

**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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ V/m] – Limit [dB $\mu$ V/m]

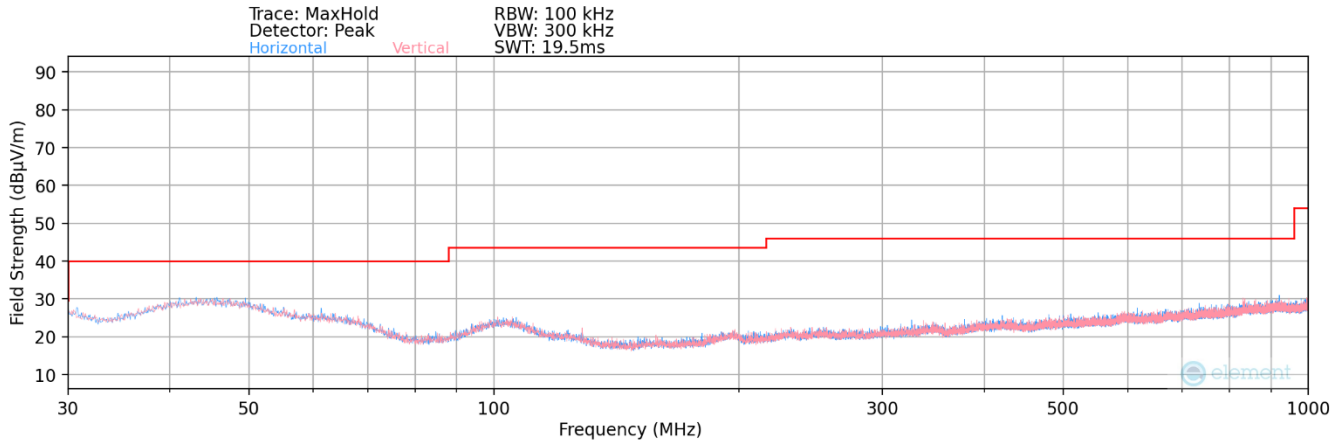
**Radiated Band Edge Measurement Offset**

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

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

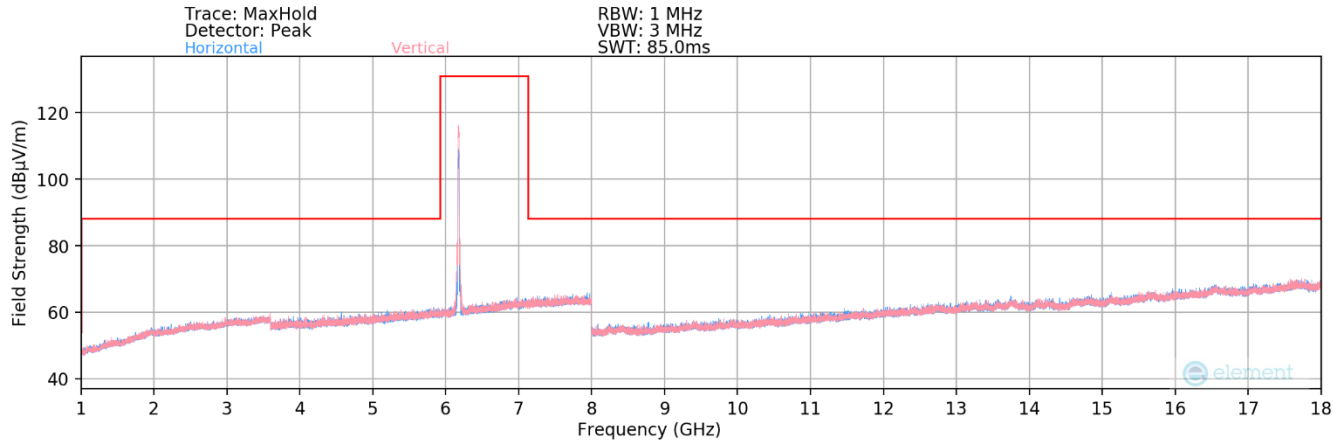
<b>FCC ID:</b> C3K2085 <b>IC:</b> 3048A-2085	<b>MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2311170118-11-R2.C3K	<b>Test Dates:</b> 01/03/2024 - 03/18/2024	<b>EUT Type:</b> Portable Computing Device	Page 148 of 166

### 7.7.1 MIMO Radiated Spurious Emission Measurements



**Plot 7-210. Radiated Spurious Plot below 1GHz MIMO (802.11ax)**

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<b>Test Report S/N:</b> 1M2311170118-11-R2.C3K	<b>Test Dates:</b> 01/03/2024 - 03/18/2024	<b>EUT Type:</b> Portable Computing Device	Page 149 of 166

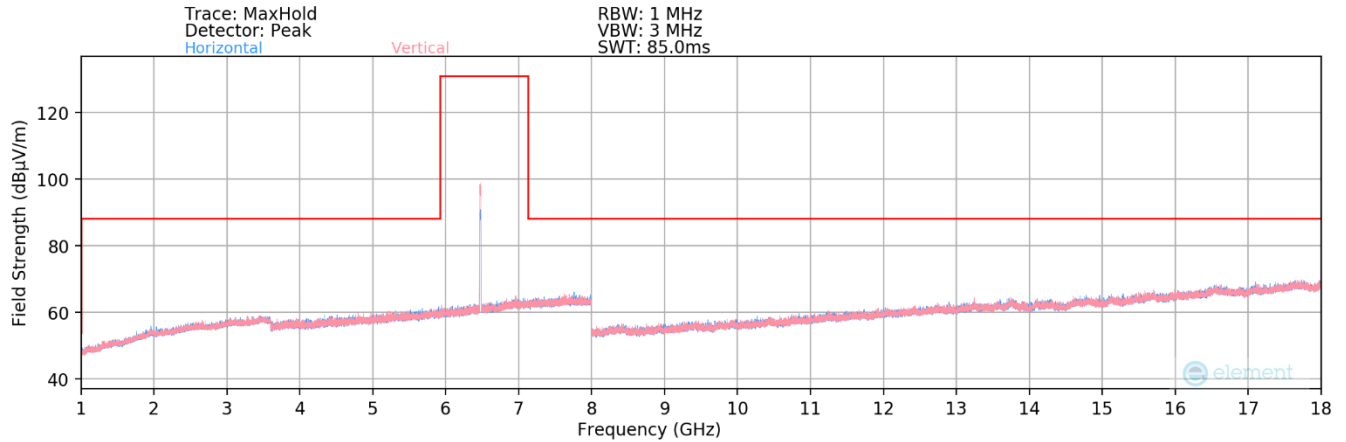


**Plot 7-211. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45 – SP)**

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]	
MIMO	5	1	5955	*	11910.00	Average	H	-	-	-81.94	18.56	0.00	43.62	53.98	-10.36	
				*	11910.00	Peak	H	-	-	-69.81	18.56	0.00	55.75	73.98	-18.23	
				*	17865.00	Average	H	-	-	-82.56	26.45	0.00	50.89	53.98	-3.09	
				*	17865.00	Peak	H	-	-	-70.71	26.45	0.00	62.74	73.98	-11.24	
				*	23820.00	Average	H	-	-	-64.32	3.69	-9.54	36.83	53.98	-17.15	
				*	23820.00	Peak	H	-	-	-53.31	3.69	-9.54	47.85	73.98	-26.13	
		45	6175	*	29775.00	Peak	H	-	-	-	-55.62	5.69	-9.54	47.53	68.20	-20.67
				*	12350.00	Average	H	-	-	-	-81.99	19.15	0.00	44.16	53.98	-9.82
				*	12350.00	Peak	H	-	-	-	-70.61	19.15	0.00	55.54	73.98	-18.44
				*	18525.00	Average	H	150	195	-63.08	1.35	-9.54	35.73	53.98	-18.25	
				*	18525.00	Peak	H	150	195	-52.32	1.35	-9.54	46.49	73.98	-27.49	
				*	24700.00	Peak	H	-	-	-53.72	3.92	-9.54	47.66	68.20	-20.54	
		93	6415	*	30875.00	Peak	H	-	-	-	-56.34	6.52	-9.54	47.64	68.20	-20.56
				*	12830.00	Peak	H	-	-	-	-70.44	20.24	0.00	56.80	68.20	-11.40
				*	19245.00	Average	H	150	209	-65.34	2.14	-9.54	34.26	53.98	-19.72	
				*	19245.00	Peak	H	150	209	-52.82	2.14	-9.54	46.78	73.98	-27.20	
				*	25660.00	Peak	H	-	-	-53.38	4.06	-9.54	48.14	68.20	-20.06	
				*	32075.00	Peak	H	-	-	-55.72	7.31	-9.54	49.05	68.20	-19.15	

