	30.00	-36.16	5.67	-0.49	36.02	-36.51
2422	3	Peak	19.85	19.80	22.84	30.00	-7.16	5.67	28.51	36.02	-7.51
2427	4		21.75	21.55	24.66	30.00	-5.34	5.67	30.33	36.02	-5.69
2432	5		21.90	21.76	24.84	30.00	-5.16	5.67	30.51	36.02	-5.51
2437	6		24.77	24.54	27.67	30.00	-2.33	5.67	33.34	36.02	-2.68
2442	7		23.68	23.60	26.65	30.00	-3.35	5.67	32.32	36.02	-3.70
2447	8		23.60	23.41	26.52	30.00	-3.48	5.67	32.19	36.02	-3.83
2452	9		19.67	19.65	22.67	30.00	-7.33	5.67	28.34	36.02	-7.68
2457	10		15.33	15.18	18.27	30.00	-11.73	5.67	23.94	36.02	-12.08
2462	11		-2.23	-2.45	0.67	30.00	-29.33	5.67	6.34	36.02	-29.68

Table 7-8. Conducted Output Power Measurements MIMO (802.11n – 40MHz BW)

2.4GHz WIFI (40MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
2422	3	Average	13.44	13.28	16.37	30.00	-13.63	5.67	22.04	36.02	-13.98
2427	4		15.36	15.04	18.21	30.00	-11.79	5.67	23.88	36.02	-12.14
2432	5		15.40	15.09	18.26	30.00	-11.74	5.67	23.93	36.02	-12.09
2437	6		18.08	17.83	20.97	30.00	-9.03	5.67	26.64	36.02	-9.38
2442	7		17.01	16.81	19.92	30.00	-10.08	5.67	25.59	36.02	-10.43
2447	8		16.97	16.74	19.87	30.00	-10.13	5.67	25.54	36.02	-10.48
2452	9		13.13	13.12	16.14	30.00	-13.86	5.67	21.81	36.02	-14.21
2457	10		8.77	8.50	11.65	30.00	-18.35	5.67	17.32	36.02	-18.70
2462	11		-9.14	-9.26	-6.19	30.00	-36.19	5.67	-0.52	36.02	-36.54
2422	3	Peak	19.92	19.90	22.92	30.00	-7.08	5.67	28.59	36.02	-7.43
2427	4		21.74	21.63	24.70	30.00	-5.30	5.67	30.37	36.02	-5.65
2432	5		21.93	21.82	24.89	30.00	-5.11	5.67	30.56	36.02	-5.46
2437	6		24.74	24.62	27.69	30.00	-2.31	5.67	33.36	36.02	-2.66
2442	7		23.81	23.65	26.74	30.00	-3.26	5.67	32.41	36.02	-3.61
2447	8		23.56	23.35	26.47	30.00	-3.53	5.67	32.14	36.02	-3.88
2452	9		19.96	19.71	22.85	30.00	-7.15	5.67	28.52	36.02	-7.50
2457	10		15.41	15.13	18.28	30.00	-11.72	5.67	23.95	36.02	-12.07
2462	11		-2.21	-2.34	0.74	30.00	-29.26	5.67	6.41	36.02	-29.61

Table 7-9. Conducted Output Power Measurements MIMO (802.11ac – 40MHz BW)

2.4GHz WIFI (40MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
2422	3	Average	13.46	13.29	16.39	30.00	-13.61	5.67	22.06	36.02	-13.96
2427	4		15.36	15.05	18.22	30.00	-11.78	5.67	23.89	36.02	-12.13
2432	5		15.40	15.09	18.26	30.00	-11.74	5.67	23.93	36.02	-12.09
2437	6		18.10	17.86	20.99	30.00	-9.01	5.67	26.66	36.02	-9.36
2442	7		17.04	16.80	19.93	30.00	-10.07	5.67	25.60	36.02	-10.42
2447	8		16.95	16.77	19.87	30.00	-10.13	5.67	25.54	36.02	-10.48
2452	9		13.12	13.13	16.14	30.00	-13.86	5.67	21.81	36.02	-14.21
2457	10		8.75	8.51	11.64	30.00	-18.36	5.67	17.31	36.02	-18.71
2462	11		-9.12	-9.23	-6.16	30.00	-36.16	5.67	-0.49	36.02	-36.51
2422	3	Peak	20.19	19.96	23.09	30.00	-6.91	5.67	28.76	36.02	-7.26
2427	4		21.66	21.41	24.55	30.00	-5.45	5.67	30.22	36.02	-5.80
2432	5		22.03	21.86	24.96	30.00	-5.04	5.67	30.63	36.02	-5.39
2437	6		25.01	24.87	27.95	30.00	-2.05	5.67	33.62	36.02	-2.40
2442	7		23.87	23.60	26.75	30.00	-3.25	5.67	32.42	36.02	-3.60
2447	8		23.78	23.61	26.71	30.00	-3.29	5.67	32.38	36.02	-3.64
2452	9		19.79	19.91	22.86	30.00	-7.14	5.67	28.53	36.02	-7.49
2457	10		15.55	15.35	18.46	30.00	-11.54	5.67	24.13	36.02	-11.89
2462	11		-1.94	-2.20	0.94	30.00	-29.06	5.67	6.61	36.02	-29.41

Table 7-10. Conducted Output Power Measurements MIMO (802.11ax – 40MHz BW)

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-09-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo		Page 19 of 43

2.4GHz WIFI (40MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
2422	3	Average	13.27	13.09	16.19	30.00	-13.81	5.67	21.86	36.02	-14.16
2427	4		14.86	15.17	18.03	30.00	-11.97	5.67	23.70	36.02	-12.32
2432	5		15.23	14.89	18.07	30.00	-11.93	5.67	23.74	36.02	-12.28
2437	6		17.91	17.65	20.79	30.00	-9.21	5.67	26.46	36.02	-9.56
2442	7		16.84	16.63	19.75	30.00	-10.25	5.67	25.42	36.02	-10.60
2447	8		16.77	16.58	19.69	30.00	-10.31	5.67	25.36	36.02	-10.66
2452	9		12.94	12.93	15.95	30.00	-14.05	5.67	21.62	36.02	-14.40
2457	10		8.58	8.29	11.45	30.00	-18.55	5.67	17.12	36.02	-18.90
2462	11		-9.09	-9.22	-6.14	30.00	-36.14	5.67	-0.47	36.02	-36.49
2422	3		20.03	19.88	22.97	30.00	-7.03	5.67	28.64	36.02	-7.38
2427	4	Peak	21.89	21.78	24.85	30.00	-5.15	5.67	30.52	36.02	-5.50
2432	5		21.94	21.82	24.89	30.00	-5.11	5.67	30.56	36.02	-5.46
2437	6		24.88	24.70	27.80	30.00	-2.20	5.67	33.47	36.02	-2.55
2442	7		23.81	23.56	26.70	30.00	-3.30	5.67	32.37	36.02	-3.65
2447	8		23.64	23.56	26.61	30.00	-3.39	5.67	32.28	36.02	-3.74
2452	9		19.67	19.66	22.68	30.00	-7.32	5.67	28.35	36.02	-7.67
2457	10		15.30	15.14	18.23	30.00	-11.77	5.67	23.90	36.02	-12.12
2462	11		-2.17	-2.24	0.81	30.00	-29.19	5.67	6.48	36.02	-29.54

Table 7-11. Conducted Output Power Measurements MIMO (802.11be – 40MHz BW)

