



ELEMENT MATERIALS TECHNOLOGY,

Columbia MD

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MEASUREMENT REPORT

FCC PART 15.407 / ISED RSS-247 802.11a/n/ac/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.:

1M2604150032-10-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:

5180 – 5885MHz

Modulation Type:

OFDM/OFDMA

FCC Equipment Class:

Unlicensed National Information Infrastructure TX (NII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

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: 1M2604150032-10-R2.C3K) supersedes and replaces the previously issued test report (S/N: 1M2604150032-10-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



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: 1M2604150032-10-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 1 of 63

TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	7/1/2026	WKR0000005883
1	Addressed Client's Feedback	7/9/2026	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 UNII 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)

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745	169	5845
:	:	:	:	:	:	:	:	:	:
40	5200	56	5280	120	5600	157	5785	173	5865
:	:	:	:	:	:	:	:	:	:
48	5240	64	5320	144	5720	165	5825	177	5885

Table 2-1. 802.11a/n/ac/ax/be (20MHz) Frequency / Channel Operations

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755	167	5835
:	:	:	:	:	:	:	:	:	:
46	5230	62	5310	118	5590	159	5795	175	5875
				:	:				
				142	5710				

Table 2-2. 802.11n/ac/ax/be (40MHz BW) Frequency / Channel Operations

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775	167	5835
				:	:				
				122	5610				
				:	:				
				138	5690				

Table 2-3. 802.11ac/ax/be (80MHz BW) Frequency / Channel Operations

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Band 1/2A		Band 2C		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
50	5250	114	5570	163	5815

Table 2-4. 802.11ac/ax/be (160MHz BW) Frequency / Channel Operations

Notes:

- 5GHz NII operation is possible in 20MHz, 40MHz, 80MHz, and 160MHz channel bandwidths. 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 B)2)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:

802.11 Mode/Band		MIMO (1+2)	
		Duty Cycle [%]	Radiated DCCF [dB]
5GHz	a	99.43	N/A
	n (HT20)	99.67	N/A
	ac (VHT20)	99.65	N/A
	ax (HE20)	99.56	N/A
	be (EHT20)	99.67	N/A
	n (HT40)	99.62	N/A
	ac (VHT40)	99.31	N/A
	ax (HE40)	99.67	N/A
	be (EHT40)	99.67	N/A
	ac (VHT80)	98.68	N/A
	ax (HE80)	99.18	N/A
	be (EHT80)	99.52	N/A
	be (EHT80, 20MHz Puncture)	99.40	N/A
	ac (HT160)	99.17	N/A
	ax (HE160)	99.33	N/A
	be (EHT160)	99.38	N/A
	be (EHT160, 20MHz Puncture)	99.44	N/A
	be (EHT160, 40MHz Puncture)	99.59	N/A

Table 2-5. Measured Duty Cycles – OFDM

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Band	Bandwidth	Tone Type	Tone Size	MIMO (1+2)	
				Duty Cycle [%]	Radiated DCCF [dB]
5GHz	20MHz	RU	26T	99.76	N/A
			52T	99.67	N/A
			106T	98.91	N/A
			242T	98.22	N/A
		MRU	52+26T	97.45	0.11
			106+26T	98.53	N/A
	40MHz	RU	26T	99.63	N/A
			52T	99.67	N/A
			106T	99.36	N/A
			242T	98.64	N/A
		MRU	484T	97.66	0.10
			52+26T	99.82	N/A
	80MHz	RU	106+26T	99.22	N/A
		RU	26T	98.06	N/A
			52T	99.69	N/A
			106T	99.15	N/A
			242T	97.88	0.09
		MRU	484T	97.90	0.09
			996T	97.62	0.10
			52+26T	97.68	0.10
	160MHz	RU	106+26T	98.02	N/A
		RU	484+242T	98.47	N/A
		RU	26T	99.96	N/A
			52T	99.79	N/A
			106T	99.51	N/A
			242T	98.89	N/A
		MRU	484T	98.04	N/A
			996T	97.55	0.11
			2x996T	99.31	N/A
			52+26T	98.44	N/A
		MRU	106+26T	99.10	N/A
			484+242T	97.21	0.12
			996+484T	98.35	N/A

Table 2-6. Measured Duty Cycles – OFDMA

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

WiFi Configurations		SISO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
5GHz	11a	✓	✓	✗	✗	✓	✓
	11n	✓	✓	✓	✓	✓	✓
	11ac	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓

Table 2-7. Antenna / Technology Configuration

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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✓ = 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):

802.11a	MCS Index				Spatial Stream	OFDM (802.11n/802.11ac)				OFDM (802.11ac)				OFDM (802.11ax/be)											
						20MHz		40MHz		80MHz		160MHz		20MHz			40MHz			80MHz			160MHz		
						0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs 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
	HT	VHT	HE	EHT																					
6	0	0	0	0	1	6.5	7.2	13.5	15	29.3	32.5	58.5	65	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3
9	1	1	1	1	1	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
12	2	2	2	2	1	19.5	21.7	40.5	45	87.8	97.5	175.5	195	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8
18	3	3	3	3	1	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
24	4	4	4	4	1	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
36	5	5	5	5	1	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
48	6	6	6	6	1	58.5	65	121.5	135	263.3	292.5	526.5	585	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3
54	7	7	7	7	1	65	72.2	135	150	292.5	325	585	650	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5
	8	8	8	8	1	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
	9	9	9	9	1	N/A	N/A	180	200	390	433.3	780	866.7	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7
					10	10	1							129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8
					11	11	1							143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8
					12	1								154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5
					13	1								172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225
6	8	0	0	0	2	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
9	9	1	1	1	2	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
12	10	2	2	2	2	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
18	11	3	3	3	2	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
24	12	4	4	4	2	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
36	13	5	5	5	2	104	115.6	216	240	468	520	936	1040	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980
48	14	6	6	6	2	117	130	243	270	526.5	585	1053	1170	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5
54	15	7	7	7	2	130	144.4	270	300	585	650	1170	1300	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225
	8	8	8	8	2	156	173.3	324	360	702	780	1404	1560	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470
	9	9	9	9	2	N/A	N/A	360	400	780	866.7	1560	1733.3	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3
					10	10	2							258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5
					11	11	2							286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7
					12	2								309.7	292.5	263.3	619.4	585	536.5	1297.1	1225	1102.5	2594.1	2450	2205
					13	2								344.1	325	292.5	688.2	650	585	1441.2	1361.1	1225	2882.4	2722.2	2450

Table 2-8. Supported Data Rates – OFDM

MCS Index	Spatial Stream	OFDM (802.11be)								
		80MHz			160MHz			160MHz		
		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
EHT										
0	1	25.8	24.4	21.9	53.2	50.3	45.3	61.8	58.4	52.6
1	1	51.6	48.8	43.9	106.5	100.6	90.5	123.7	116.8	105.1
2	1	77.4	73.1	65.8	159.7	150.8	135.8	185.5	175.2	157.7
3	1	103.2	97.5	87.8	212.9	201.1	181	247.4	233.6	210.3
4	1	154.9	146.3	131.6	319.4	301.7	271.5	371	350.4	315.4
5	1	206.5	195	175.5	425.9	402.2	362	494.7	467.2	420.5
6	1	232.3	219.4	197.4	479.1	452.5	407.3	556.5	525.6	473.1
7	1	258.1	243.8	219.4	532.4	502.8	452.5	618.4	584	525.6
8	1	309.7	292.5	263.3	638.8	603.3	543	742.1	700.8	630.8
9	1	344.1	325	292.5	709.8	670.4	603.3	824.5	778.7	700.8
10	1	387.1	365.6	329.1	798.5	754.2	678.8	927.6	876	788.4
11	1	430.1	406.3	365.6	887.3	838	754.2	1030.6	973.4	876
12	1	464.6	438.8	394.9	958.2	905	814.5	1113.1	1051.3	946.1
13	1	516.2	487.5	438.8	1064.7	1005.6	905	1236.8	1168.1	1051.3
0	2	51.6	48.8	43.9	106.5	100.6	90.5	123.7	116.8	105.1
1	2	103.2	97.5	87.8	212.9	201.1	181	247.4	233.6	210.3
2	2	154.9	146.3	131.6	319.4	301.7	271.5	371	350.4	315.4
3	2	206.5	195	175.5	425.9	402.2	362	494.7	467.2	420.5
4	2	309.7	292.5	263.3	638.8	603.3	543	742.1	700.8	630.8
5	2	412.9	390	351	851.8	804.4	724	989.4	934.4	841
6	2	464.6	438.8	394.9	958.2	905	814.5	1113.1	1051.3	946.1
7	2	516.2	487.5	438.8	1064.7	1005.6	905	1236.8	1168.1	1051.3
8	2	619.4	585	526.5	1277.6	1206.7	1086	1484.1	1401.7	1261.5
9	2	688.2	650	585	1419.6	1340.7	1206.7	1649	1557.4	1401.7
10	2	774.3	731.3	658.1	1597.1	1508.3	1357.5	1855.1	1752.1	1576.9
11	2	860.3	812.5	731.3	1774.5	1675.9	1508.3	2061.3	1946.8	1752.1
12	2	929.1	877.5	789.8	1916.5	1810	1629	2226.2	2102.5	1892.3
13	2	1032.4	975	877.5	2129.4	2011.1	1810	2473.5	2336.1	2102.5

Table 2-9. Supported Data Rates – OFDM Punctured

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MCS Index		Spatial Stream	OFDMA (802.11ax/be)																							
			26T						52T						106T						242T					
			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	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI
0	0	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	36	34	30.6	72.1	68.1	61.3	144.1	136.1	122.5
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	68.1	61.3	54.4	136.1	122.5	108.8	98.9	89.0	80.0
2	2	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	108.1	102.1	91.9	216.2	204.2	183.8	163.3	147.5	132.7
3	3	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	144.1	136.1	122.5	288.2	272.2	245	225.2	204.7	185.2
4	4	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	216.2	204.2	183.8	432.4	408.3	367.5	326.6	291.7	256.8
5	5	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	288.2	272.2	245	576.5	544.4	490	450.0	400.0	360.0
6	6	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	326.6	306.3	275.6	648.5	612.5	551.3	500.0	450.0	400.0
7	7	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	360.3	340.3	306.3	720.6	680.6	612.5	560.6	510.6	460.6
8	8	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	432.4	408.3	367.5	864.7	816.7	735	680.6	630.6	580.6
9	9	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	480.4	453.7	408.3	960.8	907.4	816.7	760.6	710.6	660.6
10	10	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	540.4	510.4	459.4	1080.9	1020.8	918.8	860.6	810.6	760.6
11	11	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	600.5	567.1	510.4	1201	1134.3	1020.8	960.6	910.6	860.6
12	12	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	648.5	612.5	551.3	1297.1	1225	1102.5	1040.6	980.6	920.6
13	13	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	720.6	680.6	612.5	1441.2	1361.1	1225	1160.6	1100.6	1040.6
0	0	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	72.1	68.1	61.3	144.1	136.1	122.5	108.8	98.9	89.0
1	1	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	144.1	136.1	122.5	288.2	272.2	245	225.2	204.7	185.2
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	216.2	204.2	183.8	432.4	408.3	367.5	326.6	291.7	256.8
3	3	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	288.2	272.2	245	576.5	544.4	490	450.0	400.0	360.0
4	4	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	432.4	408.3	367.5	864.7	816.7	735	680.6	630.6	580.6
5	5	2	14.1	13.3	12	28.2	26.7	24	60	56.7	51	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	989	920.6	860.6	810.6
6	6	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	648.5	612.5	551.3	1297.1	1225	1102.5	1040.6	980.6	920.6
7	7	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	720.6	680.6	612.5	1441.2	1361.1	1225	1160.6	1100.6	1040.6
8	8	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	1380.6	1290.6	1200.6
9	9	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	960.8	907.4	816.7	1921.6	1814.8	1633.3	1540.6	1450.6	1360.6
10	10	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	1080.9	1020.8	918.8	2161.8	2041.7	1837.5	1740.6	1650.6	1560.6
11	11	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	1201	1134.3	1020.8	2402	2268.5	2041.7	1950.6	1860.6	1770.6
12	12	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	1297.1	1225	1102.5	2594.1	2450	2205	2110.6	2020.6	1930.6
13	13	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	1441.2	1361.1	1225	2882.4	2722.2	2450	2360.6	2270.6	2180.6

Table 2-10. Supported Data Rates - OFDMA

MCS Index	Spatial Stream	OFDMA (802.11be)											
		52+26T			106+26T			484+242T			996+484T		
		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
EHT		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	1	2.6	2.5	2.3	4.6	4.4	3.9	25.8	24.4	21.9	53.2	50.3	45.3
1	1	5.3	5	4.5	9.3	8.8	7.9	51.6	48.8	43.9	106.5	100.6	90.5
2	1	7.9	7.5	6.8	13.9	13.1	11.8	77.4	73.1	65.8	159.7	150.8	135.8
3	1	10.6	10	9	18.5	17.5	15.8	103.2	97.5	87.8	212.9	201.1	181
4	1	15.9	15	13.5	27.8	26.3	23.6	154.9	146.3	131.6	319.4	301.7	271.5
5	1	21.2	20	18	37.1	35	31.5	206.5	195	175.5	425.9	402.2	362
6	1	23.8	22.5	20.3	41.7	39.4	35.4	232.3	219.4	197.4	479.1	452.5	407.3
7	1	26.5	25	22.5	46.3	43.8	39.4	258.1	243.8	219.4	532.4	502.8	452.5
8	1	31.8	30	27	55.6	52.5	47.3	309.7	292.5	263.3	638.8	603.3	543
9	1	35.3	33.3	30	61.8	58.3	52.5	344.1	325	292.5	709.8	670.4	603.3
10	1	39.7	37.5	33.8	69.5	65.6	59.1	387.1	365.6	329.1	798.5	754.2	678.8
11	1	44.1	41.7	37.5	77.2	72.9	65.6	430.1	406.3	365.6	887.3	838	754.2
12	1	47.6	45	40.5	83.4	78.8	70.9	464.6	438.8	394.9	958.2	905	814.5
13	1	52.9	50	45	92.6	87.5	78.8	516.2	487.5	438.8	1064.7	1005.6	905
0	2	5.3	5	4.5	9.3	8.8	7.9	51.6	48.8	43.9	106.5	100.6	90.5
1	2	10.6	10	9	18.5	17.5	15.8	103.2	97.5	87.8	212.9	201.1	181
2	2	15.9	15	13.5	27.8	26.3	23.6	154.9	146.3	131.6	319.4	301.7	271.5
3	2	21.2	20	18	37.1	35	31.5	206.5	195	175.5	425.9	402.2	362
4	2	31.8	30	27	55.6	52.5	47.3	309.7	292.5	263.3	638.8	603.3	543
5	2	42.4	40	36	74.1	70	63	412.9	390	351	851.8	804.4	724
6	2	47.6	45	40.5	83.4	78.8	70.9	464.6	438.8	394.9	958.2	905	814.5
7	2	52.9	50	45	92.6	87.5	78.8	516.2	487.5	438.8	1064.7	1006.5	905
8	2	63.5	60	54	111.2	105	94.5	619.4	585	526.5	1277.6	1206.7	1086
9	2	70.6	66.7	60	123.5	116.7	105	688.2	650	585	1419.6	1340.7	1206.7
10	2	79.4	75	67.5	139	131.3	118.1	774.3	731.3	658.1	1597.1	1508.3	1357.5
11	2	88.2	83.3	75	154.4	145.8	131.3	860.3	812.5	731.3	1774.5	1675.9	1508.3
12	2	95.3	90	81	166.8	157.5	141.8	929.1	877.5	789.8	1916.5	1810	1629
13	2	105.9	100	90	185.3	175	157.5	1032.4	975	877.5	2129.4	2011.1	1810

2.3 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)
5180 – 5240	6.07	5.48	8.61	5.60
5260 – 5320	5.62	6.45	8.14	5.21
5500 – 5720	6.29	7.44	9.62	6.64
5745 – 5825	6.71	7.58	9.92	6.94
5835 – 5885	6.68	6.72	9.53	6.52

Table 2-12. 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.

2.4 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.

2.5 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 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 7.6. 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 connection to an external antenna.

Conclusion:

The EUT 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 Budget

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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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	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
Anritsu	MT8862A	Wireless Connectivity Test Set	#N/A			6261782395
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

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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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

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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7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation
 FCC ID: C3K00002101
 IC: 3048A-00002101
 FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
N/A	RSS-Gen [6.6]	26dB Bandwidth	N/A	CONDUCTED	PASS	See Original Filing for Module
15.407(e)	RSS-247 [7.3.4.2]	6dB Bandwidth	>500kHz(5725-5850MHz and 5850 – 5895MHz)	CONDUCTED	PASS	See Original Filing for Module
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)	RSS-247 [7.3]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])	CONDUCTED	PASS	Section 7.2
15.407(a)(3)(iii)	RSS-247 [7.3]	Maximum e.i.r.p. (UNII-4, 5.85 – 5.895GHz)	< 30dBm	RADIATED/ CONDUCTED	PASS	Section 7.2
15.407(h)(1)	RSS-247 [7.3]	Transmit Power Control (TPC)	must meet the limits detailed in 15.407(h) (RSS-247 [7.3])	CONDUCTED	PASS	Section 7.3
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)/(iii)	RSS-247 [7.3]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) and RSS-247 [6.2] (UNII-1 through -3) <14dBm/MHz (UNII-4)	RADIATED	PASS	Section 7.4
15.407(h)	RSS-247 [7.3.6]	Dynamic Frequency Selection	See DFS Test Report	CONDUCTED	PASS	See DFS Test Report
15.407(b)(1) – (b)(5)	RSS-247 [7.3]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [7.3])	RADIATED/ CONDUCTED	PASS	Section 7.5
15.205, 15.407(b)(1) – (b)(5)	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])		PASS	Section 7.5
15.407	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	LINE CONDUCTED	PASS	Section 7.6

Table 7-1. Summary of Test Results

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: 1M2604150032-10-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 17 of 63

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. 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 "EMC Software Tool," Version 2.3.0.
- 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 1.5.0.

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: 1M2604150032-10-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 63

7.2 UNII Output Power Measurement

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies.

The output power limits are as specified in the tables below.