**Table 7-43. Radiated Measurements MIMO - SP**

FCC ID: C3K2085 IC: 3048A-2085	<b>MEASUREMENT REPORT</b>		Approved by: Technical Manager
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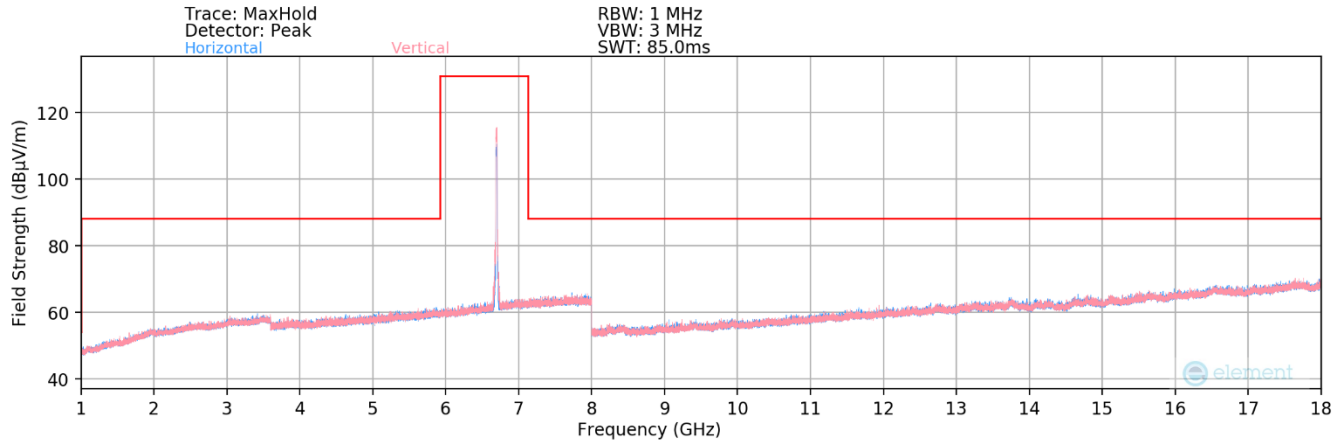


**Plot 7-212. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 6 Ch. 105 – LPI)**

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]
MIMO	6	97	6435		12870.00	Peak	H	-	-	-70.91	20.11	0.00	56.20	68.20	-12.00
				*	19305.00	Average	H	-	-	-65.81	1.91	-9.54	33.56	53.98	-20.42
				*	19305.00	Peak	H	-	-	-52.78	1.91	-9.54	46.59	73.98	-27.39
					25740.00	Peak	H	-	-	-53.42	4.17	-9.54	48.20	68.20	-20.00
					32175.00	Peak	H	-	-	-55.72	7.29	-9.54	49.03	68.20	-19.17
		105	6475		12950.00	Peak	H	-	-	-70.95	20.20	0.00	56.25	68.20	-11.95
				*	19425.00	Average	H	-	-	-66.15	2.00	-9.54	33.31	53.98	-20.67
				*	19425.00	Peak	H	-	-	-52.70	2.00	-9.54	46.76	73.98	-27.22
					25900.00	Peak	H	-	-	-54.26	4.35	-9.54	47.55	68.20	-20.65
					32375.00	Peak	H	-	-	-56.28	6.96	-9.54	48.15	68.20	-20.05
		113	6515		13030.00	Peak	H	-	-	-71.08	20.73	0.00	56.65	68.20	-11.55
				*	19545.00	Average	H	-	-	-66.21	2.03	-9.54	33.28	53.98	-20.70
				*	19545.00	Peak	H	-	-	-53.68	2.03	-9.54	45.81	73.98	-28.17
					26060.00	Peak	H	-	-	-54.12	4.52	-9.54	47.86	68.20	-20.34
					32575.00	Peak	H	-	-	-56.05	6.28	-9.54	47.69	68.20	-20.51

**Table 7-44. Radiated Measurements MIMO – LPI**

FCC ID: C3K2085 IC: 3048A-2085	<b>MEASUREMENT REPORT</b>		Approved by: Technical Manager
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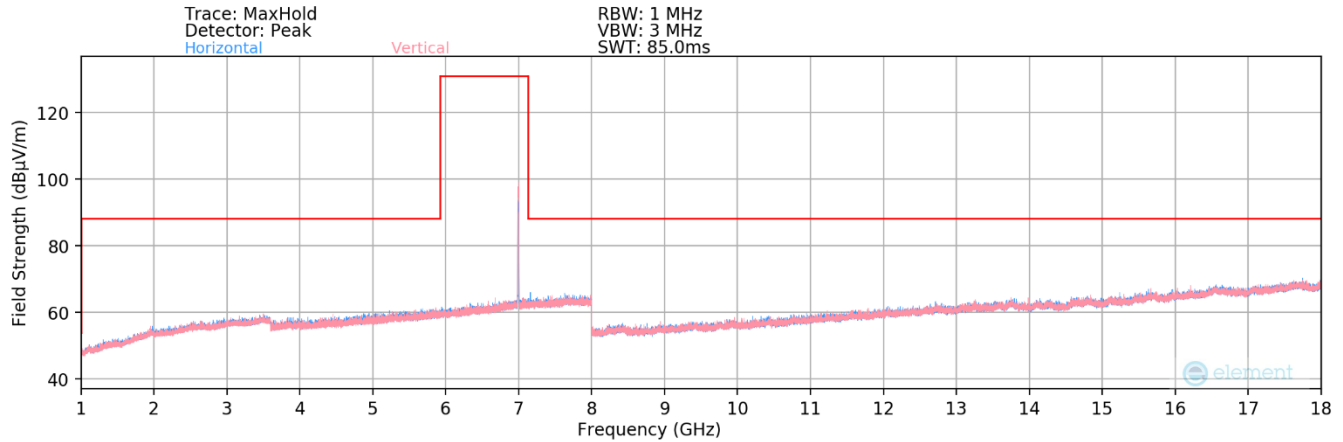


**Plot 7-213. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149 – SP)**

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]
MIMO	7	117	6535		13070.00	Peak	H	-	-	-71.46	20.53	0.00	56.07	68.20	-12.13
				*	19605.00	Average	H	150	190	-65.95	2.44	-9.54	33.95	53.98	-20.02
				*	19605.00	Peak	H	150	190	-52.79	2.44	-9.54	47.12	73.98	-26.86
					26140.00	Peak	H	-	-	-53.84	4.36	-9.54	47.97	68.20	-20.23
					32675.00	Peak	H	-	-	-56.22	6.52	-9.54	47.76	68.20	-20.44
		149	6695	*	13390.00	Average	H	-	-	-82.04	21.23	0.00	46.19	53.98	-7.79
				*	13390.00	Peak	H	-	-	-70.46	21.23	0.00	57.77	73.98	-16.21
				*	20085.00	Peak	H	150	193	-66.02	2.83	-9.54	34.27	53.98	-19.71
				*	20085.00	Average	H	150	193	-52.95	2.83	-9.54	47.34	73.98	-26.64
					26780.00	Peak	H	-	-	-54.30	4.33	-9.54	47.49	68.20	-20.71
		185	6875		33475.00	Peak	H	-	-	-56.12	6.78	-9.54	48.12	68.20	-20.08
					13750.00	Peak	H	-	-	-71.32	21.74	0.00	57.42	68.20	-10.78
				*	20625.00	Average	H	150	233	-65.89	3.19	-9.54	34.76	53.98	-19.21
				*	20625.00	Peak	H	150	233	-53.10	3.19	-9.54	47.55	73.98	-26.43
					27500.00	Peak	H	-	-	-54.51	4.29	-9.54	47.24	68.20	-20.96
	34375.00	Peak	H	-	-	-57.09	7.64	-9.54	48.01	68.20	-20.19				