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	26T	0	18.30	26.15	18.46	26.46	21.39	29.32	30.00	-8.61	-0.68	5.67	27.06	36.02	-8.96
			4	18.35	26.53	18.75	27.00	21.56	29.78	30.00	-8.44	-0.22	5.67	27.23	36.02	-8.79
			8	18.35	25.95	18.71	26.06	21.54	29.02	30.00	-8.46	-0.98	5.67	27.21	36.02	-8.81
			0	18.39	26.03	18.85	26.68	21.64	29.38	30.00	-8.36	-0.62	5.67	27.31	36.02	-8.71
2437	6	26T	4	18.23	26.44	18.84	27.42	21.56	29.97	30.00	-8.44	-0.03	5.67	27.23	36.02	-8.79
			8	18.34	26.22	18.59	26.56	21.48	29.40	30.00	-8.52	-0.60	5.67	27.15	36.02	-8.87
			0	18.62	26.38	18.90	26.81	21.77	29.61	30.00	-8.23	-0.39	5.67	27.44	36.02	-8.58
			4	18.29	26.42	18.74	26.83	21.53	29.64	30.00	-8.47	-0.36	5.67	27.20	36.02	-8.82
2457	10	26T	8	18.40	26.27	18.83	26.71	21.63	29.51	30.00	-8.37	-0.49	5.67	27.30	36.02	-8.72
			0	17.96	25.55	18.10	25.92	21.04	28.75	30.00	-8.96	-1.25	5.67	26.71	36.02	-9.31
			4	17.92	25.99	18.15	26.27	21.05	29.14	30.00	-8.95	-0.86	5.67	26.72	36.02	-9.30
			8	17.93	26.00	18.08	26.21	21.02	29.12	30.00	-8.98	-0.88	5.67	26.69	36.02	-9.33
2467	11	26T	0	15.34	23.23	15.48	23.50	18.42	26.38	30.00	-11.58	-3.62	5.67	24.09	36.02	-11.93
			4	15.68	23.80	15.87	24.33	18.79	27.08	30.00	-11.21	-2.92	5.67	24.46	36.02	-11.56
			8	15.34	23.25	15.51	23.54	18.44	26.41	30.00	-11.56	-3.59	5.67	24.11	36.02	-11.91
			0	-14.36	-7.11	-14.23	-6.80	-11.28	-3.94	30.00	-41.28	-33.94	5.67	-5.61	36.02	-41.63
2472	13	26T	4	-14.32	-6.18	-14.44	-6.16	-11.37	-3.16	30.00	-41.37	-33.16	5.67	-5.70	36.02	-41.72
			8	-14.30	-6.41	-14.33	-6.64	-11.30	-3.51	30.00	-41.30	-33.51	5.67	-5.63	36.02	-41.65

Table 7-12. Conducted Output Power Measurements MIMO (26 Tones)

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin	Peak Conducted Power Margin	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	52T	37	17.88	25.96	18.01	26.12	20.96	29.05	30.00	-9.04	-0.95	5.67	26.63	36.02	-9.39
			38	18.03	25.91	18.19	26.07	21.12	29.00	30.00	-8.88	-1.00	5.67	26.79	36.02	-9.23
			40	17.97	25.90	18.25	25.73	21.12	28.63	30.00	-8.88	-1.37	5.67	26.79	36.02	-9.23
			37	18.61	26.70	18.90	27.14	21.77	29.94	30.00	-8.23	-0.06	5.67	27.44	36.02	-8.58
2417	2	52T	38	18.54	26.27	18.88	26.61	21.72	29.45	30.00	-8.28	-0.55	5.67	27.39	36.02	-8.63
			40	18.44	26.03	18.83	26.29	21.65	29.17	30.00	-8.35	-0.83	5.67	27.32	36.02	-8.70
			37	18.56	26.32	18.96	26.77	21.77	29.56	30.00	-8.23	-0.44	5.67	27.44	36.02	-8.58
			38	18.19	26.34	18.46	26.84	21.34	29.61	30.00	-8.66	-0.39	5.67	27.01	36.02	-9.01
2437	6	52T	40	18.45	26.33	18.67	26.82	21.57	29.59	30.00	-8.43	-0.41	5.67	27.24	36.02	-8.78
			37	18.63	26.33	18.76	26.58	21.71	29.47	30.00	-8.29	-0.53	5.67	27.38	36.02	-8.64
			38	18.40	26.60	18.86	27.11	21.65	29.87	30.00	-8.35	-0.13	5.67	27.32	36.02	-8.70
			40	18.40	26.60	18.83	27.10	21.63	29.87	30.00	-8.37	-0.13	5.67	27.30	36.02	-8.72
2467	12	52T	37	15.66	23.12	15.91	23.40	18.80	26.27	30.00	-11.20	-3.73	5.67	24.47	36.02	-11.55
			38	15.80	24.12	15.95	24.43	18.89	27.29	30.00	-11.11	-2.71	5.67	24.56	36.02	-11.46
			40	15.45	23.70	15.56	23.98	18.52	26.85	30.00	-11.48	-3.15	5.67	24.19	36.02	-11.83
			37	-14.37	-6.75	-14.32	-6.72	-11.33	-3.72	30.00	-41.33	-33.72	5.67	-5.66	36.02	-41.68
2472	13	52T	38	-14.58	-6.37	-14.55	-6.42	-11.55	-3.38	30.00	-41.55	-33.38	5.67	-5.88	36.02	-41.90
			40	-14.16	-6.40	-14.18	-6.27	-11.16	-3.32	30.00	-41.16	-33.32	5.67	-5.49	36.02	-41.51

Table 7-13. Conducted Output Power Measurements MIMO (52 Tones)

Freq [MHz]	Channel	Tones	MRU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin	Peak Conducted Power Margin	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	52+26T	70	18.33	26.32	18.46	26.56	21.41	29.45	30.00	-8.59	-0.55	5.67	27.08	36.02	-8.94
			71	18.26	26.18	18.36	26.44	21.32	29.32	30.00	-8.68	-0.68	5.67	26.99	36.02	-9.03
			72	18.19	25.86	18.41	26.06	21.31	28.97	30.00	-8.69	-1.03	5.67	26.98	36.02	-9.04
			70	18.20	26.31	18.38	26.56	21.30	29.45	30.00	-8.70	-0.55	5.67	26.97	36.02	-9.05
2417	2	52+26T	71	18.20	26.27	18.44	26.60	21.33	29.45	30.00	-8.67	-0.55	5.67	27.00	36.02	-9.02
			72	18.19	25.93	18.53	26.17	21.37	29.06	30.00	-8.63	-0.94	5.67	27.04	36.02	-8.98
			70	18.36	26.18	18.72	26.61	21.55	29.41	30.00	-8.45	-0.59	5.67	27.22	36.02	-8.80
			71	18.22	26.22	18.53	26.60	21.39	29.42	30.00	-8.61	-0.58	5.67	27.06	36.02	-8.96
2437	6	52+26T	72	18.31	26.17	18.56	26.72	21.45	29.46	30.00	-8.55	-0.94	5.67	27.12	36.02	-8.90
			70	18.51	26.15	18.67	26.40	21.60	29.29	30.00	-8.40	-0.71	5.67	27.27	36.02	-8.75
			71	18.31	26.10	18.51	26.34	21.42	29.23	30.00	-8.58	-0.71	5.67	27.27	36.02	-8.93
			72	18.43	26.47	18.85	26.96	21.66	29.73	30.00	-8.34	-0.77	5.67	27.33	36.02	-8.69
2467	12	52+26T	70	15.36	22.94	15.56	23.33	18.47	26.15	30.00	-11.53	-3.85	5.67	24.14	36.02	-11.88
			71	15.61	23.43	15.78	23.62	18.71	26.54	30.00	-11.29	-3.46	5.67	24.38	36.02	-11.64
			72	15.37	23.41	15.51	23.66	18.45	26.55	30.00	-11.55	-3.45	5.67	24.12	36.02	-11.90
			70	14.24	-4.61	-14.27	-6.56	18.45	-3.57	30.00	-33.57	-5.67	5.67	14.59	36.02	-41.59
2472	13	52+26T	71	14.47	-5.62	-14.49	-6.73	-11.47	-3.66	30.00	-41.47	-33.66	5.67	-5.80	36.02	-41.82
			72	-14.45	-6.58	-14.41	-6.65	-11.42	-3.60	30.00	-41.42	-33.60	5.67	-5.75	36.02	-41.77