UNII Band	Frequency Range	Maximum Conducted Power Limit		Maximum e.i.r.p	
		FCC	ISED	FCC	ISED
UNII 1	5.15 – 5.25GHz	23.98dBm (250mW)	N/A	N/A	The lesser of 23.01dBm (200mW) or 10dBm + 10log ₁₀ B
UNII 2A	5.25 – 5.35GHz	The lesser of 23.98dBm (250mW) or 11dBm + 10log ₁₀ B		N/A	The lesser of 30dBm (1W) or 17dBm + 10log ₁₀ B
UNII 2C	5.47 – 5.725GHz				
UNII 3	5.725 – 5.850GHz	30dBm (1W)		N/A	N/A
UNII 4	5.850 – 5.895GHz	N/A		30dBm (1W)	

Test Procedure Used

ANSI C63.10:2020 – Section 12.4.3.2 Method PM-G

ANSI C63.10:2020 – Section 14.5.2.3 Measure-and-Sum Technique

Test Settings

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 diagram below.

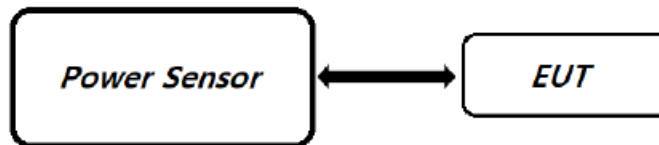


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. Limited Conducted Power measurements are performed to confirmed EUT transmitting as desired power
2. The powers listed in Tables 7-2 through 7-14, for UNII 1, are specifically for FCC. And Tables 7-15 through Table 7-25 list the UNII I Band powers for ISED.

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: 1M2604150032-10-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 63

MIMO Maximum Conducted Output Power Measurements

5GHz WIFI (20MHz 802.11a 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	14.11	13.89	17.01	23.98	-6.97	8.61	25.62	30.00	-4.38
	5200	40	13.92	14.09	17.02	23.98	-6.96	8.61	25.63	30.00	-4.37
	5220	44	13.92	14.08	17.01	23.98	-6.97	8.61	25.62	30.00	-4.38
	5240	48	13.90	14.08	17.00	23.98	-6.98	8.61	25.61	30.00	-4.39
UNII-2A	5260	52	16.45	16.58	19.53	23.98	-4.45	8.14	27.67	30.00	-2.33
	5280	56	16.43	16.54	19.50	23.98	-4.48	8.14	27.64	30.00	-2.36
	5300	60	16.50	16.51	19.52	23.98	-4.46	8.14	27.66	30.00	-2.34
	5320	64	16.01	15.99	19.01	23.98	-4.97	8.14	27.15	30.00	-2.85
UNII-2C	5500	100	14.79	14.94	17.88	23.98	-6.10	9.62	27.50	30.00	-2.50
	5600	120	14.28	14.38	17.34	23.98	-6.64	9.62	26.96	30.00	-3.04
	5700	140	14.60	14.82	17.72	23.98	-6.26	9.62	27.34	30.00	-2.66
	5720	144	15.20	15.34	18.28	23.98	-5.70	9.62	27.90	30.00	-2.10
UNII-3	5745	149	14.71	14.78	17.76	30.00	-12.24	9.92	27.68	36.00	-8.32
	5785	157	20.27	20.48	23.39	30.00	-6.61	9.92	33.31	36.00	-2.69
	5825	165	20.47	20.44	23.47	30.00	-6.53	9.92	33.39	36.00	-2.61
UNII-4	5845	169	13.47	13.39	16.44	-	-	9.53	25.97	30.00	-4.03
	5865	173	12.41	12.35	15.39	-	-	9.53	24.92	30.00	-5.08
	5885	177	12.52	12.46	15.50	-	-	9.53	25.03	30.00	-4.97

Table 7-2. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	13.85	13.94	16.91	23.98	-7.07	8.61	25.52	30.00	-4.48
	5200	40	13.83	13.93	16.89	23.98	-7.09	8.61	25.50	30.00	-4.50
	5220	44	13.92	13.83	16.89	23.98	-7.09	8.61	25.50	30.00	-4.50
	5240	48	13.80	13.87	16.85	23.98	-7.13	8.61	25.46	30.00	-4.54
UNII-2A	5260	52	16.36	16.43	19.41	23.98	-4.57	8.14	27.55	30.00	-2.45
	5280	56	16.38	16.32	19.36	23.98	-4.62	8.14	27.50	30.00	-2.50
	5300	60	16.40	16.34	19.38	23.98	-4.60	8.14	27.52	30.00	-2.48
	5320	64	15.38	15.29	18.35	23.98	-5.63	8.14	26.49	30.00	-3.51
UNII-2C	5500	100	14.66	14.77	17.73	23.98	-6.25	9.62	27.35	30.00	-2.65
	5600	120	14.09	14.21	17.16	23.98	-6.82	9.62	26.78	30.00	-3.22
	5620	124	14.02	14.26	17.15	23.98	-6.83	9.62	26.77	30.00	-3.23
	5700	140	14.37	14.65	17.52	23.98	-6.46	9.62	27.14	30.00	-2.86
UNII-3	5720	144	14.95	15.14	18.06	23.98	-5.92	9.62	27.68	30.00	-2.32
	5745	149	14.50	14.68	17.60	30.00	-12.40	9.92	27.52	36.00	-8.48
	5785	157	20.12	20.30	23.22	30.00	-6.78	9.92	33.14	36.00	-2.86
	5825	165	20.23	20.36	23.31	30.00	-6.69	9.92	33.23	36.00	-2.77
UNII-4	5845	169	13.25	13.23	16.25	-	-	9.53	25.78	30.00	-4.22
	5865	173	12.22	12.21	15.23	-	-	9.53	24.76	30.00	-5.24
	5885	177	12.33	12.32	15.34	-	-	9.53	24.87	30.00	-5.13

Table 7-3. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

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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5GHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	13.80	13.92	16.87	23.98	-7.11	8.61	25.48	30.00	-4.52
	5200	40	13.82	13.92	16.88	23.98	-7.10	8.61	25.49	30.00	-4.51
	5220	44	13.82	13.91	16.88	23.98	-7.10	8.61	25.49	30.00	-4.51
	5240	48	13.89	13.81	16.86	23.98	-7.12	8.61	25.47	30.00	-4.53
UNII-2A	5260	52	16.33	16.37	19.36	23.98	-4.62	8.14	27.50	30.00	-2.50
	5280	56	16.33	16.36	19.36	23.98	-4.62	8.14	27.50	30.00	-2.50
	5300	60	16.34	16.30	19.33	23.98	-4.65	8.14	27.47	30.00	-2.53
	5320	64	15.44	15.33	18.40	23.98	-5.58	8.14	26.54	30.00	-3.46
UNII-2C	5500	100	14.68	14.75	17.73	23.98	-6.25	9.62	27.35	30.00	-2.65
	5600	120	14.08	14.24	17.17	23.98	-6.81	9.62	26.79	30.00	-3.21
	5620	124	14.05	14.32	17.20	23.98	-6.78	9.62	26.82	30.00	-3.18
	5700	140	14.40	14.67	17.55	23.98	-6.43	9.62	27.17	30.00	-2.83
	5720	144	15.01	15.24	18.14	23.98	-5.84	9.62	27.76	30.00	-2.24
UNII-3	5745	149	14.50	14.70	17.61	30.00	-12.39	9.92	27.53	36.00	-8.47
	5785	157	20.17	20.32	23.26	30.00	-6.74	9.92	33.18	36.00	-2.82
	5825	165	20.26	20.32	23.30	30.00	-6.70	9.92	33.22	36.00	-2.78
UNII-4	5845	169	13.23	13.23	16.24	-	-	9.53	25.77	30.00	-4.23
	5865	173	12.20	12.22	15.22	-	-	9.53	24.75	30.00	-5.25
	5885	177	12.31	12.34	15.34	-	-	9.53	24.87	30.00	-5.13

Table 7-4. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	13.84	13.90	16.88	23.98	-7.10	8.61	25.49	30.00	-4.51
	5200	40	13.78	13.93	16.87	23.98	-7.11	8.61	25.48	30.00	-4.52
	5220	44	13.78	13.86	16.83	23.98	-7.15	8.61	25.44	30.00	-4.56
	5240	48	13.79	13.90	16.86	23.98	-7.12	8.61	25.47	30.00	-4.53
UNII-2A	5260	52	16.34	16.40	19.38	23.98	-4.60	8.14	27.52	30.00	-2.48
	5280	56	16.32	16.37	19.36	23.98	-4.62	8.14	27.50	30.00	-2.50
	5300	60	16.39	16.35	19.38	23.98	-4.60	8.14	27.52	30.00	-2.48
	5320	64	15.40	15.36	18.39	23.98	-5.59	8.14	26.53	30.00	-3.47
UNII-2C	5500	100	14.68	14.74	17.72	23.98	-6.26	9.62	27.34	30.00	-2.66
	5600	120	14.14	14.28	17.22	23.98	-6.76	9.62	26.84	30.00	-3.16
	5620	124	14.04	14.25	17.16	23.98	-6.82	9.62	26.78	30.00	-3.22
	5700	140	14.44	14.63	17.55	23.98	-6.43	9.62	27.17	30.00	-2.83
	5720	144	15.02	15.21	18.13	23.98	-5.85	9.62	27.75	30.00	-2.25
UNII-3	5745	149	14.66	14.84	17.76	30.00	-12.24	9.92	27.68	36.00	-8.32
	5785	157	20.30	20.41	23.37	30.00	-6.63	9.92	33.29	36.00	-2.71
	5825	165	20.49	20.43	23.47	30.00	-6.53	9.92	33.39	36.00	-2.61
UNII-4	5845	169	13.42	13.38	16.41	-	-	9.53	25.94	30.00	-4.06
	5865	173	12.33	12.27	15.31	-	-	9.53	24.84	30.00	-5.16
	5885	177	12.40	12.45	15.44	-	-	9.53	24.97	30.00	-5.03

Table 7-5. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	13.97	14.02	17.01	23.98	-6.97	8.61	25.62	30.00	-4.38
	5200	40	13.95	14.01	16.99	23.98	-6.99	8.61	25.60	30.00	-4.40
	5220	44	13.93	13.92	16.94	23.98	-7.04	8.61	25.55	30.00	-4.45
	5240	48	13.87	13.93	16.91	23.98	-7.07	8.61	25.52	30.00	-4.48
UNII-2A	5260	52	16.50	16.45	19.49	23.98	-4.49	8.14	27.63	30.00	-2.37
	5280	56	16.46	16.32	19.40	23.98	-4.58	8.14	27.54	30.00	-2.46
	5300	60	16.42	16.36	19.40	23.98	-4.58	8.14	27.54	30.00	-2.46
	5320	64	15.53	15.34	18.45	23.98	-5.53	8.14	26.59	30.00	-3.41
UNII-2C	5500	100	14.79	14.75	17.78	23.98	-6.20	9.62	27.40	30.00	-2.60
	5600	120	14.21	14.28	17.26	23.98	-6.72	9.62	26.88	30.00	-3.12
	5620	124	14.13	14.35	17.25	23.98	-6.73	9.62	26.87	30.00	-3.13
	5700	140	14.49	14.69	17.60	23.98	-6.38	9.62	27.22	30.00	-2.78
UNII-3	5720	144	15.16	15.24	18.21	23.98	-5.77	9.62	27.83	30.00	-2.17
	5745	149	14.58	14.77	17.69	30.00	-12.31	9.92	27.61	36.00	-8.39
	5785	157	20.26	20.42	23.35	30.00	-6.65	9.92	33.27	36.00	-2.73
	5825	165	20.46	20.41	23.45	30.00	-6.55	9.92	33.37	36.00	-2.63
UNII-4	5845	169	13.39	13.33	16.37	-	-	9.53	25.90	30.00	-4.10
	5865	173	12.38	12.27	15.34	-	-	9.53	24.87	30.00	-5.13
	5885	177	12.52	12.41	15.48	-	-	9.53	25.01	30.00	-4.99

Table 7-6. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power

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: 1M2604150032-10-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 21 of 63

5GHz WIFI (160MHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	9.77	9.91	12.85	23.98	-11.13	8.61	21.46	30.00	-8.54
UNII-2C	5570	114	7.15	7.11	10.14	23.98	-13.84	9.62	19.76	30.00	-10.24
UNII-3/4	5815	163	11.10	11.33	14.23	30.00	-15.77	9.92	24.15	30.00	-5.85

Table 7-7. MIMO 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	9.98	10.09	13.05	23.98	-10.93	8.61	21.66	30.00	-8.34
UNII-2C	5570	114	7.11	7.34	10.24	23.98	-13.74	9.62	19.86	30.00	-10.14
UNII-3/4	5815	163	11.27	11.49	14.39	30.00	-15.61	9.92	24.31	30.00	-5.69

Table 7-8. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	9.92	10.03	12.99	23.98	-10.99	8.61	21.60	30.00	-8.40
UNII-2C	5570	114	7.08	7.33	10.22	23.98	-13.76	9.62	19.84	30.00	-10.16
UNII-3/4	5815	163	11.22	11.44	14.34	30.00	-15.66	9.92	24.26	30.00	-5.74

Table 7-9. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)												Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index																	
				0			1			8											
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO									
1	5180	36	26T	6.98	6.84	9.92	6.56	5.85	9.23	6.47	5.89	9.20	23.98	-14.06	8.61	18.53	30.00	-11.47			
	5200	40	26T	6.97	6.87	9.93	6.55	5.82	9.21	6.98	6.88	9.94	23.98	-14.04	8.61	18.55	30.00	-11.45			
	5240	48	26T	6.96	6.94	9.91	6.97	6.35	9.68	6.97	6.85	9.92	23.98	-14.06	8.61	18.53	30.00	-11.47			
	5260	52	26T	8.38	8.36	11.38	8.91	8.92	11.93	8.39	8.36	11.39	23.98	-12.05	8.14	20.07	30.00	-9.93			
	5280	56	26T	8.37	8.34	11.37	8.89	8.84	11.88	8.37	8.34	11.37	23.98	-12.10	8.14	20.02	30.00	-9.98			
2A	5320	64	26T	8.36	8.31	11.35	8.84	8.79	11.83	8.35	8.32	11.35	23.98	-12.15	8.14	19.97	30.00	-10.03			
	5500	100	26T	8.17	8.34	11.27	8.05	8.33	11.20	8.17	8.29	11.24	23.98	-12.71	9.62	20.89	30.00	-9.11			
	5600	120	26T	7.74	7.92	10.84	7.80	7.91	10.87	7.58	7.80	10.70	23.98	-13.11	9.62	20.49	30.00	-9.51			
	5720	144	26T	8.41	8.45	11.44	8.31	8.39	11.36	8.33	8.47	11.41	23.98	-12.54	9.62	21.06	30.00	-8.94			
	5745	149	26T	15.88	15.98	18.94	15.73	15.90	18.83	15.28	15.40	18.35	30.00	-11.06	9.92	28.86	36.00	-7.14			
3	5785	157	26T	18.67	18.62	21.66	18.55	18.66	21.62	18.64	18.70	21.68	30.00	-8.92	9.92	31.60	36.00	-4.40			
	5825	165	26T	18.79	18.70	21.76	18.67	18.60	21.65	18.74	18.68	21.72	30.00	-8.24	9.92	31.68	36.00	-4.32			
	5845	169	26T	5.16	4.93	8.06	5.66	5.45	8.57	5.12	4.93	8.04	-	-	9.53	18.10	30.00	-11.90			
	5865	173	26T	5.16	4.95	8.07	5.67	5.41	8.55	5.15	4.91	8.04	-	-	9.53	18.08	30.00	-11.92			
	5885	177	26T	5.27	5.51	8.45	5.30	5.50	8.41	5.21	5.49	8.36	-	-	9.53	17.98	30.00	-12.02			

Table 7-10. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)												Conducted Power	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index																	
				37						40											
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5180	36	52T	9.02	9.32	12.18	8.80	8.91	11.87	9.04	9.28	12.17	23.98	-11.80	8.61	20.79	30.00	-9.21			
	5200	40	52T	9.01	9.28	12.16	8.78	8.91	11.86	9.01	9.26	12.15	23.98	-11.82	8.61	20.77	30.00	-9.23			
	5240	48	52T	9.00	9.28	12.15	8.74	8.92	11.84	9.03	9.24	12.15	23.98	-11.83	8.61	20.76	30.00	-9.24			
	5260	52	52T	11.68	11.70	14.70	11.61	11.54	14.59	11.70	11.67	14.70	23.98	-9.28	8.14	22.84	30.00	-7.16			
	5280	56	52T	11.68	11.69	14.70	11.59	11.50	14.56	11.66	11.65	14.67	23.98	-9.28	8.14	22.84	30.00	-7.16			
2A	5320	64	52T	11.71	11.70	14.72	11.55	11.46	14.52	11.67	11.65	14.66	23.98	-9.26	8.14	22.86	30.00	-7.14			
	5500	100	52T	9.49	9.70	12.61	9.36	9.41	12.35	9.43	9.62	12.54	23.98	-11.37	9.62	22.23	30.00	-7.77			
	5600	120	52T	9.62	9.72	12.68	9.86	9.96	12.92	9.46	9.59	12.54	23.98	-11.06	9.62	22.54	30.00	-7.46			
	5700	140	52T	10.18	10.33	13.46	9.92	10.24	13.09	10.06	10.45	13.27	23.98	-10.65	9.62	22.95	30.00	-7.05			
	5720	144	52T	11.01	11.08	14.06	11.30	11.42	14.37	10.91	11.11	14.02	23.98	-9.61	9.62	23.99	30.00	-6.01			
3	5745	149	52T	15.45	15.56	18.52	15.73	15.84	18.80	15.41	15.58	18.51	30.00	-11.20	9.92	28.72	36.00	-7.28			
	5785	157	52T	18.75	18.73	21.68	18.91	18.95	21.94	18.76	18.74	21.76	30.00	-8.06	9.92	31.86	36.00	-4.14			
	5825	165	52T	18.95	18.77	21.87	18.60	18.46	21.54	18.87	18.78	21.84	30.00	-8.13	9.92	31.79	36.00	-4.21			
	5845	169	52T	8.88	8.71	11.81	8.57	8.42	11.51	8.80	8.67	11.75	-	-	9.53	21.34	30.00	-8.66			
	5865	173	52T	8.27	8.05	11.17	7.99	7.79	10.90	8.19	8.03	11.12	-	-	9.53	20.70	30.00	-9.30			
4	5885	177	52T	8.89	8.69	11.80	8.57	8.51	11.55	8.81	8.64	11.74	-	-	9.53	21.33	30.00	-8.67			

