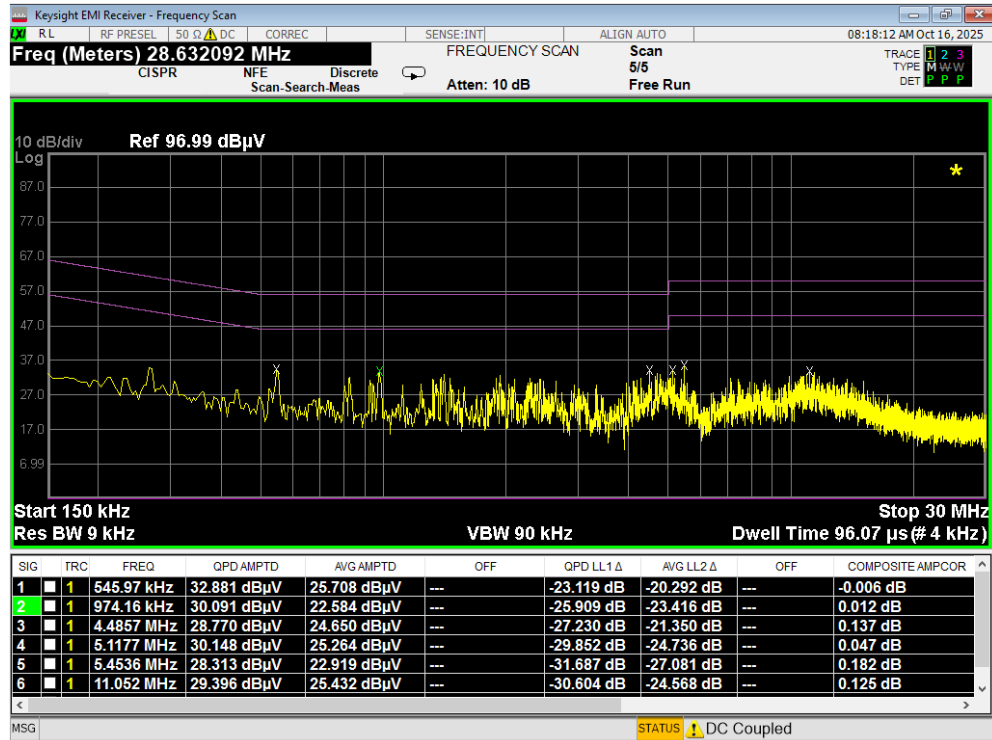
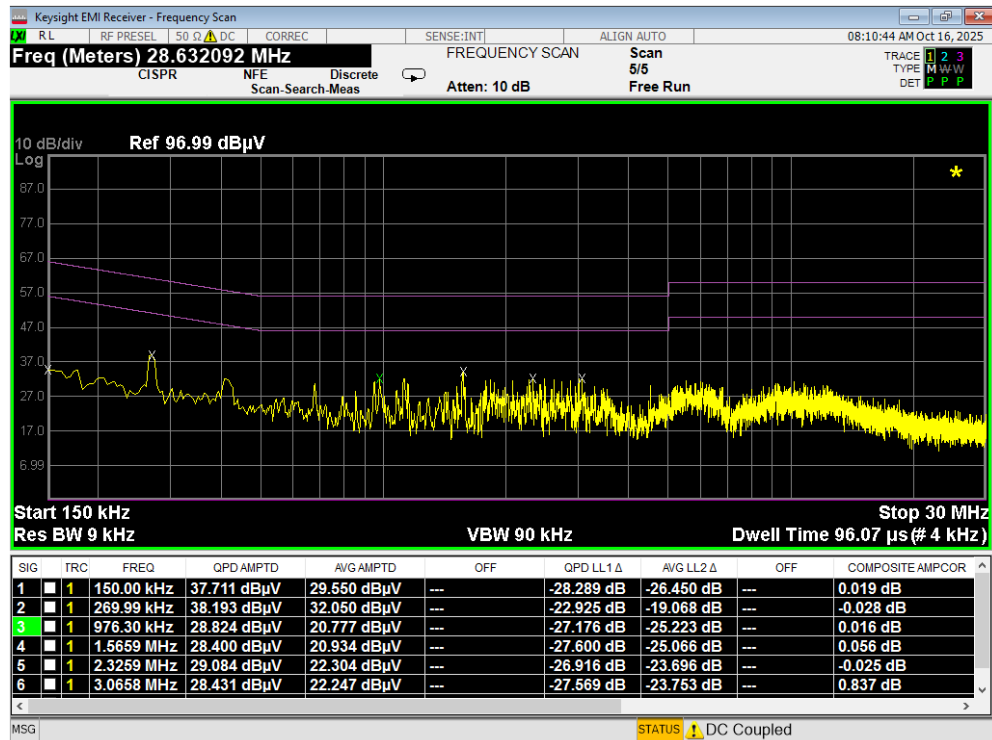