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	106T	53	15.62	23.64	15.75	23.92	18.70	26.79	30.00	-11.30	-3.21	5.67	24.37	36.02	-11.65
			54	15.64	23.57	15.89	23.81	18.78	26.70	30.00	-11.22	-3.30	5.67	24.45	36.02	-11.57
2417	2	106T	53	17.69	25.75	17.84	26.04	20.78	28.91	30.00	-9.22	-1.09	5.67	26.45	36.02	-9.57
			54	17.18	25.09	17.57	25.49	20.39	28.30	30.00	-9.61	-1.70	5.67	26.06	36.02	-9.96
2422	3	106T	53	18.35	26.43	18.44	26.48	21.41	29.47	30.00	-8.59	-0.53	5.67	27.08	36.02	-8.94
			54	18.74	26.62	18.96	26.96	21.86	29.80	30.00	-8.14	-0.20	5.67	27.53	36.02	-8.49
2437	6	106T	53	18.42	26.31	18.75	26.70	21.60	29.52	30.00	-8.40	-0.48	5.67	27.27	36.02	-8.75
			54	18.31	26.30	18.54	26.55	21.44	29.44	30.00	-8.56	-0.56	5.67	27.11	36.02	-8.91
2447	8	106T	53	18.21	26.11	18.45	26.70	21.34	29.43	30.00	-8.66	-0.57	5.67	27.01	36.02	-9.01
			54	18.44	26.34	18.76	26.63	21.61	29.50	30.00	-8.39	-0.50	5.67	27.28	36.02	-8.74
2452	9	106T	53	17.69	25.61	17.78	25.76	20.75	28.70	30.00	-9.25	-1.30	5.67	26.42	36.02	-9.60
			54	17.33	25.32	17.59	25.42	20.47	28.38	30.00	-9.53	-1.62	5.67	26.14	36.02	-9.88
2457	10	106T	53	17.75	25.71	17.84	25.93	20.81	28.83	30.00	-9.19	-1.17	5.67	26.48	36.02	-9.54
			54	17.63	25.57	17.76	25.80	20.71	28.70	30.00	-9.29	-1.30	5.67	26.38	36.02	-9.64
2462	11	106T	53	16.99	24.90	17.10	25.05	20.06	27.99	30.00	-9.94	-2.01	5.67	25.73	36.02	-10.29
			54	17.00	25.72	17.14	25.34	20.08	28.29	30.00	-9.92	-1.71	5.67	25.75	36.02	-10.27
2467	12	106T	53	12.76	20.86	12.93	21.11	15.86	24.00	30.00	-14.14	-6.00	5.67	21.53	36.02	-14.49
			54	12.75	20.80	12.93	21.23	15.85	24.03	30.00	-14.15	-5.97	5.67	21.52	36.02	-14.50
2472	13	106T	53	-12.71	-4.94	-12.75	-4.73	-9.72	-1.82	30.00	-39.72	-31.82	5.67	-4.05	36.02	-40.07
			54	-12.94	-5.00	-12.89	-4.88	-9.90	-1.93	30.00	-39.90	-31.93	5.67	-4.23	36.02	-40.25

Table 7-15. Conducted Output Power Measurements MIMO (106 Tones)

Freq [MHz]	Channel	Tones	MRU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				Avg	Peak	Avg	Peak	Avg	Peak							
2412	1	106+26T	82	15.54	23.71	15.68	24.09	18.62	26.91	30.00	-11.38	-3.09	5.67	24.29	36.02	-11.73
			83	15.56	23.50	15.31	23.44	18.45	26.48	30.00	-11.55	-3.52	5.67	24.12	36.02	-11.90
2417	2	106+26T	82	17.67	25.71	17.81	26.04	20.75	28.89	30.00	-9.25	-1.11	5.67	26.42	36.02	-9.60
			83	17.55	25.47	17.95	26.03	20.76	28.77	30.00	-9.24	-1.23	5.67	26.43	36.02	-9.59
2422	3	106+26T	82	18.32	26.52	18.49	26.63	21.42	29.59	30.00	-8.58	-0.41	5.67	27.09	36.02	-8.93
			83	18.66	26.62	18.92	26.89	21.80	29.77	30.00	-8.20	-0.23	5.67	27.47	36.02	-8.55
2437	6	106+26T	82	18.30	26.32	18.62	26.77	21.47	29.56	30.00	-8.53	-0.44	5.67	27.14	36.02	-8.88
			83	18.25	26.32	18.54	26.79	21.41	29.57	30.00	-8.59	-0.43	5.67	27.08	36.02	-8.94
2447	8	106+26T	82	18.43	26.52	18.98	27.32	21.72	29.95	30.00	-8.28	-0.05	5.67	27.39	36.02	-8.63
			83	18.35	26.19	18.68	26.72	21.53	29.47	30.00	-8.47	-0.53	5.67	27.20	36.02	-8.82
2452	9	106+26T	82	17.63	25.66	17.71	26.03	20.68	28.86	30.00	-9.32	-1.14	5.67	26.35	36.02	-9.67
			83	17.35	25.33	17.60	25.64	20.49	28.50	30.00	-9.51	-1.50	5.67	26.16	36.02	-9.86
2457	10	106+26T	82	17.66	25.80	17.77	26.09	20.73	28.96	30.00	-9.27	-1.04	5.67	26.40	36.02	-9.62
			83	17.59	25.61	17.75	25.90	20.68	28.77	30.00	-9.32	-1.23	5.67	26.35	36.02	-9.67
2462	11	106+26T	82	17.37	25.59	17.48	25.72	20.44	28.67	30.00	-9.56	-1.33	5.67	26.11	36.02	-9.91
			83	16.99	25.22	17.15	25.48	20.08	28.36	30.00	-9.92	-1.64	5.67	25.75	36.02	-10.27
2467	12	106+26T	82	13.16	21.21	13.39	21.50	16.29	24.37	30.00	-13.71	-5.63	5.67	21.96	36.02	-14.06
			83	13.23	21.41	13.48	21.71	16.37	24.57	30.00	-13.63	-5.43	5.67	22.04	36.02	-13.98
2472	13	106+26T	82	-12.85	-4.80	-12.88	-4.56	-9.85	-1.67	30.00	-39.85	-31.67	5.67	-4.18	36.02	-40.20
			83	-12.59	-4.47	-12.53	-4.36	-9.55	-1.40	30.00	-39.55	-31.40	5.67	-3.88	36.02	-39.90

Table 7-16. Conducted Output Power Measurements MIMO (106+26 Tones)

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	242T	61	13.61	22.10	13.90	22.48	16.77	25.30	30.00	-13.23	-4.70	5.67	22.44	36.02	-13.58
2417	2	242T	61	15.11	24.00	15.45	24.07	18.29	27.05	30.00	-11.71	-2.95	5.67	23.96	36.02	-12.06
2422	3	242T	61	16.22	24.83	16.48	25.12	19.36	27.99	30.00	-10.64	-2.01	5.67	25.03	36.02	-10.99
2427	4	242T	61	18.14	26.76	18.40	26.97	21.28	29.88	30.00	-8.72	-0.12	5.67	26.95	36.02	-9.07
2437	6	242T	61	18.21	26.61	18.48	27.14	21.36	29.87	30.00	-8.64	-0.11	5.67	27.03	36.02	-8.99
2447	8	242T	61	18.13	26.67	18.45	27.02	21.30	29.86	30.00	-8.70	-0.14	5.67	26.97	36.02	-9.05
2452	9	242T	61	17.63	26.19	17.75	26.45	20.70	29.33	30.00	-9.30	-0.67	5.67	26.37	36.02	-9.65
2457	10	242T	61	14.36	22.71	14.67	23.19	17.53	25.97	30.00	-12.47	-4.03	5.67	23.20	36.02	-12.82
2462	11	242T	61	12.35	20.79	12.54	21.13	15.46	23.97	30.00	-14.54	-6.03	5.67	21.13	36.02	-14.89
2467	12	242T	61	11.90	20.55	12.21	20.97	15.07	23.78	30.00	-14.93	-6.22	5.67	20.74	36.02	-15.28
2472	13	242T	61	-6.19	2.45	-6.10	2.49	-3.13	5.48	30.00	-33.13	-24.52	5.67	2.54	36.02	-33.48

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

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2422	3	484T	65	13.41	22.27	13.63	22.48	16.53	25.39	30.00	-13.47	-4.61	5.67	22.20	36.02	-13.82
2427	4	484T	65	15.18	23.72	15.53	24.14	18.37	26.95	30.00	-11.63	-3.05	5.67	24.04	36.02	-11.98
2432	5	484T	65	15.21	23.91	15.56	24.16	18.40	27.05	30.00	-11.60	-2.95	5.67	24.07	36.02	-11.95
2437	6	484T	65	15.37	23.97	15.59	24.23	18.49	27.11	30.00	-11.51	-2.89	5.67	24.16	36.02	-11.86
2447	8	484T	65	15.29	23.80	15.60	24.19	18.46	27.01	30.00	-11.54	-2.99	5.67	24.13	36.02	-11.89
2452	9	484T	65	13.27	22.01	13.29	22.06	16.29	25.05	30.00	-13.71	-4.95	5.67	21.97	36.02	-14.06
2457	10	484T	65	10.69	19.01	10.89	19.39	13.80	22.21	30.00	-19.30	-7.70	5.67	19.47	36.02	-16.55
2462	11	484T	65	-6.33	-2.10	-6.31	-2.48	-3.31	5.30	30.00	-33.31	-24.70	5.67	23.36	36.02	-33.66

Note:

Per ANSI C63.10:2020 Section 14.5.2.3, 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 18.32 dBm for Antenna 1 and 18.30 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(18.32 \text{ dBm} + 18.30 \text{ dBm}) = (67.920 \text{ mW} + 67.608 \text{ mW}) = 135.528 \text{ mW} = 21.32 \text{ dBm}$$

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7.3 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in FCC §15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown FCC §15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-19. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Section 6.6.4.3

Test Settings – Above 1GHz

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

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Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Test Setup