Table 7-11. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)												Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index																	
				53						54											
	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO		ANT1	ANT2	MIMO											
1	5180	36	106T	12.22	12.39	15.32	12.40	12.25	15.34	23.98	-8.64	8.61	23.95	30.00	-6.05						
	5200	40	106T	12.25	12.33	15.30	12.21	12.36	15.30	23.98	-8.68	8.61	23.91	30.00	-6.09						
	5240	48	106T	12.21	12.31	15.27	12.20	12.32	15.27	23.98	-8.71	8.61	23.88	30.00	-6.12						
	5260	52	106T	14.81	14.78	17.81	14.80	14.81	17.81	23.98	-6.17	8.14	25.95	30.00	-4.05						
	5280	56	106T	14.79	14.73	17.77	14.77	14.72	17.76	23.98	-6.21	8.14	25.91	30.00	-4.09						
2A	5320	64	106T	14.93	14.89	17.92	14.86	14.88	17.88	23.98	-6.06	8.14	26.06	30.00	-3.94						
	5500	100	106T	12.72	12.85	15.80	12.69	12.81	15.76	23.98	-8.18	9.62	25.42	30.00	-4.58						
	5600	120	106T	12.13	12.25	15.20	12.02	12.23	15.14	23.98	-8.78	9.62	24.82	30.00	-5.18						
	5700	140	106T	12.45	12.61	15.54	12.36	12.68	15.53	23.98	-8.44	9.62	25.16	30.00	-4.84						
	5720	144	106T	14.13	14.27	17.21	14.05	14.27	17.17	23.98	-6.77	9.62	26.83	30.00	-3.17						
3	5745	149	106T	15.58	15.71	18.66	15.52	15.66	18.60	30.00	-11.34	9.92	28.58	36.00	-7.42						
	5785	157	106T	18.67	18.83	21.86	18.79	18.83	21.82	30.00	-8.14	9.92	31.78	36.00	-4.22						
	5825	165	106T	18.96	18.83	21.91	18.95	18.85	21.92	30.00	-8.07	9.92	31.75	36.00	-4.15						
	5845	169	106T	11.47	11.43	14.41	11.48	11.32	14.41	23.98	-9.53	9.53	23.90	30.00	-6.06						
	5865	173	106T	11.06	10.72	13.90	11.46	11.25	14.37	-	-	9.53	23.90	30.00	-6.10						
4	5885	177	106T	11.16	10.89	14.04	11.06	10.84	13.96	-	-	9.53	23.57	30.00	-6.43						

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index								
				61								
				ANT1	ANT2	MIMO						
1	5180	36	242T	15.15	15.25	18.21	23.98	-5.77	8.61	26.82	30.00	-3.18
	5200	40	242T	16.14	16.31	19.24	23.98	-4.74	8.61	27.85	30.00	-2.15
	5240	48	242T	16.16	16.26	19.22	23.98	-4.76	8.61	27.83	30.00	-2.17
2A	5260	52	242T	16.25	16.28	19.28	23.98	-4.70	8.14	27.42	30.00	-2.58
	5280	56	242T	16.18	16.26	19.23	23.98	-4.75	8.14	27.37	30.00	-2.63
	5320	64	242T	16.39	16.28	19.35	23.98	-4.63	8.14	27.49	30.00	-2.51
2C	5500	100	242T	16.21	16.27	19.25	23.98	-4.73	9.62	28.87	30.00	-1.13
	5600	120	242T	15.56	15.59	18.59	23.98	-5.39	9.62	28.21	30.00	-1.79
	5720	144	242T	16.03	16.13	19.09	23.98	-4.89	9.62	28.71	30.00	-1.29
3	5745	149	242T	15.50	15.62	18.57	30.00	-11.43	9.92	28.49	36.00	-7.51
	5785	157	242T	20.65	20.64	23.66	30.00	-6.34	9.92	33.58	36.00	-2.42
	5825	165	242T	20.76	20.71	23.75	30.00	-6.25	9.92	33.67	36.00	-2.33
4	5845	169	242T	15.36	15.10	18.24	-	-	9.53	27.77	30.00	-2.23
	5865	173	242T	13.85	13.62	16.75	-	-	9.53	26.28	30.00	-3.72
	5885	177	242T	13.95	13.84	16.91	-	-	9.53	26.44	30.00	-3.56

Table 7-13. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index								
				68								
				ANT1	ANT2	MIMO						
1/2A	5250	50	2x996T	11.75	11.78	14.78	23.98	-9.20	8.61	23.39	30.00	-6.61
2C	5570	114	2x996T	9.72	9.96	12.85	23.98	-11.13	9.62	22.47	30.00	-7.53
3/4	5815	163	2x996T	15.80	15.72	18.77	-	-	9.53	28.30	30.00	-1.70

Table 7-14. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (2*996 Tones)

5GHz WIFI (20MHz 802.11a MIMO)											
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]			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]
			ANT1	ANT2	MIMO						
UNII-1	5180	36	8.57	8.60	11.60	23.98	-12.38	8.61	20.21	23.01	-2.80
	5200	40	8.58	8.59	11.59	23.98	-12.39	8.61	20.20	23.01	-2.81
	5220	44	8.59	8.58	11.60	23.98	-12.38	8.61	20.21	23.01	-2.80
	5240	48	8.56	8.57	11.58	23.98	-12.40	8.61	20.19	23.01	-2.82

Table 7-15. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power – ISSED BAND 1

5GHz WIFI (20MHz 802.11n MIMO)											
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]			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]
			ANT1	ANT2	MIMO						
UNII-1	5180	36	8.71	8.61	11.67	23.98	-12.31	8.61	20.28	23.01	-2.73
	5200	40	8.68	8.61	11.66	23.98	-12.32	8.61	20.27	23.01	-2.74
	5220	44	8.64	8.58	11.62	23.98	-12.36	8.61	20.23	23.01	-2.78
	5240	48	8.58	8.56	11.58	23.98	-12.40	8.61	20.19	23.01	-2.82

Table 7-16. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power – ISSED BAND 1

5GHz WIFI (20MHz 802.11ac MIMO)											
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]			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]
			ANT1	ANT2	MIMO						
UNII-1	5180	36	8.69	8.64	11.68	23.98	-12.30	8.61	20.29	23.01	-2.72
	5200	40	8.65	8.61	11.64	23.98	-12.34	8.61	20.25	23.01	-2.76
	5220	44	8.63	8.60	11.63	23.98	-12.35	8.61	20.24	23.01	-2.77
	5240	48	8.62	8.54	11.59	23.98	-12.39	8.61	20.20	23.01	-2.81

Table 7-17. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power – ISSED BAND 1

5GHz WIFI (20MHz 802.11ax MIMO)											
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]			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]
			ANT1	ANT2	MIMO						
UNII-1	5180	36	8.80	8.76	11.79	23.98	-12.19	8.61	20.40	23.01	-2.61
	5200	40	8.64	8.61	11.63	23.98	-12.35	8.61	20.24	23.01	-2.77
	5220	44	8.66	8.58	11.63	23.98	-12.35	8.61	20.24	23.01	-2.77
	5240	48	8.71	8.61	11.67	23.98	-12.31	8.61	20.28	23.01	-2.73

Table 7-18. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power – ISSED BAND 1

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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5GHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	8.70	8.61	11.67	23.98	-12.31	8.61	20.28	23.01	-2.73
	5200	40	8.69	8.61	11.66	23.98	-12.32	8.61	20.27	23.01	-2.74
	5220	44	8.63	8.57	11.61	23.98	-12.37	8.61	20.22	23.01	-2.79
	5240	48	8.63	8.54	11.59	23.98	-12.39	8.61	20.20	23.01	-2.81

Table 7-19. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power – ISSED BAND 1

5GHz WIFI (160MHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	10.85	10.89	13.88	23.98	-10.10	8.61	22.49	23.01	-0.52

Table 7-20. MIMO 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power – ISSED BAND 1

5GHz WIFI (160MHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	10.72	10.77	13.76	23.98	-10.22	8.61	22.37	23.01	-0.64

Table 7-21. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power – ISSED BAND 1

5GHz WIFI (160MHz 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]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	10.60	10.74	13.68	23.98	-10.30	8.61	22.29	23.01	-0.72

Table 7-22. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – ISSED BAND 1

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dB]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index														
				0			4			8								
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5180	36	26T	1.46	-0.78	1.90	-0.97	-0.34	2.37	-1.36	-0.88	1.90	23.98	-21.61	8.61	10.98	23.01	-12.03
	5200	40	26T	1.40	-0.86	1.89	-0.91	-0.45	2.34	-1.26	-0.88	1.94	23.98	-21.64	8.61	10.95	23.01	-12.06
	5220	44	26T	1.46	-0.78	1.90	-0.97	-0.34	2.37	-1.36	-0.88	1.90	23.98	-21.61	8.61	10.98	23.01	-12.03
	5240	48	26T	1.84	-1.34	1.43	-1.33	-0.83	1.94	-1.83	-1.38	1.42	23.98	-22.04	8.61	10.55	23.01	-12.46

Table 7-23. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones) – ISSED BAND 1

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index								
				61								
				ANT1	ANT2	MIMO						
1	5180	36	242T	9.47	9.47	12.48	23.98	-11.50	8.61	21.09	23.01	-1.92
	5200	40	242T	9.44	9.44	12.45	23.98	-11.53	8.61	21.06	23.01	-1.95
	5240	48	242T	9.42	9.34	12.39	23.98	-11.59	8.61	21.00	23.01	-2.01

Table 7-24. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones) – ISSED BAND 1

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index								
				68								
				ANT1	ANT2	MIMO						
1/2A	5250	50	2x996T	10.83	10.72	13.79	23.98	-10.19	8.61	22.40	23.01	-0.61

Table 7-25. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (2*996 Tones) – ISSED BAND 1

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Bandwidth	Mode	Channel	Frequency	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	a	36	5180	H	287	158	8.81	5.95	14.76	0.030	23.01	-8.25
	a	40	5200	H	294	157	8.80	6.05	14.85	0.031	23.01	-8.16
	a	44	5220	H	301	154	8.83	6.06	14.89	0.031	23.01	-8.12
	a	48	5240	H	308	156	8.85	6.17	15.02	0.032	23.01	-7.99
	n	36	5180	H	287	158	8.81	5.96	14.77	0.030	23.01	-8.24
	n	40	5200	H	294	157	8.80	5.45	14.25	0.027	23.01	-8.76
	n	44	5220	H	301	154	8.83	5.66	14.49	0.028	23.01	-8.52
	n	48	5240	H	308	156	8.85	5.69	14.54	0.028	23.01	-8.47
	ac	36	5180	H	287	158	8.81	5.72	14.53	0.028	23.01	-8.48
	ac	40	5200	H	294	157	8.80	5.80	14.60	0.029	23.01	-8.41
	ac	44	5220	H	301	154	8.83	5.94	14.77	0.030	23.01	-8.24
	ac	48	5240	H	308	156	8.85	5.93	14.78	0.030	23.01	-8.23
	ax SU	36	5180	H	287	158	8.81	5.74	14.55	0.029	23.01	-8.46
	ax SU	40	5200	H	294	157	8.80	5.82	14.62	0.029	23.01	-8.39
	ax SU	44	5220	H	301	154	8.83	6.00	14.83	0.030	23.01	-8.18
	ax SU	48	5240	H	308	156	8.85	6.10	14.95	0.031	23.01	-8.06
40MHz	be SU	36	5180	H	287	158	8.81	5.75	14.56	0.029	23.01	-8.45
	be SU	40	5200	H	294	157	8.80	5.90	14.70	0.030	23.01	-8.31
	be SU	44	5220	H	301	154	8.83	5.98	14.81	0.030	23.01	-8.20
	be SU	48	5240	H	308	156	8.85	6.07	14.92	0.031	23.01	-8.09
	n	38	5190	H	305	159	8.81	7.69	16.50	0.045	23.01	-6.51
	n	46	5230	H	312	158	8.84	7.39	16.23	0.042	23.01	-6.78
	ac	38	5190	H	305	159	8.81	7.26	16.07	0.040	23.01	-6.94
	ac	46	5230	H	312	158	8.84	7.22	16.06	0.040	23.01	-6.95
80MHz	ax SU	38	5190	H	305	159	8.81	7.29	16.10	0.041	23.01	-6.91
	ax SU	46	5230	H	312	158	8.84	7.27	16.11	0.041	23.01	-6.90
	be SU	38	5190	H	305	159	8.81	7.30	16.11	0.041	23.01	-6.90
	be SU	46	5230	H	312	158	8.84	7.27	16.11	0.041	23.01	-6.90
160MHz	ac	42	5210	H	302	155	8.82	9.37	18.19	0.066	23.01	-4.82
	ax SU	42	5210	H	302	155	8.82	9.48	18.30	0.068	23.01	-4.71
	be SU	42	5210	H	302	155	8.82	9.42	18.24	0.07	23.01	-4.77
	ac	50	5250	H	306	156	8.87	8.61	17.48	0.06	23.01	-5.53
160MHz	ax SU	50	5250	H	306	156	8.87	8.73	17.60	0.06	23.01	-5.41
	be SU	50	5250	H	306	156	8.87	8.76	17.63	0.06	23.01	-5.38

Table 7-26. Bands 1 Radiated Power Measurements – OFDM

Bandwidth	Mode	Channel	Tones	Frequency	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	be RU	36	26T / RU 0	5180	H	316	159	8.81	-1.72	7.09	0.005	23.01	-15.92
	be RU	36	26T / RU 4	5180	H	316	159	8.80	-1.33	7.47	0.006	23.01	-15.54
	be RU	36	26T / RU 8	5180	H	316	159	8.85	-1.67	7.18	0.005	23.01	-15.83
	be RU	40	26T / RU 0	5200	H	313	156	8.81	-1.27	7.54	0.006	23.01	-15.47
	be RU	40	26T / RU 4	5200	H	313	156	8.80	-0.60	8.20	0.007	23.01	-14.81
	be RU	40	26T / RU 8	5200	H	313	156	8.85	-1.21	7.64	0.006	23.01	-15.37
	be RU	48	26T / RU 0	5240	H	317	159	8.81	-1.78	7.03	0.005	23.01	-15.98
	be RU	48	26T / RU 4	5240	H	317	159	8.80	-1.61	7.19	0.005	23.01	-15.82
20 MHz	be RU	48	26T / RU 8	5240	H	317	159	8.85	-2.14	6.71	0.005	23.01	-16.30

Table 7-27. Bands 1 Radiated Power Measurements – OFDMA (26 Tones)

Bandwidth	Mode	Channel	Tones	Frequency	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	be RU	36	242T / RU 61	5180	H	316	159	8.81	6.76	15.57	0.036	23.01	-7.44
	be RU	40	242T / RU 61	5200	H	316	159	8.80	6.92	15.72	0.037	23.01	-7.29
	be RU	48	242T / RU 61	5240	H	316	159	8.85	6.85	15.70	0.037	23.01	-7.31
40 MHz	be RU	38	484T / RU 65	5190	H	313	156	8.81	7.67	16.48	0.045	23.01	-6.53
	be RU	46	484T / RU 65	5230	H	313	156	8.80	7.96	16.76	0.047	23.01	-6.25
80 MHz	be RU	42	996T / RU 67	5210	H	313	156	8.85	8.31	17.16	0.052	23.01	-5.85
160 MHz	be RU	50	2x996T / RU 68	5250	H	317	159	8.81	10.46	19.27	0.085	23.01	-3.74

Table 7-28. Bands 1 Radiated Power Measurements – OFDMA (Full Tones)

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7.3 Transmit Power Control (TPC)

Test Overview and Limits

U-NII devices operating in the 5.25–5.35 GHz and 5.47–5.725 GHz frequency bands are required to implement a Transmit Power Control (TPC) mechanism.

The output power limits are as specified in the tables below.

FCC § 15.407(h)(1)

Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

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Frequency band 5250-5350 MHz - the maximum conducted output power shall not exceed the lesser of: 250 mW; or $11 + 10 \log_{10} B$, dBm. the maximum e.i.r.p. shall not exceed the lesser of: 1.0 W; or $17 + 10 \log_{10} B$, dBm. Devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Frequency band 5470-5725 MHz & 5725-5850 MHz - the maximum conducted output power shall not exceed the lesser of: 250 mW; or $11 + 10 \log_{10} B$, dBm. the maximum e.i.r.p. shall not exceed the lesser of: 1.0 W; or $17 + 10 \log_{10} B$, dBm. equipment with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Test Settings

Average power measurements were performed only when the EUT was transmitting at its reduced power using wireless connectivity test set. 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 diagram below.