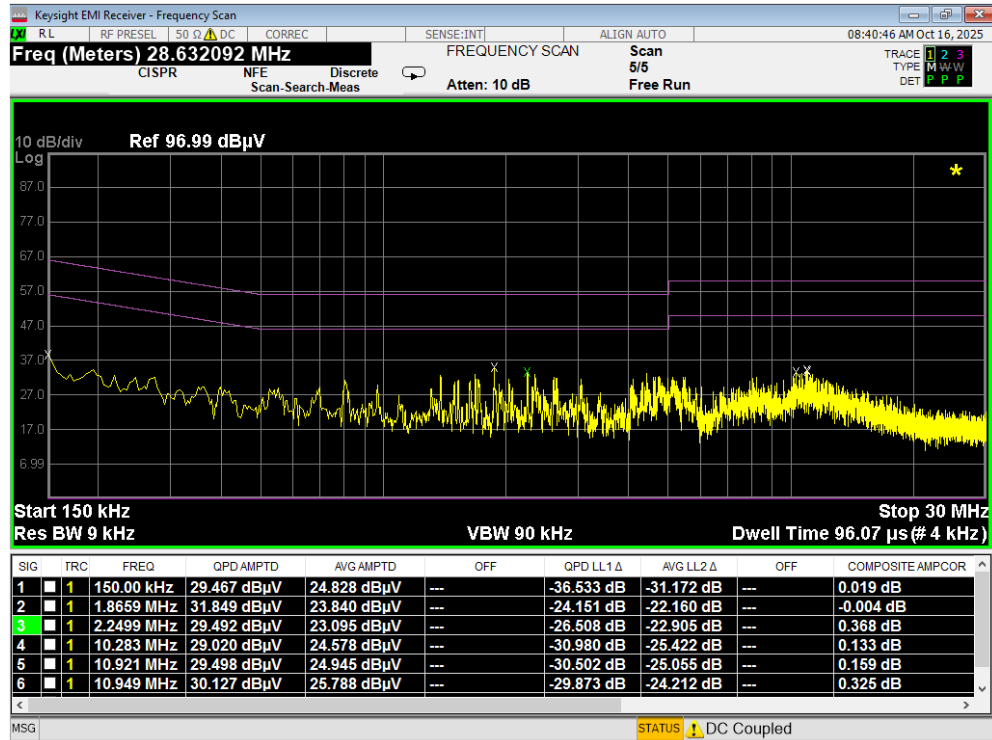


Plot 7-200. Line Conducted Plot with 802.11a UNII Band 3 (L1)

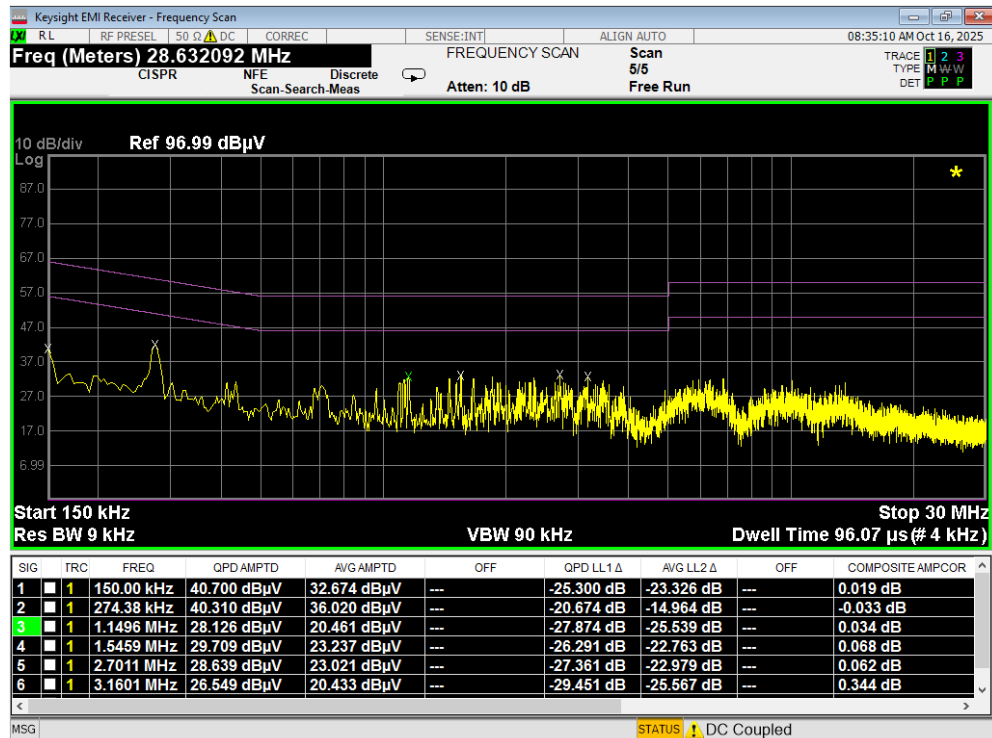


Plot 7-201. Line Conducted Plot with 802.11a UNII Band 3 (N)