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

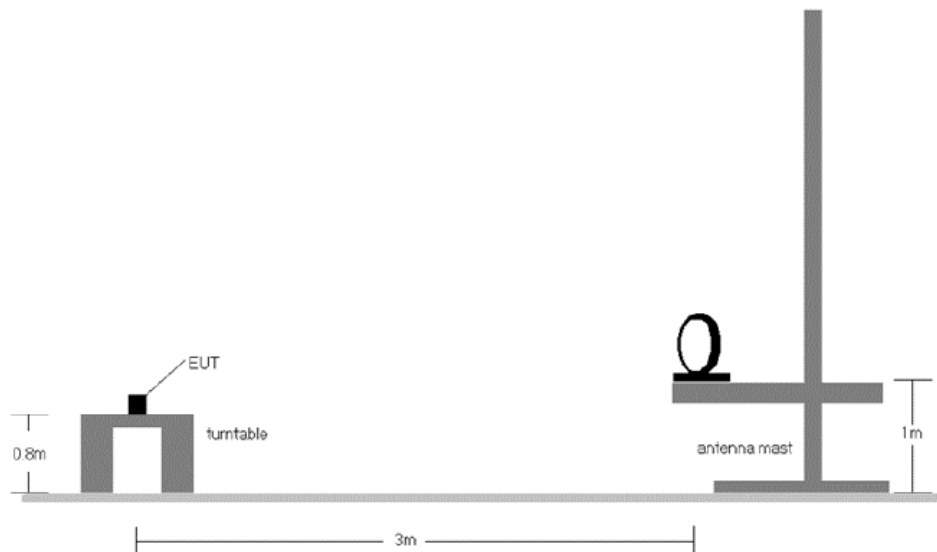


Figure 7-2. Radiated Test Setup < 30MHz

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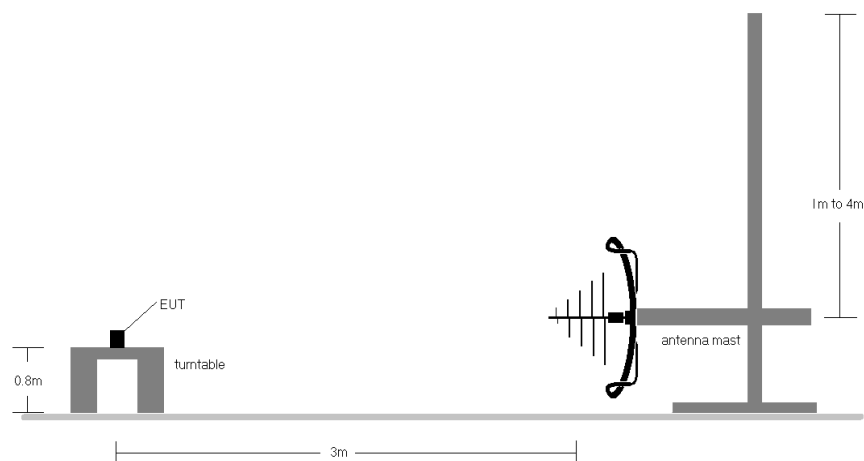


Figure 7-3. Radiated Test Setup < 1GHz

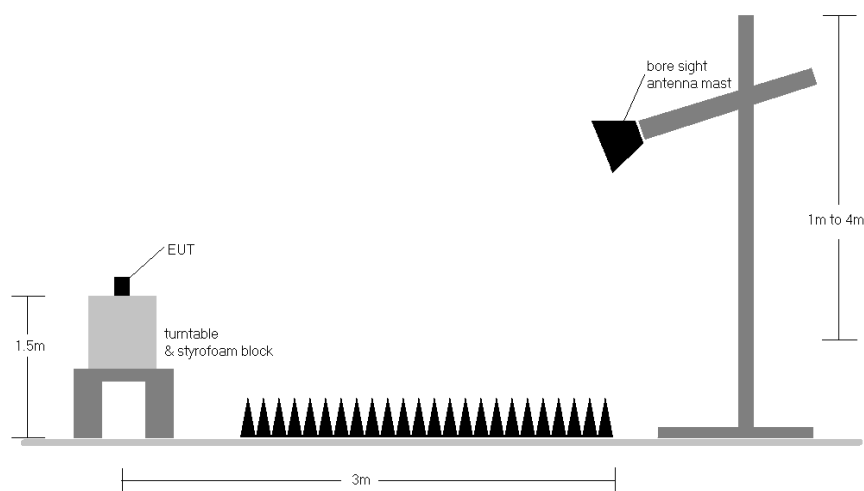


Figure 7-4. Radiated Test Setup > 1GHz

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of ANSI C63.10:2020 Section 11.12.2 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limits shown in §15.209.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken

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using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.

6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst-case results during the transmitter spurious emissions testing.
10. No spurious emissions were detected within 20dB of the limit below 30MHz.
11. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
12. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
13. In this section, plots showing measurements shown as "channel power" are recorded using the integration methods described in Section 11.12.3.2 of ANSI C63.10:2020 for average and peak measurements as allowed per Section 12.7.4.4.1. Also, the average measurements include the duty cycle correction factor shown in Section 2.2 of this report.
14. For Band Edge Measurement, testing was performed using a conducted restricted setup/method. Band Edge was performed on each ports/chain and summed together with accounting for the antenna gain and duty cycle correction.

Sample Calculations

Determining Spurious Emissions Levels

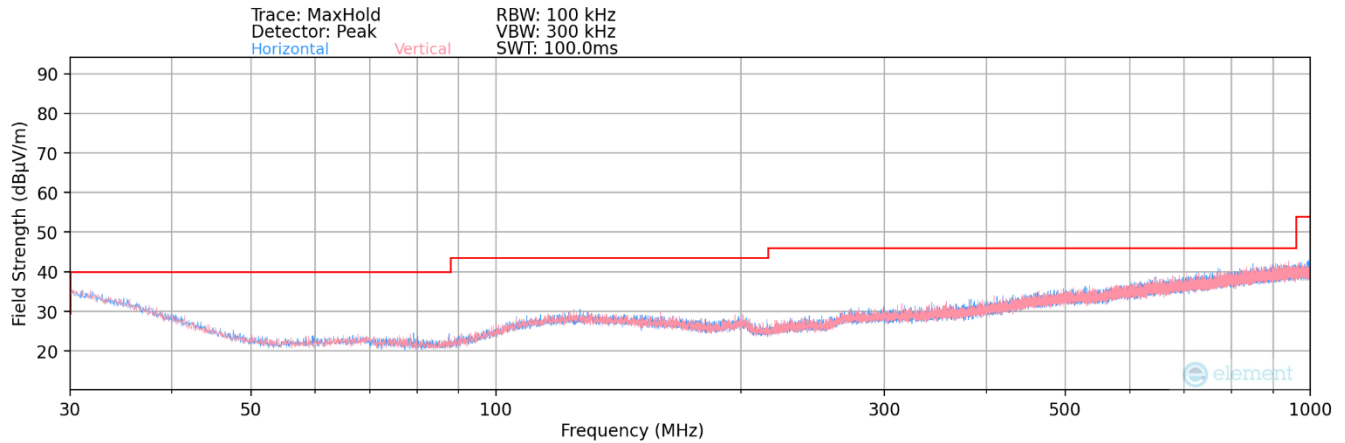
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

