



ELEMENT MATERIALS TECHNOLOGY,

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MEASUREMENT REPORT

FCC Part 15.407 / ISED RSS-248 802.11a/ax/be WiFi 6GHz

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.:

1M2604150032-11-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:

5935 – 7115MHz

Modulation Type:

OFDM/OFDMA

FCC Classification:

15E 6GHz Low Power Dual Client (6CD)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

RSS Specification(s):

RSS-248 Issue 3

FCC Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023, KDB 987594 D02 v03

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: 1M2604150032-11-R2.C3K) supersedes and replaces the previously issued test report (S/N: 1M2604150032-11-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
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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	6/29/2026	WKR0000005883
1	Addressed Client's Feedback	7/7/2026	WKR0000005883
2	Addressed comments made by TCB reviewer	7/14/2026	WKR0000005883

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered test laboratory with the site description on file with ISED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113).
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Limited Modular Approval FCC ID: C3K00002101** and **IC: 3048A-00002101 Host Integration in Model 2145 Portable Computing Device**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band.

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 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
2	5935	97	6435	117	6535	189	6895
:	:	:	:	:	:	:	:
45	6175	105	6475	149	6695	209	6995
:	:	:	:	:	:	:	:
93	6415	113	6515	185	6875	233	7115

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
3	5965	99	6445	123	6565	187	6885
:	:	:	:	:	:	:	:
43	6165	107	6485	155	6725	211	7005
:	:	:	:	:	:	:	:
91	6405	115	6525	179	6845	227	7085

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
7	5985	103	6465	119	6545	199	6945
:	:			:	:	:	:
39	6145			151	6705	215	7025
:	:			:	:		
87	6385			183	6865		

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

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Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
15	6025	111	6505	143	6665	207	6985
47	6185			175	6825		
79	6345						

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
31	6105	95	6425	127	6585	191	6905
63	6265			159	6745		

Table 2-5. 802.11be (320MHz BW) Frequency / Channel Operations

Notes:

1. 6GHz NII operation is possible in 20MHz, 40MHz, 80MHz, 160MHz, and 320MHz 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:

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802.11 Mode/Band		MIMO (1+2)	
		Duty Cycle [%]	Radiated DCCF [dB]
6GHz	a	99.14	N/A
	ax (HE20)	99.74	N/A
	be (EHT20)	99.67	N/A
	ax (HE40)	99.50	N/A
	be (EHT40)	99.78	N/A
	ax (HE80)	99.62	N/A
	be (EHT80)	99.55	N/A
	be (EHT80, 20MHz Puncture)	99.47	N/A
	ax (HE160)	99.20	N/A
	be (EHT160)	99.29	N/A
	be (EHT160, 20MHz Puncture)	99.22	N/A
	be (EHT160, 40MHz Puncture)	99.33	N/A
	be (EHT320)	97.69	0.10
	be (EHT320, 40MHz Puncture)	99.13	N/A
	be (EHT320, 80MHz Puncture)	99.15	N/A
	be (EHT320, 120MHz Puncture)	99.16	N/A

Table 2-6. Measured Duty Cycles – OFDM

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Band	Bandwidth	Tone Type	Tone Size	MIMO (1+2)	
				Duty Cycle [%]	Radiated DCCF [dB]
6GHz	20MHz	RU	26T	99.65	N/A
			52T	99.65	N/A
			106T	98.64	N/A
			242T	98.09	N/A
		MRU	52+26T	97.31	0.12
			106+26T	98.50	N/A
	40MHz	RU	26T	99.37	N/A
			52T	99.61	N/A
			106T	99.63	N/A
			242T	97.44	0.11
		MRU	484T	97.33	0.12
			52+26T	98.01	N/A
	80MHz	RU	106+26T	99.10	N/A
			26T	99.61	N/A
			52T	99.53	N/A
			106T	99.24	N/A
			242T	98.72	N/A
			484T	97.90	0.09
		MRU	996T	97.33	0.12
			52+26T	97.73	0.10
	160MHz	RU	106+26T	99.10	N/A
			484+242T	98.32	N/A
			26T	99.75	N/A
			52T	99.80	N/A
			106T	99.28	N/A
			242T	98.71	N/A
		MRU	484T	98.10	N/A
			996T	97.42	0.11
			2x996T	99.26	N/A
			52+26T	97.88	0.09
			106+26T	99.04	N/A
			484+242T	98.65	N/A
		RU	996+484T	98.49	N/A
			26T	99.81	N/A
			52T	99.80	N/A
			106T	99.28	N/A
			242T	98.64	N/A
			484T	97.91	0.09
			996T	98.03	N/A
			2x996T	99.35	N/A
			4x996T	95.99	0.18
		MRU	52+26T	97.73	0.10
			106+26T	98.91	N/A
			484+242T	98.58	N/A
			996+484T	98.17	N/A
			2x996+484T	97.61	0.10
			3x996T	96.60	0.15
			3x996+484T	96.19	0.17

Table 2-7. Measured Duty Cycles – OFDMA

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

WiFi Configurations		SISO		CDD		SDM	
		Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
6GHz	11a	✓	✓	✓	✓	✗	✗
	11ax	✓	✓	✓	✓	✓	✓
	11be	✓	✓	✓	✓	✓	✓

Table 2-8. Antenna / Technology Configurations

✓ = 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 (802.11ax/be)																		
				20MHz				40MHz				80MHz				160MHz				320MHz		
	HT	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	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI		
6	0	0	1	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	288.2	272.2	245	
9	1	1	1	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490	
12	2	2	1	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8	432.4	408.3	367.5	864.7	816.7	735	
18	3	3	1	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980	
24	4	4	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	864.7	816.7	735	1729.4	1633.3	1470	
36	5	5	1	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980	2305.9	2177.8	1960	
48	7	6	1	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3	1297.1	1225	1102.5	2594.1	2450	2205	
54	7	1	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5	1441.2	1361.1	1225	2882.4	2722.2	2450	5444.4	
	8	1	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470	3626.7	3266.6	2940	6466.7	
	9	1	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7	1921.6	1814.8	1633.3	3843.1	3629.6	3266.6	7177.8	
	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	2161.8	2041.7	1837.5	4233.5	4083.3	3675	8166.7	
	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	2402	2268.5	2041.7	4803.9	4537	4083.3	9166.7	
	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	2594.1	2450	2205	4900	4410	9900	10900	
	13	1	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	2882.4	2722.2	2450	5444.4	4900	10900	10900	
	6	8	0	2	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490
	9	9	1	2	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980
	12	10	2	2	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470
18	11	3	2	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980	2305.9	2177.8	1960	
24	12	4	2	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470	3626.7	3266.6	2940	
36	13	5	2	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980	2305.9	2177.8	1960	4403.3	4083.3	3675	
48	14	6	2	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	2594.1	2450	2205	4900	4410	9900	
54	15	7	2	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	2882.4	2722.2	2450	5444.4	4900	10900	
	8	2	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	3458.8	3266.7	2940	6466.7	3266.6	2940	6466.7	
	9	2	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3	3843.1	3629.6	3266.6	7177.8	3266.6	2940	6466.7	
	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	4233.5	4083.3	3675	8166.7	3266.6	2940	6466.7	
	11	2	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7	4803.9	4537	4083.3	9166.7	3266.6	2940	6466.7	
12	2	309.7	292.5	263.3	619.4	585	526.5	1297.1	1225	1102.5	2594.1	2450	2205	5188.2	4900	4410	9900	10900	10900	10900		
13	2	344.1	325	292.5	688.2	650	585	1441.2	1361.1	1225	2882.4	2722.2	2450	5764.7	5444.4	4900	10900	10900	10900	10900		