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-18-R1.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 140 of 149

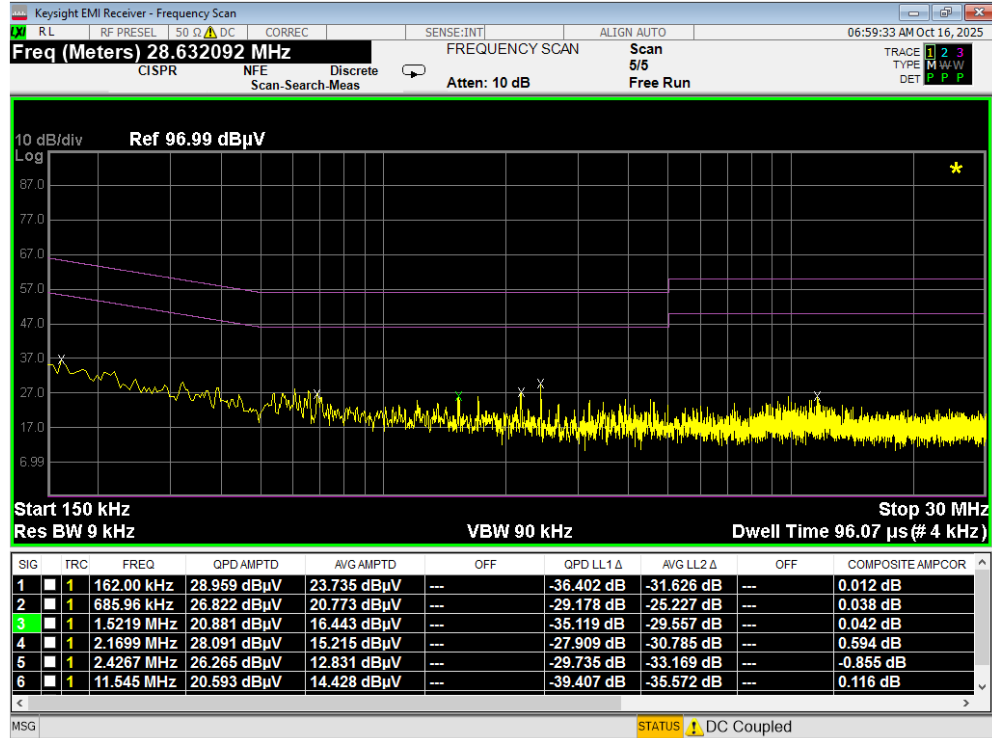


Plot 7-202. Line Conducted Plot with 802.11a UNII Band 4 (L1)

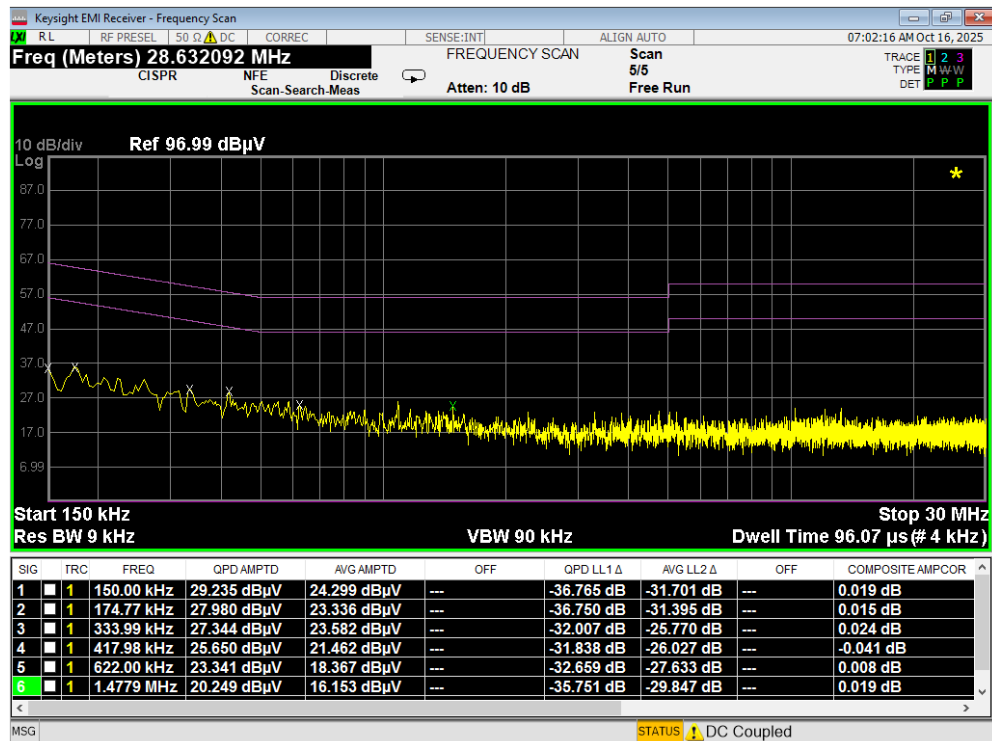


Plot 7-203. Line Conducted Plot with 802.11a UNII Band 4 (N)

