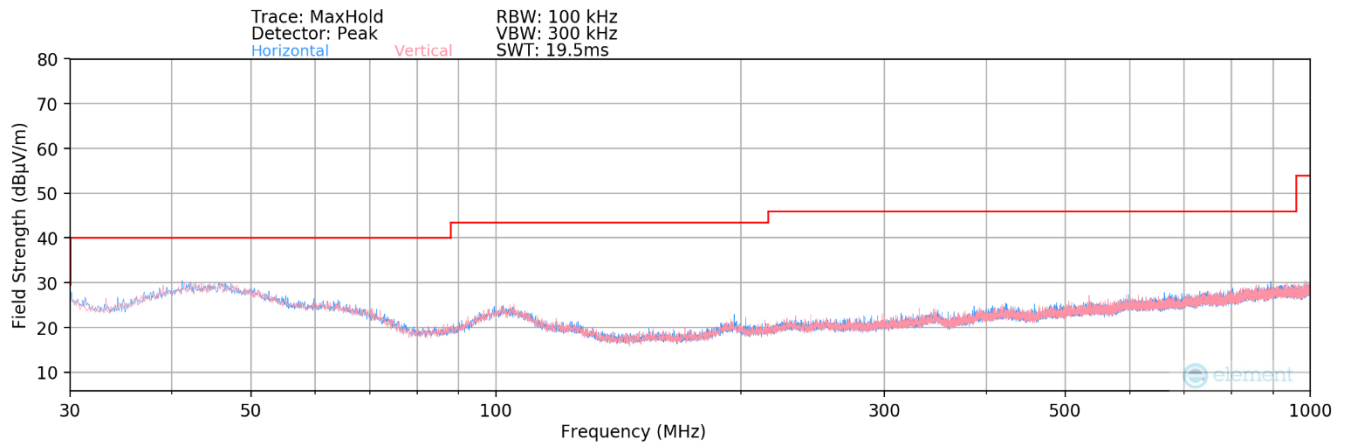
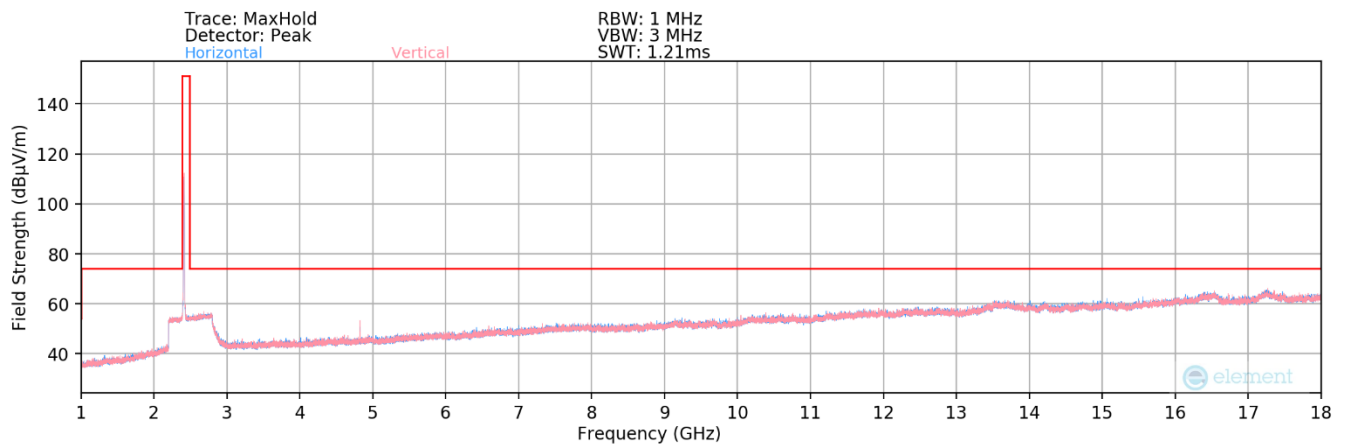


