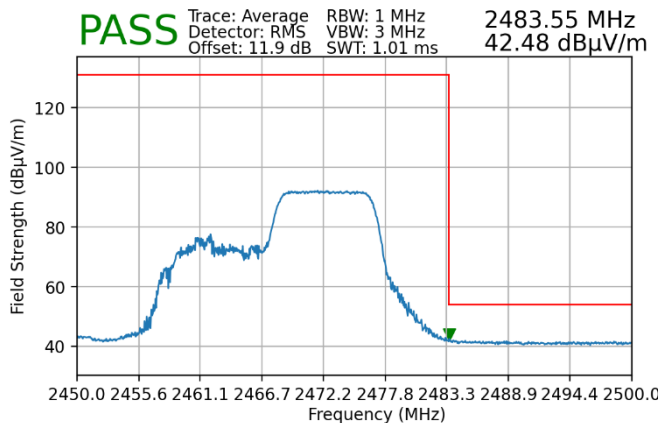
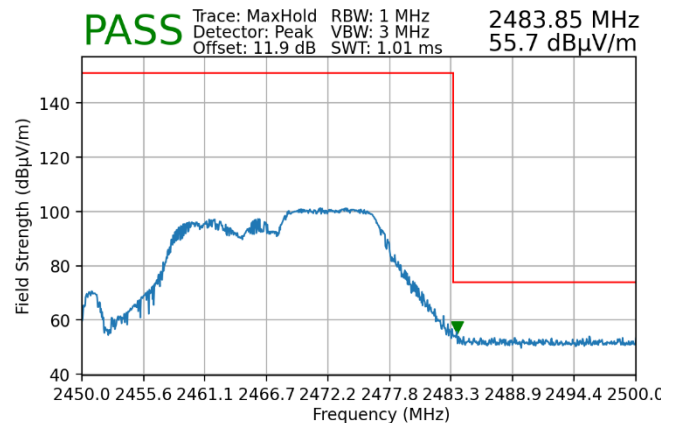


Worst Case Mode: 802.11ax/be OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

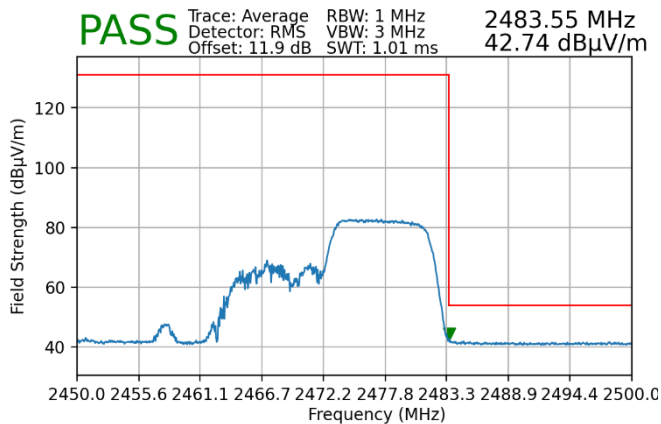


Plot 7-86. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)

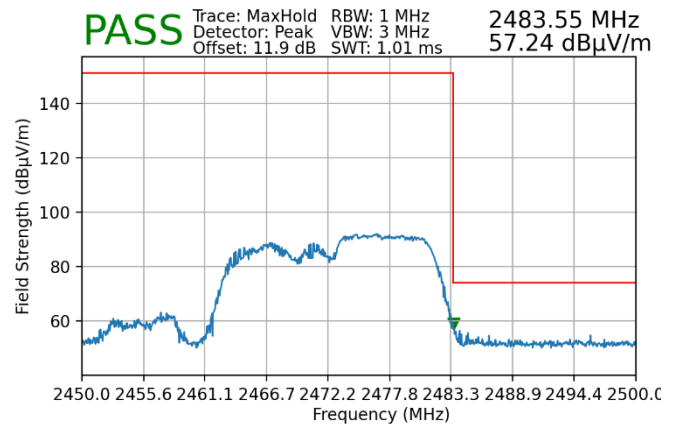


Plot 7-87. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

Worst Case Mode: 802.11ax/be OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