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

Limited Conducted Power measurements are performed to confirm EUT transmitting reduced power as TPC mechanism implemented

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5GHz WIFI (20MHz 802.11a MIMO)					Conducted Power Limit [dBm]	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]
Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
		ANT1	ANT2	MIMO						
5320	64	-0.84	-0.37	2.41	23.98	-21.57	8.14	10.55	24.00	-13.45
5500	100	-1.52	-0.53	2.01	23.98	-21.97	9.62	11.63	24.00	-12.37
5700	140	-1.64	-0.62	1.91	30.00	-28.09	9.92	11.83	24.00	-12.17

Table 7-29. MIMO 20MHz BW 802.11a (UNII) Reduced Conducted Output Power – TPC

5GHz WIFI (20MHz 802.11n MIMO)					Conducted Power Limit [dBm]	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]
Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
		ANT1	ANT2	MIMO						
5320	64	-0.79	0.32	2.81	23.98	-21.17	8.14	10.95	24.00	-13.05
5500	100	-1.47	-0.47	2.07	23.98	-21.91	9.62	11.69	24.00	-12.31
5700	140	-1.52	-0.60	1.97	30.00	-28.03	9.92	11.89	24.00	-12.11

Table 7-30. MIMO 20MHz BW 802.11n (UNII) Reduced Conducted Output Power – TPC

5GHz WIFI (20MHz 802.11ac MIMO)					Conducted Power Limit [dBm]	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]
Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
		ANT1	ANT2	MIMO						
5320	64	-1.13	0.04	2.50	23.98	-21.48	8.14	10.64	24.00	-13.36
5500	100	-1.80	-0.78	1.75	23.98	-22.23	9.62	11.37	24.00	-12.63
5700	140	-1.85	-0.91	1.66	30.00	-28.34	9.92	11.58	24.00	-12.42

Table 7-31. MIMO 20MHz BW 802.11ac (UNII) Reduced Conducted Output Power – TPC

5GHz WIFI (40MHz 802.11n MIMO)					Conducted Power Limit [dBm]	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]
Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
		ANT1	ANT2	MIMO						
5310	62	-1.47	-0.39	2.11	23.98	-21.87	8.14	10.25	24.00	-13.75
5510	102	-1.64	-0.73	1.85	23.98	-22.13	9.62	11.47	24.00	-12.53
5670	134	-1.88	-0.40	1.93	30.00	-28.07	9.92	11.85	24.00	-12.15

Table 7-32. MIMO 40MHz BW 802.11n (UNII) Reduced Conducted Output Power – TPC

5GHz WIFI (40MHz 802.11ac MIMO)					Conducted Power Limit [dBm]	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]
Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
		ANT1	ANT2	MIMO						
5310	62	-1.66	-0.75	1.83	23.98	-22.15	8.14	9.97	24.00	-14.03
5510	102	-1.86	-1.04	1.58	23.98	-22.40	9.62	11.20	24.00	-12.80
5670	134	-1.86	-1.20	1.49	30.00	-28.51	9.92	11.41	24.00	-12.59

Table 7-33. MIMO 40MHz BW 802.11ac (UNII) Reduced Conducted Output Power – TPC

5GHz WIFI (80MHz 802.11ac MIMO)					Conducted Power Limit [dBm]	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]
Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
		ANT1	ANT2	MIMO						
5290	58	-1.46	-0.26	2.19	23.98	-21.79	8.14	10.33	24.00	-13.67
5530	106	-1.85	-1.03	1.59	23.98	-22.39	9.62	11.21	24.00	-12.79
5610	122	-1.85	-1.42	1.38	30.00	-28.62	9.92	11.30	24.00	-12.70

Table 7-34. MIMO 80MHz BW 802.11ac (UNII) Reduced Conducted Output Power – TPC

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Note:

Per ANSI C63.10:2020, 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.

Per ANSI C63.10:2020 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample MIMO Calculation:

At 5320MHz in 802.11a (20MHz BW) mode, the average conducted output power was measured to be -0.84 dBm for Antenna 1 and -0.37 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(-0.84 \text{ dBm} + -0.37 \text{ dBm}) = (0.824 \text{ mW} + 0.918 \text{ mW}) = 1.742 \text{ mW} = 2.41 \text{ dBm}$$

Sample e.i.r.p Calculation:

At 5320MHz in 802.11a (20MHz BW) mode, the average MIMO conducted power was calculated to be 2.41 dBm with antenna gain of 8.14 dBi.

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

$$2.41 \text{ dBm} + 8.14 \text{ dBi} = 10.55 \text{ dBm}$$

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7.4 Maximum Power Spectral Density

Test Overview and Limit

All radiated Maximum Power Spectral Density are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. All channels, modes, and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

The output power density limits are as specified in the tables below.

UNII Band	Frequency Range	Maximum Power Limit
		ISED
UNII 1	5.15 – 5.25GHz	10dBm/MHz e.i.r.p

Test Procedure Used

ANSI C63.10:2020 – Section 14.5.2.3 Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span}/\text{RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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

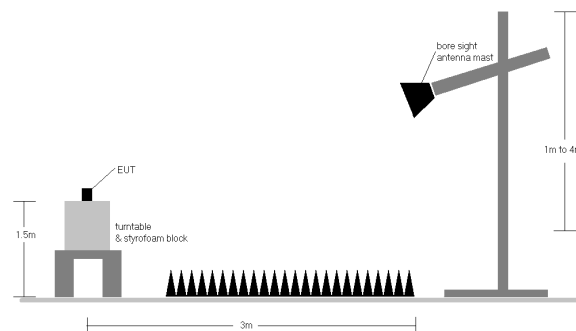


Figure 7-3. Radiated Test Setup > 1GHz

Test Notes

None

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Summed MIMO Power Spectral Density Measurements

Frequency [MHz]	Channel	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	EIRP PSD [dBm]	Max PSD [dBm]	Margin [dB]
5180.00	36	a	H	313	157	-18.96	13.16	5.94	10.00	-4.06
5200.00	40	a	H	319	157	-18.85	13.24	6.13	10.00	-3.87
5240.00	48	a	H	331	156	-18.46	13.20	6.48	10.00	-3.52
5180.00	36	n	H	313	157	-18.91	13.16	5.99	10.00	-4.01
5200.00	40	n	H	319	157	-18.76	13.24	6.22	10.00	-3.78
5240.00	48	n	H	331	156	-18.54	13.20	6.40	10.00	-3.60
5180.00	36	be SU	H	313	157	-22.07	13.16	2.83	10.00	-7.17
5200.00	40	be SU	H	319	157	-21.89	13.24	3.09	10.00	-6.91
5240.00	48	be SU	H	331	156	-21.46	13.20	3.48	10.00	-6.52
5190.00	38	n	H	331	160	-20.59	13.24	4.39	10.00	-5.61
5230.00	46	n	H	334	156	-20.27	13.24	4.71	10.00	-5.29
5190.00	38	be SU	H	331	160	-23.62	13.24	1.36	10.00	-8.64
5230.00	46	be SU	H	334	156	-23.22	13.24	1.76	10.00	-8.24
5210.00	42	ac	H	336	150	-23.96	13.24	1.02	10.00	-8.98
5210.00	42	ax SU	H	336	150	-24.12	13.24	0.86	10.00	-9.14
5210.00	42	be SU	H	336	150	-24.28	13.24	0.70	10.00	-9.30
5250.00	50	ac	H	329	158	-26.65	13.21	-1.70	10.00	-11.70
5250.00	50	ax SU	H	329	158	-26.91	13.21	-1.96	10.00	-11.96
5250.00	50	be SU	H	329	158	-26.79	13.21	-1.84	10.00	-11.84

Table 7-35. Bands 1 Radiated Power Spectral Density Measurements – OFDM

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Frequency [MHz]	Channel	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	EIRP PSD [dBm]	Max PSD [dBm]	Margin [dB]
5180	36	be RU	H	323	158	-20.07	13.16	4.83	10.00	-5.17
5200	40	be RU	H	330	159	-19.76	13.24	5.22	10.00	-4.78
5240	48	be RU	H	330	158	-20.14	13.20	4.80	10.00	-5.20
5190	38	be RU	H	345	157	-19.70	13.24	5.28	10.00	-4.72
5230	46	be RU	H	355	158	-19.41	13.24	5.57	10.00	-4.43
5210	42	be RU	H	355	161	-20.14	13.24	4.84	10.00	-5.16
5250	50	be RU	H	351	160	-20.58	13.21	4.37	10.00	-5.63

Table 7-36. Bands 1 Radiated Power Spectral Density Measurements – OFDMA (26 Tones)

Frequency [MHz]	Channel	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	EIRP PSD [dBm]	Max PSD [dBm]	Margin [dB]
5180	36	be RU	H	333	155	-20.60	13.16	4.30	10.00	-5.70
5200	40	be RU	H	340	157	-20.53	13.24	4.45	10.00	-5.55
5240	48	be RU	H	330	154	-20.47	13.20	4.47	10.00	-5.53
5190	38	be RU	H	328	159	-20.92	13.24	4.06	10.00	-5.94
5230	46	be RU	H	322	157	-20.74	13.24	4.24	10.00	-5.76
5210	42	be RU	H	319	158	-22.64	13.24	2.34	10.00	-7.66
5250	50	be RU	H	318	154	-22.98	13.21	1.97	10.00	-8.03

Table 7-37. Bands 1 Radiated Power Spectral Density Measurements – OFDMA (Full Tones)

Sample e.i.r.p Power Spectral Density Calculation

$E_{[dB\mu V/m]} = \text{Measured amplitude level}_{[dBm]} + 107 + \text{Cable Loss}_{[dB]} + \text{Antenna Factor}_{[dB/m]}$

$e.i.r.p. \text{ PSD}_{[dBm]} = E_{[dB\mu V/m]} + 20\log D - 104.8$; where D is the measurement distance in meters.

$E_{[dB\mu V/m]} = -18.96\text{dBm} + 107 + 13.16\text{dB/m} = 101.2\text{dBuV/m}$

$e.i.r.p. \text{ PSD}_{[dBm]} = 101.2\text{dBuV/m} + 20\log(3) - 104.8 = 5.942\text{dBm}$

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7.5 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 its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. All channels, modes, and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For transmitters operating in the 5.850 – 5.895 GHz band: all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of -5dBm/MHz and shall decrease linearly up to an e.i.r.p. of -27dBm/MHz at or above 5.925GHz, and all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27dBm/MHz at 5.65 GHz increasing linearly to 10dBm/MHz at 5.7GHz and from 5.7GHz increasing linearly to a level of 15.6dBm/MHz at 5.72GHz, and from 5.72GHz increasing linearly to a level of 27dBm/MHz at 5.725GHz.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in the table below per 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 7-38. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Sections 12.7.7.2, 12.7.6, 12.7.5 (Radiated Spurious Emissions)

ANSI C63.10:2020 – Section 12.7.4.4 (Band Edge Measurements)

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Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

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 $\geq 2 \times \text{span}/\text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

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.

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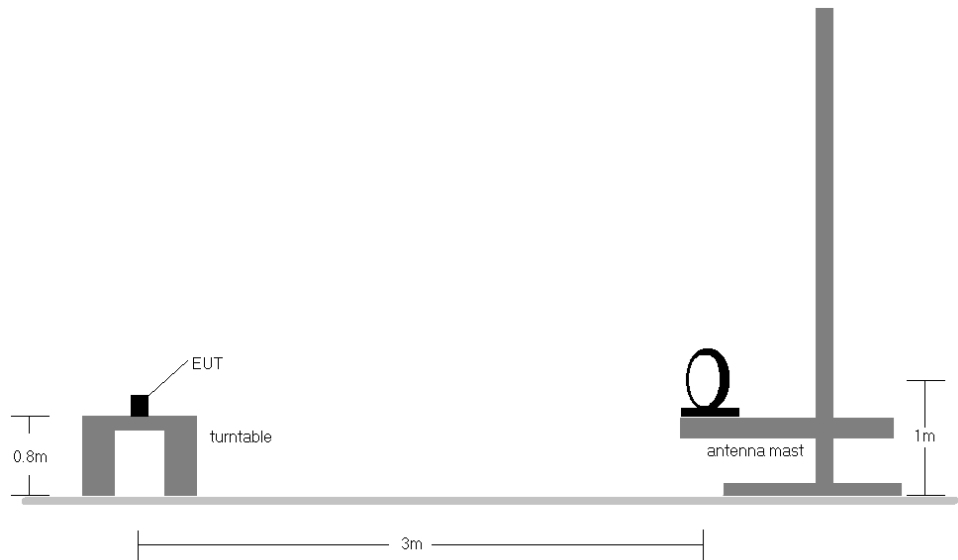


Figure 7-4. Radiated Test Setup < 30MHz

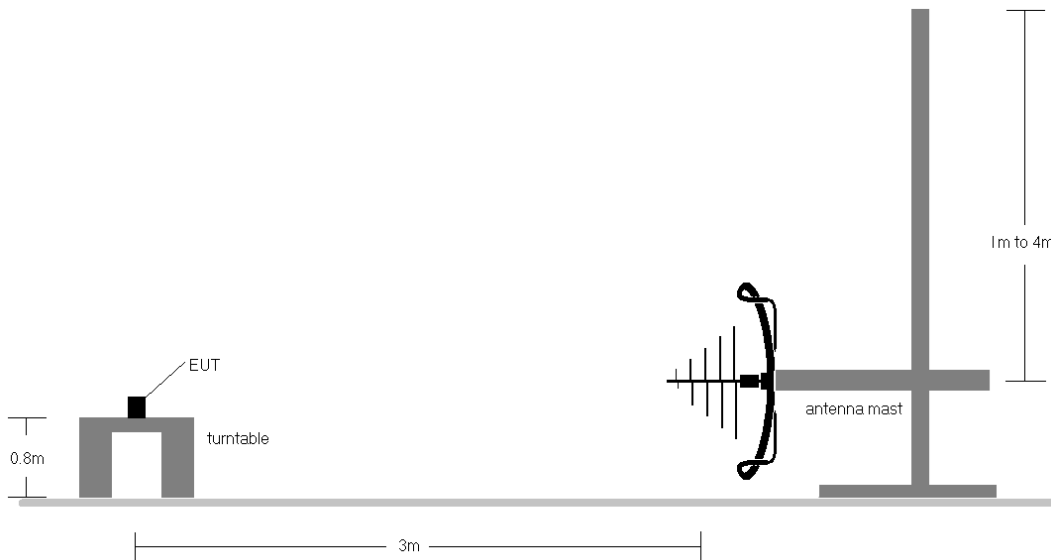


Figure 7-5. Radiated Test Setup < 1GHz

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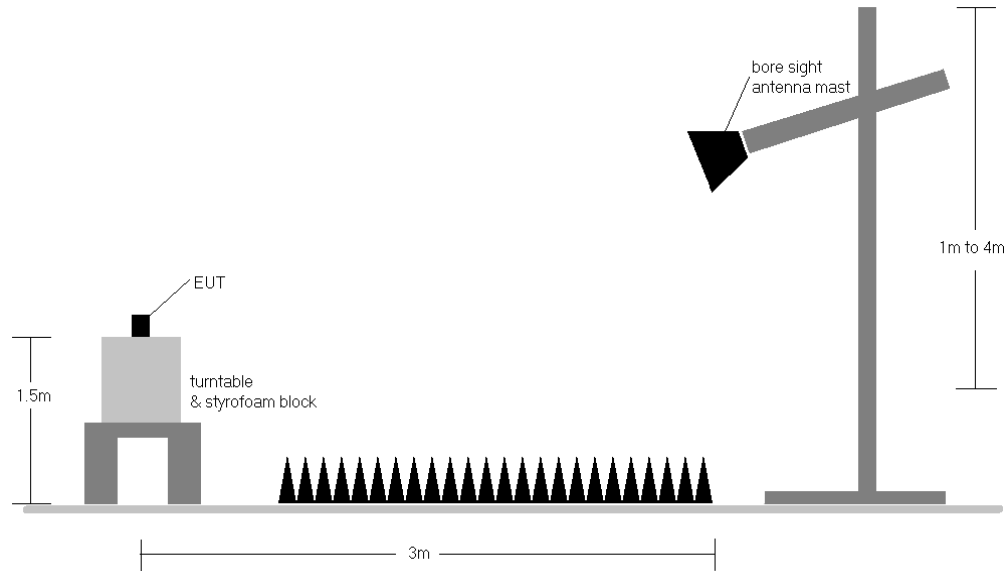


Figure 7-6. Radiated Test Setup > 1GHz

Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limits shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
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 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.

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9. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
10. 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.
11. 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.

Sample Calculations

Determining Spurious Emissions Levels

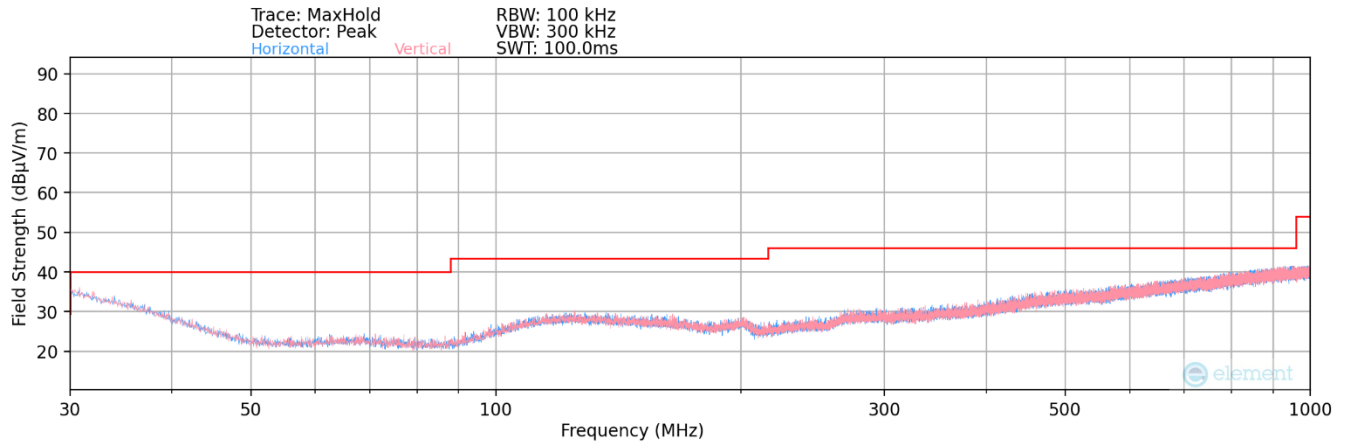
- Field Strength Level $[\text{dB}\mu\text{V/m}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}]$
- $\text{Margin} [\text{dB}] = \text{Field Strength Level} [\text{dB}\mu\text{V/m}]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