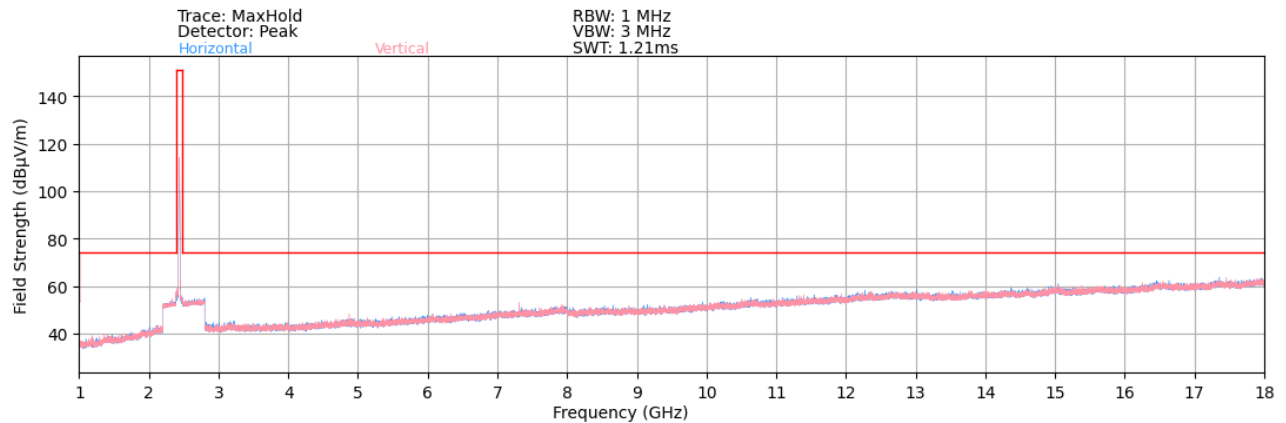
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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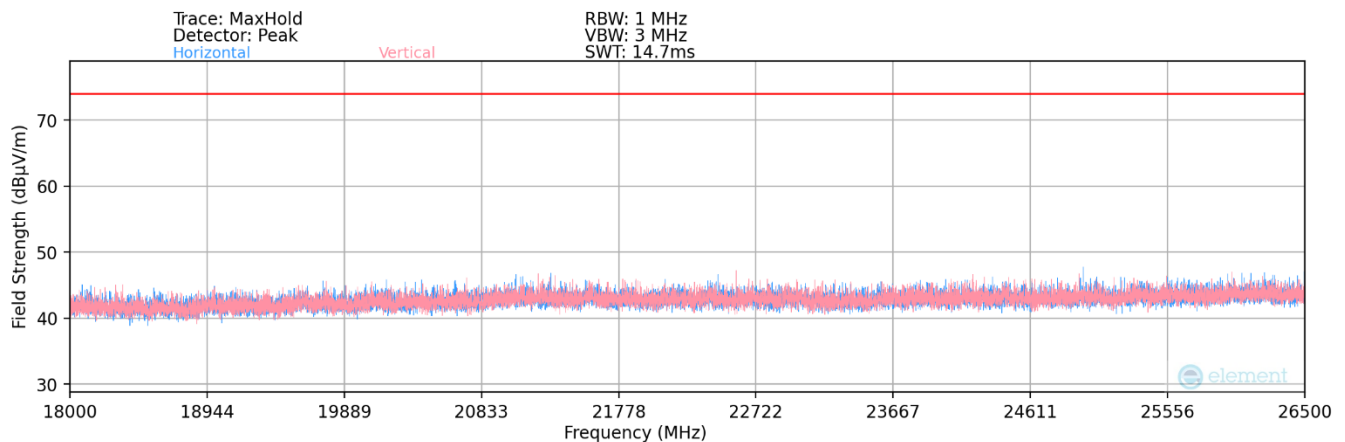
MIMO Radiated Spurious Emission Measurements



Plot 7-1. Radiated Spurious Plot below 1GHz MIMO (802.11b)



Plot 7-2. Radiated Spurious Plot above 1GHz MIMO (802.11b)



Plot 7-3. Radiated Spurious Plot above 18GHz MIMO (802.11b)

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Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	102	195	-65.02	8.97	50.95	53.98	-3.03
4824.00	Peak	V	102	195	-61.22	8.97	54.75	73.98	-19.23
12060.00	Avg	V	-	-	-83.45	21.67	45.22	53.98	-8.76
12060.00	Peak	V	-	-	-73.06	21.67	55.61	73.98	-18.37

Table 7-20. Radiated Measurements MIMO

Worst Case Transfer Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	116	221	-73.59	9.40	42.81	53.98	-11.17
4874.00	Peak	V	116	221	-65.93	9.40	50.47	73.98	-23.51
7311.00	Avg	V	102	108	-71.67	14.98	50.31	53.98	-3.67
7311.00	Peak	V	102	108	-65.87	14.98	56.11	73.98	-17.87
12185.00	Avg	V	-	-	-84.10	22.57	45.47	53.98	-8.51
12185.00	Peak	V	-	-	-73.98	22.57	55.59	73.98	-18.39

Table 7-21. Radiated Measurements MIMO

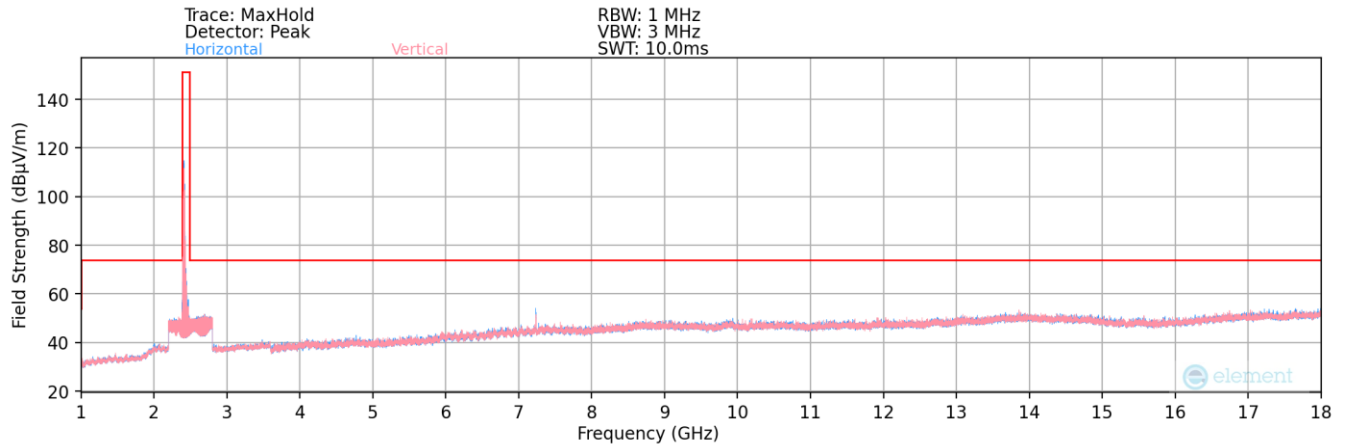
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	117	197	-65.65	9.51	50.86	53.98	-3.12
4924.00	Peak	V	117	197	-62.54	9.51	53.97	73.98	-20.01
7386.00	Avg	V	115	255	-74.29	15.18	47.89	53.98	-6.09
7386.00	Peak	V	115	255	-67.35	15.18	54.83	73.98	-19.15
12310.00	Avg	V	-	-	-84.38	22.85	45.47	53.98	-8.51
12310.00	Peak	V	-	-	-73.93	22.85	55.92	73.98	-18.06

Table 7-22. Radiated Measurements MIMO

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Plot 7-4. Radiated Spurious Plot above 1GHz MIMO (802.11ax/be OFDMA – 26 Tones – Ch. 1)

Worst Case Mode:	802.11ax/be OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	113	175	-76.33	8.97	39.64	53.98	-14.34
4824.00	Peak	V	113	175	-65.70	8.97	50.27	73.98	-23.71
12060.00	Avg	V	-	-	-83.48	21.67	45.19	53.98	-8.79
12060.00	Peak	V	-	-	-73.39	21.67	55.28	73.98	-18.70

Table 7-23. Radiated Measurements MIMO (26 Tones)

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax/be OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	108	193	-76.43	9.40	39.97	53.98	-14.01
4874.00	Peak	V	108	193	-64.87	9.40	51.53	73.98	-22.45
7311.00	Avg	V	306	138	-76.34	14.98	45.64	53.98	-8.34
7311.00	Peak	V	306	138	-62.19	14.98	59.79	73.98	-14.19
12185.00	Avg	V	-	-	-84.16	22.57	45.41	53.98	-8.57
12185.00	Peak	V	-	-	-74.10	22.57	55.47	73.98	-18.51

Table 7-24. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax/be OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	-	-	-80.71	9.51	35.80	53.98	-18.18
4924.00	Peak	V	-	-	-70.16	9.51	46.35	73.98	-27.63
7386.00	Avg	V	-	-	-82.17	15.18	40.01	53.98	-13.97
7386.00	Peak	V	-	-	-71.14	15.18	51.04	73.98	-22.94
12310.00	Avg	V	-	-	-84.02	22.85	45.83	53.98	-8.15
12310.00	Peak	V	-	-	-72.90	22.85	56.95	73.98	-17.03

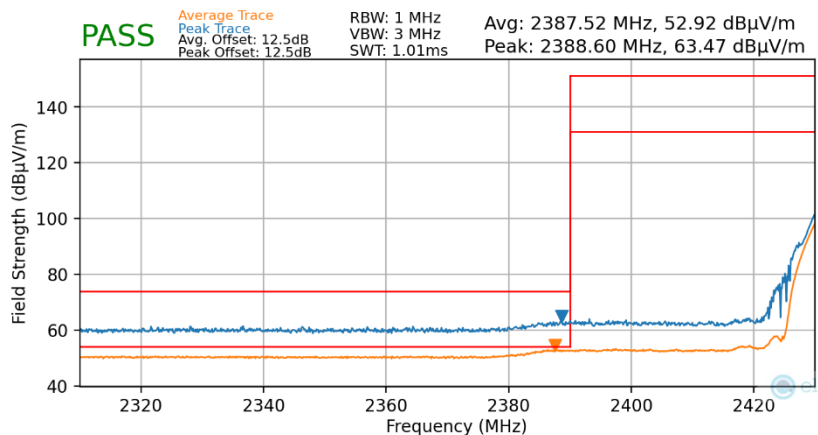
Table 7-25. Radiated Measurements MIMO (26 Tones)