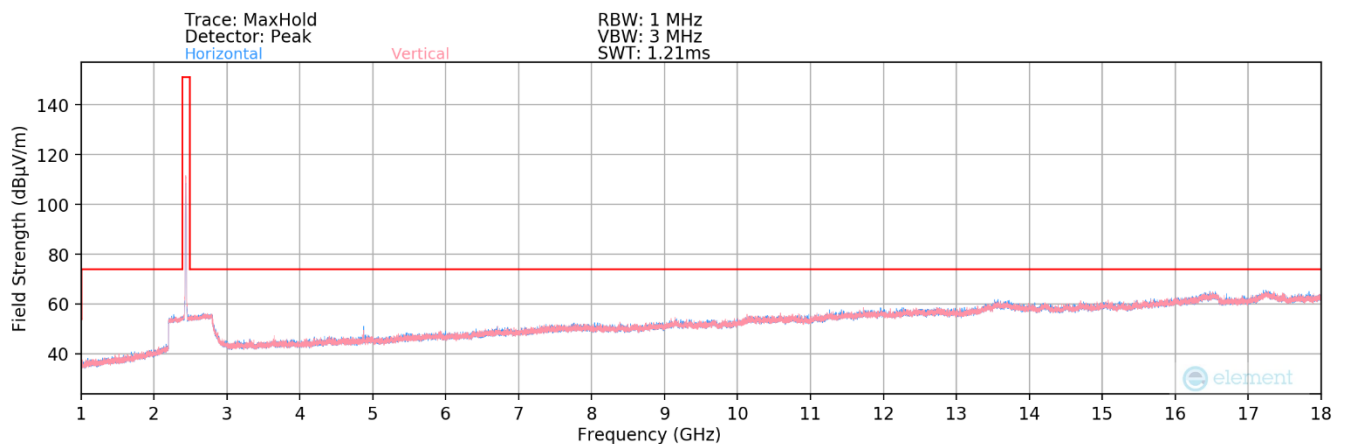
MIMO Radiated Spurious Emission Measurements



Plot 7-93. Radiated Spurious Plot below 1GHz MIMO

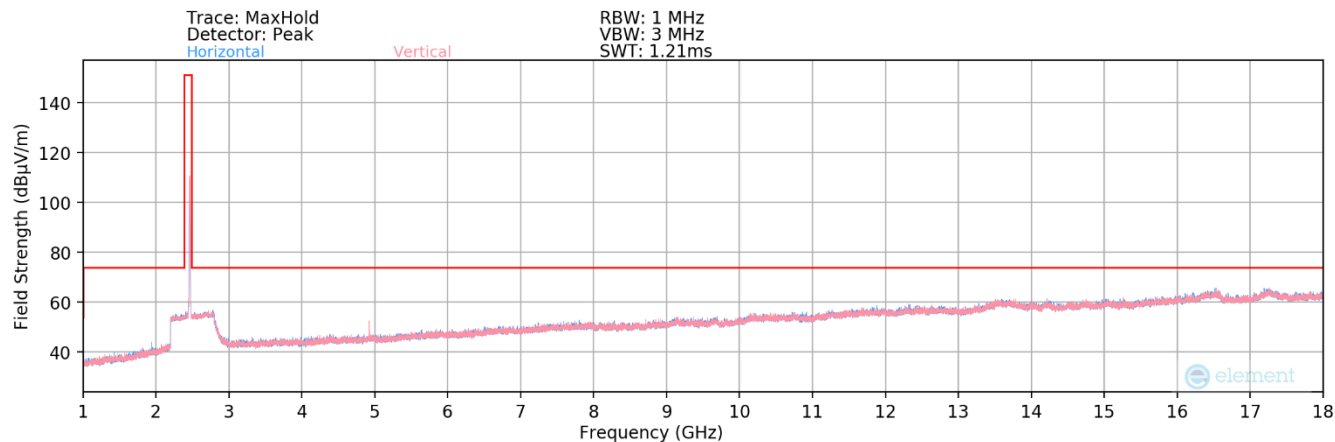


Plot 7-94. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 1)