Radiated Band Edge Measurement Offset

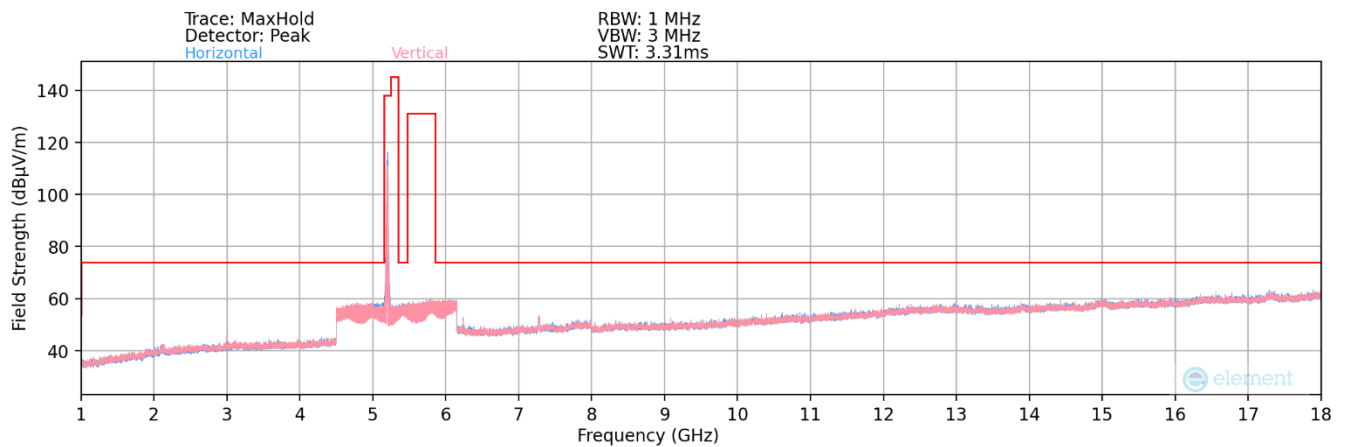
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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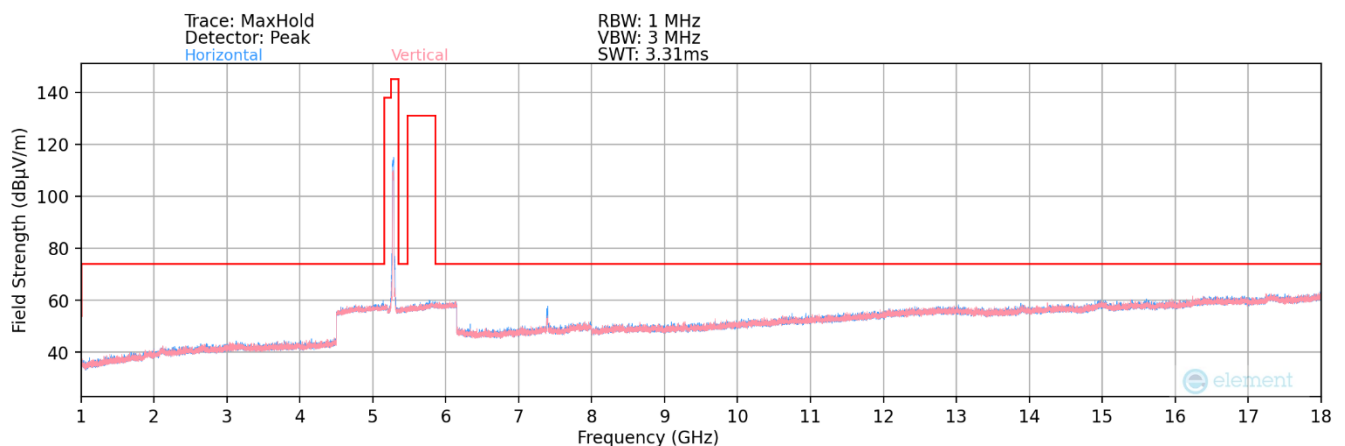
MIMO Radiated Spurious Emission Measurements



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

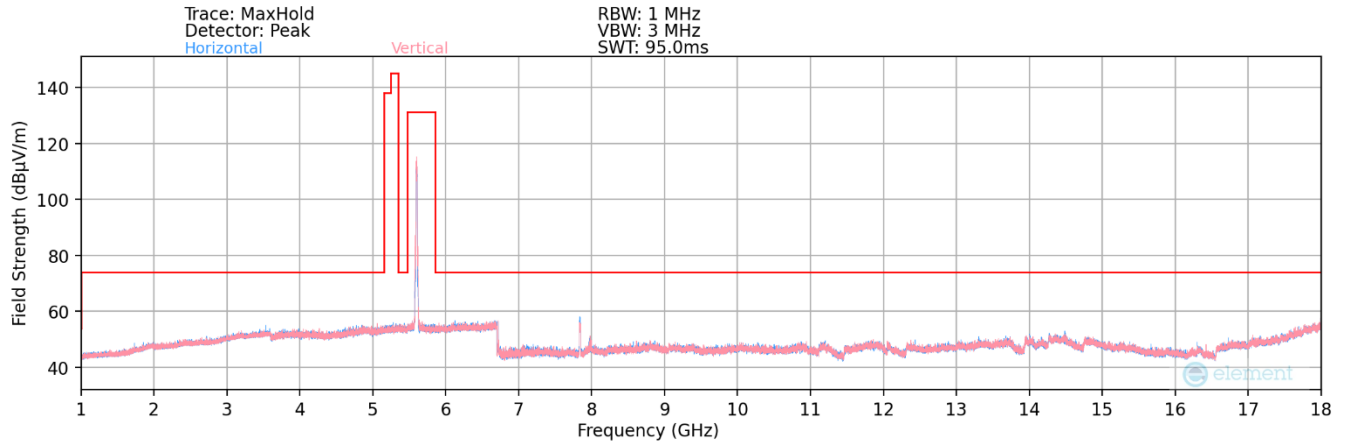


Plot 7-2. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 1 Ch. 40)

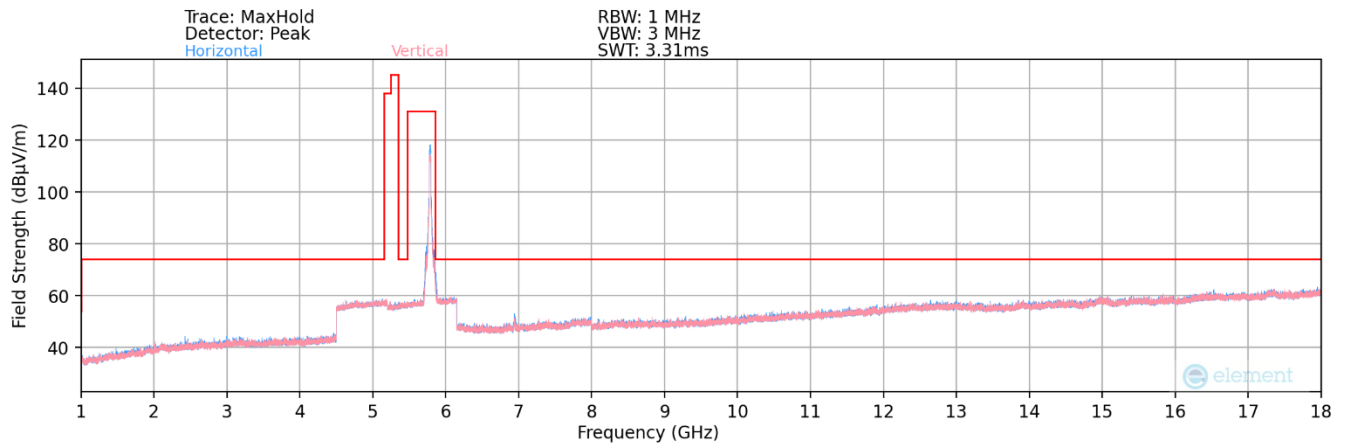


Plot 7-3. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 2A Ch. 56)

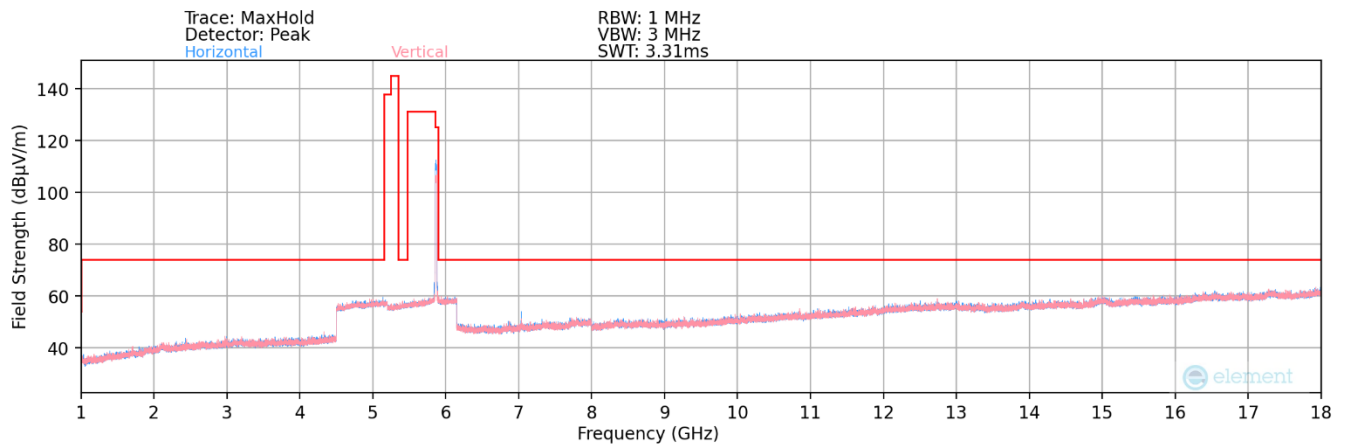
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Plot 7-4. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 2C Ch. 120)

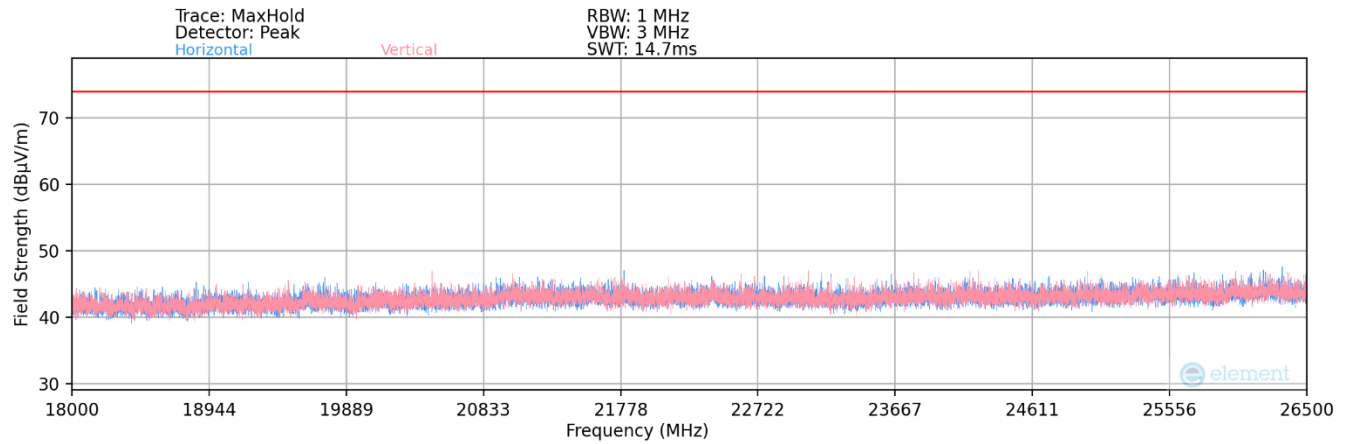


Plot 7-5. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 3 Ch. 157)

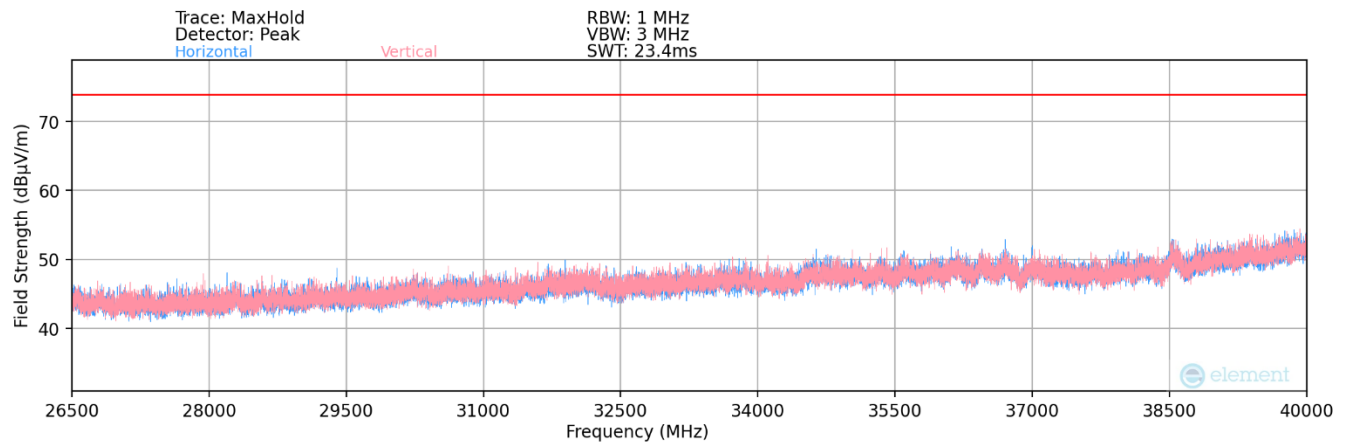


Plot 7-6. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 4 Ch. 173)

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Plot 7-7. Radiated Spurious Plot 18GHz – 26.5GHz MIMO (802.11a)



Plot 7-8. Radiated Spurious Plot 26.5GHz – 40GHz MIMO (802.11a)

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MIMO Radiated Spurious Emission Measurements – UNII Band 1

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11n	MIMO	1	40	5200		10400.00	Peak	H	-	-	-69.22	19.44	0.00	57.22	68.20	-10.98
					*	7280.00	Average	H	219	147	-73.30	13.15	0.00	46.85	53.98	-7.13
					*	7280.00	Peak	H	219	147	-64.28	13.15	0.00	55.87	73.98	-18.11
					*	15600.00	Average	H	-	-	-83.90	27.67	0.00	50.77	53.98	-3.21
					*	15600.00	Peak	H	-	-	-70.79	27.67	0.00	63.88	73.98	-10.10
					*	20800.00	Average	H	-	-	-62.51	3.23	-9.54	38.17	53.98	-15.81
					*	20800.00	Peak	H	-	-	-52.86	3.23	-9.54	47.82	73.98	-26.16
						26000.00	Peak	H	-	-	-53.24	4.07	-9.54	48.29	68.20	-19.91

Table 7-39. Radiated Measurements MIMO – N mode CH 40

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11be	MIMO	1	40	5200	39		10400.00	Peak	H	-	-	-72.48	19.44	0.00	53.96	68.20	-14.24
						*	7287.00	Average	H	373	200	-73.27	13.22	0.00	46.95	53.98	-7.03
						*	7287.00	Peak	H	373	200	-64.55	13.22	0.00	55.67	73.98	-18.31
						*	15600.00	Average	H	-	-	-84.91	27.67	0.00	49.76	53.98	-4.22
						*	15600.00	Peak	H	-	-	-74.38	27.67	0.00	60.29	73.98	-13.69
						*	20800.00	Average	H	-	-	-62.36	3.23	-9.54	38.32	53.98	-15.66
						*	20800.00	Peak	H	-	-	-53.57	3.23	-9.54	47.12	73.98	-26.86
							26000.00	Peak	H	-	-	-53.90	4.07	-9.54	47.63	68.20	-20.57

Table 7-40. Radiated Measurements MIMO – BE mode CH 40 – 52 Tones

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MIMO Radiated Spurious Emission Measurements – UNII Band 2A

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11n	MIMO	2A	54	5270		10540.00	Peak	H	-	-	-69.96	17.03	0.00	54.07	68.20	-14.13
						6324.00	Peak	H	190	198	-65.66	11.67	0.00	53.01	68.20	-15.19
					*	7378.00	Average	H	363	196	-72.14	13.97	0.00	48.83	53.98	-5.15
					*	7378.00	Peak	H	363	196	-63.09	13.97	0.00	57.88	73.98	-16.10
					*	15810.00	Average	H	-	-	-82.19	24.13	0.00	48.94	53.98	-5.04
					*	15810.00	Peak	H	-	-	-71.42	24.13	0.00	59.71	73.98	-14.27
					*	21080.00	Average	H	-	-	-62.62	3.53	-9.54	38.37	53.98	-15.60
					*	21080.00	Peak	H	-	-	-54.20	3.53	-9.54	46.79	73.98	-27.19
						26350.00	Peak	H	-	-	-53.85	3.75	-9.54	47.36	68.20	-20.84

Table 7-41. Radiated Measurements MIMO – N mode CH 54

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11be	MIMO	2A	52	5260	39		10520.00	Peak	H	-	-	-69.91	16.90	0.00	53.99	68.20	-14.21
						*	7364.00	Average	H	216	151	-62.22	4.90	0.00	49.68	53.98	-4.30
						*	7364.00	Peak	H	216	151	-52.77	13.87	0.00	68.10	73.98	-5.88
						*	15780.00	Average	H	-	-	-82.25	24.02	0.00	48.77	53.98	-5.21
						*	15780.00	Peak	H	-	-	-71.43	24.02	0.00	59.59	73.98	-14.39
						*	21040.00	Average	H	-	-	-62.57	3.53	-9.54	38.41	53.98	-15.56
						*	21040.00	Peak	H	-	-	-53.79	3.53	-9.54	47.20	73.98	-26.78
							26300.00	Peak	H	-	-	-53.53	3.79	-9.54	47.72	68.20	-20.48

Table 7-42. Radiated Measurements MIMO – BE mode CH 52 – 52 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
Test Report S/N: 1M2604150032-10-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 41 of 63

MIMO Radiated Spurious Emission Measurements – UNII Band 2C

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11n	MIMO	2C	110	5550	*	11100.00	Average	H	-	-	-81.56	18.07	0.00	43.51	53.98	-10.47
					*	11100.00	Peak	H	-	-	-70.07	18.07	0.00	55.00	73.98	-18.98
						6660.00	Peak	H	112	193	-64.93	11.20	0.00	53.27	68.20	-14.93
						16650.00	Peak	H	-	-	-70.58	25.47	-9.54	52.35	68.20	-15.85
						22200.00	Average	H	-	-	-62.85	3.70	-9.54	38.31	53.98	-15.67
						22200.00	Peak	H	-	-	-53.97	3.70	-9.54	47.19	68.20	-21.01
						27750.00	Peak	H	-	-	-53.85	4.32	-9.54	47.93	68.20	-20.27

Table 7-43. Radiated Measurements MIMO – N mode CH 110

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11be	MIMO	2C	140	5700	39	*	11400.00	Average	H	-	-	-81.74	18.52	0.00	43.78	53.98	-10.20
						*	11400.00	Peak	H	-	-	-71.27	18.52	0.00	54.25	73.98	-19.73
							6840.00	Peak	H	346	190	-63.60	13.84	0.00	57.24	68.20	-10.96
							17100.00	Peak	H	-	-	-71.73	26.39	0.00	61.66	68.20	-6.54
						*	22800.00	Average	H	-	-	-62.83	3.53	-9.54	38.17	53.98	-15.81
						*	22800.00	Peak	H	-	-	-53.48	3.53	-9.54	47.51	73.98	-26.47
							28500.00	Peak	H	-	-	-55.91	4.69	-9.54	46.24	68.20	-21.96