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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MIMO Radiated Restricted Band Edge Measurements

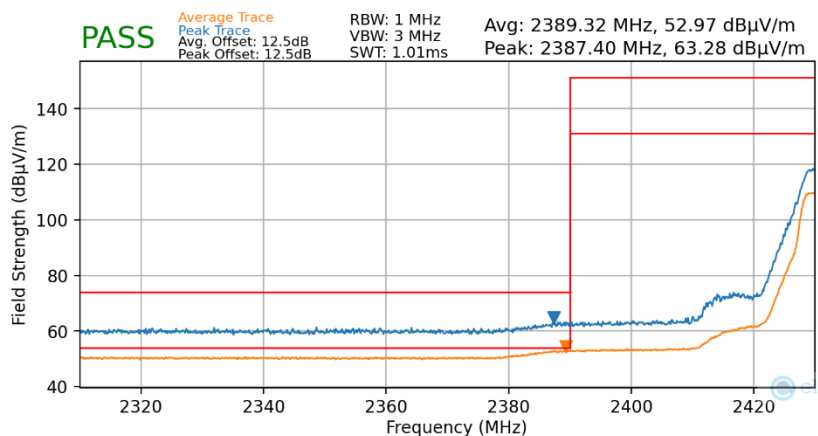
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting. The test cases for restricted band edge measurements are based on the manufacturer's "Host test requirements for WIFI_BT module" document.

Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	6



Plot 7-5. Radiated Restricted Lower Band Edge Measurement MIMO (Average & Peak)

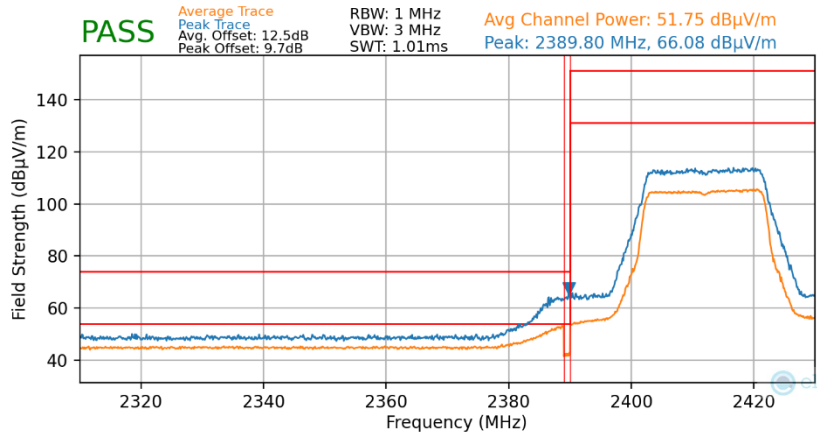
Worst Case Mode:	802.11n - 40MHz BW
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	6



Plot 7-6. Radiated Restricted Lower Band Edge Measurement MIMO (Average & Peak)

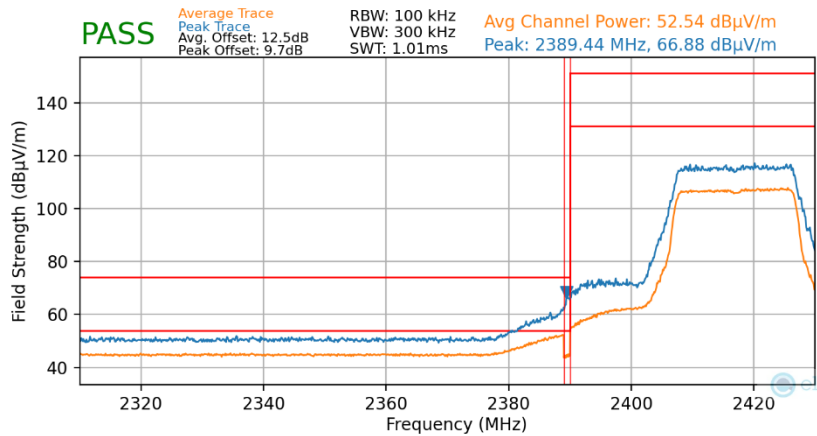
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-09-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo		

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-7. Radiated Restricted Lower Band Edge Measurement MIMO (Average & Peak)

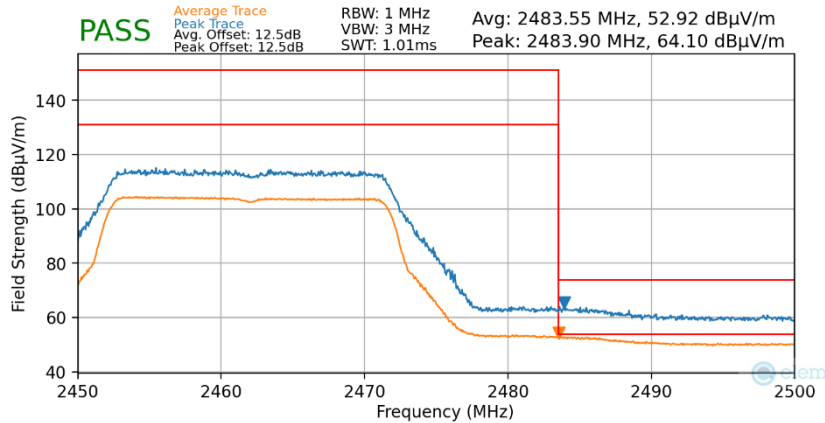
Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-8. Radiated Restricted Lower Band Edge Measurement MIMO (Average & Peak)

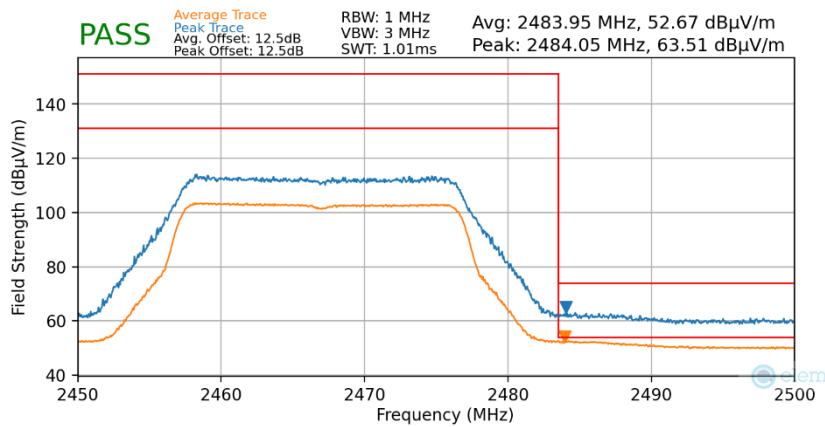
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-9. Radiated Restricted Upper Band Edge Measurement MIMO (Average & Peak)

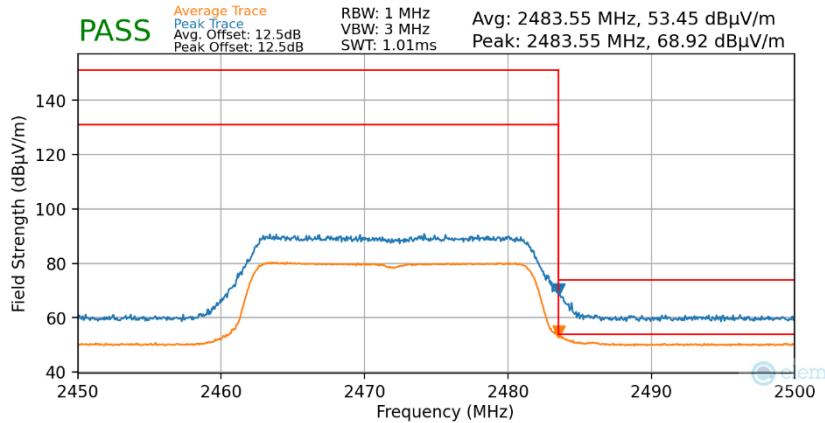
Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-10. Radiated Restricted Upper Band Edge Measurement MIMO (Average & Peak)