**Table 7-45. Radiated Measurements MIMO – SP**

FCC ID: C3K2085 IC: 3048A-2085	<b>MEASUREMENT REPORT</b>		Approved by: Technical Manager
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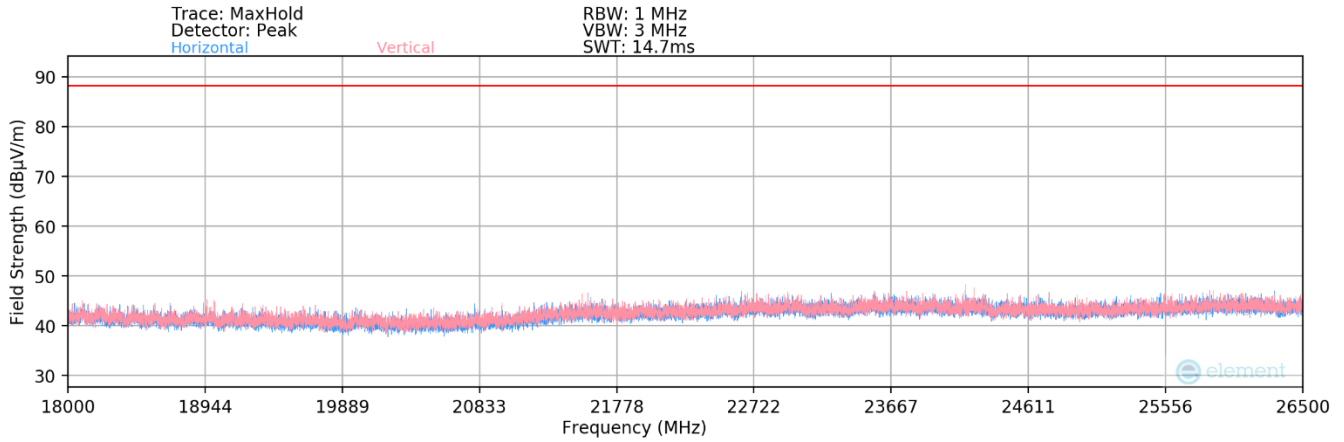


**Plot 7-214. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – U Band 8 Ch. 209 – LPI)**

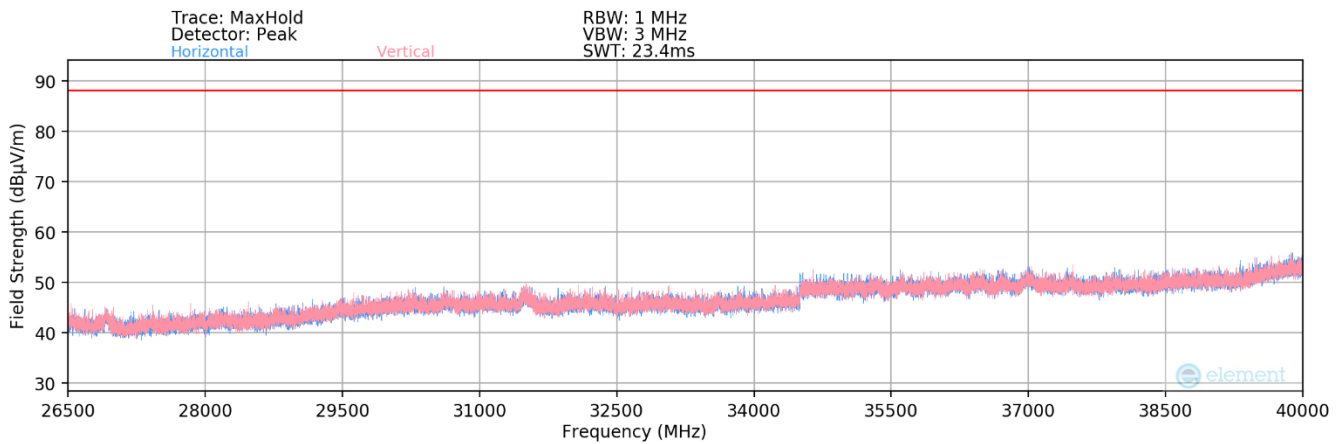
Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
MIMO	8	189	6895		13790.00	Peak	H	-	-	-72.08	21.78	0.00	56.70	68.20	-11.50
				*	20685.00	Average	H	-	-	-66.68	3.44	-9.54	34.22	53.98	-19.76
				*	20685.00	Peak	H	-	-	-53.48	3.44	-9.54	47.42	73.98	-26.56
					27580.00	Peak	H	-	-	-54.58	4.41	-9.54	47.29	68.20	-20.91
			34475.00	Peak	H	-	-	-56.66	7.51	-9.54	48.31	68.20	-19.89		
		209	6995		13990.00	Peak	H	-	-	-73.12	21.47	0.00	55.35	68.20	-12.85
				*	20985.00	Average	H	-	-	-66.89	3.43	-9.54	34.00	53.98	-19.98
				*	20985.00	Peak	H	-	-	-54.07	3.43	-9.54	46.82	73.98	-27.16
					27980.00	Peak	H	-	-	-55.16	4.64	-9.54	46.95	68.20	-21.25
			34975.00	Peak	H	-	-	-55.21	7.84	-9.54	50.09	68.20	-18.11		
		233	7115		14230.00	Peak	H	-	-	-74.96	22.25	0.00	54.29	68.20	-13.91
				*	21345.00	Average	H	-	-	-66.70	3.85	-9.54	34.61	53.98	-19.37
				*	21345.00	Peak	H	-	-	-54.00	3.85	-9.54	47.31	73.98	-26.67
					28460.00	Peak	H	-	-	-54.83	4.80	-9.54	47.43	68.20	-20.77
			35575.00	Peak	H	-	-	-56.19	7.95	-9.54	49.22	68.20	-18.98		

**Table 7-46. Radiated Measurements MIMO – LPI**

FCC ID: C3K2085 IC: 3048A-2085	<b>MEASUREMENT REPORT</b>		Approved by: Technical Manager
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**Plot 7-215. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)**

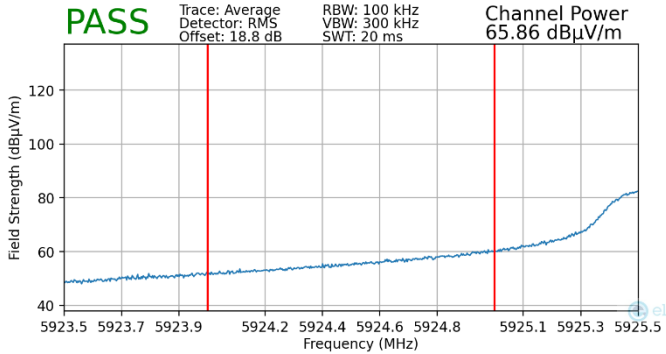


**Plot 7-216. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)**

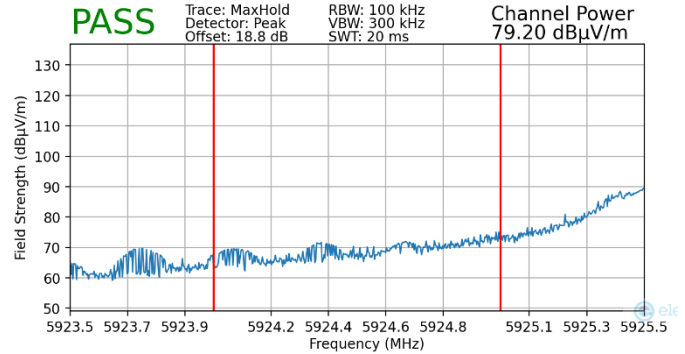
<b>FCC ID:</b> C3K2085 <b>IC:</b> 3048A-2085	<b>MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2311170118-11-R2.C3K	<b>Test Dates:</b> 01/03/2024 - 03/18/2024	<b>EUT Type:</b> Portable Computing Device	Page 154 of 166