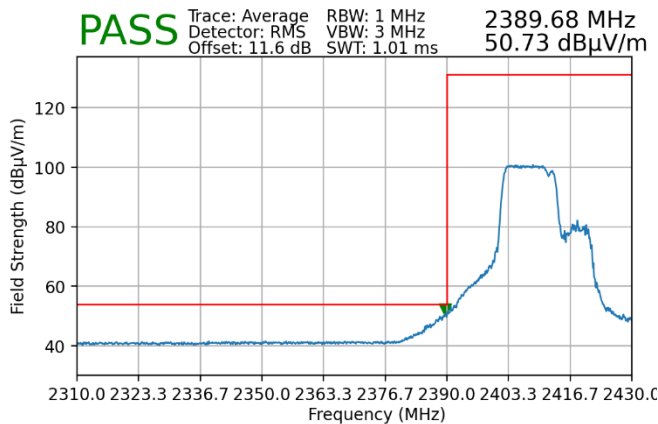
Plot 7-88. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



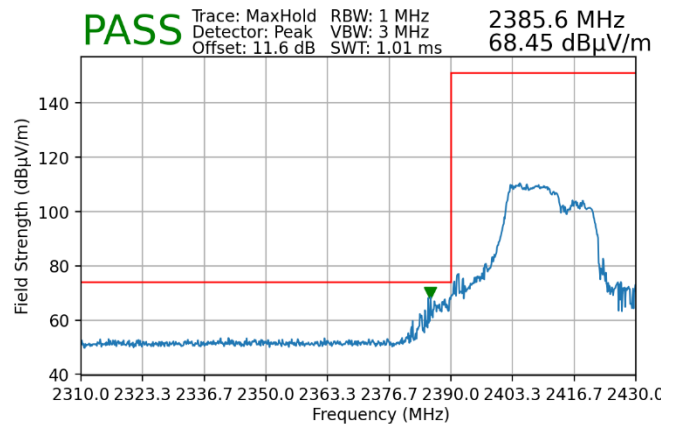
Plot 7-89. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11be OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 82
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

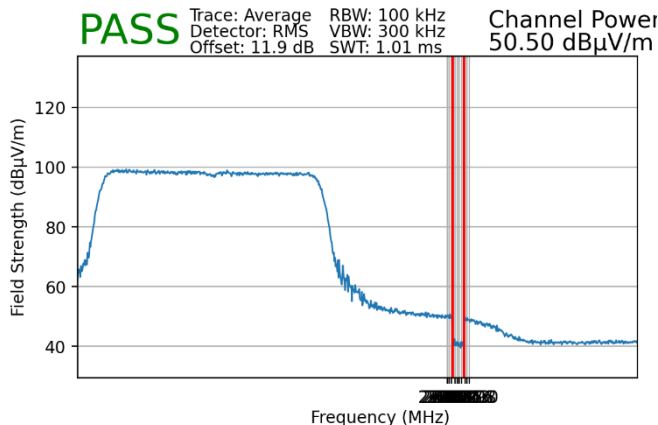


Plot 7-90. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106+26 Tones)

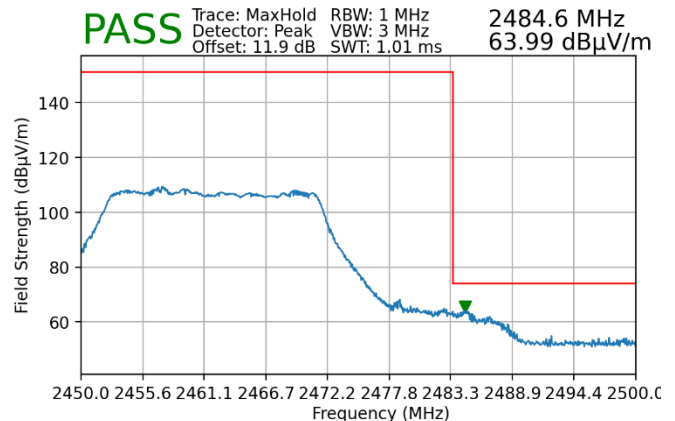


Plot 7-91. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106+26 Tones)