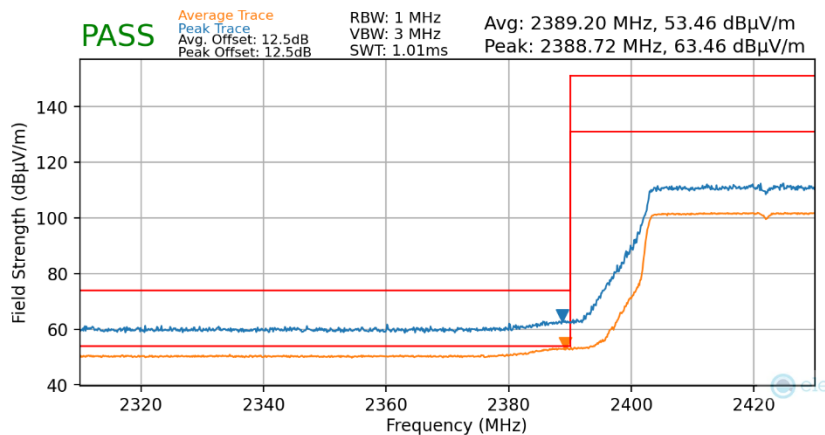
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-11. Radiated Restricted Upper Band Edge Measurement MIMO (Average & Peak)

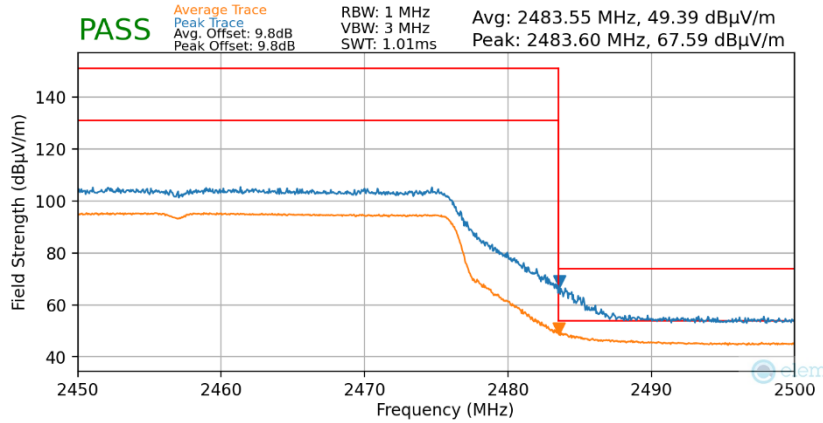
Worst Case Mode: 802.11n - 40MHz BW
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-12. Radiated Restricted Lower Band Edge Measurement MIMO (Average & Peak)

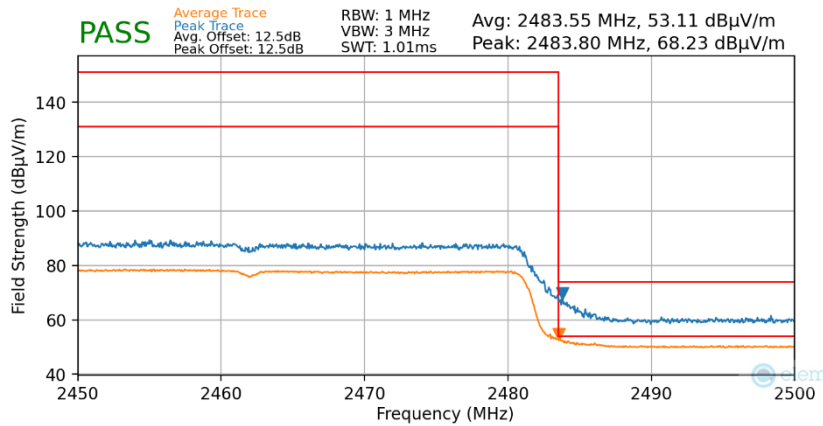
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11n - 40MHz BW
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-13. Radiated Restricted Upper Band Edge Measurement MIMO (Average & Peak)

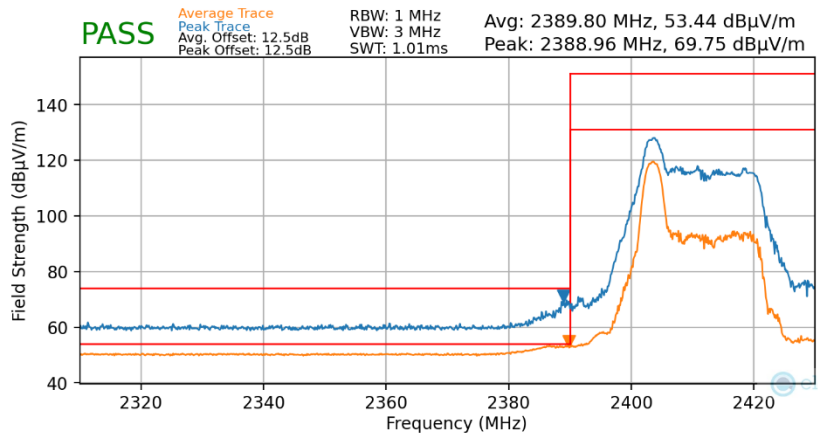
Worst Case Mode: 802.11n - 40MHz BW
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-14. Radiated Restricted Upper Band Edge Measurement MIMO (Average & Peak)

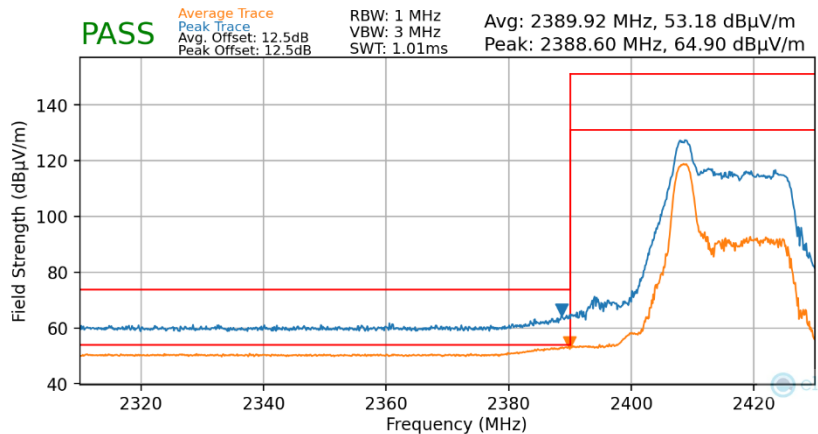
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax - OFDMA
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-15. Radiated Restricted Lower Band Edge Measurement MIMO (Average & Peak – 26Tones)

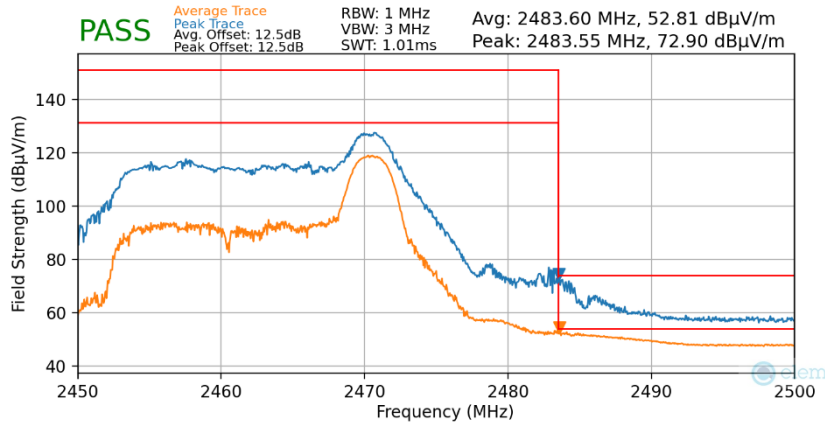
Worst Case Mode: 802.11ax - OFDMA
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-16. Radiated Restricted Lower Band Edge Measurement MIMO (Average & Peak – 26Tones)

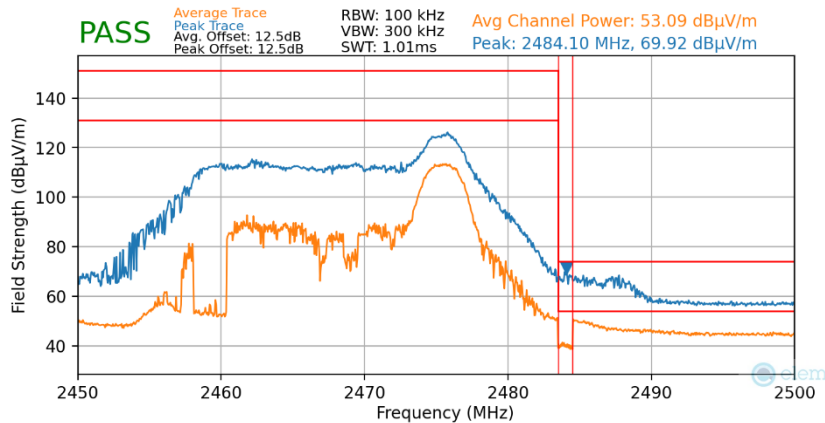
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax - OFDMA
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-17. Radiated Restricted Upper Band Edge Measurement MIMO (Average & Peak – 26Tones)