Table 7-44. Radiated Measurements MIMO – BE mode CH 140 – 52 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
Test Report S/N: 1M2604150032-10-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 42 of 63

MIMO Radiated Spurious Emission Measurements – UNII Band 3

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11n	MIMO	3	153	5765	*	11530.00	Average	H	-	-	-81.87	18.97	0.00	44.10	53.98	-9.88
					*	11530.00	Peak	H	-	-	-71.43	18.97	0.00	54.54	73.98	-19.44
						6918.00	Peak	H	332	208	-59.80	11.70	0.00	58.90	68.20	-9.30
						17295.00	Peak	H	-	-	-72.47	27.09	0.00	61.62	68.20	-6.58
					*	23060.00	Average	H	-	-	-62.90	3.60	-9.54	38.17	53.98	-15.81
					*	23060.00	Peak	H	-	-	-53.35	3.60	-9.54	47.72	73.98	-26.26
						28825.00	Peak	H	-	-	-54.97	4.92	-9.54	47.41	68.20	-20.79

Table 7-45. Radiated Measurements MIMO – N mode CH 153

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11ax	MIMO	3	155	5775	*	11550.00	Average	H	-	-	-81.64	18.82	0.00	44.18	53.98	-9.80
					*	11550.00	Peak	H	-	-	-71.25	18.82	0.00	54.57	73.98	-19.41
						6930.00	Peak	H	345	204	-62.31	11.73	0.00	56.42	68.20	-11.78
						17325.00	Peak	H	-	-	-71.77	27.16	0.00	62.39	68.20	-5.81
						23100.00	Peak	H	-	-	-62.29	3.54	-9.54	38.71	53.98	-15.27
						23100.00	Peak	H	-	-	-54.37	3.54	-9.54	46.63	73.98	-27.35
						28875.00	Peak	H	-	-	-54.31	4.98	-9.54	48.13	68.20	-20.07

Table 7-46. Radiated Measurements MIMO – AC mode CH 155

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 Spurious Emission Measurements – UNII Band 4

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11n	MIMO	4	167	5835	*	11670.00	Average	H	-	-	-81.86	19.09	0.00	44.23	53.98	-9.75
					*	11670.00	Peak	H	-	-	-71.42	19.09	0.00	54.67	73.98	-19.31
						17505.00	Peak	H	-	-	-73.09	26.85	0.00	60.76	68.20	-7.44
						23340.00	Peak	H	-	-	-51.79	3.50	-9.54	49.17	68.20	-19.03
						29175.00	Peak	H	-	-	-54.41	5.24	-9.54	48.29	68.20	-19.91

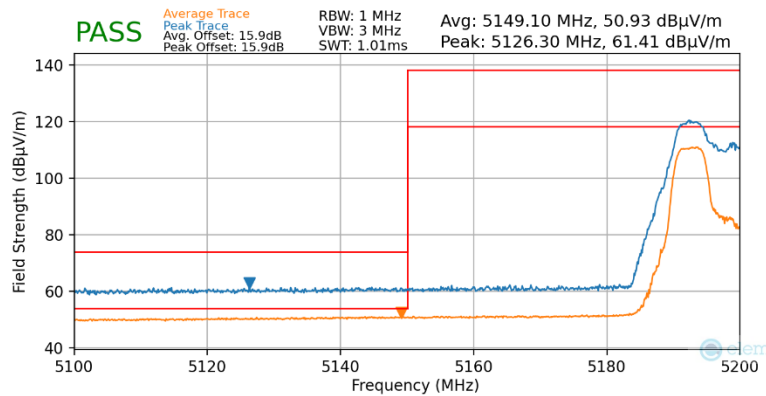
Table 7-47. Radiated Measurements MIMO – N mode CH 167

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11be	MIMO	4	173	5865	53	*	11730.00	Average	H	-	-	-81.65	18.88	0.00	44.23	53.98	-9.75
						*	11730.00	Peak	H	-	-	-71.29	18.88	0.00	54.59	73.98	-19.39
							7038.00	Peak	H	363	204	-62.18	12.02	0.00	56.84	68.20	-11.36
							17595.00	Peak	H	-	-	-72.20	26.98	0.00	61.78	68.20	-6.42
							23460.00	Peak	H	-	-	-53.84	3.47	-9.54	47.09	68.20	-21.11
							29325.00	Peak	H	-	-	-54.77	5.24	-9.54	47.94	68.20	-20.26

Table 7-48. Radiated Measurements MIMO – BE mode CH 173 – 106 Tones

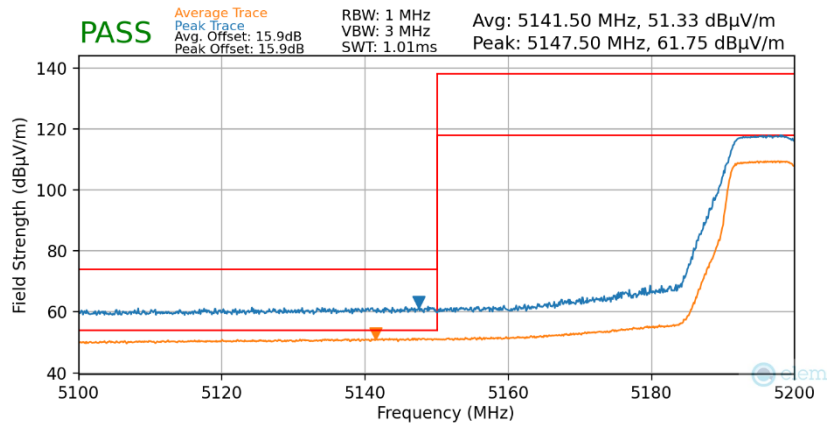
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-10-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 44 of 63

Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 RU Index: 37
 Distance of Measurements: 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40



Plot 7-9. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 1 – 52 Tones)

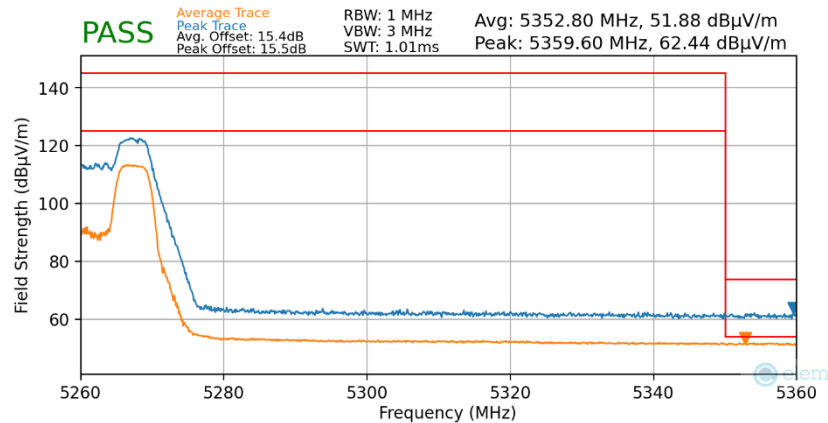
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40



Plot 7-10. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 1)

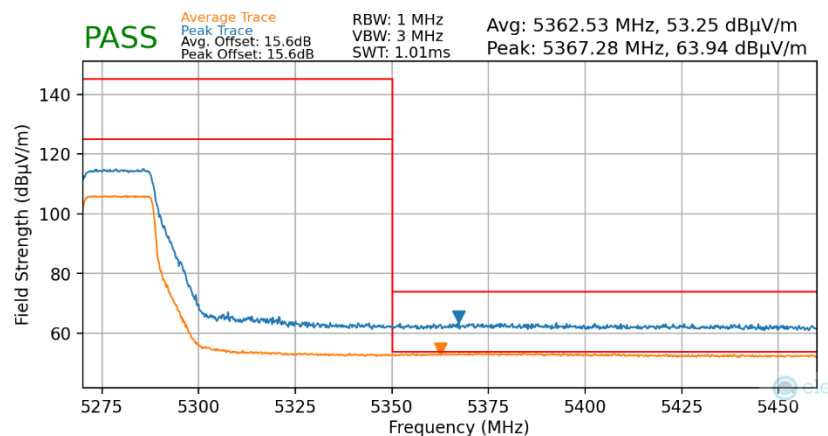
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-10-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 45 of 63

Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 RU Index: 40
 Distance of Measurements: 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52



Plot 7-11. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2A – 52 Tones)

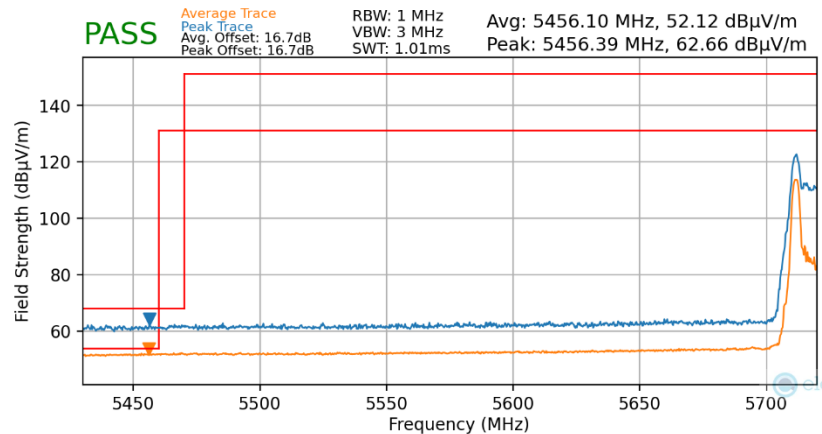
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5270MHz
 Channel: 54



Plot 7-12. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2A)

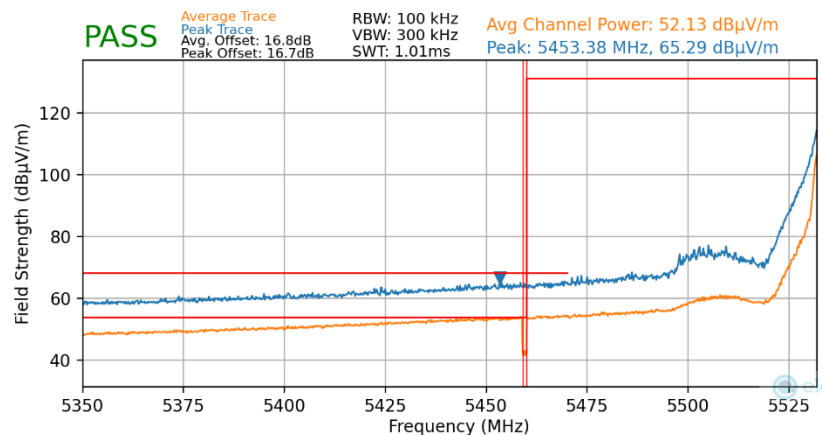
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-10-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Page 46 of 63	

Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 RU Index: 37
 Distance of Measurements: 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140



Plot 7-13. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 2C – 52 Tones)

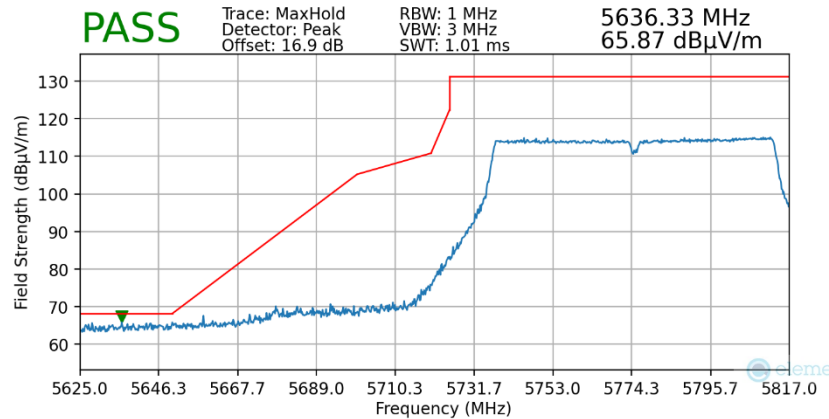
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5550MHz
 Channel: 110



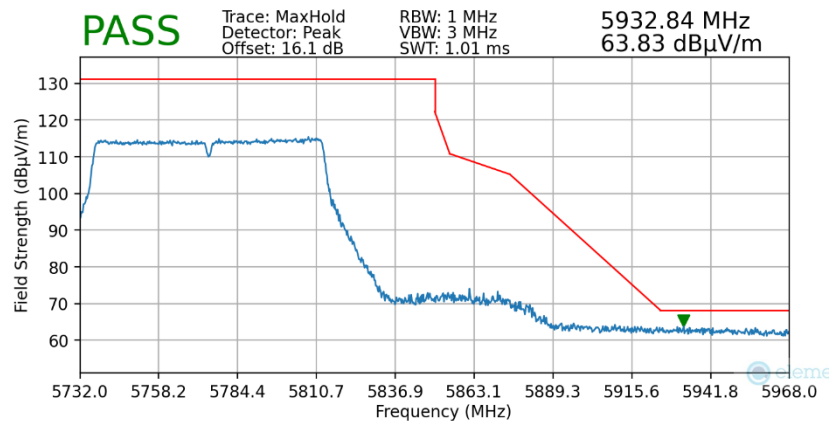
Plot 7-14. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 2C)

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: 1M2604150032-10-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 47 of 63

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



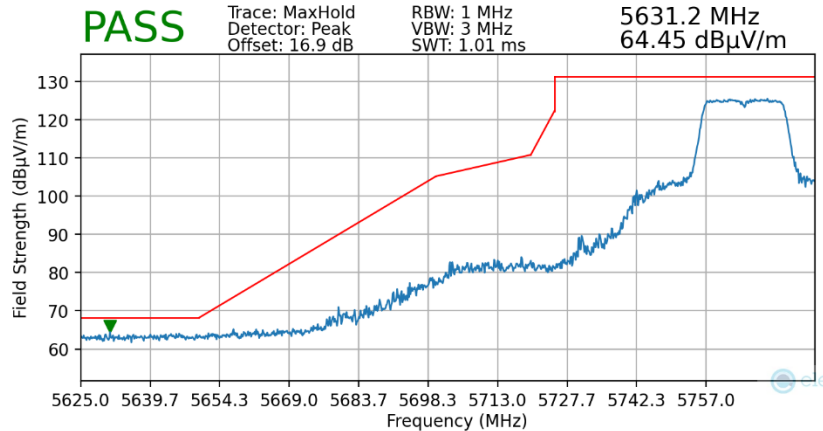
Plot 7-15. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 3)



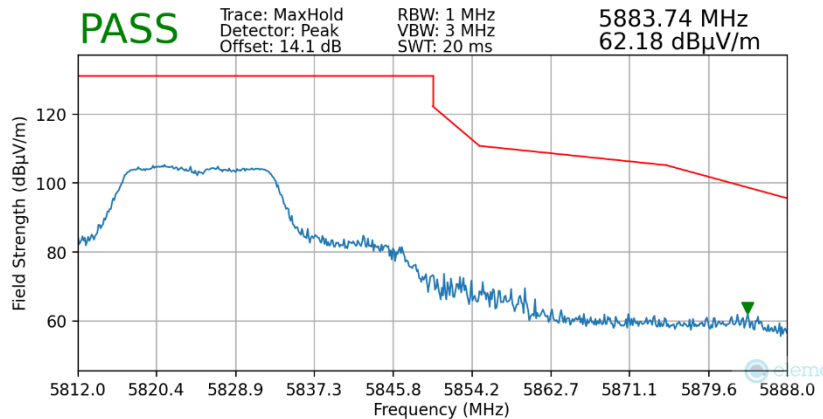
Plot 7-16. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3)

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: 1M2604150032-10-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 48 of 63

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5765MHz
 Channel: 153



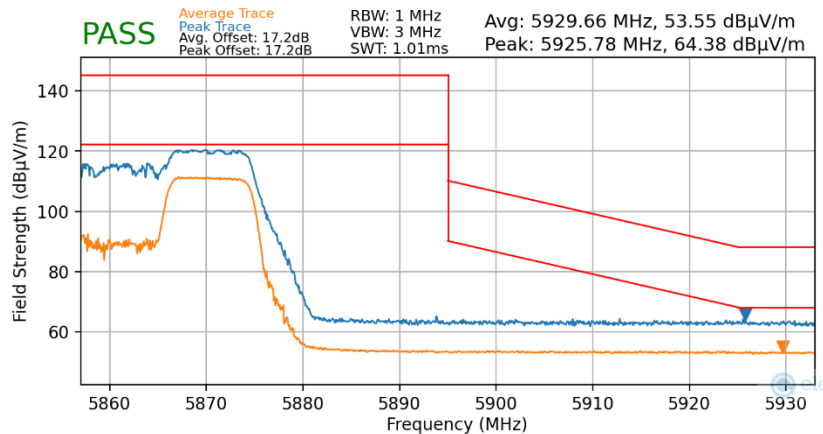
Plot 7-17. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 3)



Plot 7-18. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

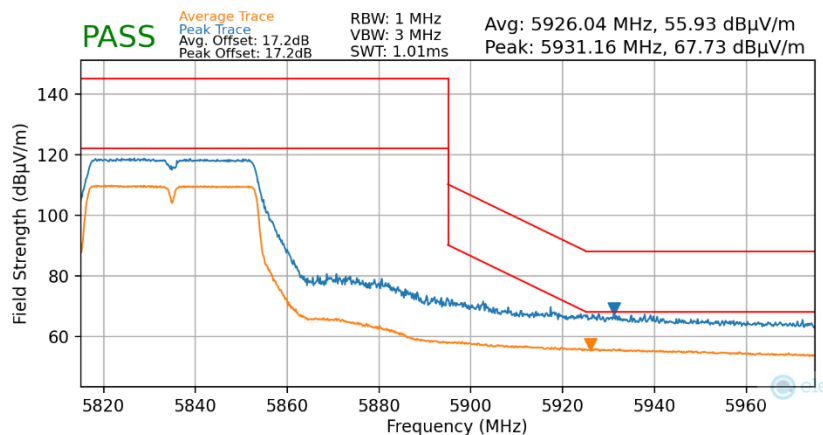
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-10-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 49 of 63

Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5865MHz
 Channel: 173



Plot 7-19. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 4 – 106 Tones)

