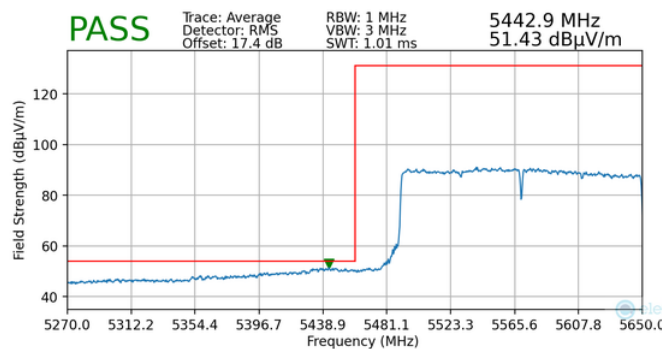
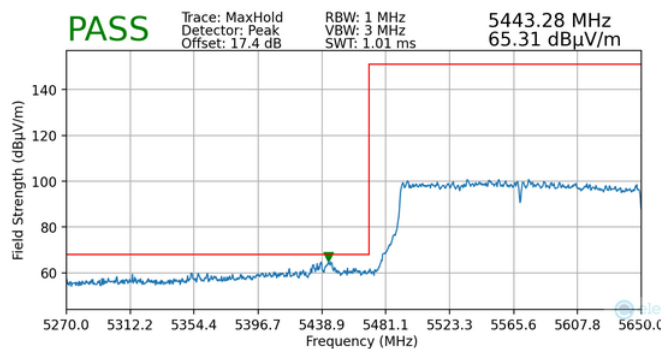


Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 5570MHz
 Channel: 114



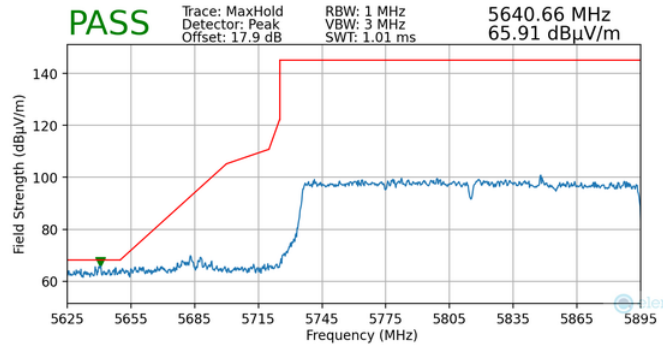
Plot 7-198. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 2x996 Tones)



Plot 7-199. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 2x996 Tones)

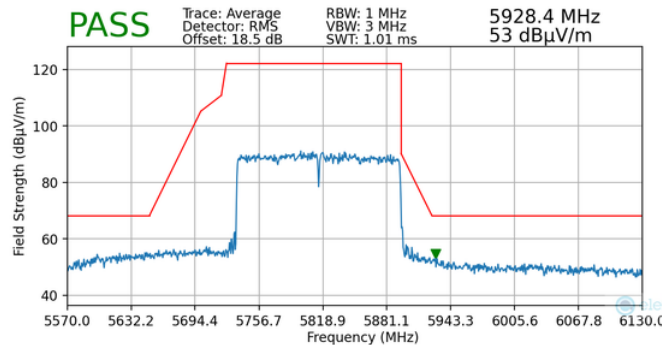
FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-19-R1.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 140 of 144