Table 2-9. Supported Data Rates – OFDM

MCS Index	Spatial Stream	OFDM (802.11be)																			
		80MHz 20MHz Puncture				160MHz 40MHz Puncture				320MHz 120MHz Puncture				320MHz 80MHz Puncture				320MHz 40MHz Puncture			
		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		
EHT		0.8	1.6	3.2	0.8	1.6	3.2	0.8	1.6	3.2	0.8	1.6	3.2	0.8	1.6	3.2	0.8	1.6	3.2		
		702	702	702	1448	1448	1448	1682	1682	1682	2428	2428	2428	2940	2940	2940	3408	3408	3408		
0	1	25.8	24.4	21.9	53.2	50.3	45.3	61.8	58.4	52.6	89.3	84.3	75.9	108.1	102.1	91.9	125.3	118.3	106.5		
1	1	51.6	48.8	43.9	106.5	100.6	90.5	123.7	116.8	105.1	178.5	168.6	151.8	216.2	204.2	183.8	250.6	236.7	213		
2	1	77.4	73.1	65.8	159.7	150.8	135.8	185.5	175.2	157.7	267.8	252.9	227.6	324.3	306.3	275.6	375.9	355	319.5		
3	1	103.2	97.5	87.8	212.9	201.1	181.247.4	233.6	210.3	357.1	337.2	303.5	432.4	408.3	367.5	501.2	473.3	426			
4	1	154.9	146.3	131.6	319.4	301.7	271.5	371	350.4	315.4	535.6	505.8	455.3	648.5	612.5	551.3	751.2	704.6	639		
5	1	206.5	195	175.5	425.9	402.2	362	494.7	467.2	420.5	714.1	674.4	607	864.7	816.7	735	1002.4	946.7	852		
6	1	232.3	219.4	197.4	479.1	452.5	407.5	556.5	525.6	473.1	803.4	758.8	682.9	972.8	918.8	826.9	1127.6	1065	958.5		
7	1	258.1	243.8	219.4	532.4	502.8	452.5	618.4	584	526.6	862.6	841.1	754.8	1080.9	1018.8	918.8	1252.9	1183.3	1065		
8	1	309.7	292.5	263.3	638.8	603.3	543	742.1	700.8	630.8	1017.2	1011.7	910.7	1297.1	1225	1102.5	1470	1378			
9	1	344.1	325	292.5	709.8	670.4	603.3	824.5	778.7	700.8	1190.2	1124.1	1017.1	1441.2	1361.1	1225	1670.6	1577.8	1420		
10	1	387.1	365.6	329.1	798.5	754.2	678.8	927.6	876	788.4	1339	1264.6	1138.1	1612.3	1531.3	1378.1	1879.4	1775	1597.5		
11	1	430.1	406.3	365.8	887.3	838	754.2	1030.6	973.4	876	1487.7	1405.1	1264.6	1801.5	1701.4	1531.3	2088.2	1972.2	1775		
12	1	464.8	438.8	394.9	958.2	905	814.5	1113.1	1051.3	946.1	1606.8	1517.5	1365.8	1945.6	1837.5	1653.8	2255.3	2130	1915		
13	1	516.2	487.5	438.8	1064.7	1005.6	905	1236.8	1168.1	1051.3	1785.3	1686.1	1517.5	2161.8	2041.7	1837.5	2505.9	2366.7	2130		
0	2	51.6	48.8	43.9	106.5	100.6	90.5	123.7	116.8	105.1	178.5	168.6	151.8	216.2	204.2	183.8	250.6	236.7	213		
1	2	103.2	97.5	87.8	212.9	201.1	181	247.4	233.6	210.3	357.1	337.2	303.5	432.4	408.3	367.5	501.2	473.3	426		
2	2	154.9	146.3	131.6	319.4	301.7	271.5	371	350.4	315.4	535.6	505.8	455.3	648.5	612.5	551.3	751.2	704.6	639		
3	2	206.5	195	175.5	425.9	402.2	362	494.7	467.2	420.5	714.1	674.4	607	864.7	816.7	735	1002.4	946.7	852		
4	2	309.7	292.5	263.3	638.8	603.3	543	742.1	700.8	630.8	1017.2	1011.7	910.5	1297.1	1225	1102.5	1503.5	1420	1278		
5	2	412.9	390	351	851.8	804.4	724	989.4	934.4	841	1428.2	1348.9	1214	1729.4	1633.3	1470	2004.7	1893.3	1704		
6	2	464.8	438.8	394.9	958.2	905	814.5	1113.1	1051.3	946.1	1606.8	1517.5	1365.8	1945.6	1837.5	1653.8	2255.3	2130	1915		
7	2	516.2	487.5	438.8	1064.7	1005.6	905	1236.8	1168.1	1051.3	1785.3	1686.1	1517.5	2161.8	2041.7	1837.5	2505.9	2366.7	2130		
8	2	619.4	585	526.5	1277.6	1206.7	1086	1481.1	1401.7	1261.5	2142.4	2023.3	1821	2594.1	2450	2205	3007.1	2840	2556		
9	2	662.6	650	597.1	1397.1	1306.7	1157.1	1557.1	1458.7	1288.7	2348.9	2240.9	2023.3	2722.2	2640.9	2434.1	3155.5	2868	2604		
10	2	774.7	731.3	658.1	1597.1	1508.3	1357.1	1855.1	1756.1	1576.9	2729.7	2529.7	2276.3	3242.6	3063.1	2756.3	3758.9	3475.8	3150		
11	2	860.3	812.5	731.3	1714.5	1675.9	1508.3	2063.1	1946.8	1752.1	2975.5	2810.2	2529.2	3602.9	3408	3062.5	4176.5	3944.4	3550		
12	2	939.1	877.5	788.8	1916.5	1810	1629	2226.2	2102.5	1892.3	3213.5	3035	2731.5	3891.2	3675	3307.5	4510.6	4260	3834		
13	2	1032.4	975	877.5	2129.4	2011	1810	2475.5	2336.1	2025.0	3570.6	3372.2	3035	4233.5	4083.3	3675	5018.8	4733.3	4260		

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 [MHz]	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated MIMO Antenna Gain (measured) (dBi)	Uncorrelated MIMO Antenna Gain (measured) (dBi)
5925 – 6425	8.11	7.11	9.88	6.88
6425 – 6525	7.40	5.08	7.82	5.16
6525 – 6875	7.72	8.02	9.73	6.80
6875 – 7125	7.81	8.02	10.71	7.70

Table 2-15. 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.

This device supports operation under control of either a low-power indoor access point or standard power access point.

This device operates in the 5.925-7.125 GHz band when under control of an indoor access point. Additionally, the device may operate in the 5.925-6.425 GHz and 6.525-6.875 GHz bands when under control of a standard power access point

2.5 Software and Firmware

The test was conducted with 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) and the guidance provided in KDB 987594 D02 v03 were 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 7.4. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

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3.3 Radiated Emissions

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

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed 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 precautions were 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 were 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)
Contention Based Protocol Conducted Measurements	0.86
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

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

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

Table 6-1. Test Equipment Calibration Table

Note:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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: 15E 6GHz Low Power Dual Client (6CD)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1046, 15.407(a)(12)	RSS-248(4.5)	Maximum Conducted Output Power	N/A	CONDUCTED	PASS	See Original Filing for Module
15.407(a)(8), 15.407(a)(7)	RSS-248(4.5)	Maximum Radiated Output Power	< 24dBm over the frequency band of operation <30dBm over the frequency band of operation when connecting to a standard power access point		PASS	See Original Filing for Module
2.1049, 15.407(a)(11)	RSS-248(4.4)	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands. The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.		PASS	See Original Filing for Module
15.407(a)(8), 15.407(a)(7)	RSS-248(4.5)	Maximum Power Spectral Density	< -1dBm/MHz e.i.r.p. <17dBm/MHz when operating with a standard power access point		PASS	See Original Filing for Module
15.407(b)(7)	RSS-248(4.6)	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7)		PASS	See Original Filing for Module
15.407(d)(6)	RSS-248(4.7)	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	See Original Filing for Module
15.407(a)(7)	RSS-248(4.5.5)	Power Reduction Verification	EUT must limit its power to no more than 6dB below its associated standard power access point's authorized transmit power. EUT must distinguish its associated access point as standard or low power and control its power levels accordingly.		PASS	Section 7.2
15.407(b)(6)	RSS-248(4.6)	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	RADIATED	PASS	Section 7.3
15.205, 15.209	RSS-Gen (8.9)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS	Section 7.3
15.407(b)(9)	RSS-Gen (8.8)	AC Conducted Emissions (150kHz – 30MHz)	< FCC 15.207 limits	LINE CONDUCTED	PASS	Section 7.4

Table 7-1. Summary of Test Results

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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) Per 15.407(a)(7), a device operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands must not have the maximum power spectral density exceed 17 dBm/MHz e.i.r.p., must limit the maximum e.i.r.p. over the frequency band of operation does not exceed 30 dBm, and must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power. Compliance to this clause is addressed via submission of an attestation following Appendix B of KDB 987594 D01 v03.
- 5) 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.
- 6) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 1.7.1.

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7.2 Dual Client Device Additional Requirement (AFC Protocol) 15.407

Test Overview and Limit

Dual Client Device additional requirements (AFC Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a standard power access point to show compliance with 15.407.

The maximum power limits shall remain at least 6dB below the power levels authorized for the associated standard-power access point.

The EUT must distinguish its associated access point as standard or low power and control its power levels accordingly.

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
KDB 987594 D02 v03

Test Setup/Method

The EUT was connected via an RF cable to a power meter and a callbox acting as a 6GHz standard power access point. For LPI measurement, the device is connected to a power meter via an RF cable and to an LPI access point wirelessly.

1. Standard Power callbox:
 - a. Enable 6GHz standard power access point
 - b. Send command to set power limit
 - c. Connect EUT to callbox AP (CMX500) and generate traffic via iperf.
 - d. Measure output power at conducted ports of client EUT
2. Low power indoor access point:
 - a. Connect EUT to LPI AP network (TPLink Archer BE900) and generate traffic via iPerf.
 - b. Measure output power at conducted ports of client EUT

Test Notes

- The EUT is a Dual Client Device.
- The test was executed with the CMX SP AP authorized to transmit up to 21dBm, 28.5dBm, and 36dBm on Ch. 53 (6215MHz). The LPI AP was operating on channel 53.
- The lowest 9.00dBm power level is based on the EIRP resulting from the conducted power targets specified in the manufacturer's "WLAN and Bluetooth Maximum Power Document".
- For LPI power verification, the EUT was connected via a conducted connection to the power meter. Simultaneously, the EUT was able to see and establish a radiated connection with the low power indoor access point.
- The CMX 'Max Tx Power' values shown below are calculated as twice the value of (the set maximum EIRP level in dBm minus 6 dB); i.e., $\text{Max Tx Power} = (\text{Max EIRP [dBm]} - 6) \times 2$. $\text{Max Tx Power} = (60) = 36\text{dBm}$

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Test Setup Diagram

The testing was set up as shown in the diagram below:

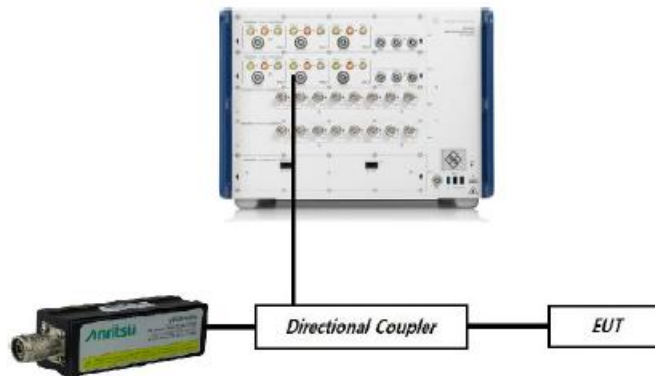


Figure 7-1. Test Setup Diagram for Power Reduction Verification Test

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Figure 7-2. Callbox Power Authorization – 36.00dBm