## 7.7.2 MIMO Radiated Band Edge Measurements (20MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

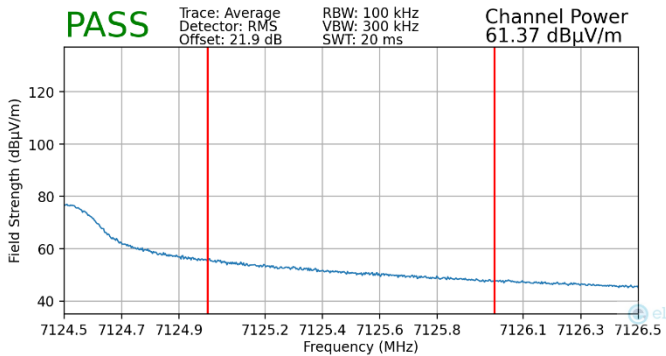


**Plot 7-217. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

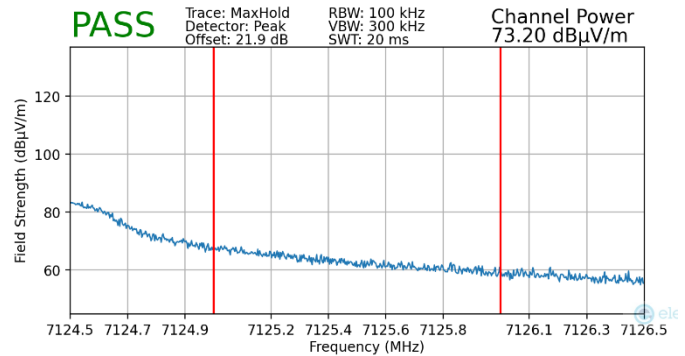


**Plot 7-218. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MSC0
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



**Plot 7-219. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**



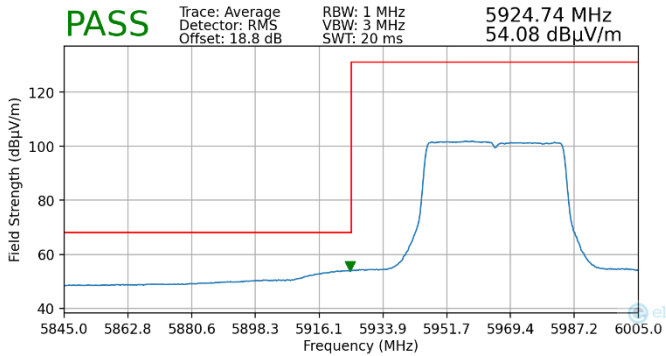
**Plot 7-220. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

FCC ID: C3K2085 IC: 3048A-2085	<b>MEASUREMENT REPORT</b>		Approved by: Technical Manager
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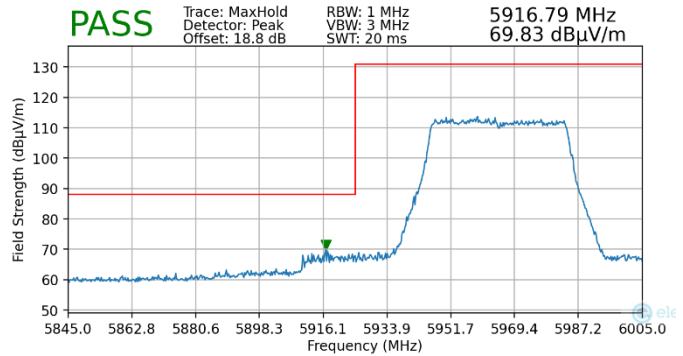


### 7.7.3 MIMO Radiated Band Edge Measurements (40MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3

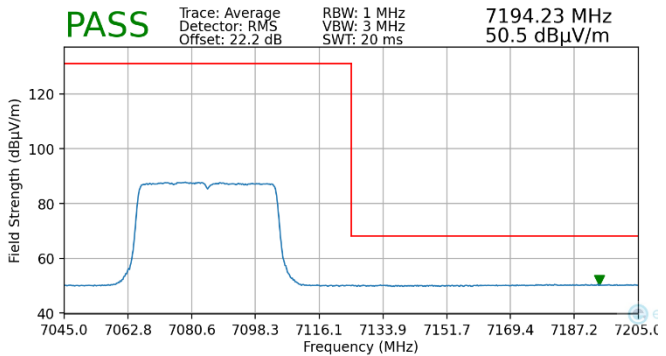


**Plot 7-221. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

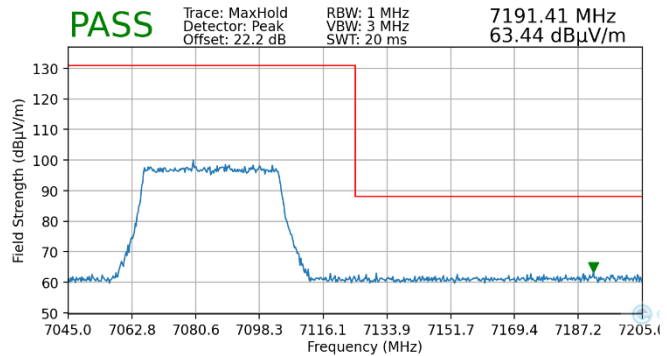


**Plot 7-222. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



**Plot 7-223. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**

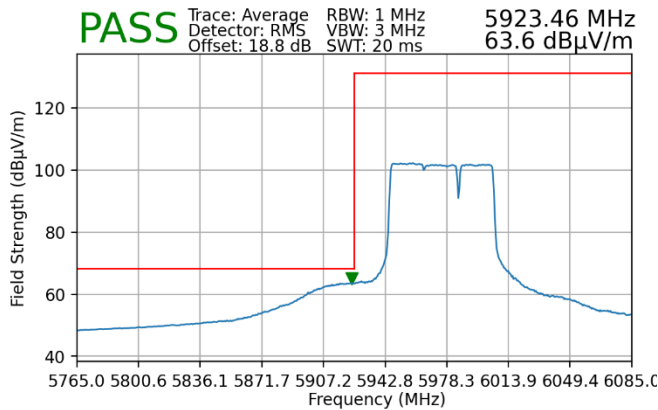


**Plot 7-224. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

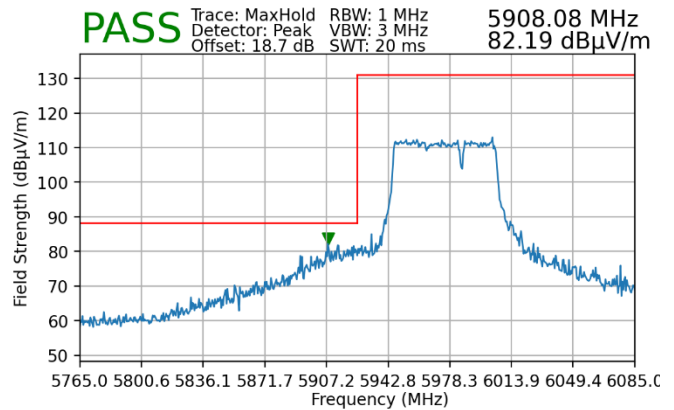
FCC ID: C3K2085 IC: 3048A-2085	<b>MEASUREMENT REPORT</b>		Approved by: Technical Manager
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### 7.7.4 MIMO Radiated Band Edge Measurements (80MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