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163

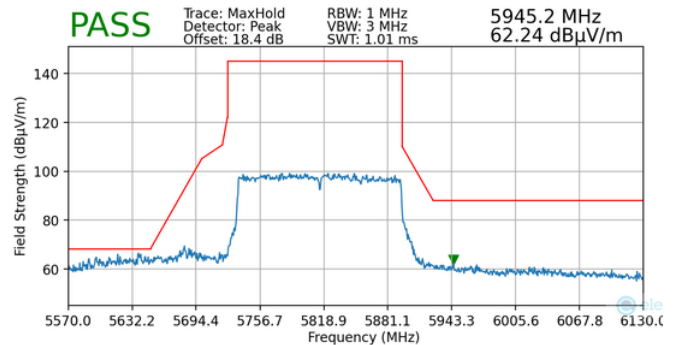


**Plot 7-200. Radiated Lower Band Edge Plot MIMO
(Peak - UNII Band 4 - 2x996 Tones)**

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163



**Plot 7-201. Radiated Upper Band Edge Plot MIMO
(Average - UNII Band 4 - 2x996 Tones)**



**Plot 7-202. Radiated Upper Band Edge Plot MIMO
(Peak - UNII Band 4 - 2x996 Tones)**

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-19-R1.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 141 of 144

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS948B** is in compliance with FCC Part Subpart E (15.407) 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: A3LSMS948B**.

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-19-R1.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 142 of 144

9.0 APPENDIX A – DATA REFERENCING SPOT-CHECKS

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 – Model: SM-S948B/DS

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				RU Index								
				61								
				ANT1	ANT2	MIMO						
1	5200	40	242T	16.96	16.19	19.60	23.98	-4.38	-0.90	18.70	30.00	-11.30
2A	5280	56	242T	16.93	16.41	19.69	23.98	-4.29	-0.61	19.08	30.00	-10.92
2C	5600	120	242T	16.87	16.28	19.60	23.98	-4.38	-0.58	19.02	30.00	-10.98
3	5785	157	242T	17.67	17.35	20.52	30.00	-9.48	-0.70	19.83	36.00	-16.17
4	5865	173	242T	17.87	17.81	20.85	-	-	-1.47	19.38	30.00	-10.62

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

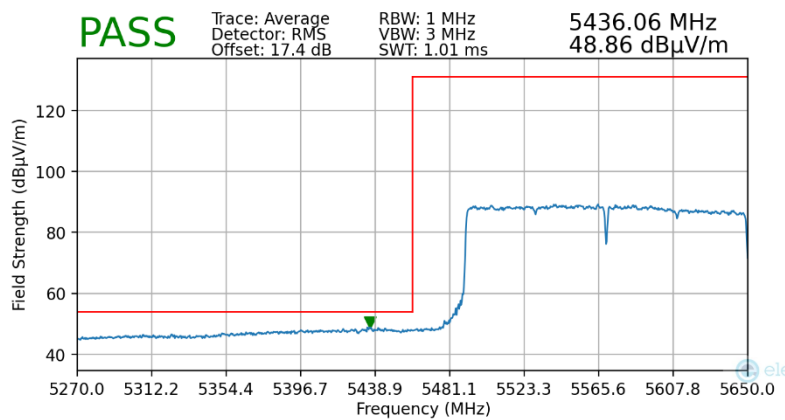
FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-19-R1.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 143 of 144

Radiated Spot-Checks – Model: SM-S948B/DS

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	2A	64	S320	4	*	10640.00	Average	H	-	-	-81.67	17.30	0.00	42.63	53.98	-11.35

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

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



Plot 9-1. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-S948U	Variant Model: SM-S948B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
2.1046, 15.407(a)(8)	Conducted Output Power	Mid Channel Each UNII Band - 802.11be 2427	dBm	N/A	19.40	19.60	0.20	1	PASS
					19.79	19.69	-0.10	1	PASS
					19.55	19.60	0.05	1	PASS
					20.68	20.52	-0.16	1	PASS
					20.94	20.85	-0.09	1	PASS
15.209, 15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4)	Radiated Spurious Emissions	802.11ax MIMO 26 Tone Ch.64- 10640 MHz - Average	dBm	53.98	42.71	42.63	-0.08	3	PASS
15.209	Radiated Band Edge Emissions	802.11be MIMO 2x996T Ch.114 - Average	dBm	53.98	51.43	48.86	-2.57	3	PASS

Table 9-3. Summary of Spot-checks

- END OF TEST REPORT -

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-19-R1.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 144 of 144