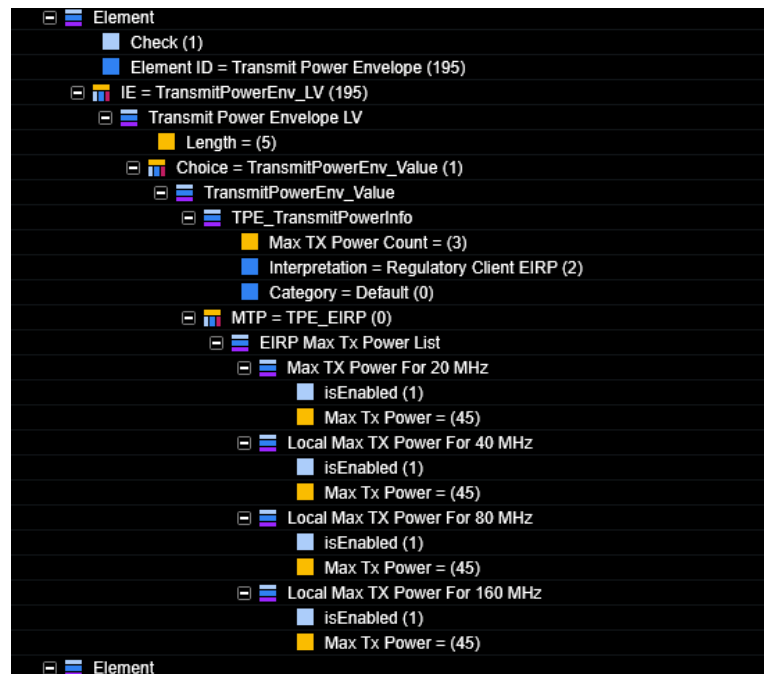


Figure 7-3. Callbox Power Authorization – 28.50dBm

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Figure 7-4. Callbox Power Authorization – 21.00dBm

AFC Authorized EIRP for AP [dBm]	Dual Client ANT1 Conducted Power [dBm]	Antenna Gain [dBi]	Dual Client EIRP [dBm]	Client EIRP Limit [dBm]	Margin [dB]
36.00	14.72	8.11	22.83	30.00	-7.17
28.50	10.25	8.11	18.36	22.50	-4.14
21.00	3.04	8.11	11.15	15.00	-3.85

Table 7-2. Dual Client Output Power Results – Ch.53

AP	AFC Authorized EIRP for AP [dBm]	Dual Client ANT1 Conducted Power [dBm]	Antenna Gain [dBi]	Dual Client EIRP [dBm]	Client EIRP Limit [dBm]	Margin [dB]
SP	36.00	14.72	8.11	22.83	30.00	-7.17
LPI		-2.98	8.11	5.13	24.00	-18.87

Table 7-3. Power Adjustment based on Associated AP Results – Ch.53

Sample e.i.r.p. Calculation:

At 6215MHz in 802.11ax (20MHz BW) mode, the average conducted power was 11.44 dBm with antenna gain of -10.4 dBi.

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

$$11.44 \text{ dBm} + -10.4 \text{ dBi} = 1.04 \text{ dBm}$$

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7.3 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax, 802.11ax (20/40/80/160/320MHz), 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 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27dBm/MHz (68.2dBuV/m at a 3m distance). Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

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 7-4. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Sections 12.7.7.2, 12.7.6, 12.7.5

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

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Peak Field Strength Measurements

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

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

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

Test Setup

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

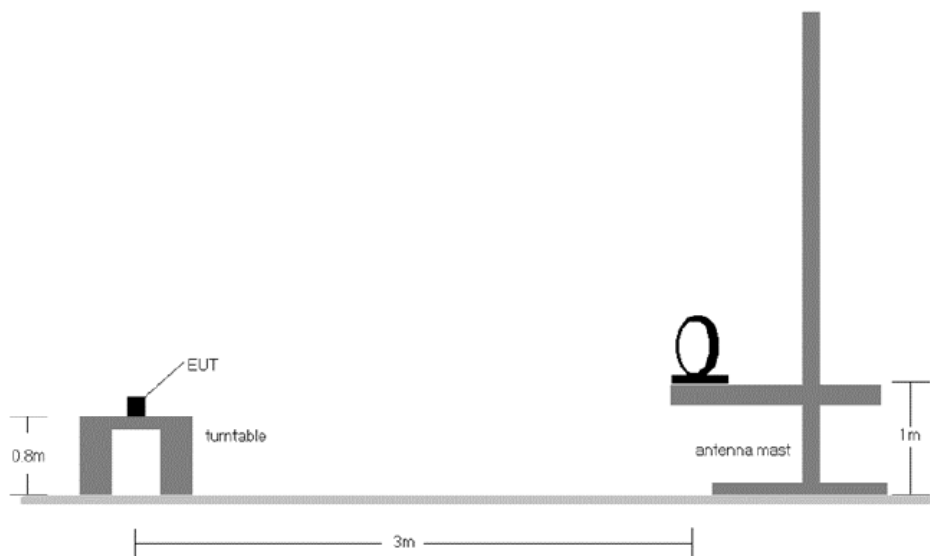


Figure 7-5. Radiated Test Setup < 30MHz

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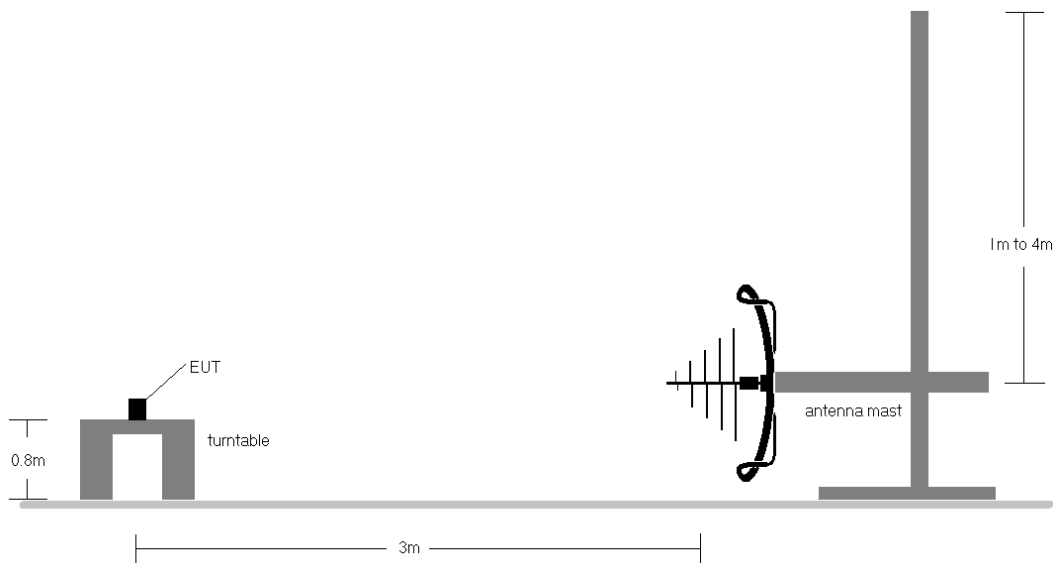


Figure 7-6. Radiated Test Setup < 1GHz

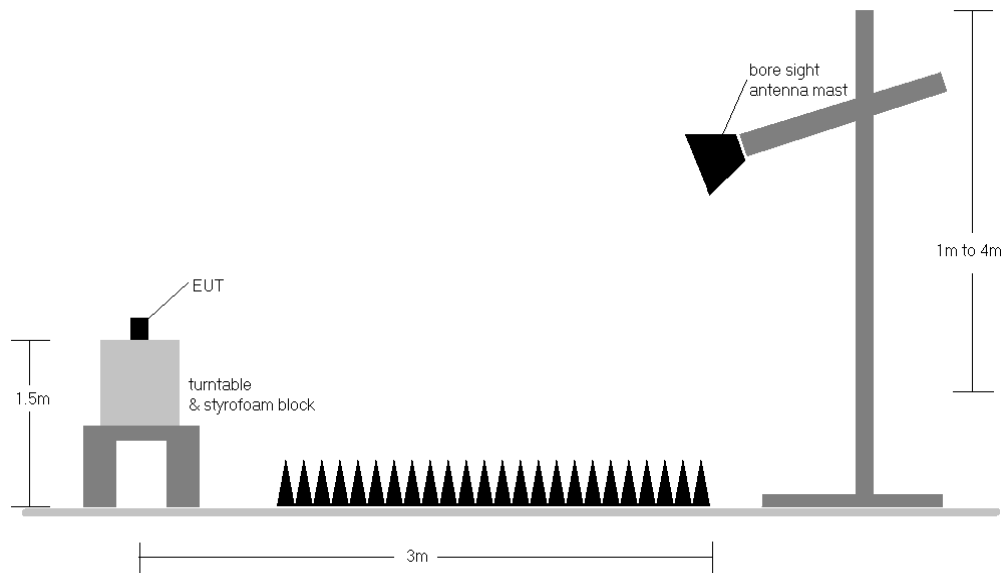


Figure 7-7. Radiated Test Setup > 1GHz

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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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limits specified 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. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
9. 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.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

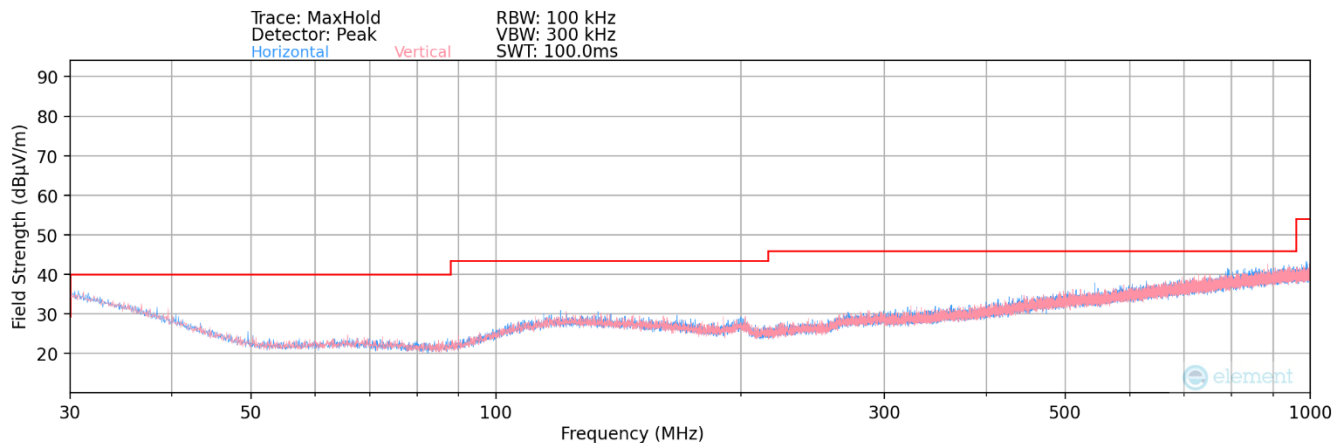
Radiated Band Edge Measurement Offset

The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:

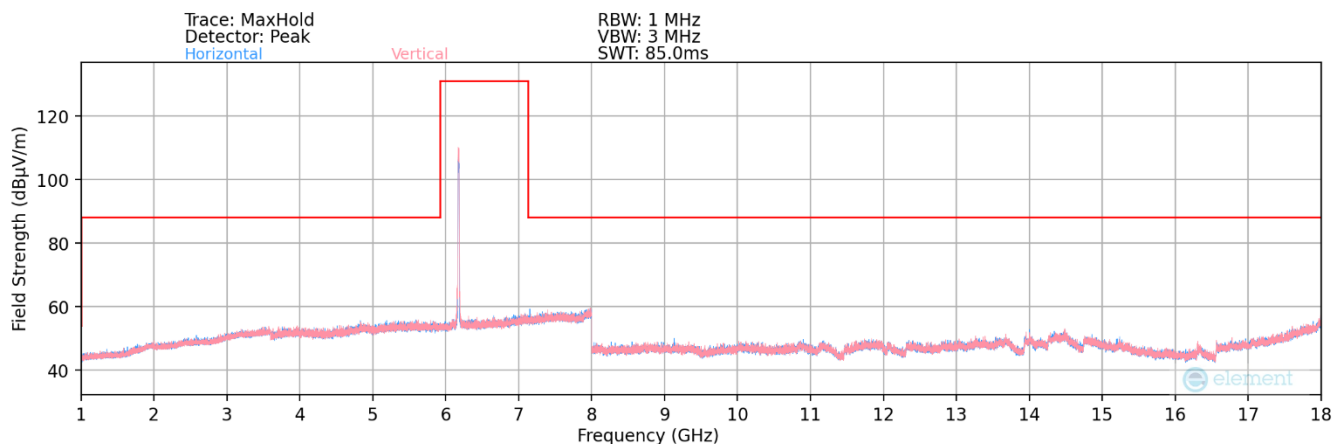
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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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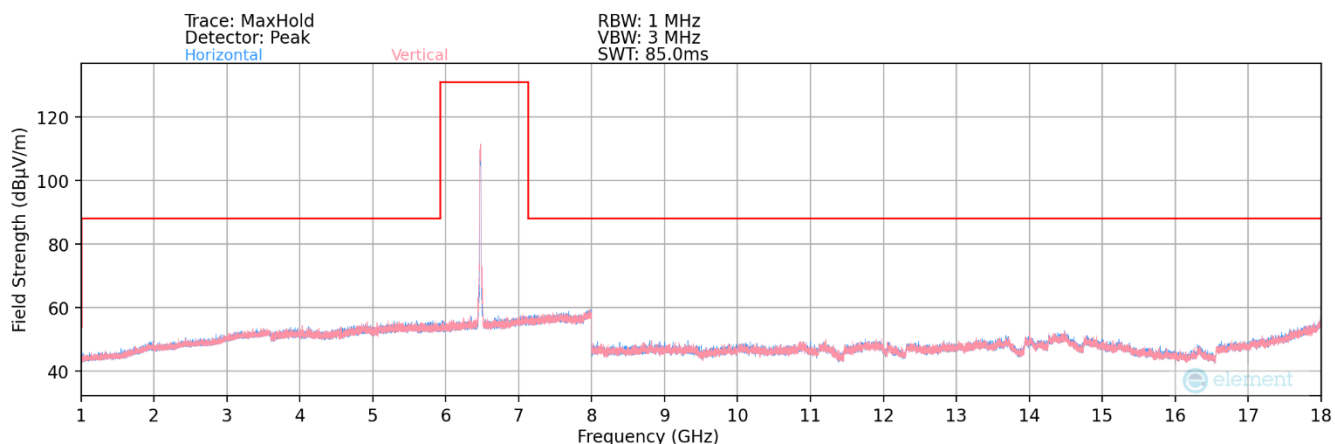
MIMO Radiated Spurious Emission Measurements



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

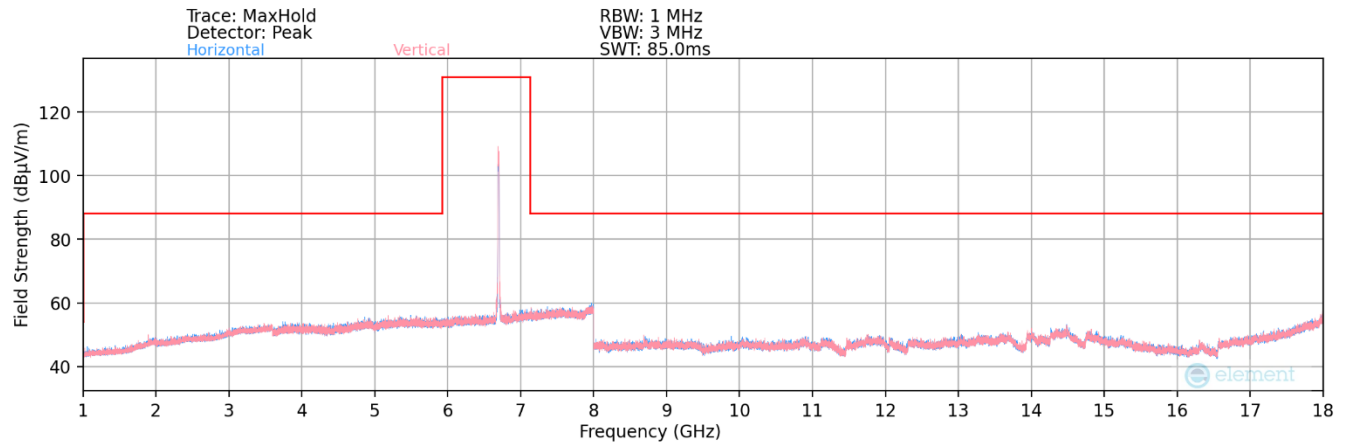


Plot 7-2. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11a – UNII Band 5 Ch. 45)

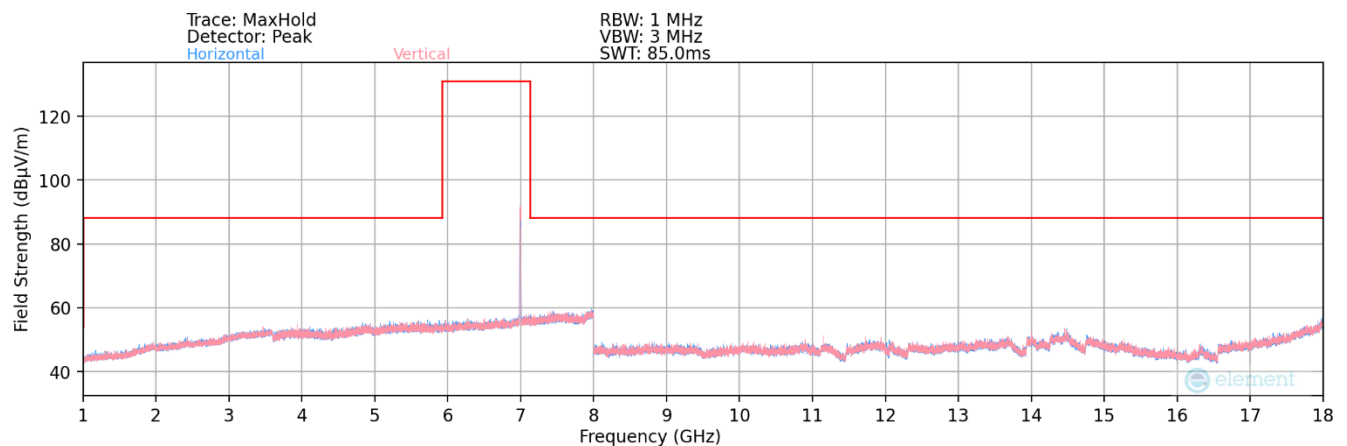


Plot 7-3. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11a – UNII Band 6 Ch. 105)

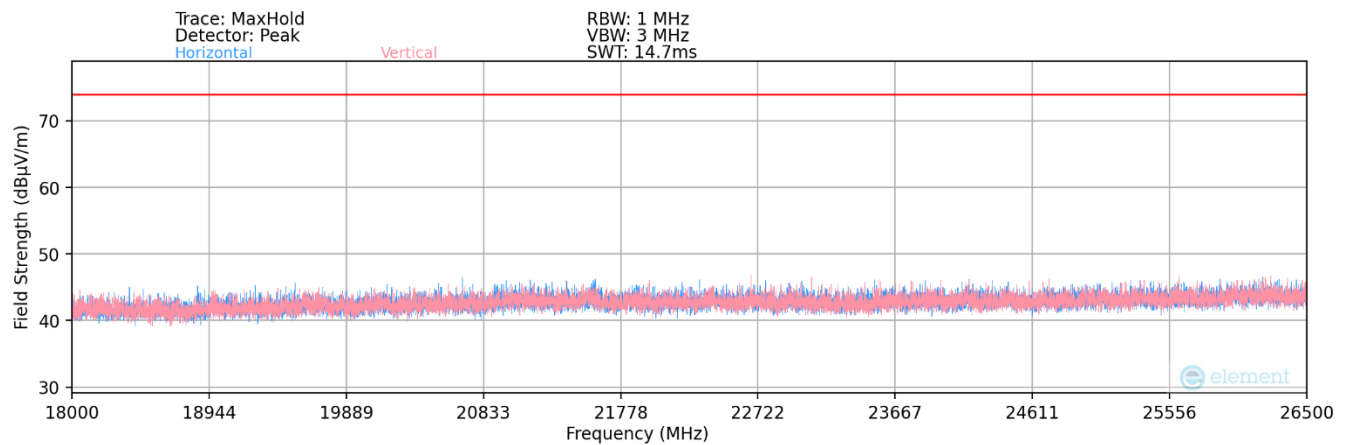
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Plot 7-4. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11a – UNII Band 7 Ch. 149)