Worst Case Mode: 802.11be OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 83
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



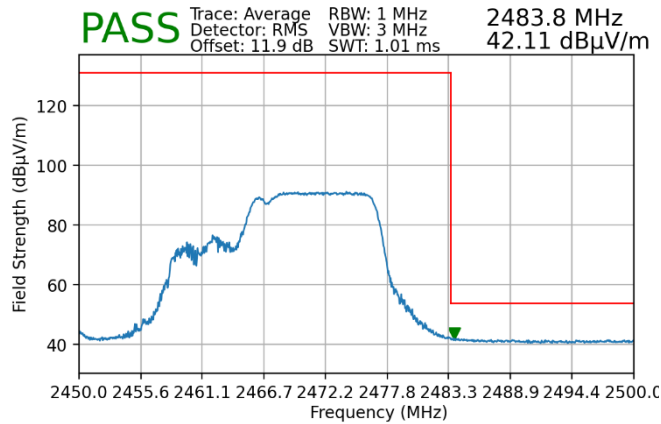
Plot 7-92. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106+26 Tones)



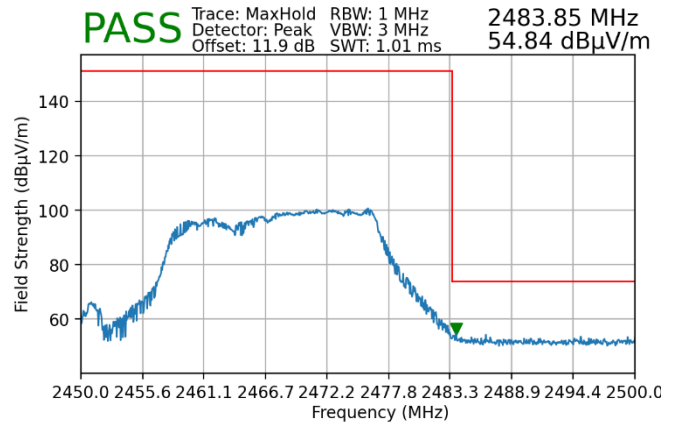
Plot 7-93. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106+26 Tones)

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode:	802.11be OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	83
Distance of Measurements:	3 Meters
Operating Frequency:	2467MHz
Channel:	12

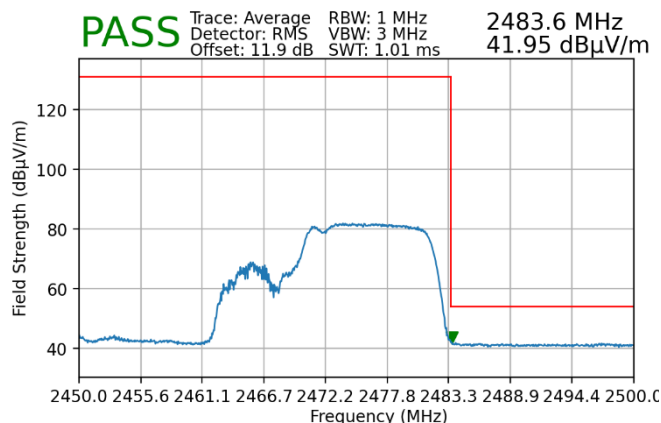


Plot 7-94. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106+26 Tones)