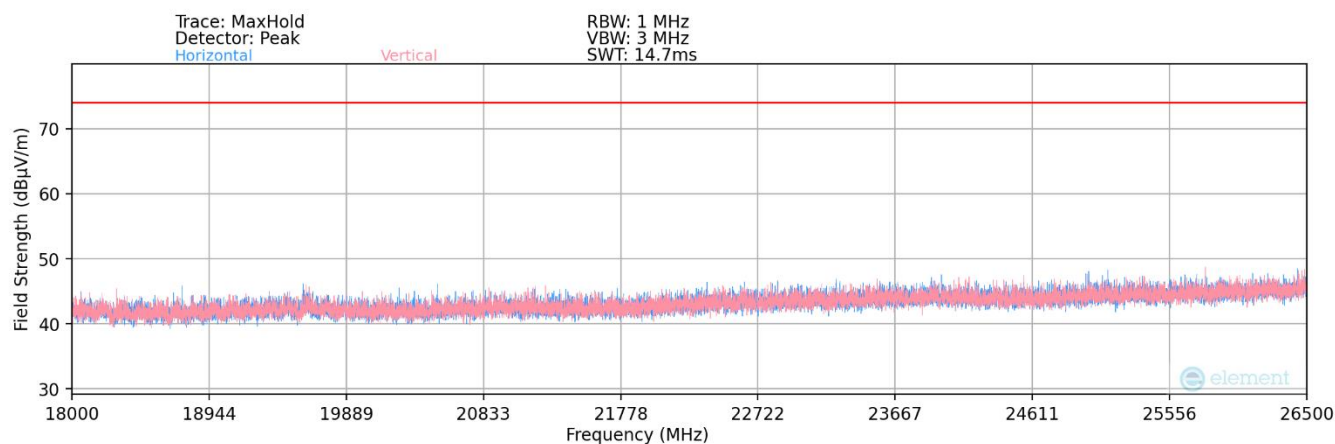


Plot 7-95. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 6)

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet	Page 76 of 85



Plot 7-96. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 11)



Plot 7-97. Radiated Spurious Plot above 18GHz MIMO

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
262.30	Quasi-Peak	V	-	-	-97.52	19.94	29.42	46.02	-16.60

Table 7-10. Radiated Measurements below 1GHz MIMO

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet			Page 77 of 85	

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	126	104	-67.05	9.65	49.60	53.98	-4.38
4824.00	Peak	V	126	104	-63.59	9.65	53.06	73.98	-20.92
12060.00	Avg	V	-	-	-78.93	22.50	50.57	53.98	-3.41
12060.00	Peak	V	-	-	-71.62	22.50	57.88	73.98	-16.10

Table 7-11. Radiated Measurements MIMO

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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	194	262	-70.53	9.55	46.02	53.98	-7.96
4874.00	Peak	V	194	262	-66.49	9.55	50.06	73.98	-23.92
7311.00	Avg	V	-	-	-80.07	15.20	42.13	53.98	-11.85
7311.00	Peak	V	-	-	-72.76	15.20	49.44	73.98	-24.54
12185.00	Avg	V	-	-	-79.40	22.91	50.51	53.98	-3.47
12185.00	Peak	V	-	-	-72.11	22.91	57.80	73.98	-16.18

Table 7-12. Radiated Measurements MIMO

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet	Page 78 of 85

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	202	253	-66.65	9.58	49.93	53.98	-4.05
4924.00	Peak	V	202	253	-63.10	9.58	53.48	73.98	-20.50
7386.00	Avg	V	-	-	-79.99	15.02	42.03	53.98	-11.95
7386.00	Peak	V	-	-	-72.61	15.02	49.41	73.98	-24.57
12310.00	Avg	V	-	-	-79.67	23.36	50.69	53.98	-3.29
12310.00	Peak	V	-	-	-72.33	23.36	58.03	73.98	-15.95