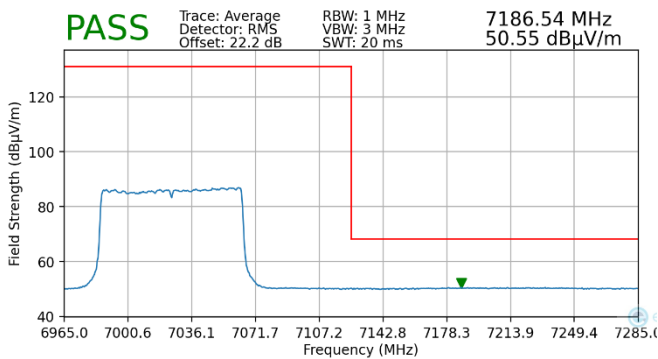


**Plot 7-225. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

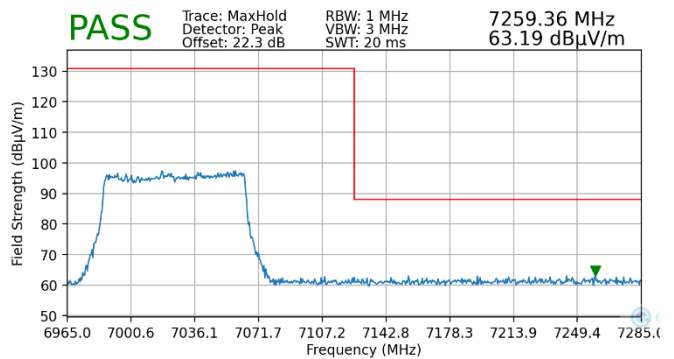


**Plot 7-226. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



**Plot 7-227. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**

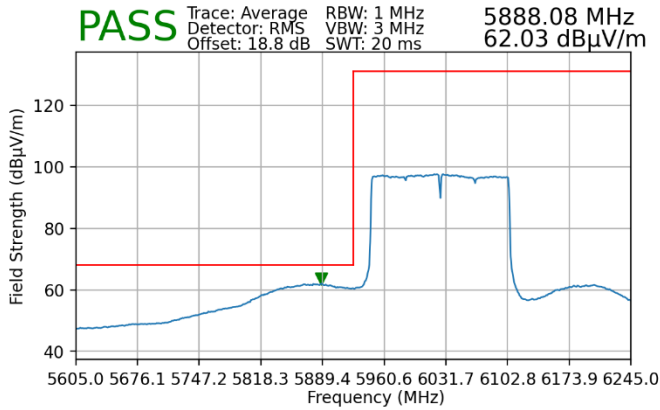


**Plot 7-228. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

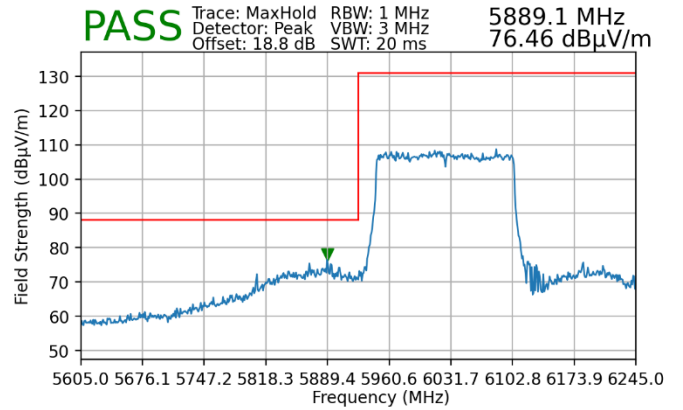
FCC ID: C3K2085 IC: 3048A-2085	<b>MEASUREMENT REPORT</b>		Approved by: Technical Manager
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### 7.7.5 MIMO Radiated Band Edge Measurements (160MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

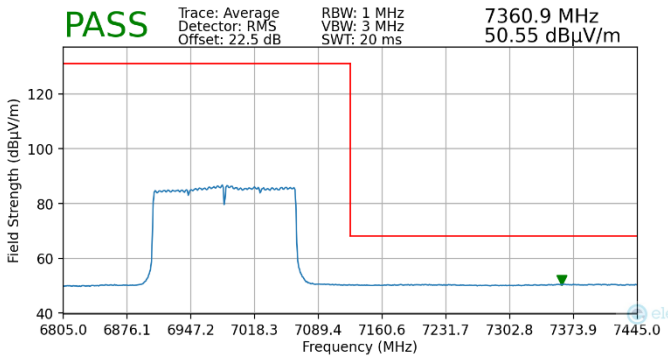


**Plot 7-229. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

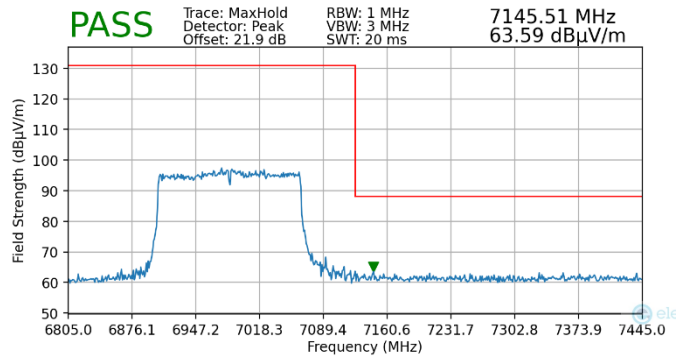


**Plot 7-230. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



**Plot 7-231. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**

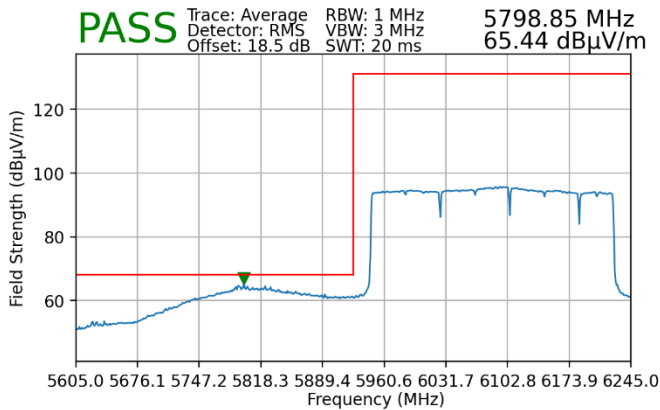


**Plot 7-232. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

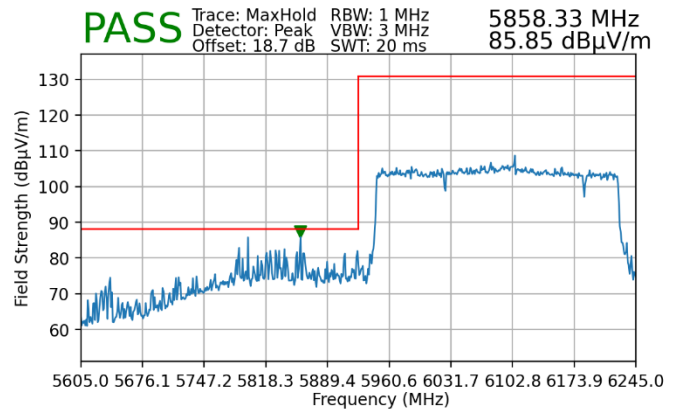
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### 7.7.6 MIMO Radiated Band Edge Measurements (320MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6105MHz
Channel:	31

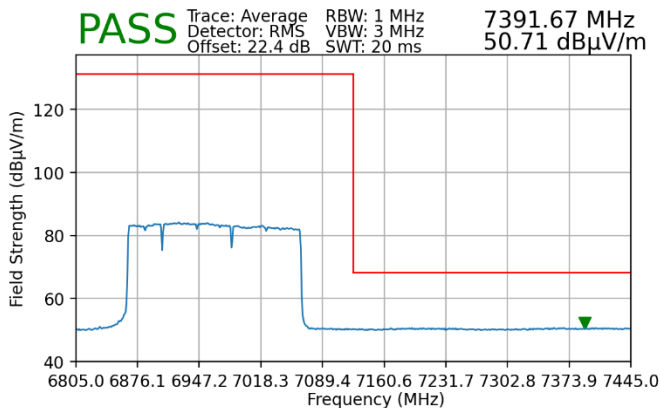


**Plot 7-233. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

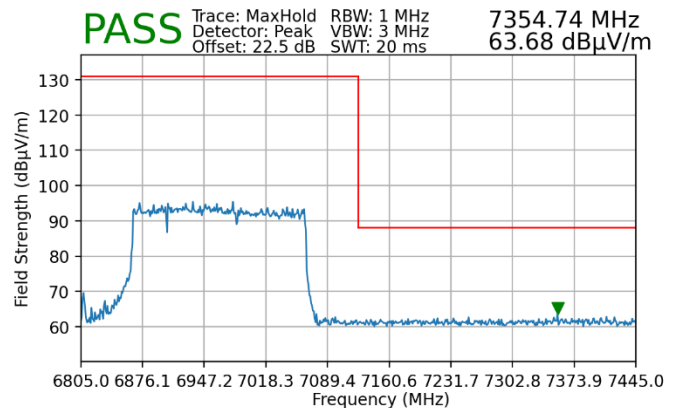


**Plot 7-234. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6905MHz
Channel:	191



**Plot 7-235. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**



**Plot 7-236. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

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## 7.8 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 $\mu$ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-47. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, 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.