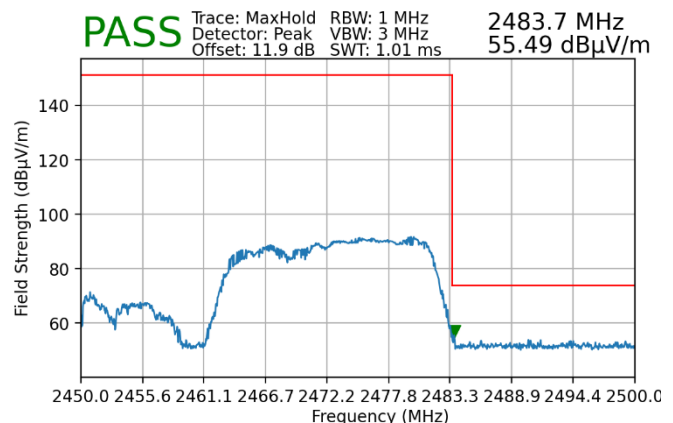


Plot 7-95. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106+26 Tones)

Worst Case Mode:	802.11be OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	83
Distance of Measurements:	3 Meters
Operating Frequency:	2472MHz
Channel:	13



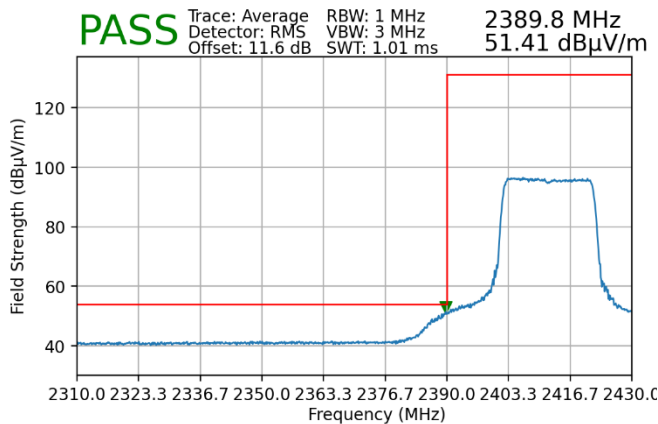
Plot 7-96. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106+26 Tones)



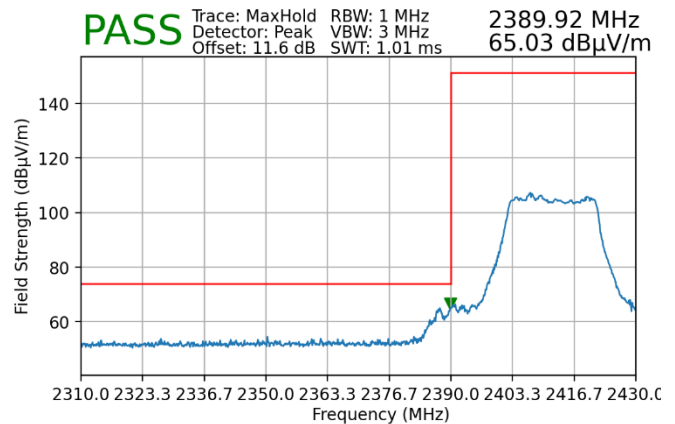
Plot 7-97. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106+26 Tones)

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax/be OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

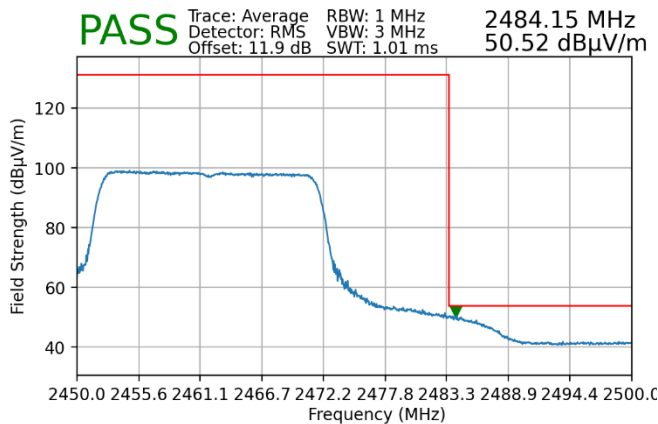


Plot 7-98. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)