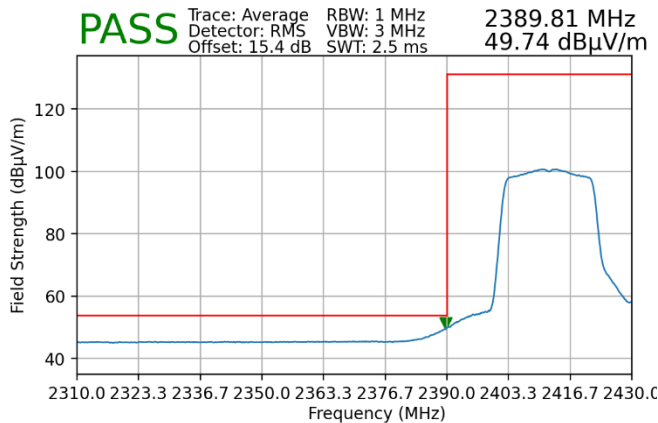
Table 7-13. Radiated Measurements MIMO

FCC ID: A3LSMX930 IC: 649E-SMX930		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet		Page 79 of 85

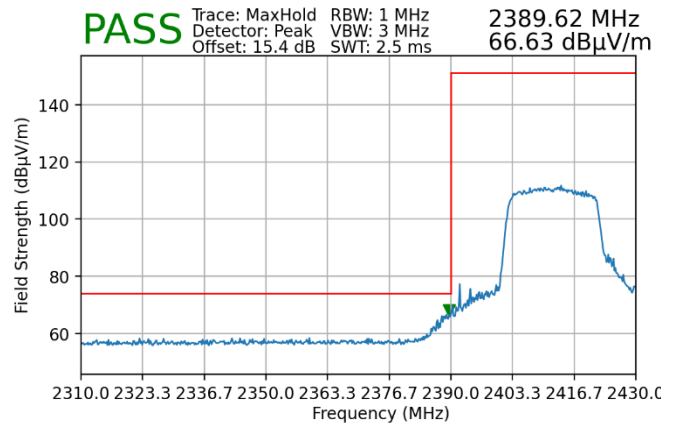
7.7.2 MIMO Radiated Restricted Band Edge Measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