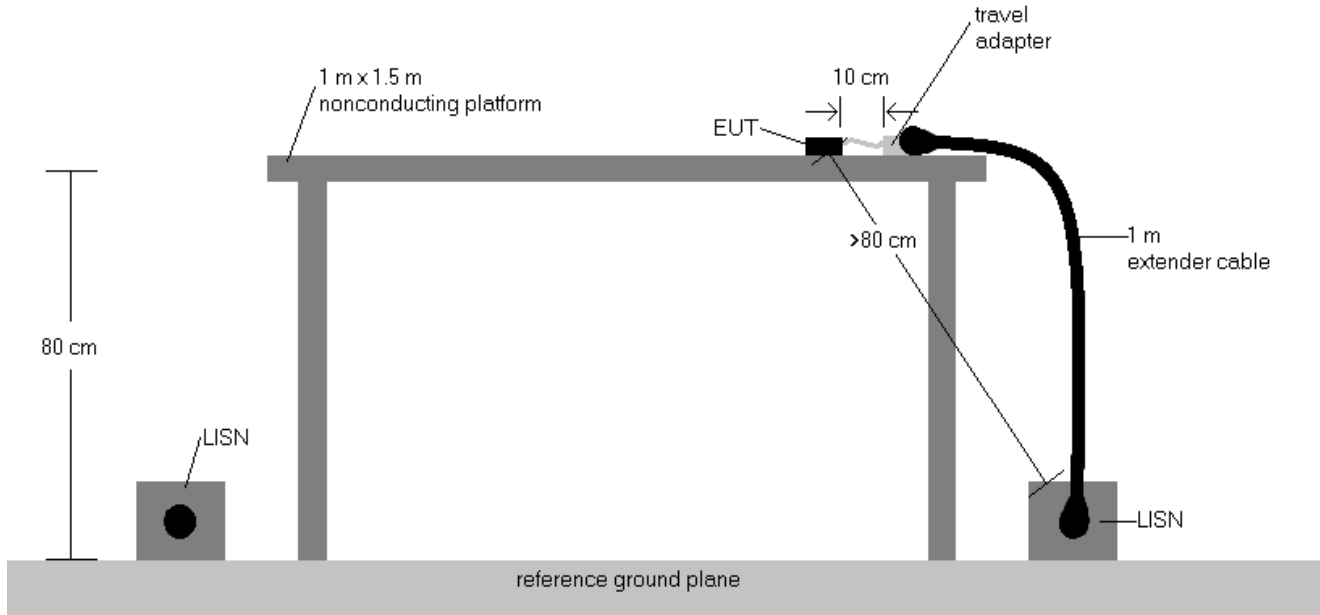
#### Average Field Strength Measurements

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.