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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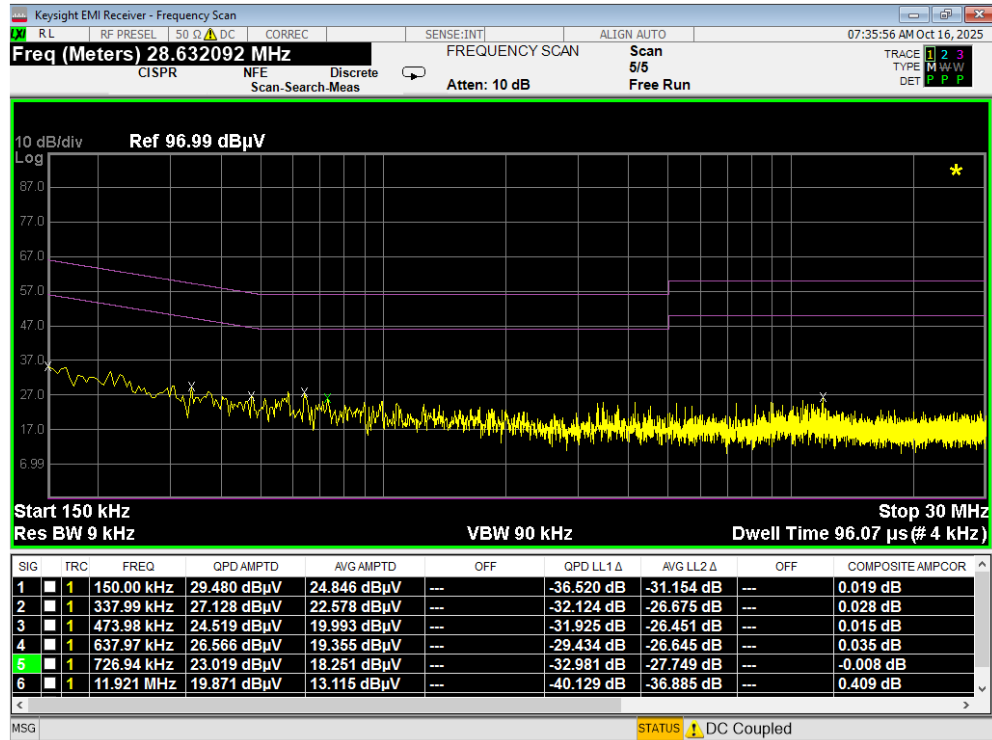