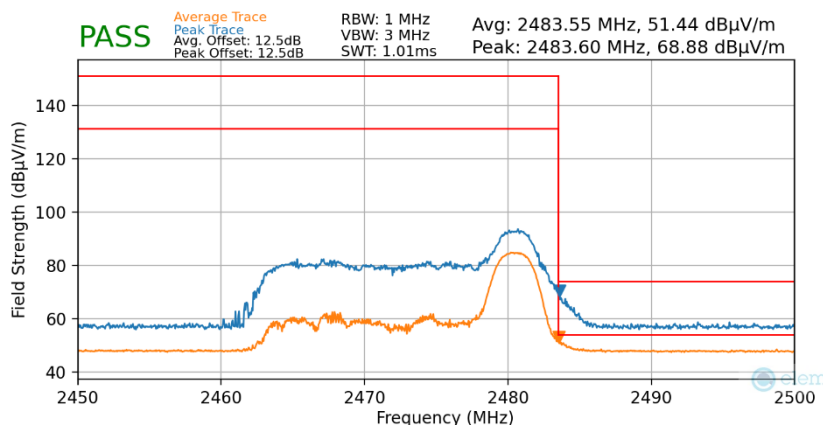
Worst Case Mode: 802.11ax - OFDMA
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-18. Radiated Restricted Upper Band Edge Measurement MIMO (Average & Peak – 26Tones)

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax - OFDMA
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-19. Radiated Restricted Upper Band Edge Measurement MIMO (Average & Peak – 26Tones)

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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7.4 Line-Conducted Test Data

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below per §15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-26. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

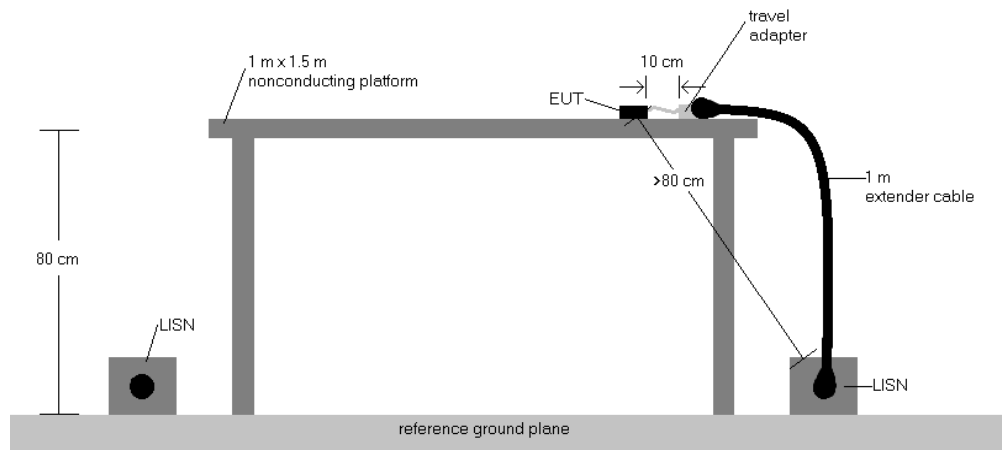
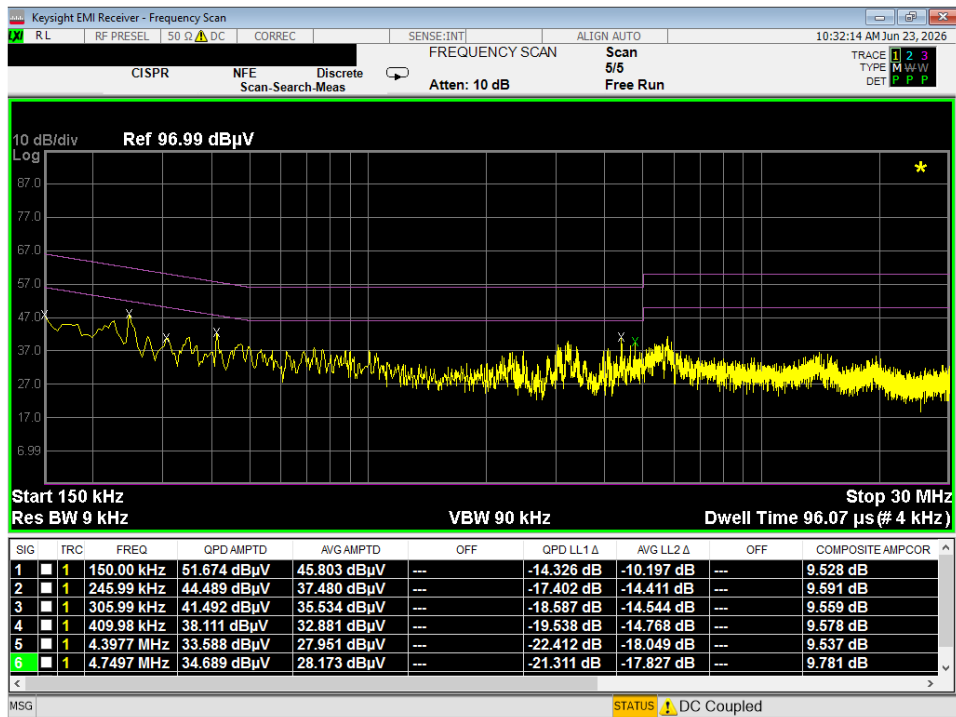


Figure 7-5. Test Instrument & Measurement Setup

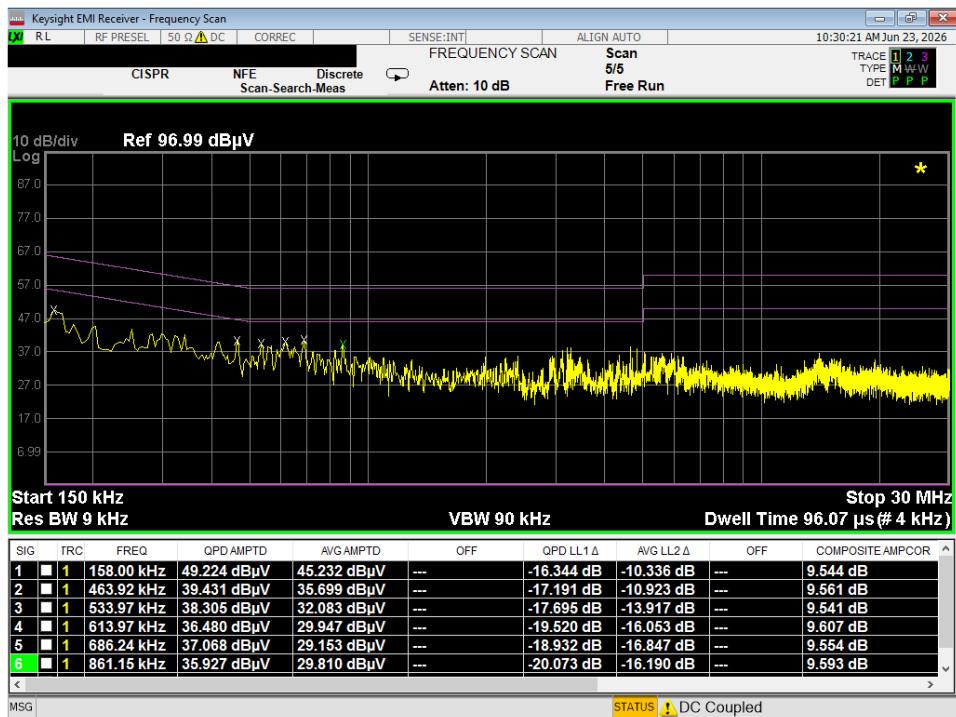
Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Plot 7-20. Line Conducted Plot with 802.11b (L1)



Plot 7-21. Line Conducted Plot with 802.11b (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Microsoft Corporation Limited Module FCC ID: C3K00002101** and **IC: 3048A-00002101** integrated into the **host portable computing device (Model: 2145)** is in compliance the relevant FCC rules and ISED rules for module integration into a host product.

- END OF TEST REPORT -

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-09-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo		Page 43 of 43