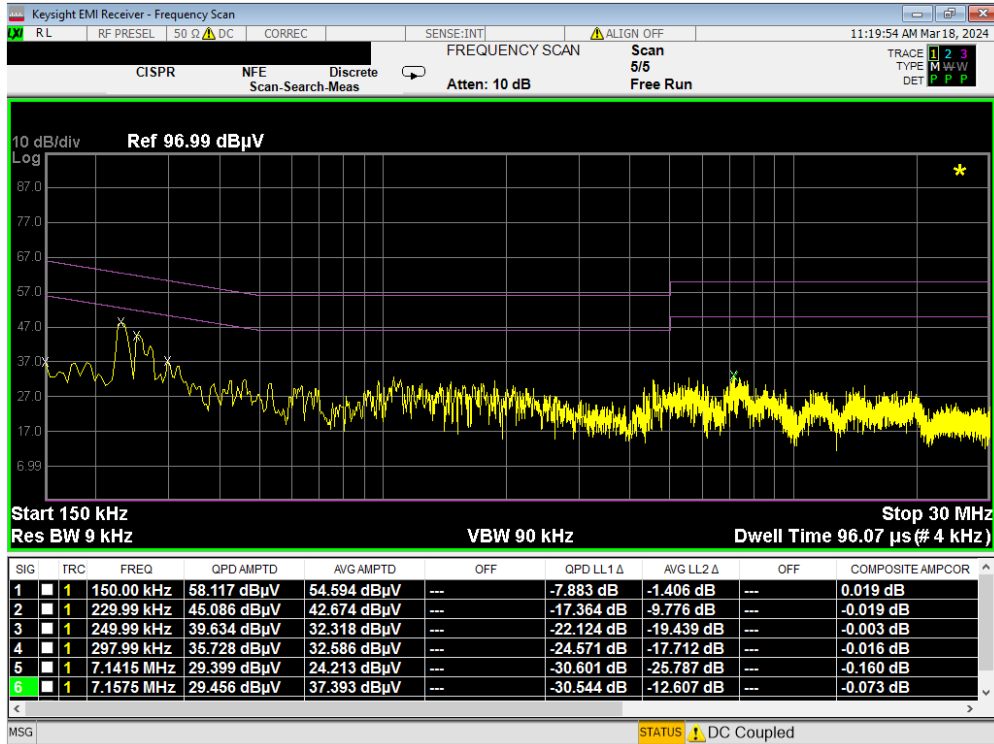


**Figure 7-9. Test Instrument & Measurement Setup**

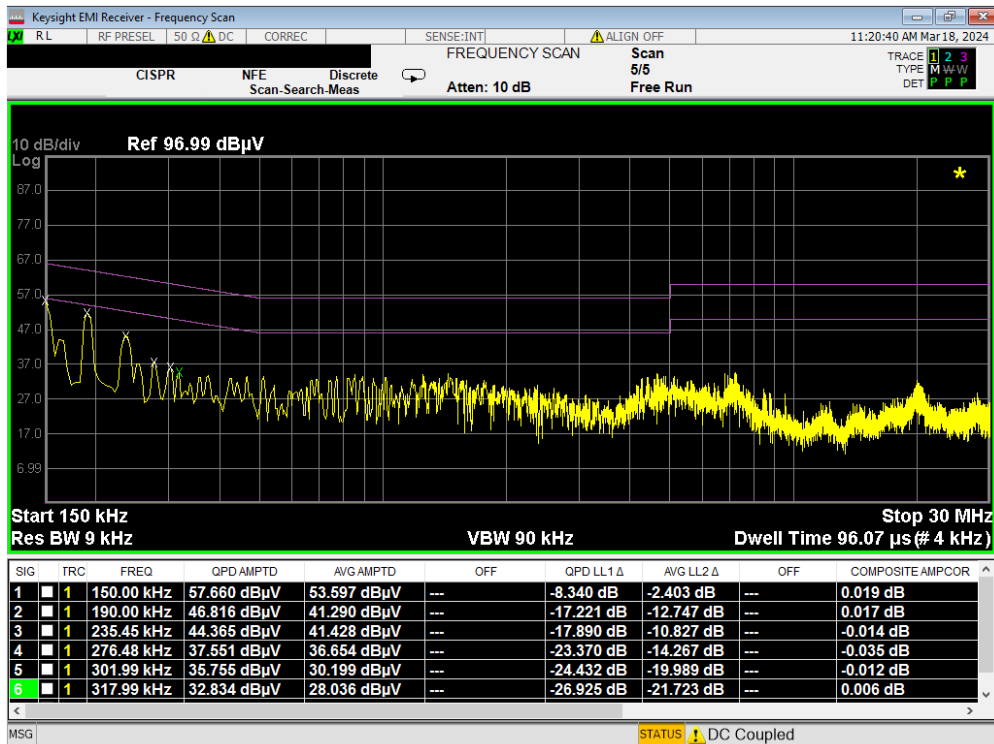
**Test Notes**

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.  $Corr. (dB) = Cable\ loss (dB) + LISN\ insertion\ factor (dB)$
4.  $QP/AV\ Level (dB\mu V) = QP/AV\ Analyzer/Receiver\ Level (dB\mu V) + Corr. (dB)$
5.  $Margin (dB) = QP/AV\ Limit (dB\mu V) - QP/AV\ Level (dB\mu V)$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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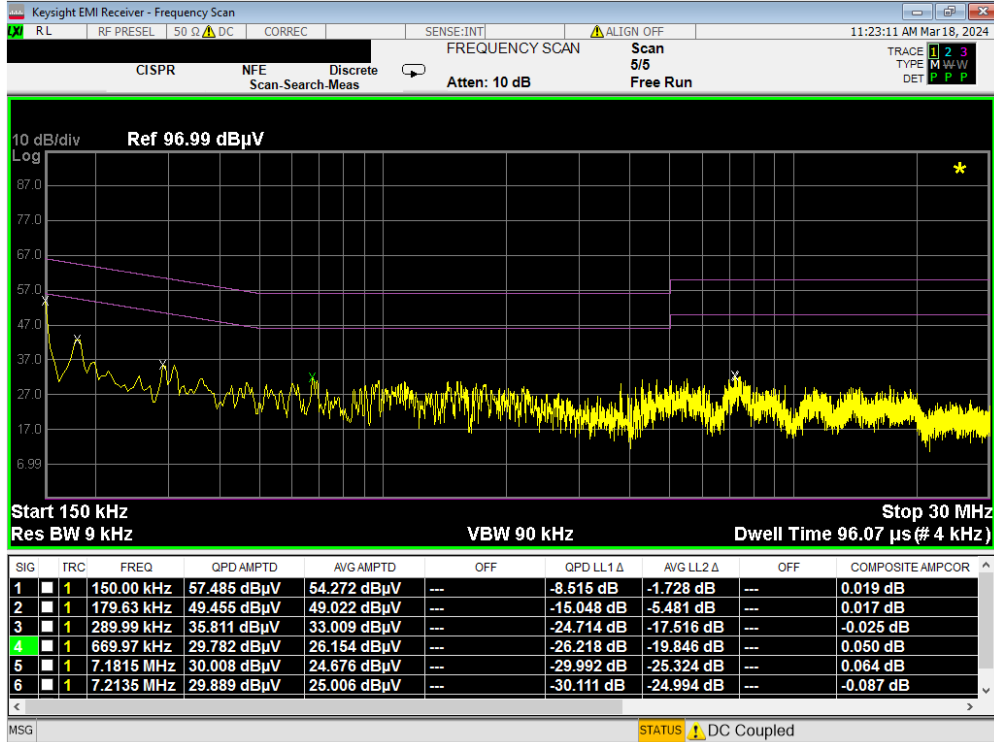


Plot 7-237. Line Conducted Plot with 802.11a UNII Band 5 (L1)

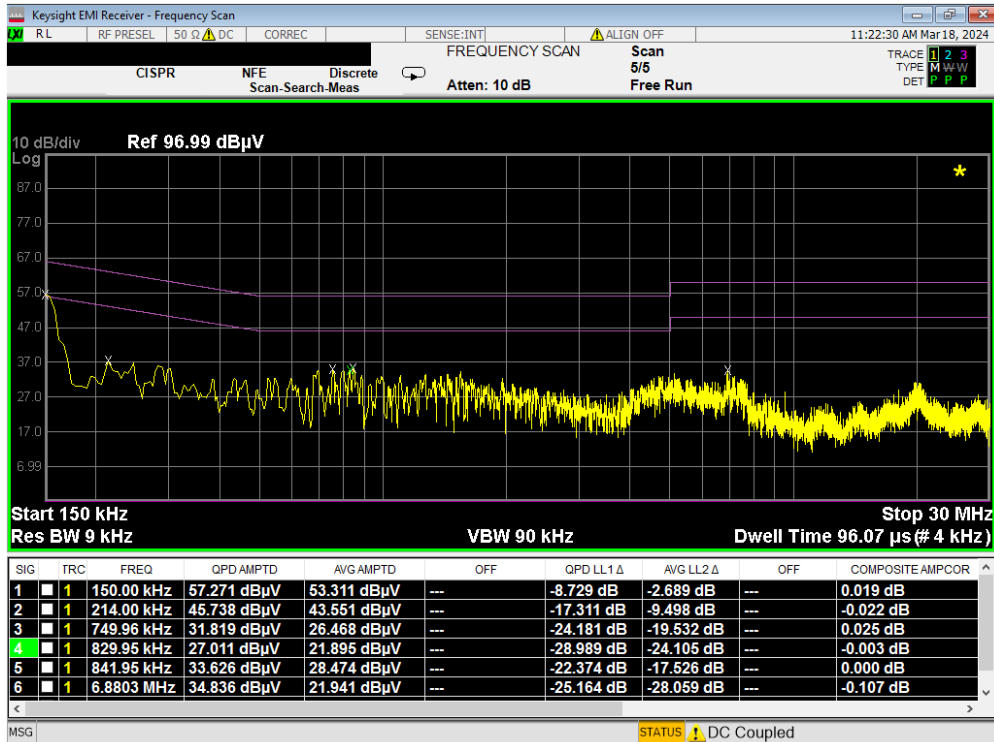


Plot 7-238. Line Conducted Plot with 802.11a UNII Band 5 (N)

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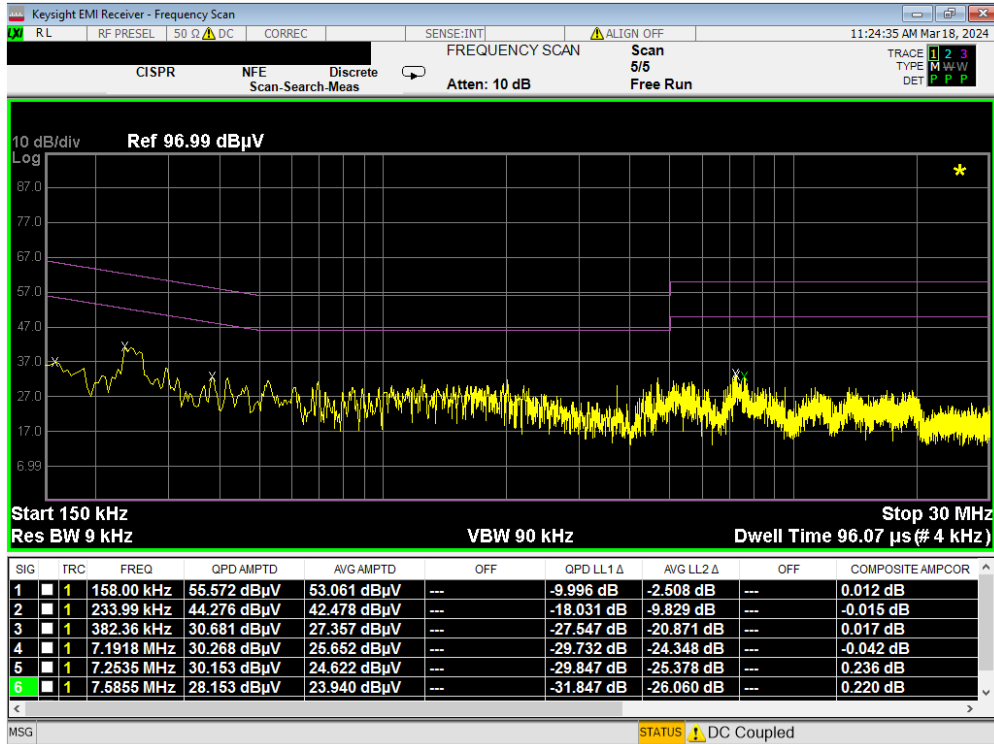
Plot 7-239. Line Conducted Plot with 802.11a UNII Band 6 (L1)