Plot 7-204. Line Conducted Plot with 802.11a UNII Band 1 (L1) with WCP

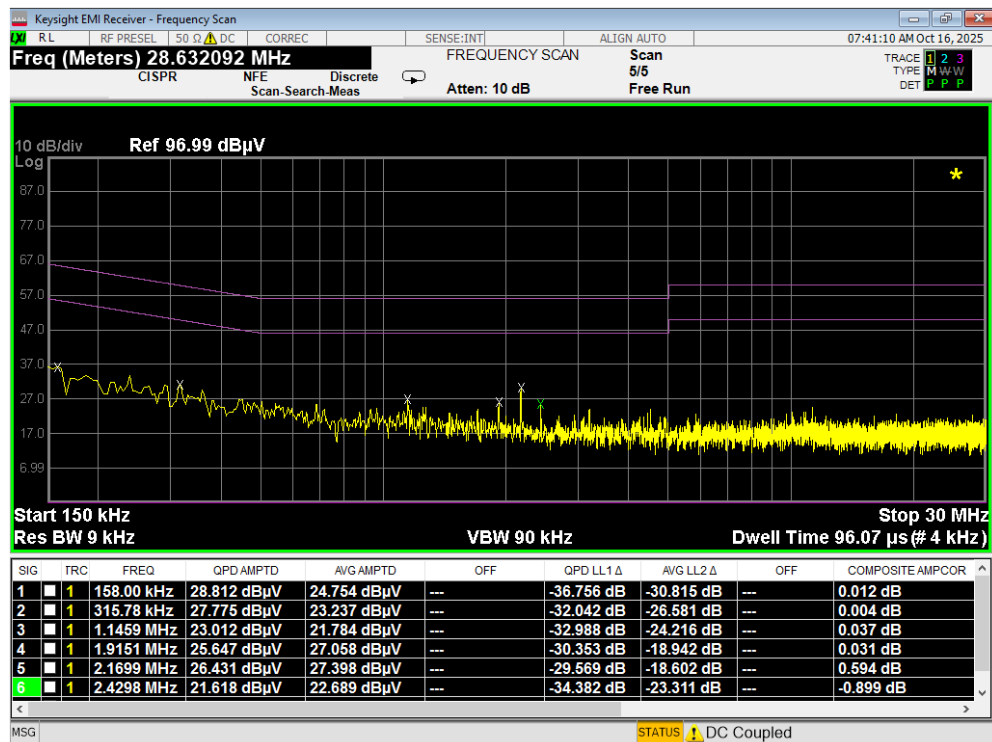


Plot 7-205. Line Conducted Plot with 802.11a UNII Band 1 (N) with WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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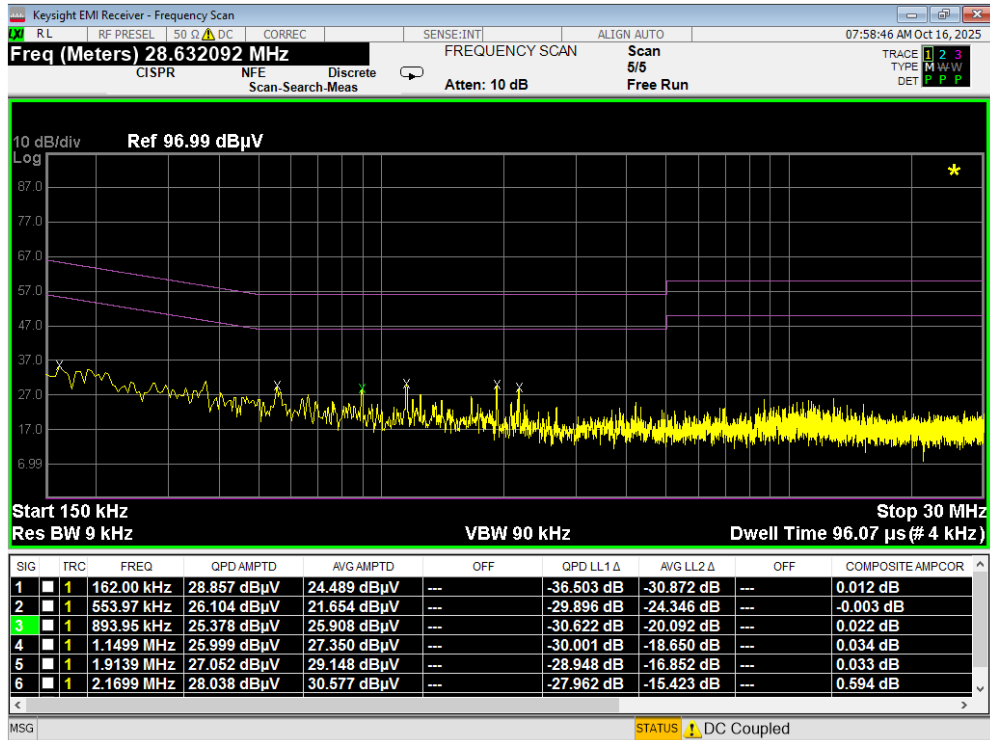