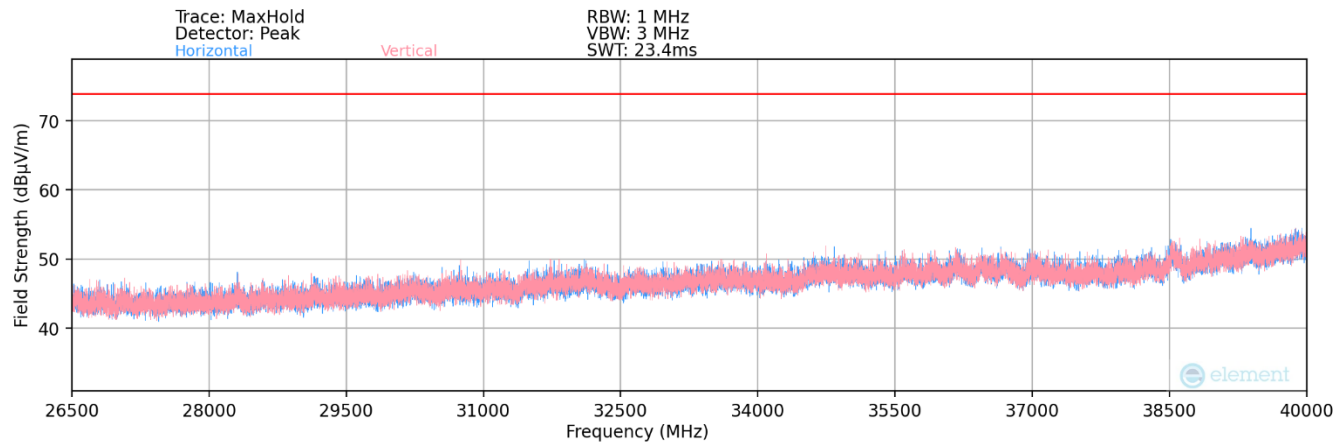


Plot 7-5. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11a – UNII Band 8 Ch. 209)



Plot 7-6. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a)

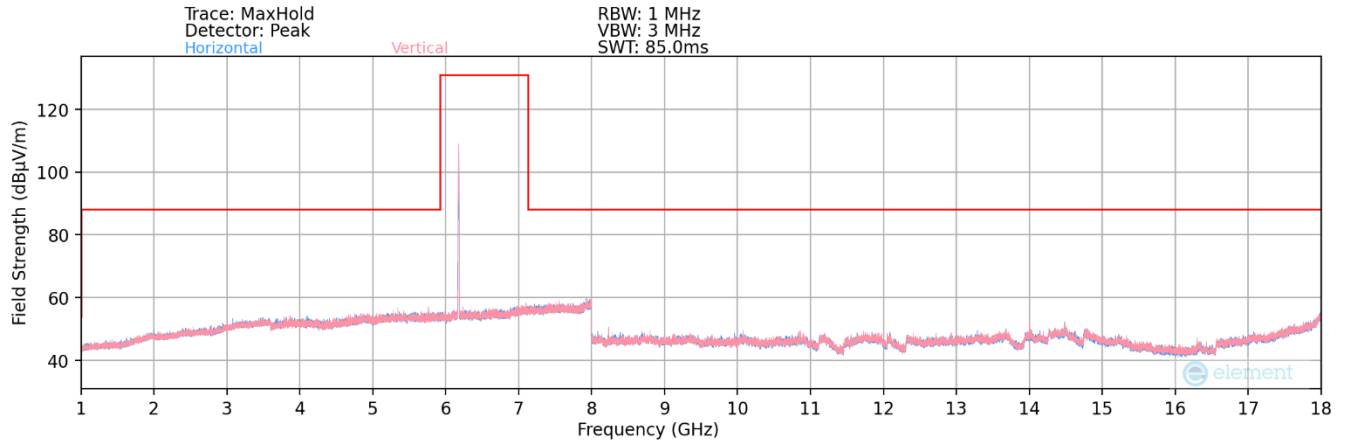
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Plot 7-7. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a)

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MIMO Radiated Spurious Emission Measurements



Plot 7-8. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45 – 52Tones)

Worst Case Mode: 802.11ax

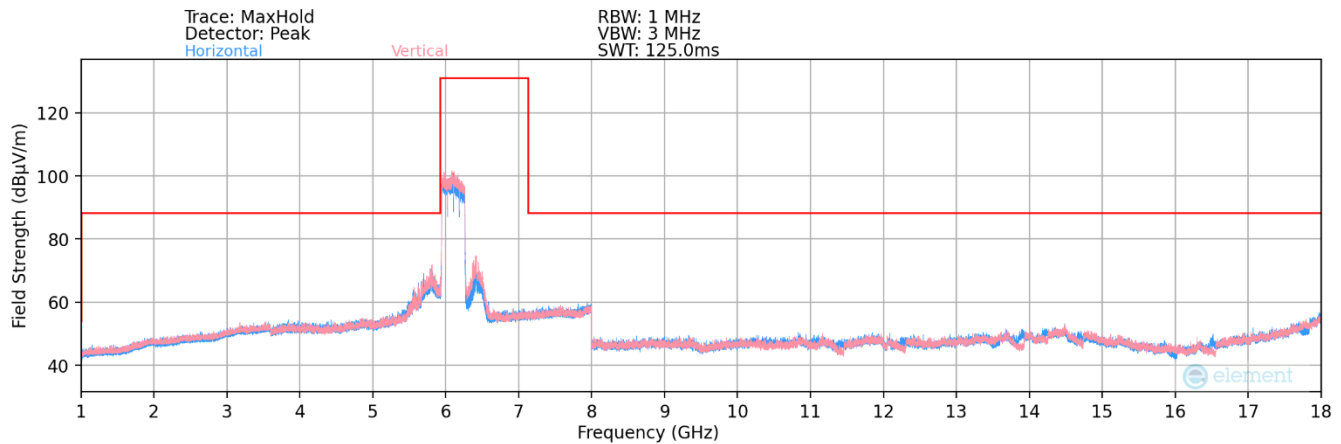
Worst Case Transfer Rate: MCS0

Distance of Measurements: 1 & 3 Meters

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]
802.11ax	MIMO	5	45	6175	39	*	12350.00	Average	V	-	-	-77.65	9.44	0.00	38.79	53.98	-15.19
						*	12350.00	Peak	V	-	-	-65.84	9.44	0.00	50.60	73.98	-23.38
						*	18525.00	Average	V	-	-	-64.27	1.22	-9.54	34.41	53.98	-19.57
						*	18525.00	Peak	V	-	-	-52.43	1.22	-9.54	46.25	73.98	-27.73
						*	24700.00	Peak	V	-	-	-50.73	3.70	-9.54	50.43	68.20	-17.77
802.11ax	MIMO	5	45	6175	39	*	30875.00	Peak	V	-	-	-48.25	6.39	-9.54	55.60	68.20	-12.60
						*	8233.00	Average	V	111	161	-66.41	5.58	0.00	46.17	53.98	-7.81
						*	8233.00	Peak	V	111	161	-60.14	5.58	0.00	52.44	73.98	-21.54
						*	14000.00	Peak	V	-	-	-65.35	12.05	0.00	53.70	68.20	-14.50
						*	14500.00	Average	V	-	-	-77.74	13.50	0.00	42.76	53.98	-11.22
802.11ax	MIMO	5	45	6175	39	*	14500.00	Peak	V	-	-	-65.92	13.50	0.00	54.58	73.98	-19.40

Table 7-5. Radiated Measurements MIMO

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Plot 7-9. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 31)

Worst Case Mode: 802.11ax

Worst Case Transfer Rate: MCS0

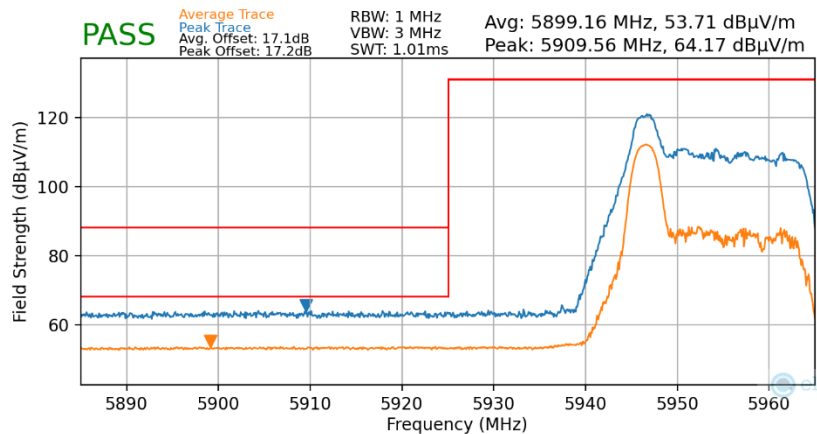
Distance of Measurements: 1 & 3 Meters

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]
802.11be	MIMO	5	31	6105	*	12210.00	Average	H	-	-	-77.45	9.41	0.00	38.96	53.98	-15.02
					*	12210.00	Peak	H	-	-	-65.40	9.41	0.00	51.01	73.98	-22.97
					*	18315.00	Average	H	-	-	-63.38	1.95	-9.54	36.03	53.98	-17.95
					*	18315.00	Peak	H	-	-	-52.35	1.95	-9.54	47.06	73.98	-26.92
						24420.00	Peak	H	-	-	-50.87	3.70	-9.54	50.28	68.20	-17.92
						30525.00	Peak	H	-	-	-47.36	7.33	-9.54	57.44	68.20	-10.76

Table 7-6. Radiated Measurements MIMO

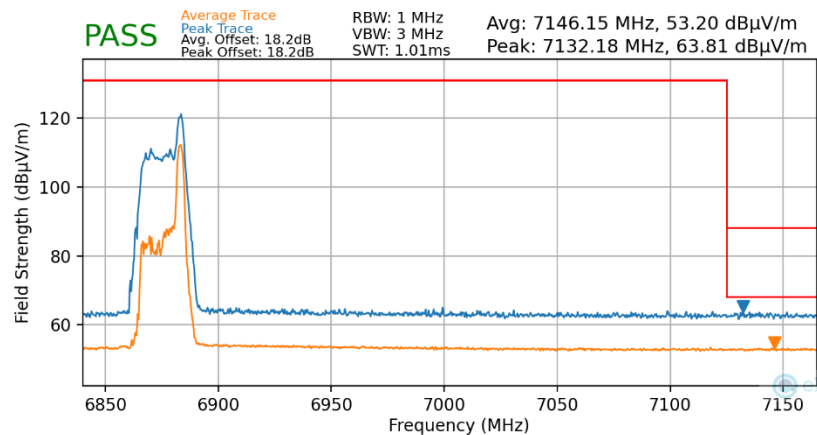
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax – SP
 Bandwidth: 20MHz BW – RU0
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5955MHz
 Channel: 1