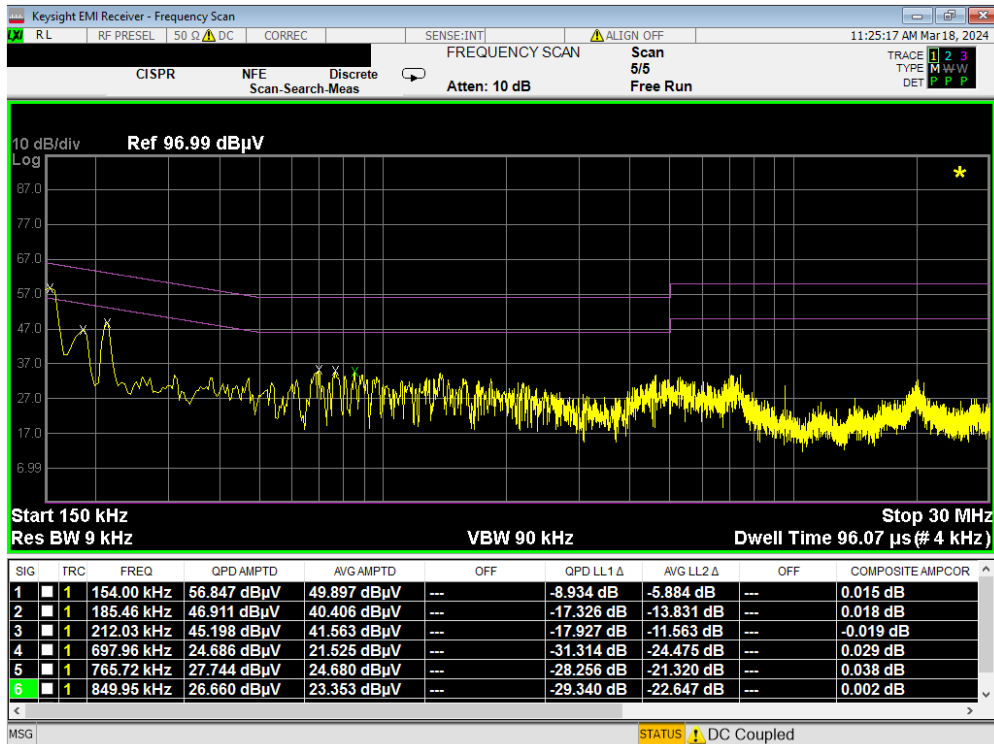
Plot 7-240. Line Conducted Plot with 802.11a UNII Band 6 (N)

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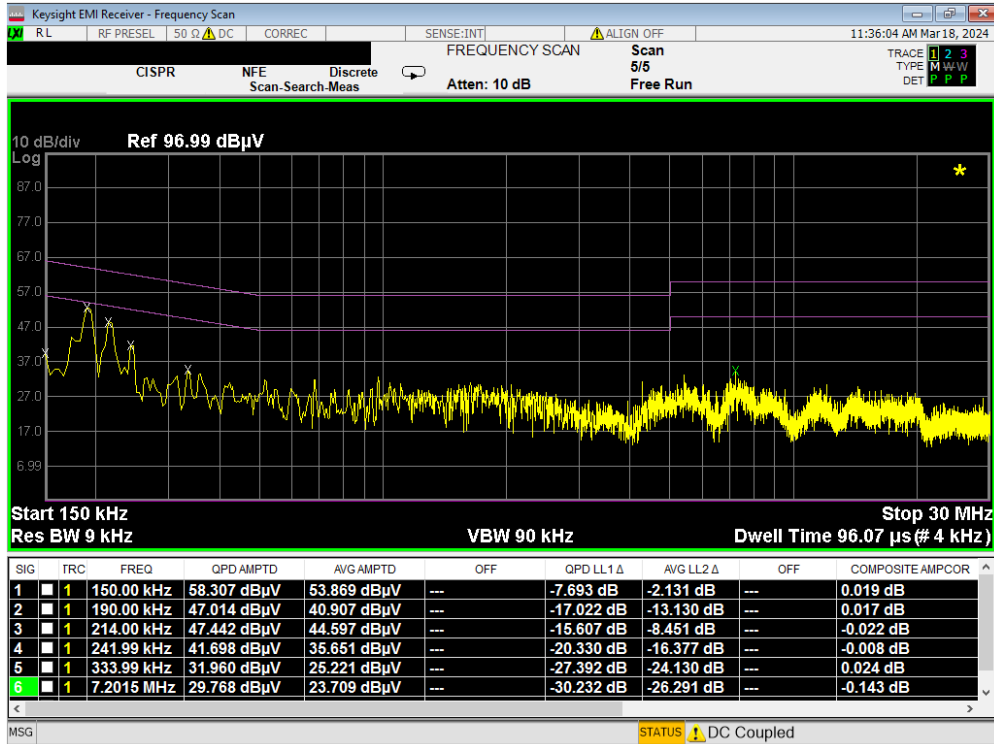


Plot 7-241. Line Conducted Plot with 802.11a UNII Band 7 (L1)

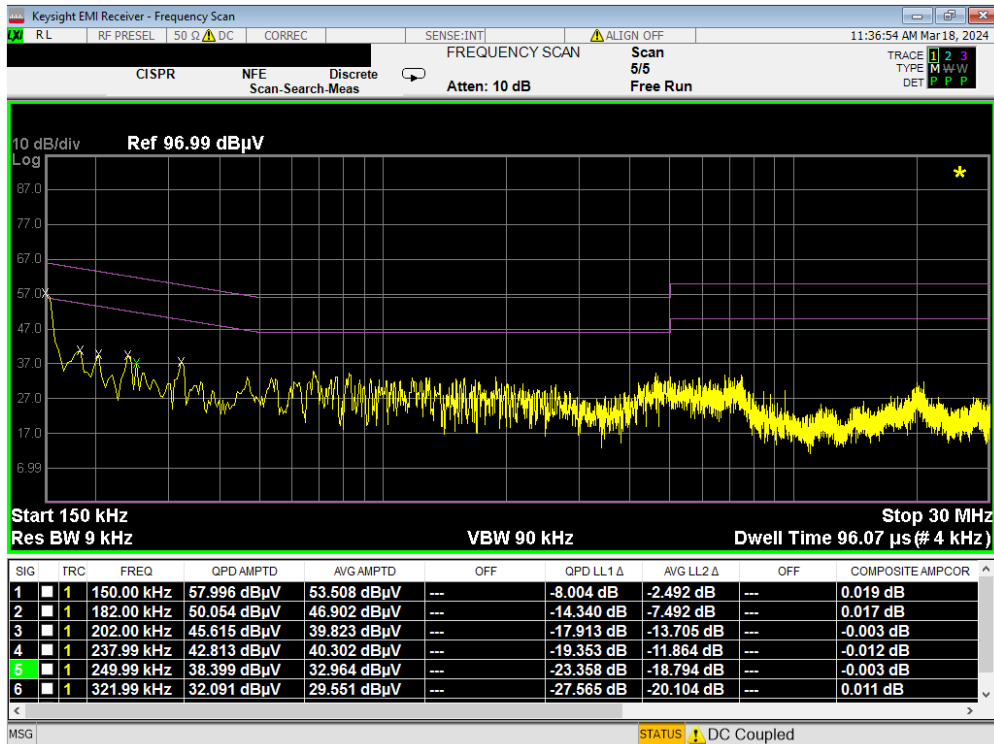


Plot 7-242. Line Conducted Plot with 802.11a UNII Band 7 (N)

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Plot 7-243. Line Conducted Plot with 802.11a UNII Band 8 (L1)



Plot 7-244. 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 Portable Computing Device FCC ID: C3K2085 / IC: 3048A-2085** is in compliance with Part 15.407 of the FCC rules and RSS-248 of the ISED rules.

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