Plot 7-206. Line Conducted Plot with 802.11a UNII Band 2A (L1) with WCP

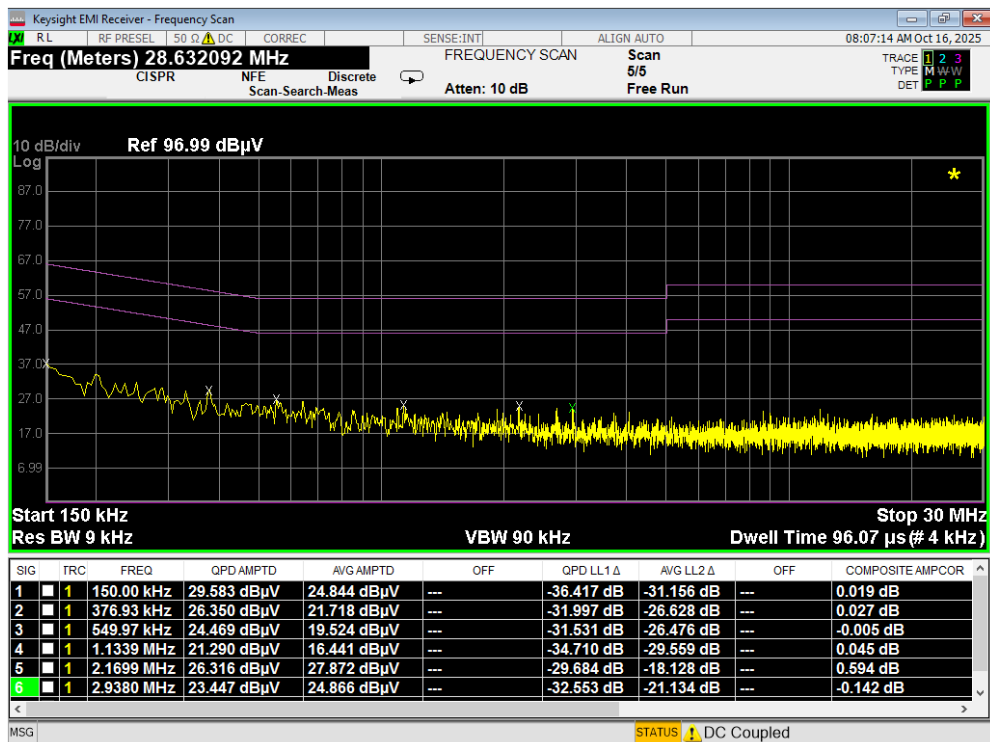


Plot 7-207. Line Conducted Plot with 802.11a UNII Band 2A (N) with WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-18-R1.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 143 of 149