Plot 7-10. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 5)

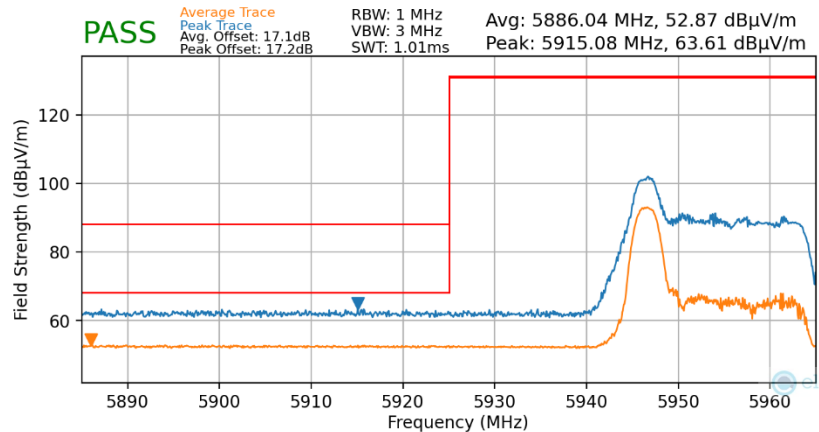
Worst Case Mode: 802.11ax – SP
 Bandwidth: 20MHz BW – RU8
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6875MHz
 Channel: 185



Plot 7-11. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 8)

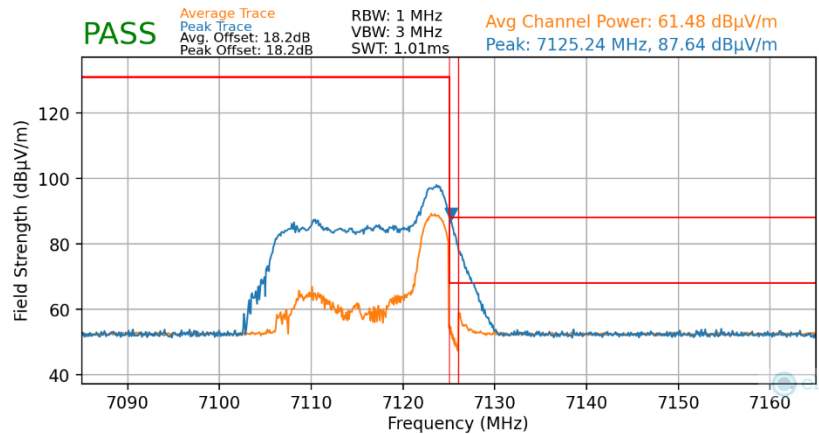
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax – LPI
 Bandwidth: 20MHz BW – RU0
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5955MHz
 Channel: 1



Plot 7-12. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 5)

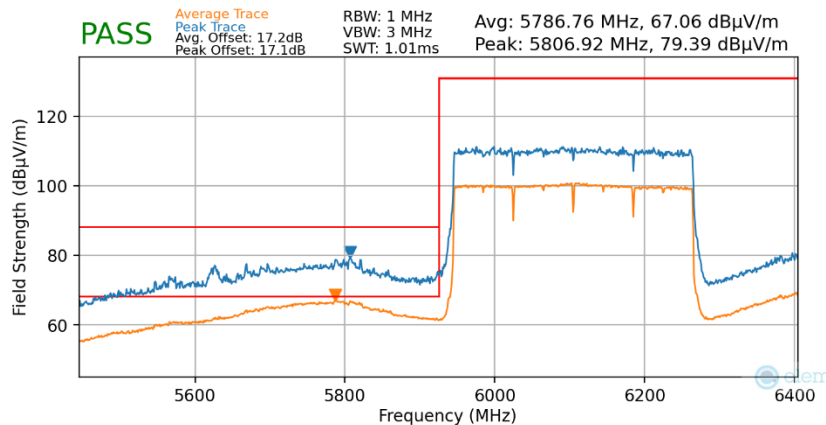
Worst Case Mode: 802.11ax – LPI
 Bandwidth: 20MHz BW – RU8
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233



Plot 7-13. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 8)

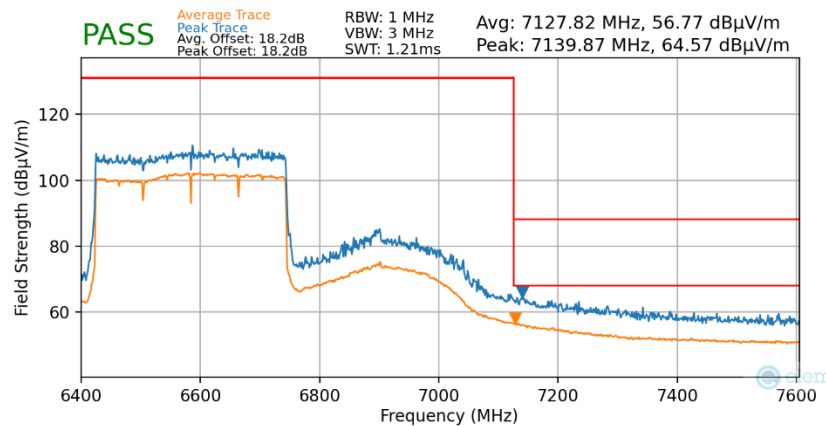
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-11-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Page 34 of 43	

Worst Case Mode: 802.11ax – SP
 Bandwidth: 320MHz BW
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6105MHz
 Channel: 31



Plot 7-14. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 5)

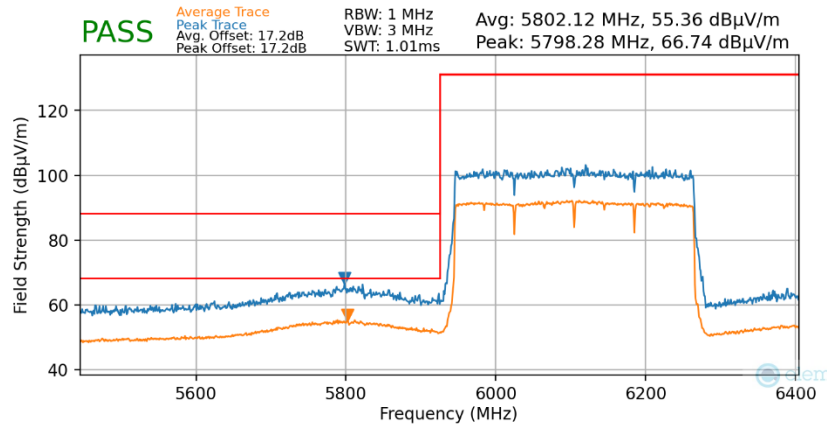
Worst Case Mode: 802.11ax – SP
 Bandwidth: 320MHz BW
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6585MHz
 Channel: 127



Plot 7-15. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 8)

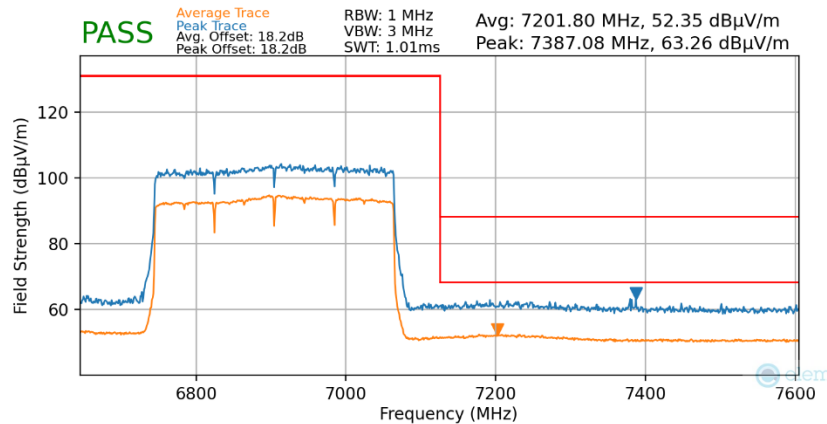
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11ax – LPI
 Bandwidth: 320MHz BW
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6105MHz
 Channel: 31



Plot 7-16. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 5)

Worst Case Mode: 802.11ax – LPI
 Bandwidth: 320MHz BW
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6905MHz
 Channel: 191



Plot 7-17. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 8)

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

Test Overview and Limit

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

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

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

Table 7-7. 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.