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

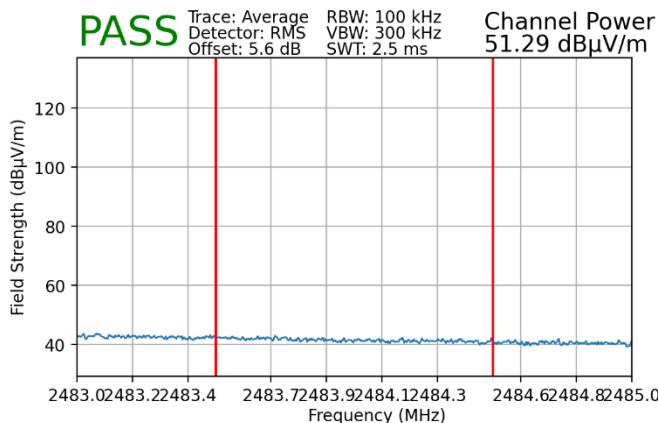


Plot 7-98. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

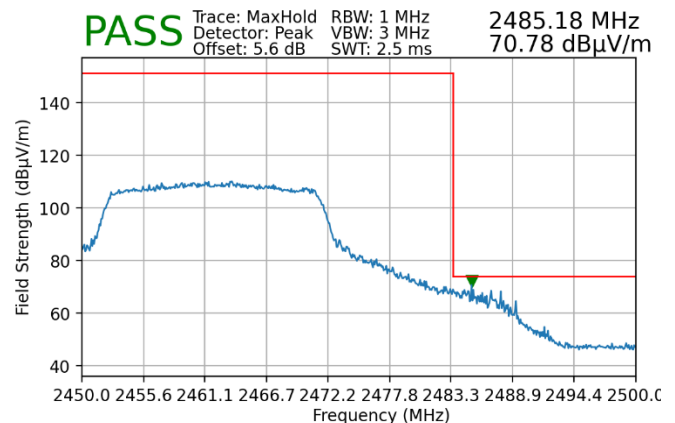


Plot 7-99. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



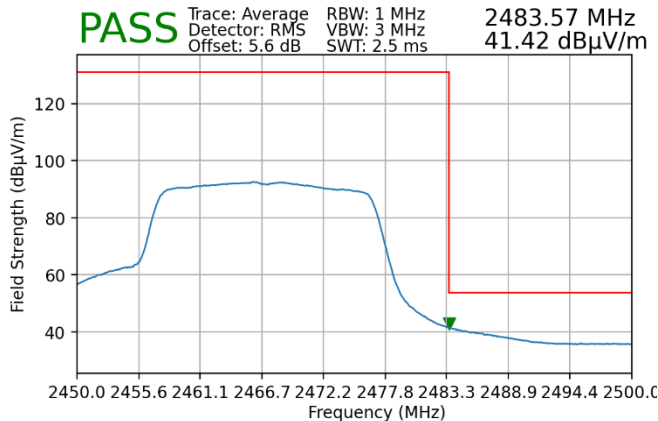
Plot 7-100. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



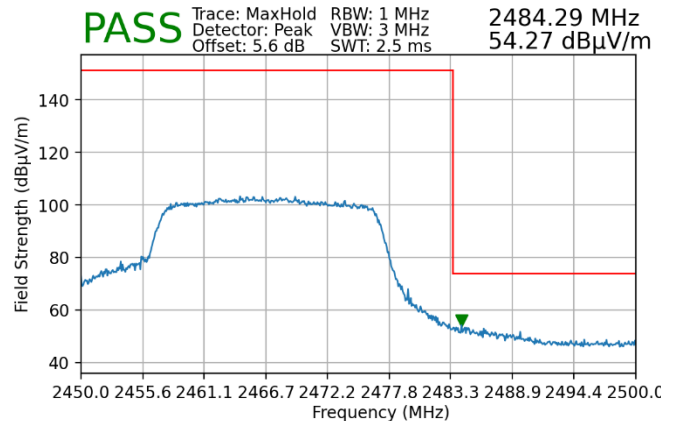
Plot 7-101. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet	Page 80 of 85

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

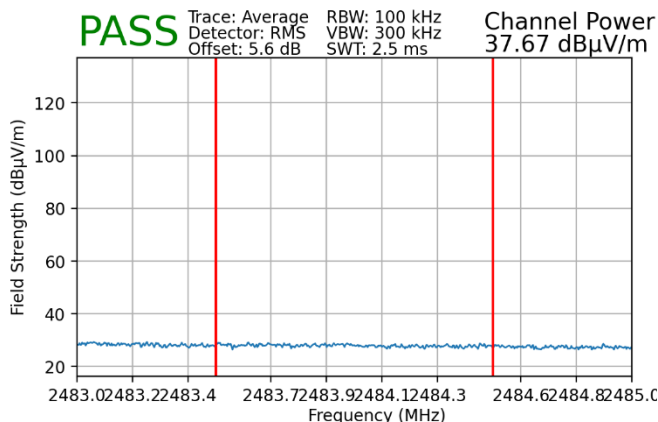


Plot 7-102. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

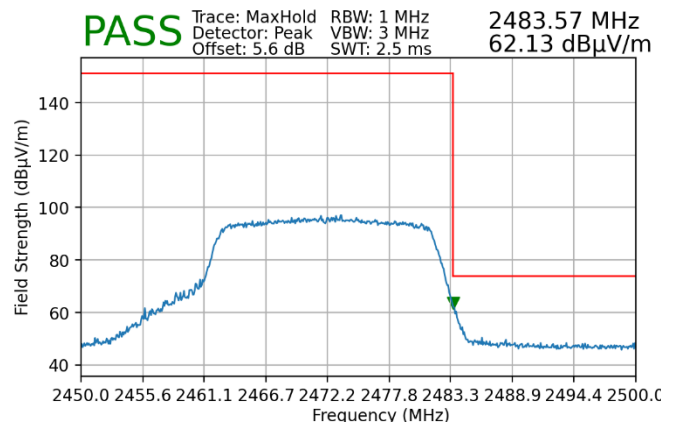


Plot 7-103. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

Worst Case Mode: 802.11be
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-104. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-105. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet	Page 81 of 85

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 §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 7-14. 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