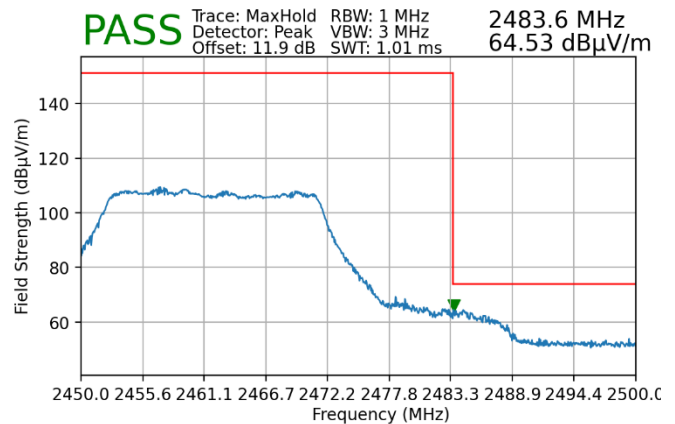


Plot 7-99. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)

Worst Case Mode: 802.11ax/be OFDMA
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



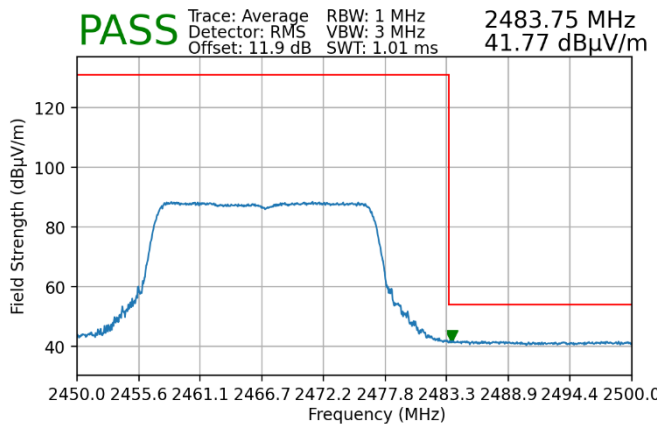
Plot 7-100. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



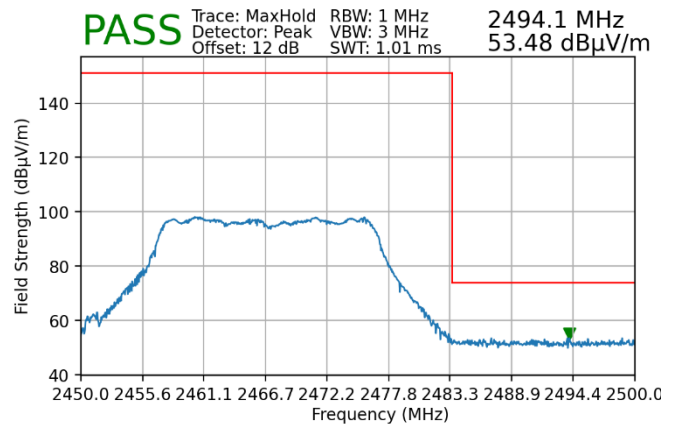
Plot 7-101. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax/be OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12

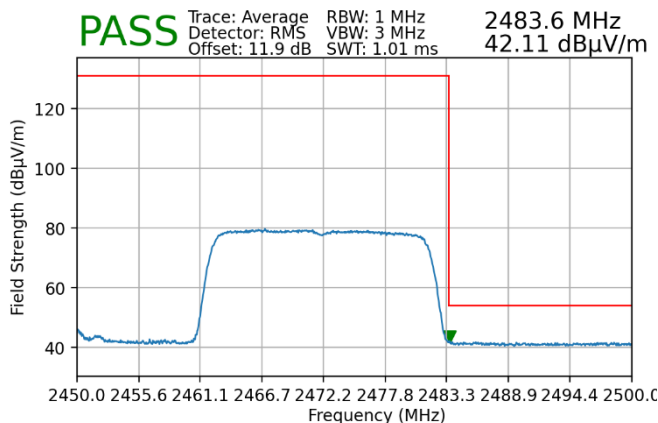


Plot 7-102. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)