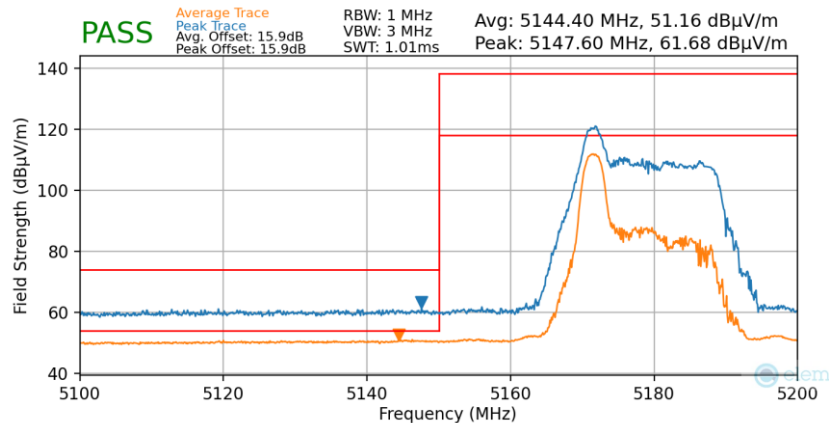
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5835MHz
 Channel: 167



Plot 7-20. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 4)

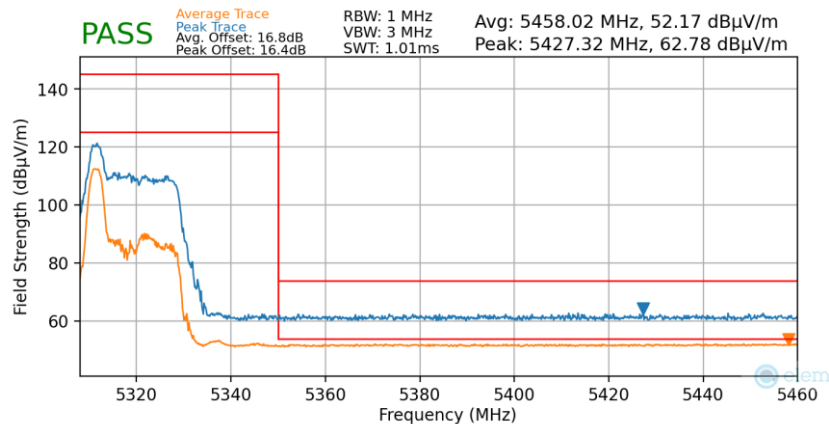
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36



Plot 7-21. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 1 – 26 Tones)

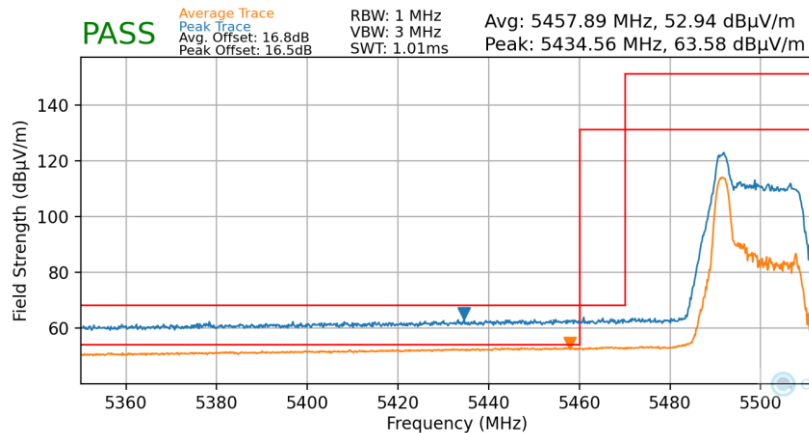
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



Plot 7-22. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2A – 26 Tones)

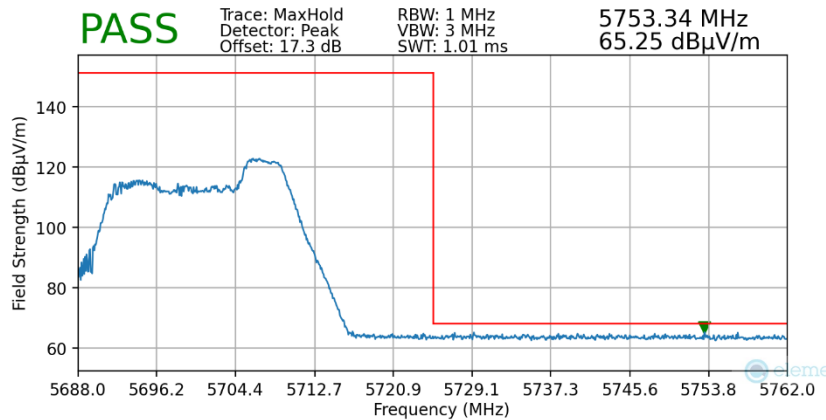
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



Plot 7-23. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 2C – 26 Tones)

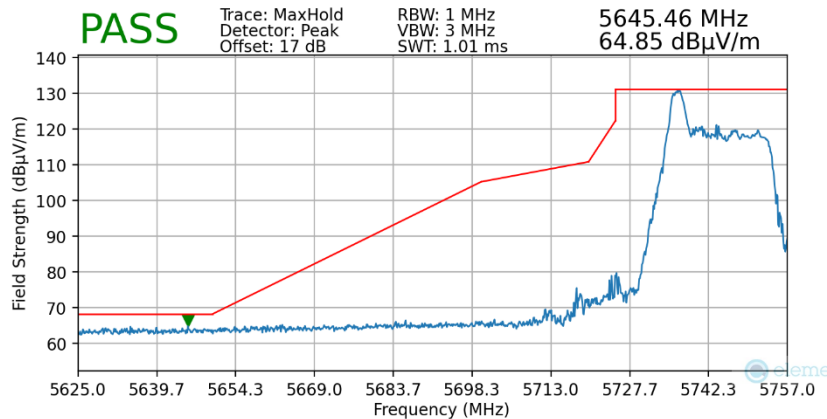
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140



Plot 7-24. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2C – 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
Test Report S/N: 1M2604150032-10-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 52 of 63

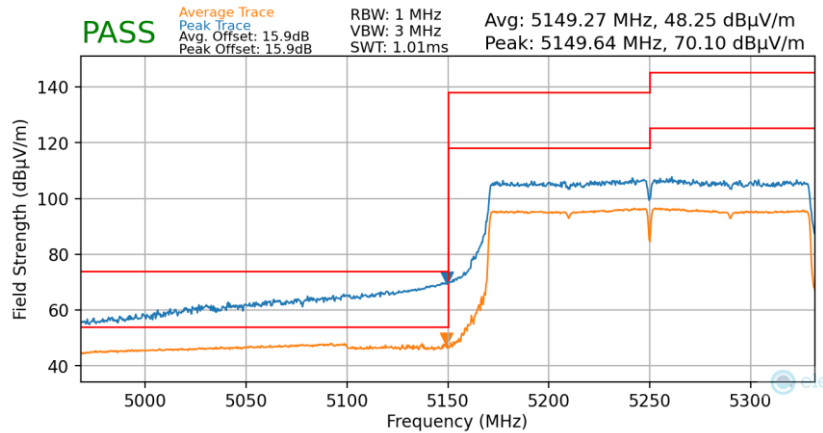
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 149MHz
 Channel: 149



Plot 7-25. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 3 – 26 Tones)

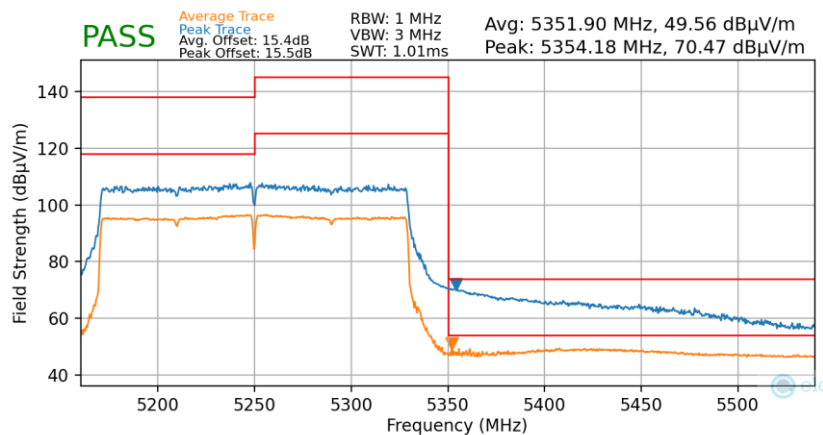
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-10-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Page 53 of 63	

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5250MHz
 Channel: 50



Plot 7-26. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 1)

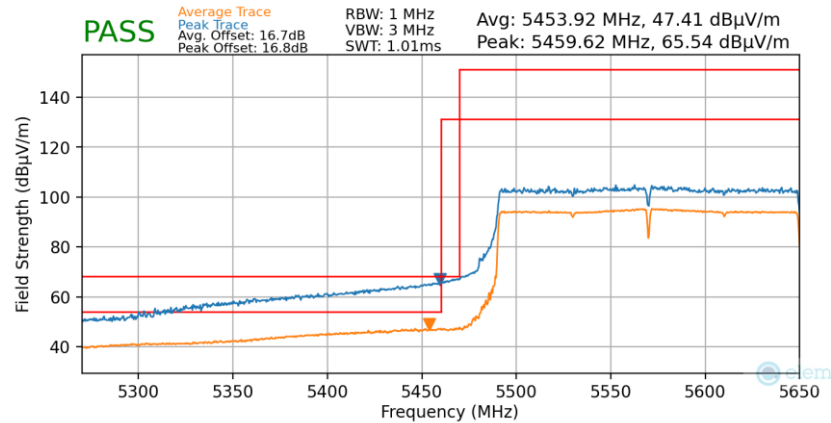
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5250MHz
 Channel: 50



Plot 7-27. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2A)

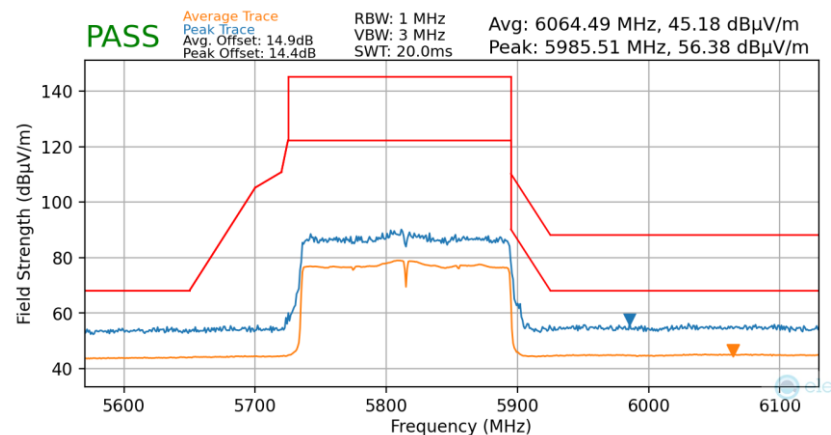
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-10-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5570MHz
 Channel: 114



Plot 7-28. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5815MHz
 Channel: 163



Plot 7-29. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 4)

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7.6 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 FCC §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 7-49. 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.

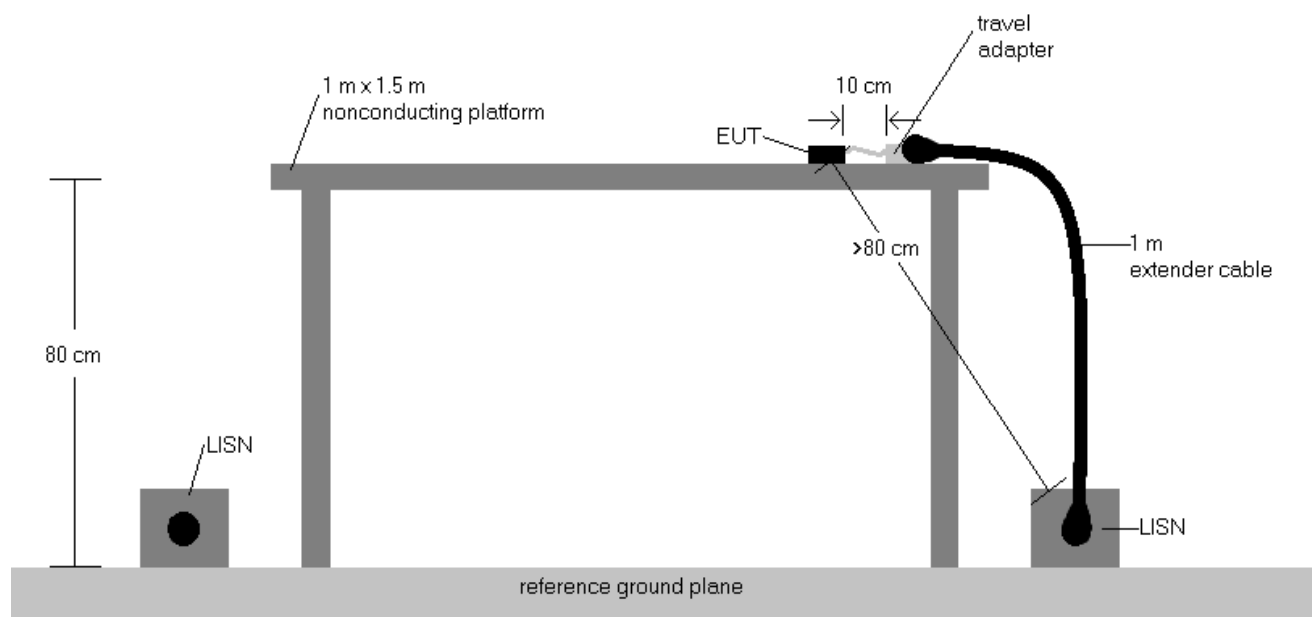
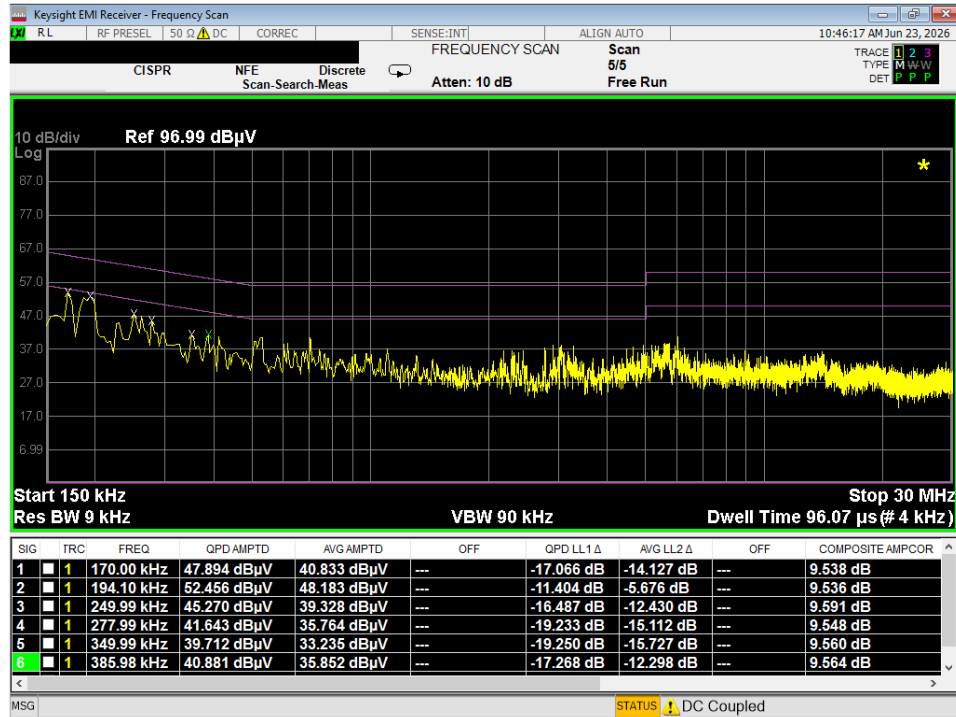


Figure 7-7. Test Instrument & Measurement Setup

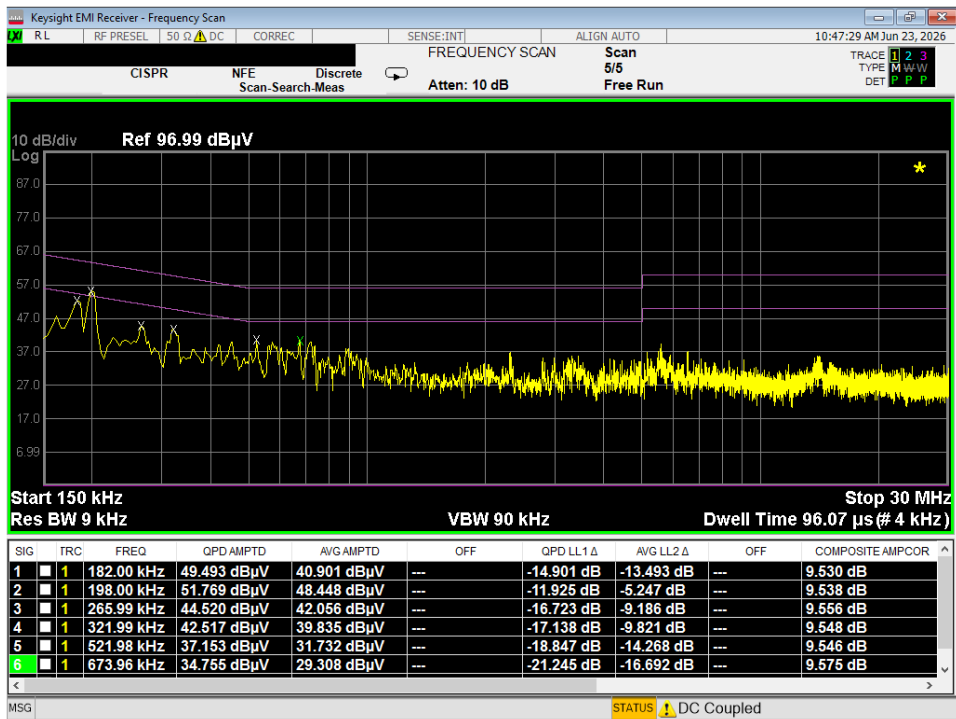
Test Notes

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 is specified in §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.