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet	Page 82 of 85

Test Setup

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

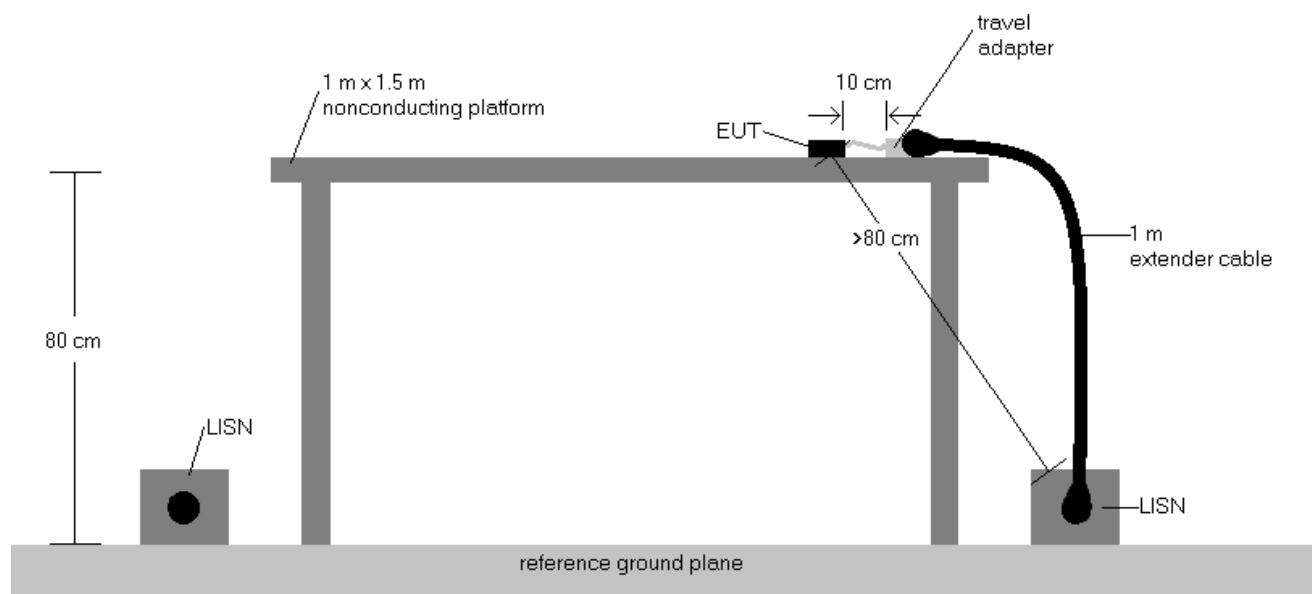
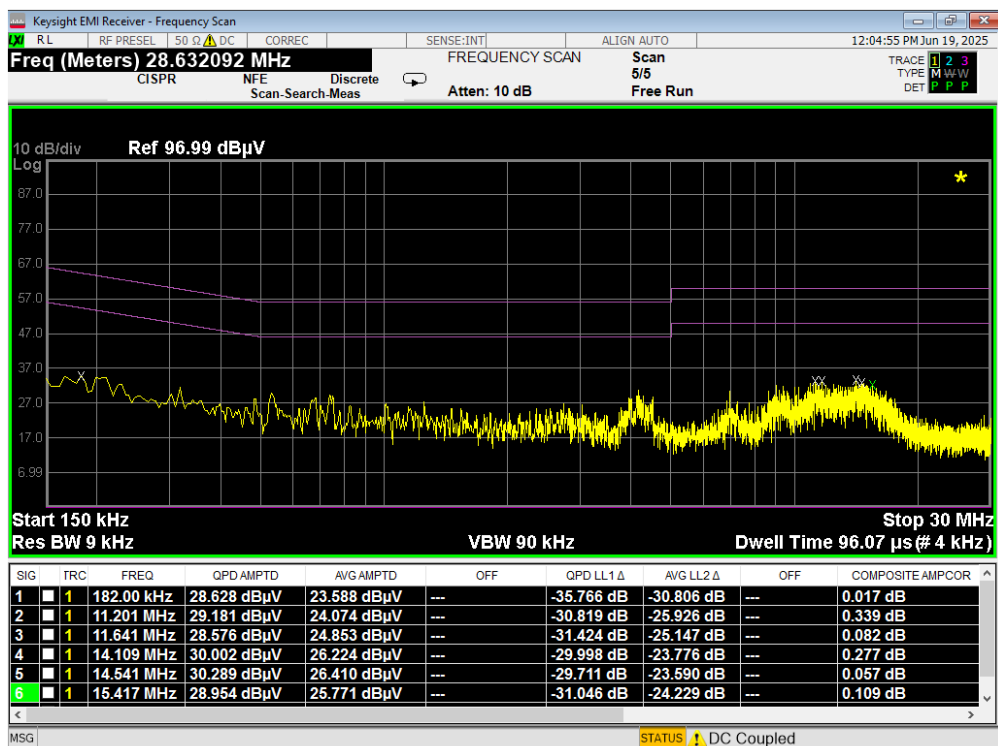