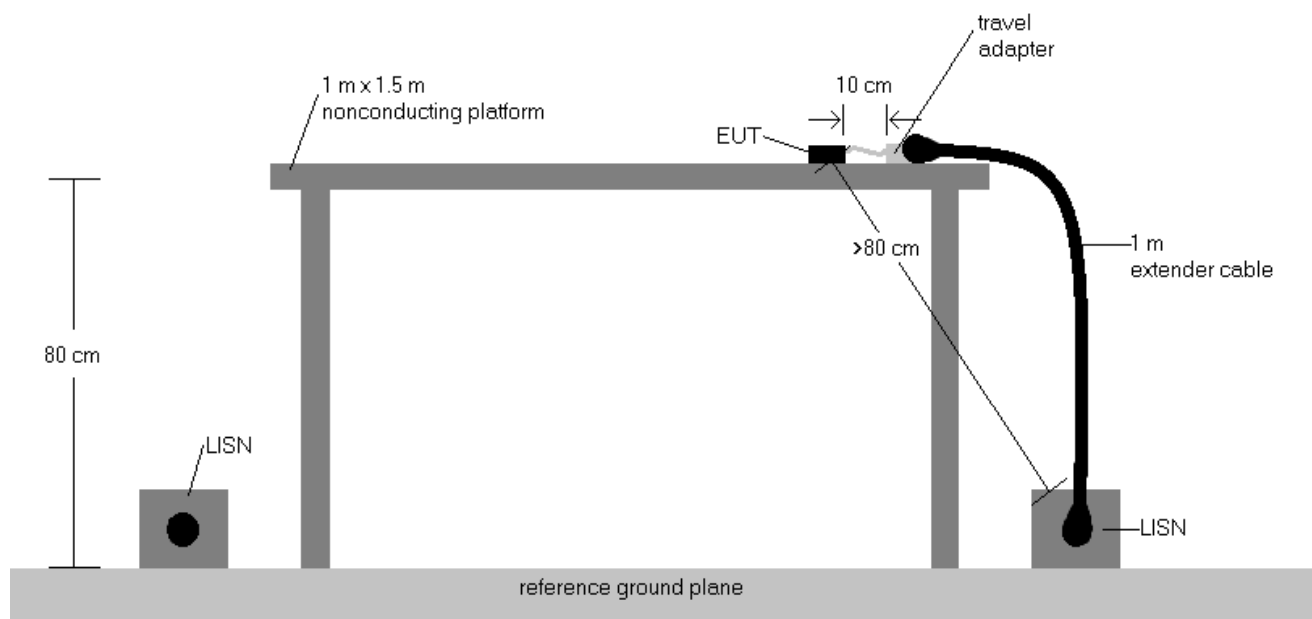
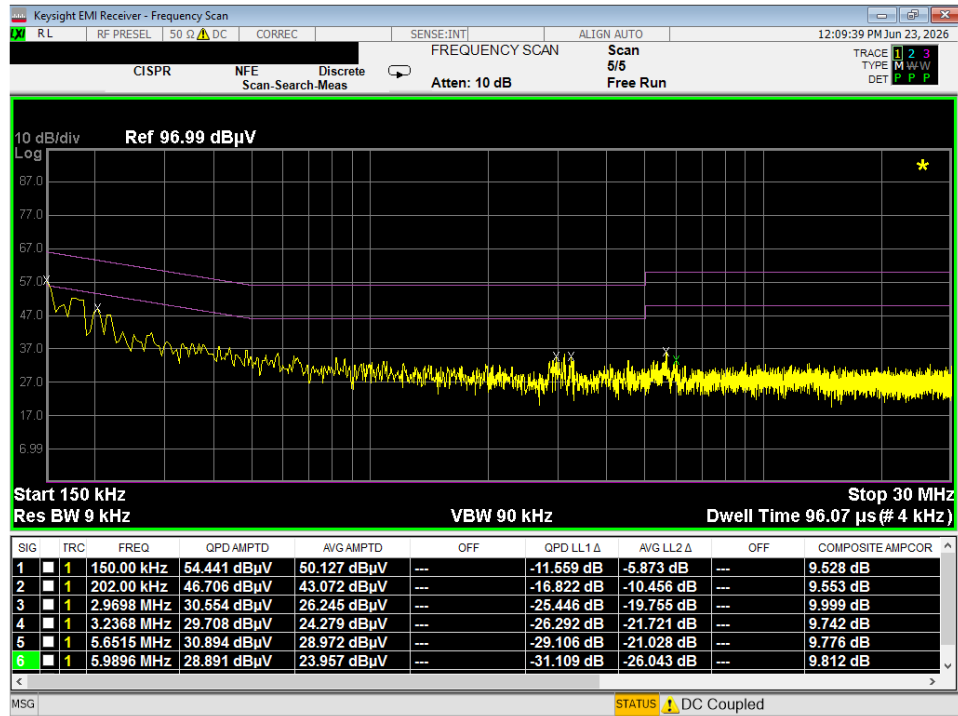


Figure 7-8. Test Instrument & Measurement Setup

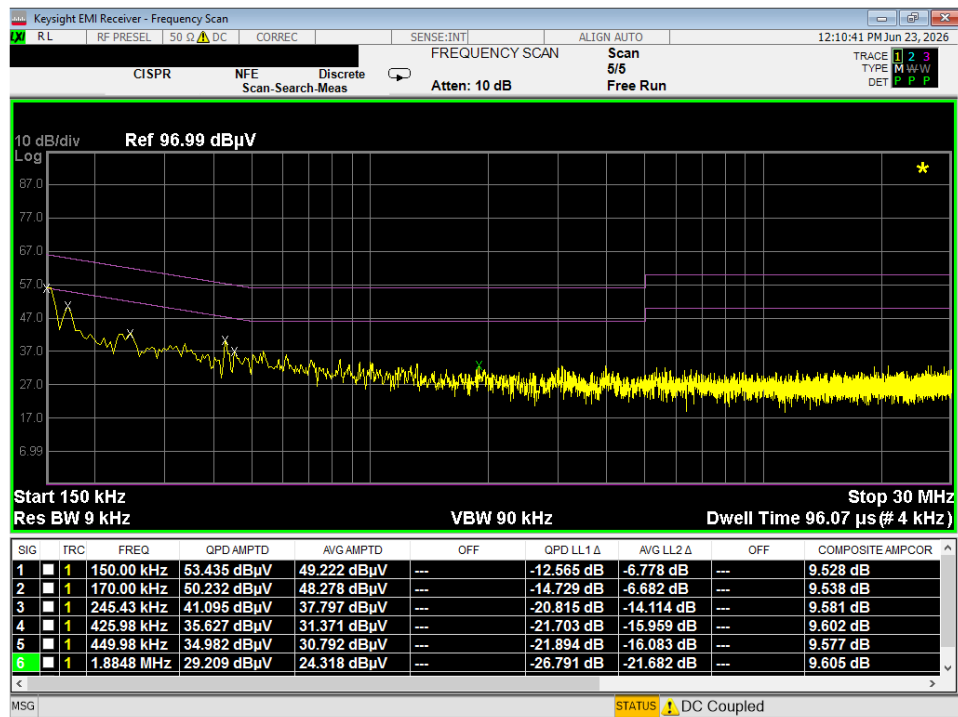
Test Notes

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.
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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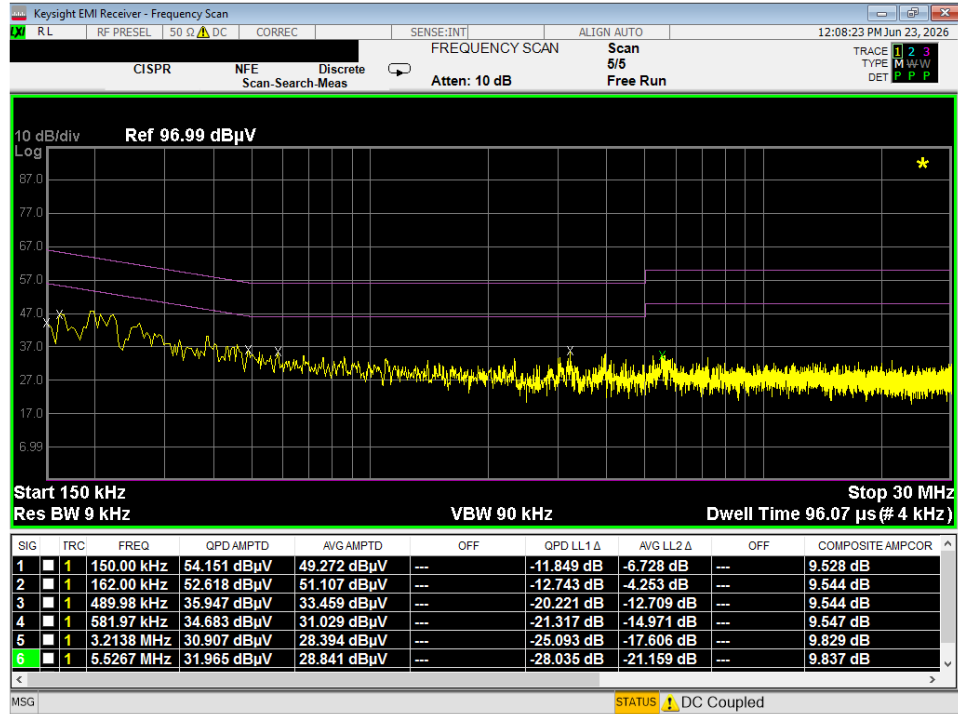


Plot 7-18. Line Conducted Plot with 802.11a UNII Band 5 (L1)

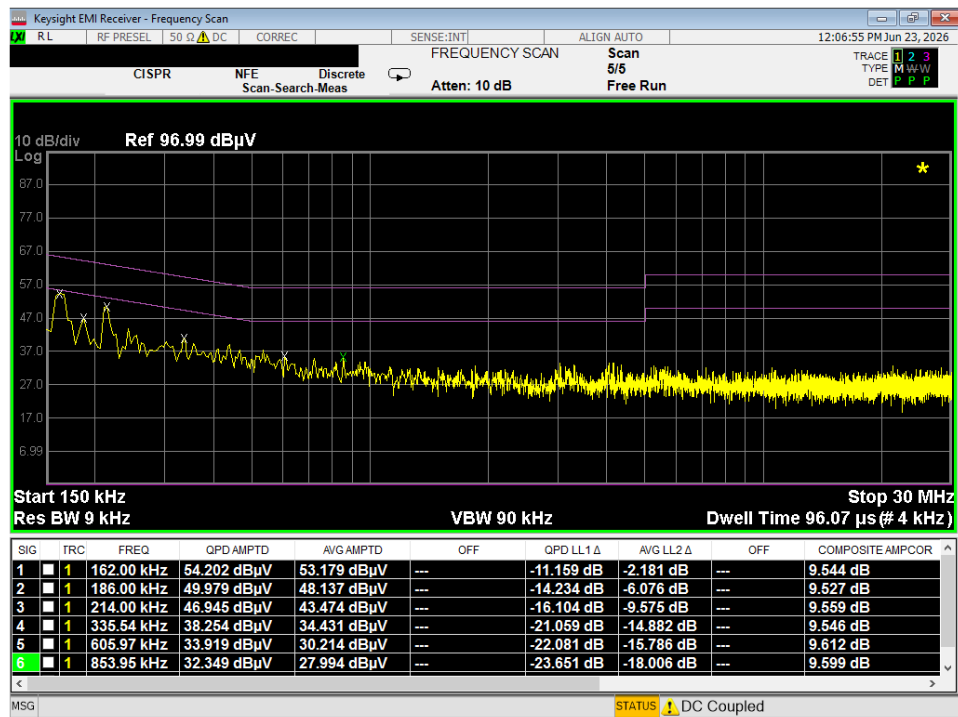


Plot 7-19. Line Conducted Plot with 802.11a UNII Band 5 (N)