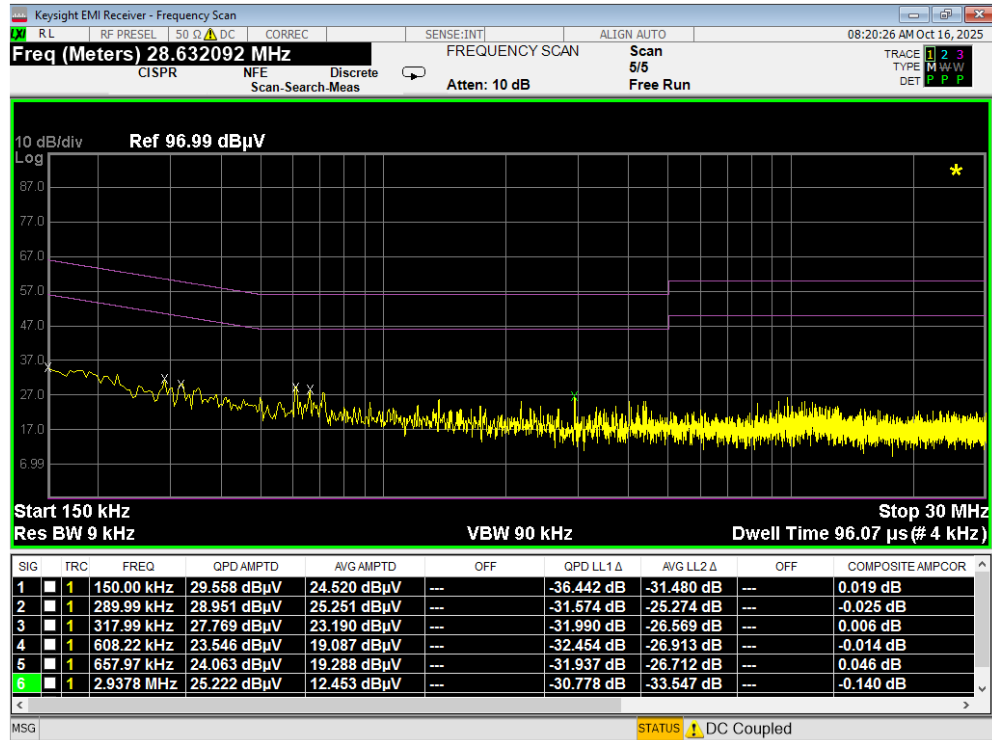


Plot 7-208. Line Conducted Plot with 802.11a UNII Band 2C (L1) with WCP

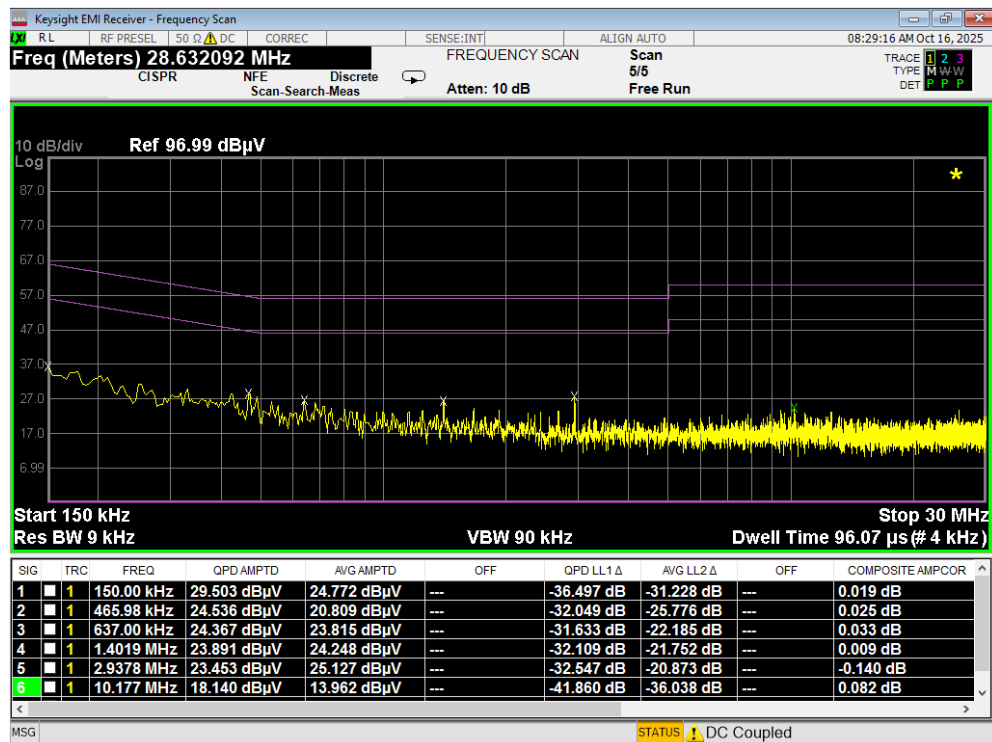


Plot 7-209. Line Conducted Plot with 802.11a UNII Band 2C (N) with WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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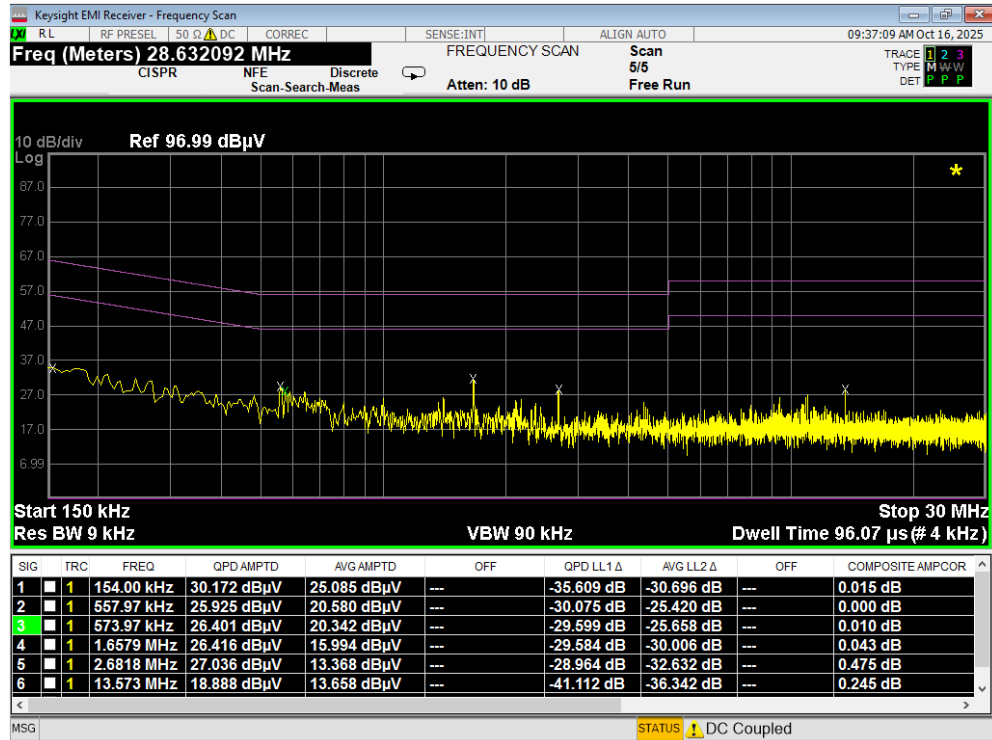