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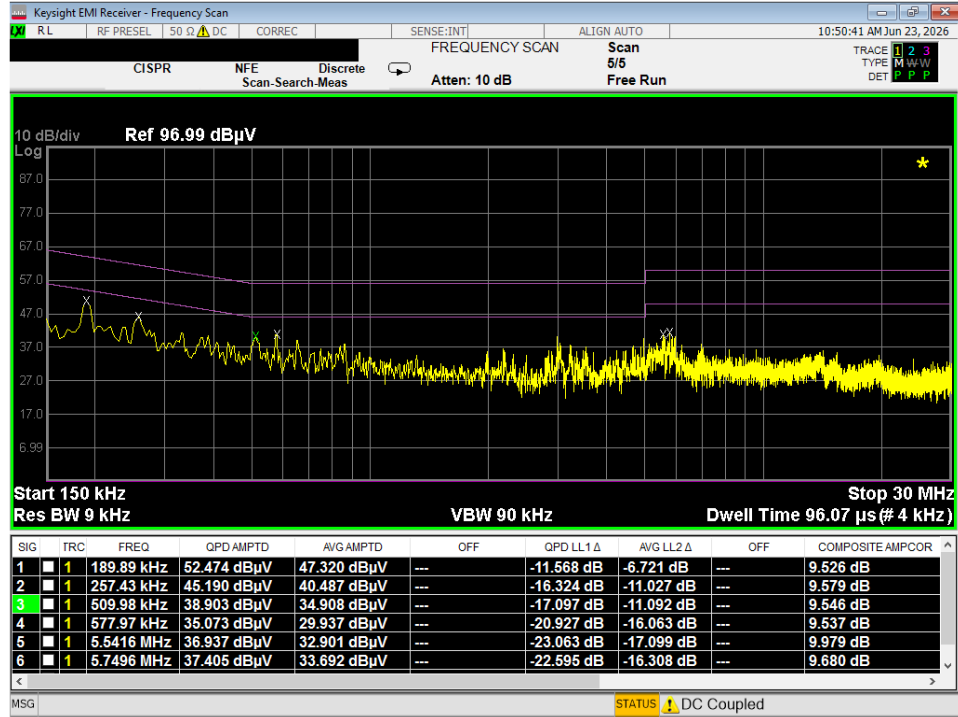


Plot 7-30. Line Conducted Plot with 802.11a UNII Band 1 (L1)

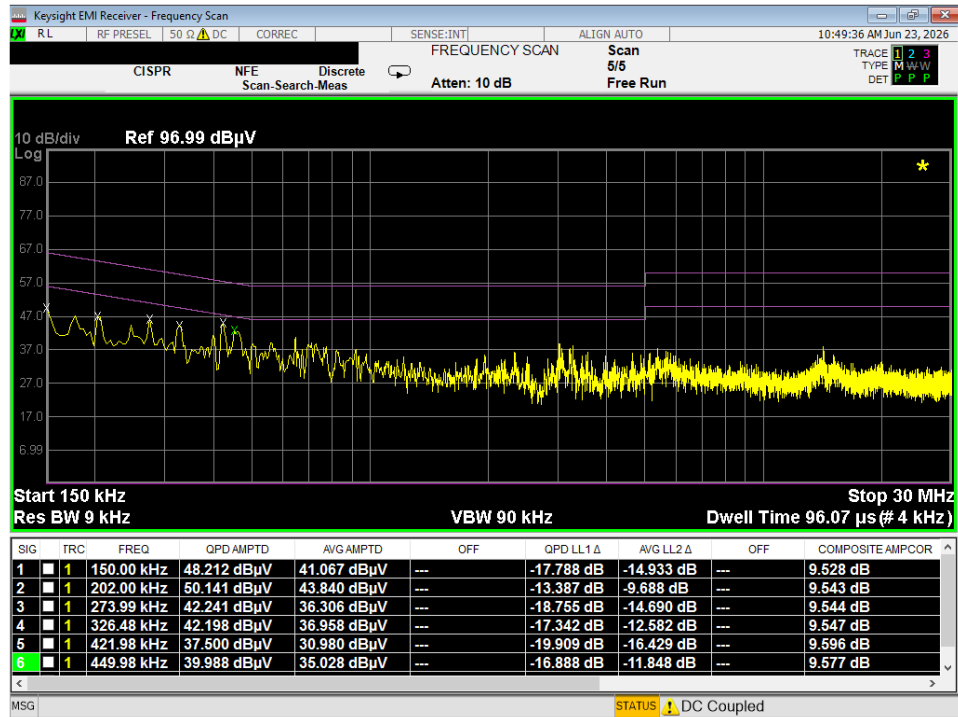


Plot 7-31. Line Conducted Plot with 802.11a UNII Band 1 (N)

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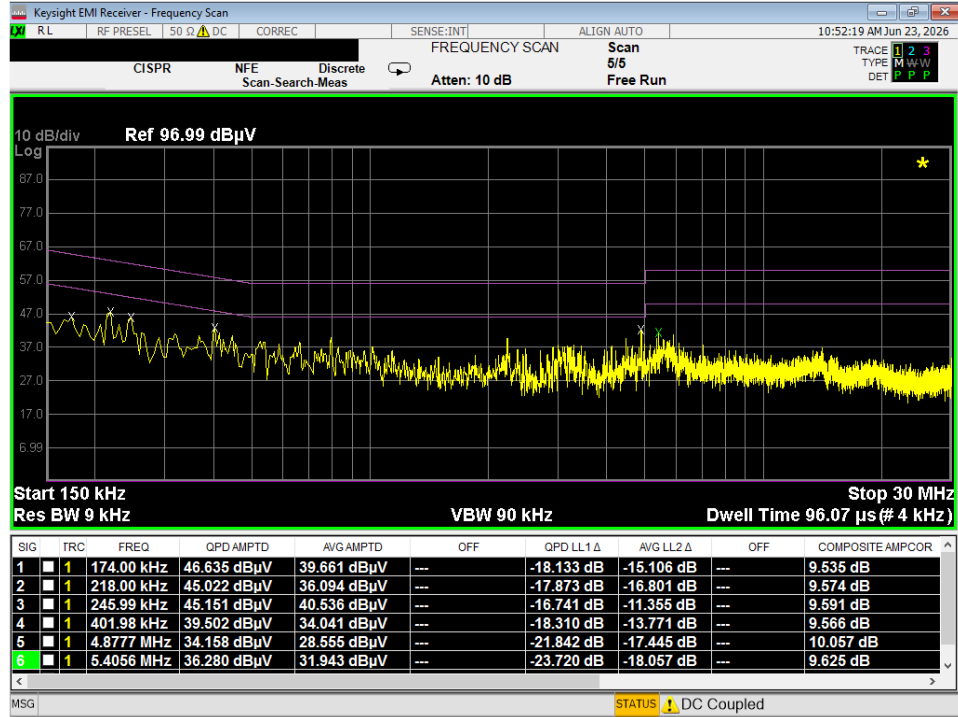


Plot 7-32. Line Conducted Plot with 802.11a UNII Band 2A (L1)

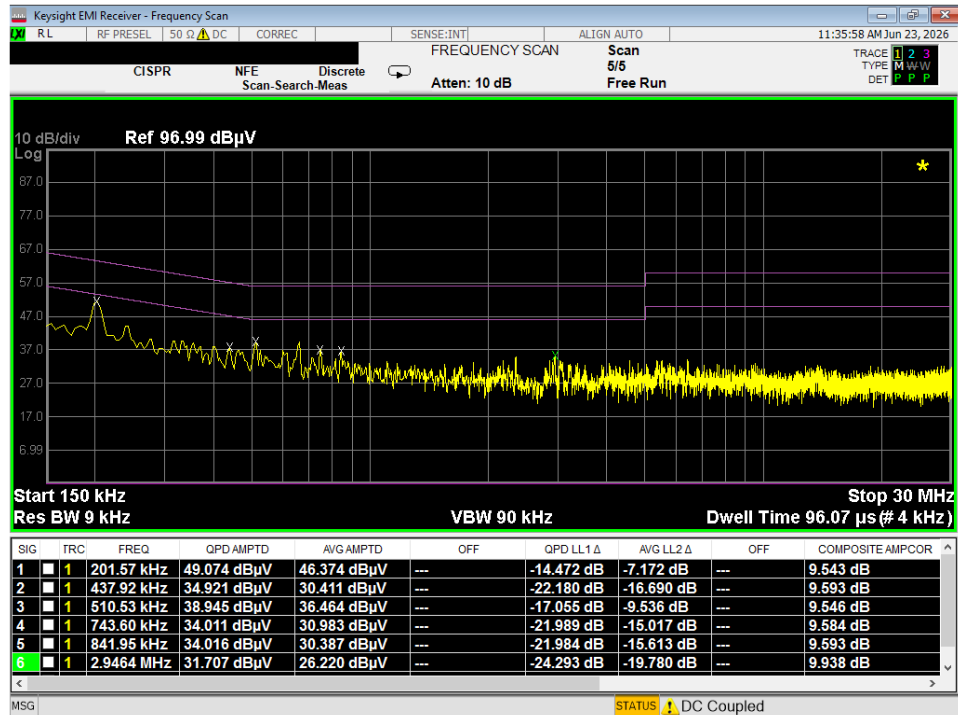


Plot 7-33. Line Conducted Plot with 802.11a UNII Band 2A (N)

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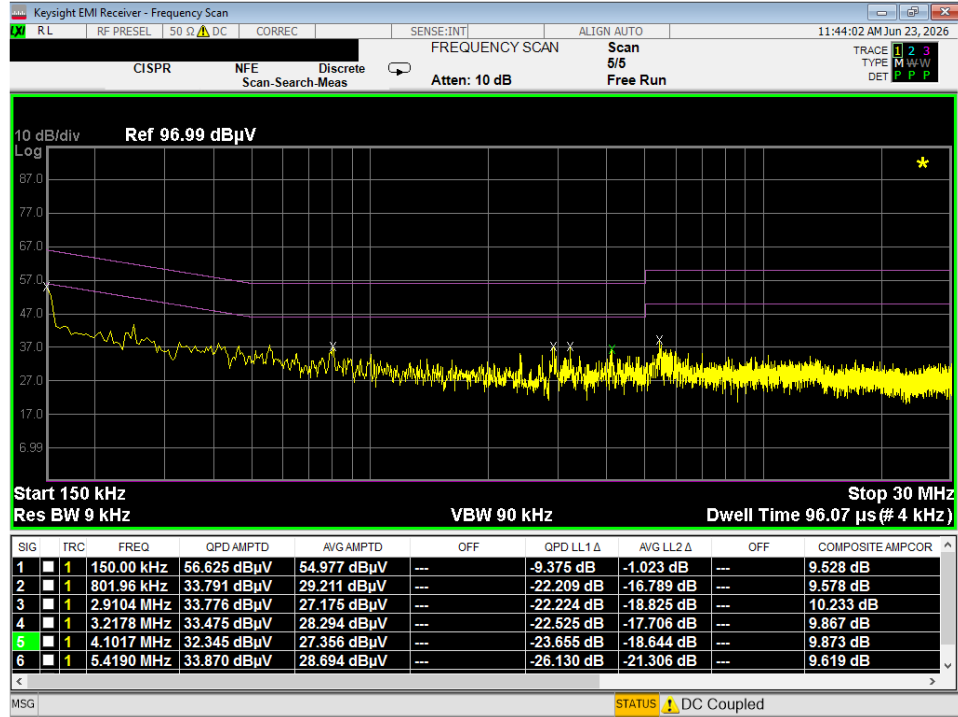


Plot 7-34. Line Conducted Plot with 802.11a UNII Band 2C (L1)

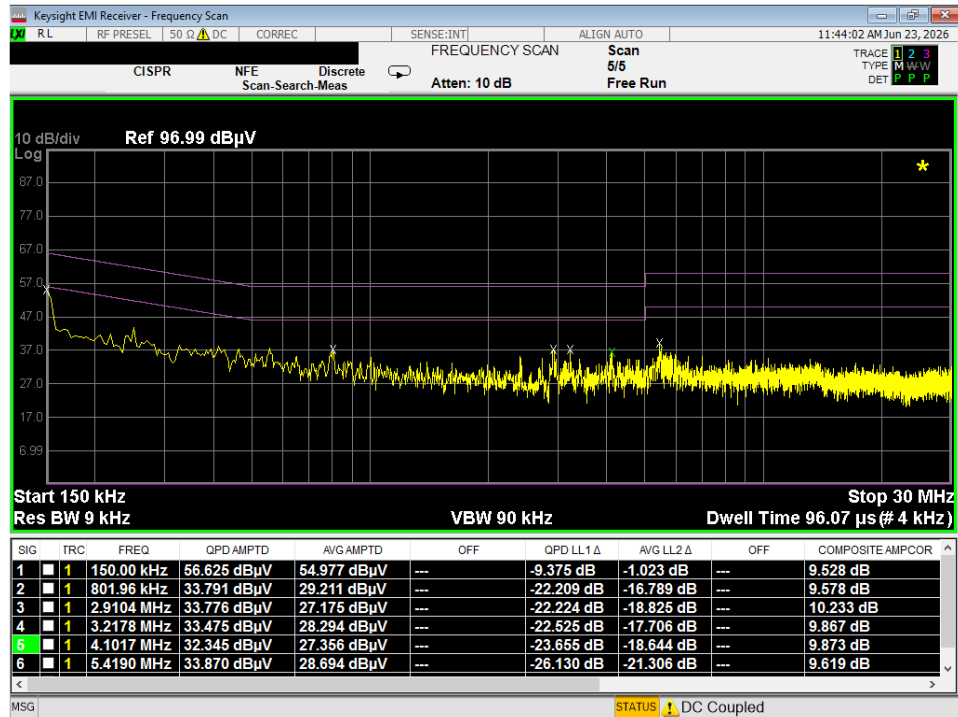


Plot 7-35. Line Conducted Plot with 802.11a UNII Band 2C (N)

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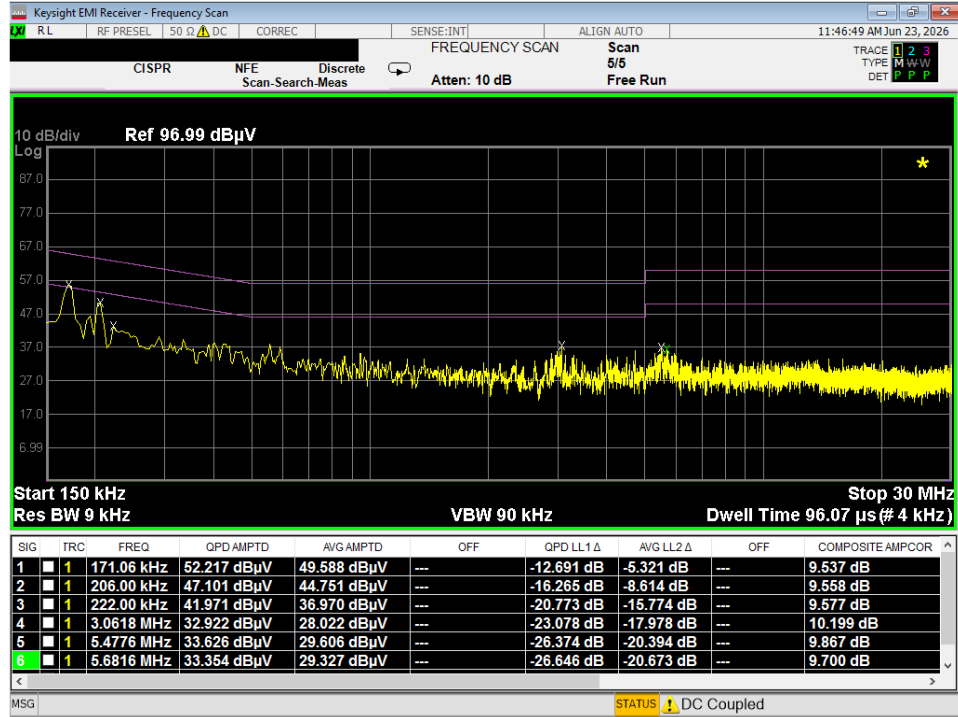


Plot 7-36. Line Conducted Plot with 802.11a UNII Band 3 (L1)

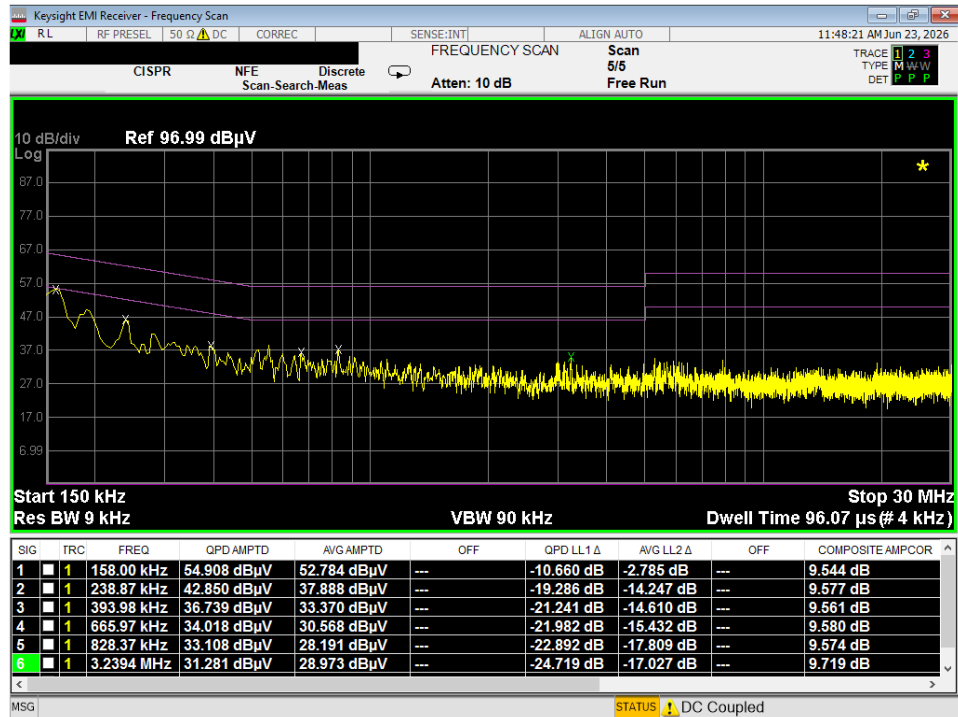


Plot 7-37. Line Conducted Plot with 802.11a UNII Band 3 (N)

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Plot 7-38. Line Conducted Plot with 802.11a UNII Band 4 (L1)



Plot 7-39. Line Conducted Plot with 802.11a UNII Band 4 (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 -

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