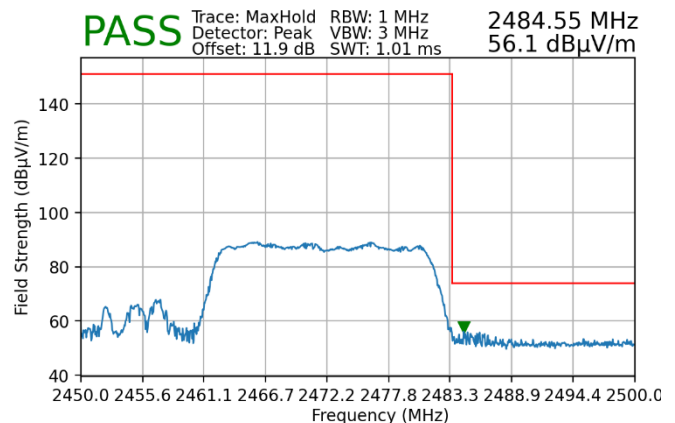


Plot 7-103. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

Worst Case Mode: 802.11ax/be OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-104. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



Plot 7-105. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS948JPN** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules. The data referenced from **FCC ID: A3LSMS948U** (Model SM-S948U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMS948JPN**.

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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9.0 APPENDIX A – DATA REFERENCING RESULTS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2020.

Notes

- Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – SC-53G

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]								Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dB]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO										
				AVG	PEAK	AVG	PEAK	AVG	PEAK	AVG	PEAK							
2437	6	242T	61	17.40	26.66	17.41	25.61	20.42	29.18	30.00	-9.58	-0.82	3.01	23.43	36.02	-12.59		

Table 9-1. Conducted Output Power Measurements (Spot-check)

Radiated Spot-Checks – SC-53G

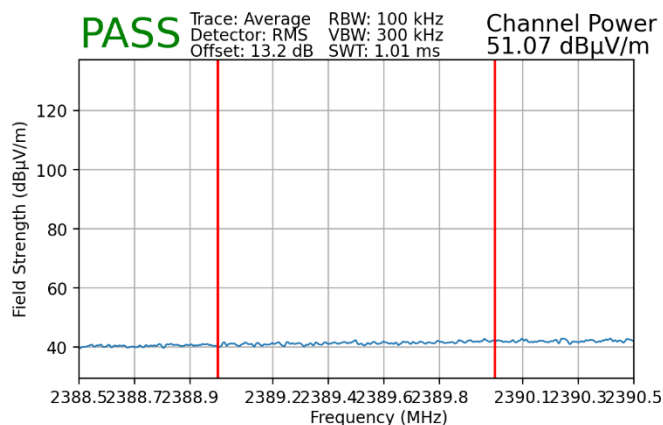
Worst Case Mode:	802.11ax/be
RU index:	4
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	6

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]
4824.00	Avg	H	-	-	-81.65	9.22	34.57	53.98	-19.41
4824.00	Peak	H	-	-	-69.27	9.22	46.95	73.98	-27.03

Table 9-2. RSE Measurements (Spot-check)

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.1ax
 RU index: 61
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 9-1. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-S948U	Variant Model: SM-S948D	Deviation (dB)	Max Deviation (dB)	Pass/Fail
15.247(b)(3)	Conducted Output Power	802.11be MIMO 242 Tone Ch.6 - Average	dBm	N/A	20.65	20.42	-0.23	1	PASS
15.209	Radiated Spurious Emissions	802.11ax/be MIMO 26 Tone Ch.1 - 4824MHz - Average	dBuV/m	53.98	33.56	34.57	1.01	3	PASS
15.209	Radiated Band Edge Emissions	802.11be MIMO 242 Tone Ch.1 - Average	dBuV/m	53.98	51.41	51.07	-0.34	3	PASS

Table 9-3. Summary of Spot-checks

- END OF TEST REPORT -

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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