Plot 7-210. Line Conducted Plot with 802.11a UNII Band 3 (L1) with WCP

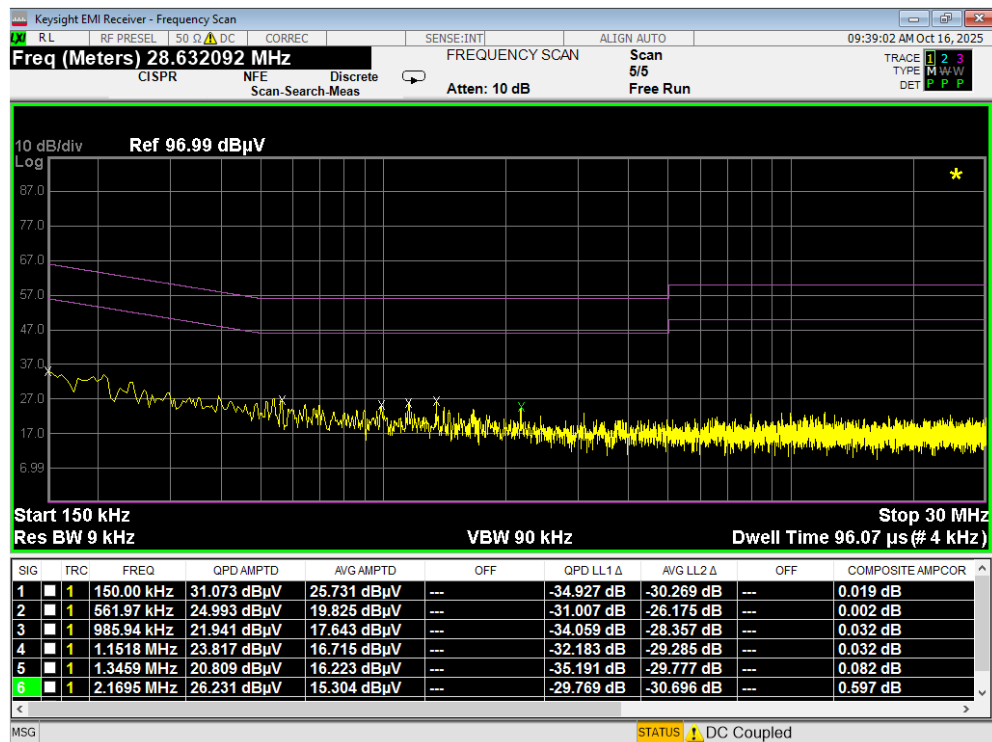


Plot 7-211. Line Conducted Plot with 802.11a UNII Band 3 (N) with WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-212. Line Conducted Plot with 802.11a UNII Band 4 (L1) with WCP



Plot 7-213. Line Conducted Plot with 802.11a UNII Band 4 (N) with WCP

FCC ID: A3LSMS948B	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: A3LSMS948B** is in compliance with Part 15 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: 1M2508250079-18-R1.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 147 of 149

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

5GHz WIFI (20MHz 802.11a MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5200	40	17.98	16.48	20.30	23.98	-3.68	-0.90	19.40	30.00	-10.60
UNII-2A	5280	56	17.97	17.22	20.62	23.98	-3.36	-0.61	20.01	30.00	-9.99
UNII-2C	5600	120	17.16	17.19	20.19	23.98	-3.79	-0.58	19.61	30.00	-10.39
UNII-3	5785	157	17.91	17.32	20.64	30.00	-9.36	-0.70	19.94	36.00	-16.06
UNII-4	5865	173	17.44	17.22	20.34	-	-	-1.47	18.87	30.00	-11.13

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

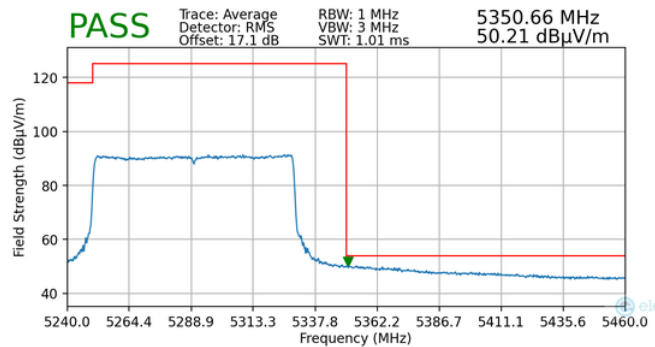
FCC ID: A3LSMS948B	MEASUREMENT REPORT		Approved by: Technical Manager
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Radiated Spot-Checks – Model: SM-S948B/DS

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]
802.11a	MIMO	1	40	5200		10400.00	Peak	H	-	-	-65.91	12.45	0.00	53.54	68.20	-14.66

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

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



Plot 9-1. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

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 - 802.11a 20MHz	dBm	N/A	20.29	20.30	0.01	1	PASS
					20.32	20.62	0.30	1	PASS
					20.64	20.19	-0.45	1	PASS
					20.37	20.64	0.27	1	PASS
					20.08	20.34	0.26	1	PASS
15.209, 15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4)	Radiated Spurious Emissions	802.11a MIMO Ch.40 - 10400MHz - PEAK	dBμV/m	68.20	55.42	53.54	-1.88	3	PASS
15.209	Radiated Band Edge Emissions	802.11be MIMO Ch.58 - Average	dBμV/m	53.98	51.72	50.21	-1.51	3	PASS

Table 9-3. Summary of Spot-checks

- END OF TEST REPORT -

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