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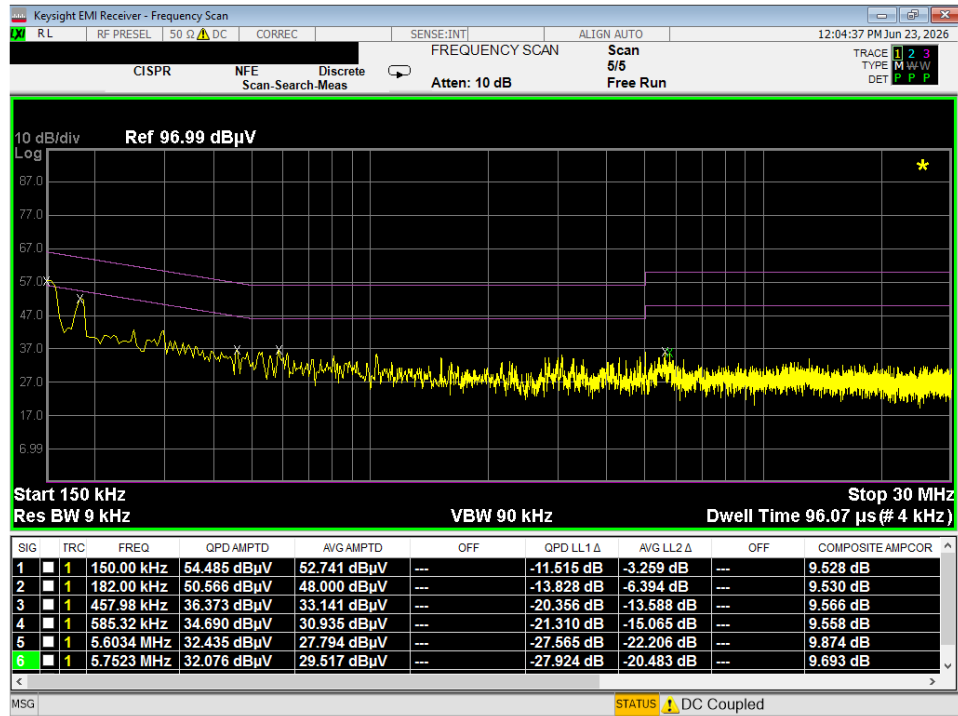


Plot 7-20. Line Conducted Plot with 802.11a UNII Band 6 (L1)

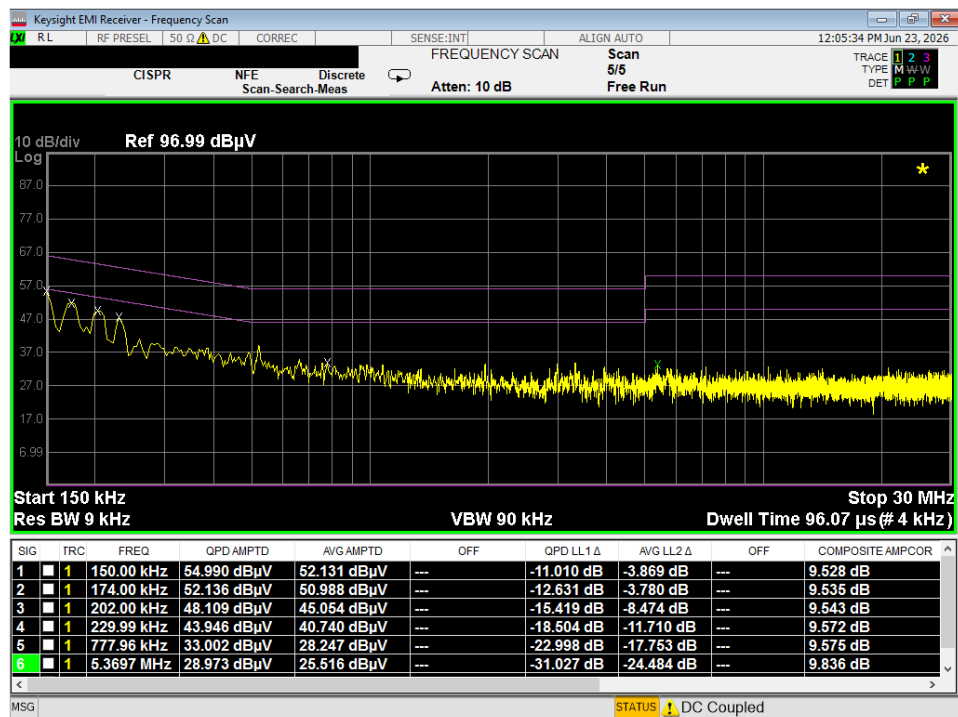


Plot 7-21. Line Conducted Plot with 802.11a UNII Band 6 (N)

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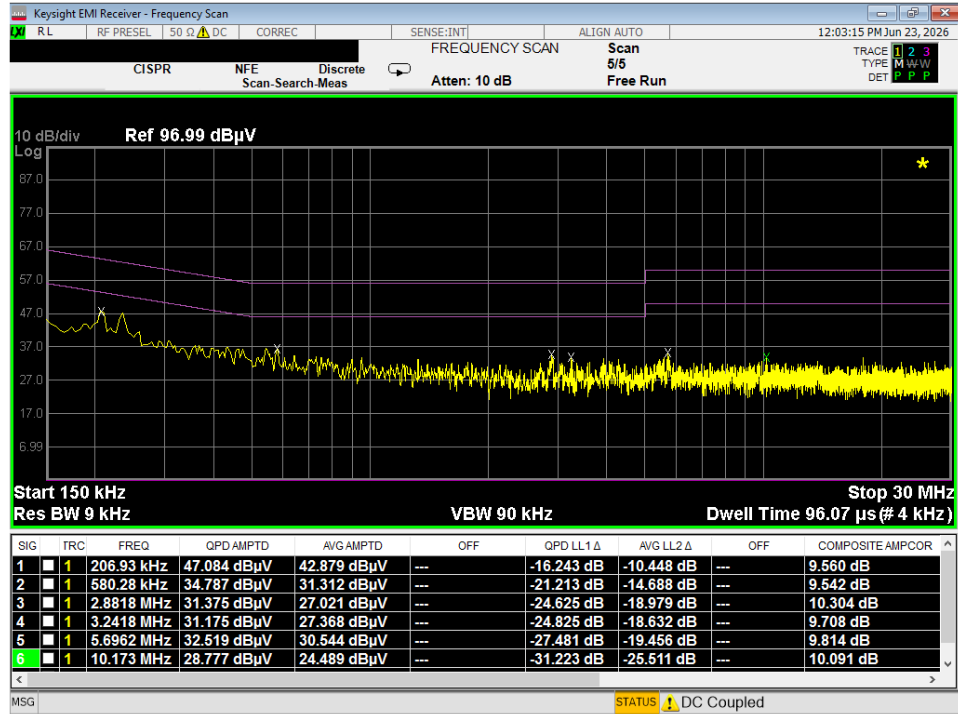


Plot 7-22. Line Conducted Plot with 802.11a UNII Band 7 (L1)

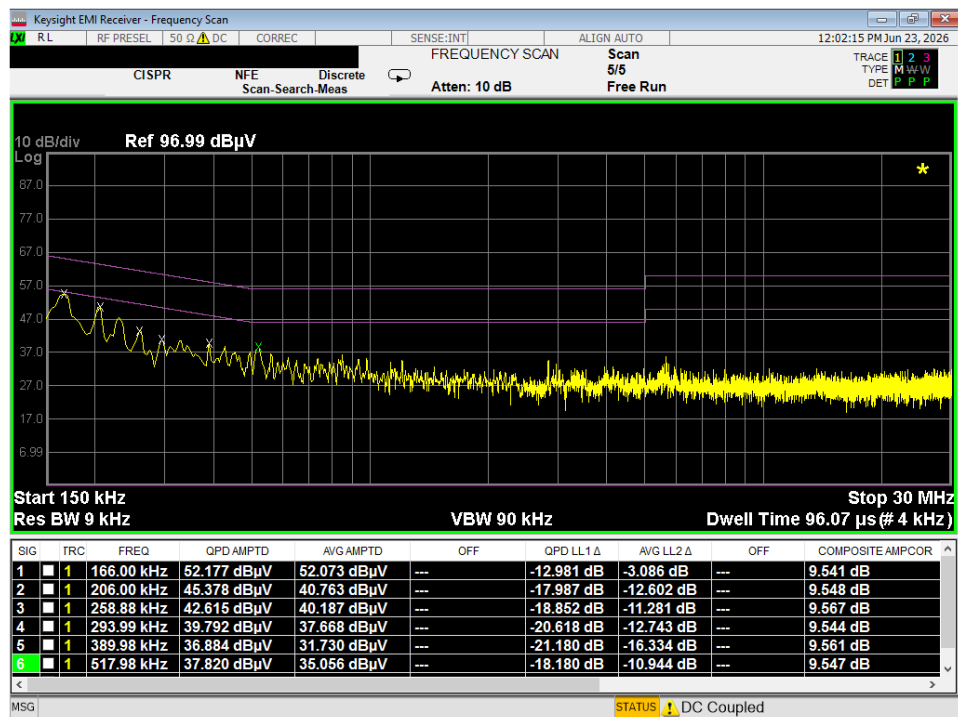


Plot 7-23. Line Conducted Plot with 802.11a UNII Band 7 (N)

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Plot 7-24. Line Conducted Plot with 802.11a UNII Band 8 (L1)



Plot 7-25. Line Conducted Plot with 802.11a UNII Band 8 (N)

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8.0 CONCLUSION

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

- END OF TEST REPORT -

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