Figure 7-9. Test Instrument & Measurement Setup

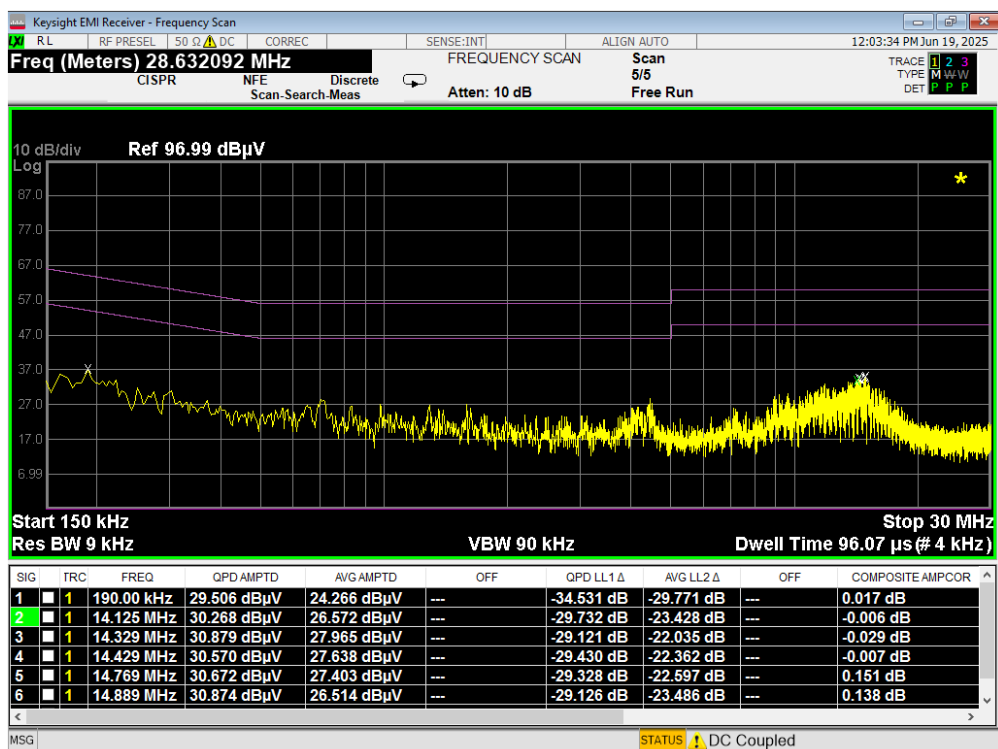
Test Notes

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 are specified in Part 15.207 and RSS-Gen(8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet	Page 83 of 85



Plot 7-106. Line Conducted Plot with 802.11b (L1)



Plot 7-107. Line Conducted Plot with 802.11b (N)

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet	Page 84 of 85

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMX930, IC: 649E-SMX930** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the ISED Canada Rules.

FCC ID: A3LSMX930 IC: 649E-SMX930	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130048-03.A3L	Test Dates: 05/13/2025 - 07/01/2025	EUT Type: Portable Tablet	Page 85 of 85