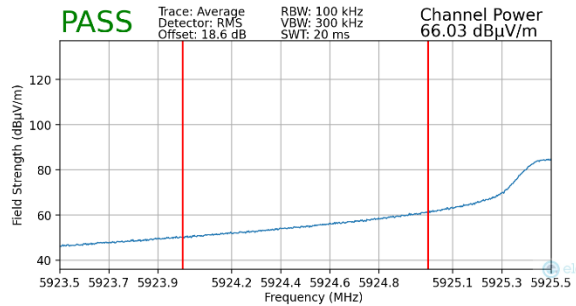
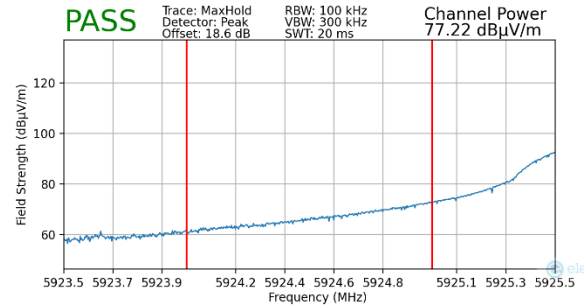


7.6.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	53
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

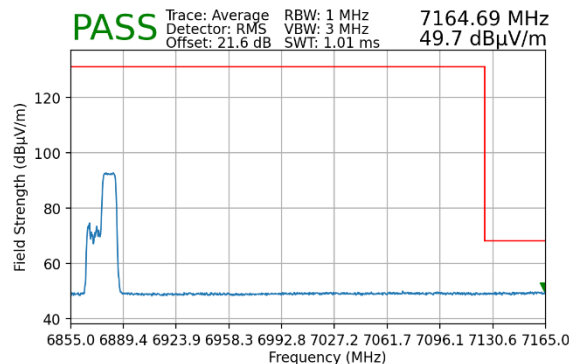


Plot 7-93. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106T)

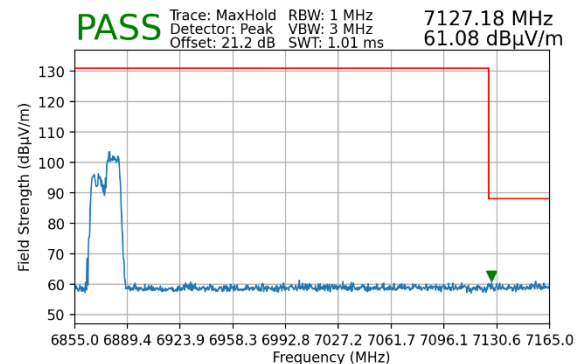


Plot 7-94. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	6875MHz
Channel:	185



Plot 7-95. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 7 – 106T)



Plot 7-96. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 7 – 106T)

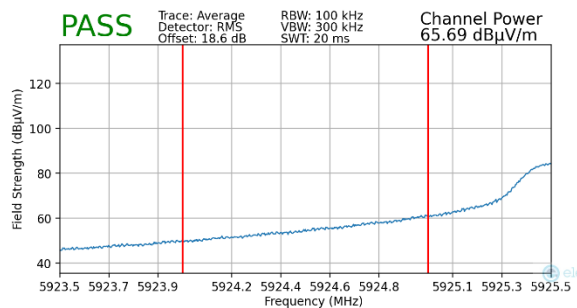
Note:

The highest channel of operation for VLP mode lies within the UNII-7 band (6525 - 6875MHz) which is far from the band edge at 7125MHz. We have investigated the band edge emissions at the upper edge of 7125MHz and are only including the worst-case upper band edge measurements as shown on this page.

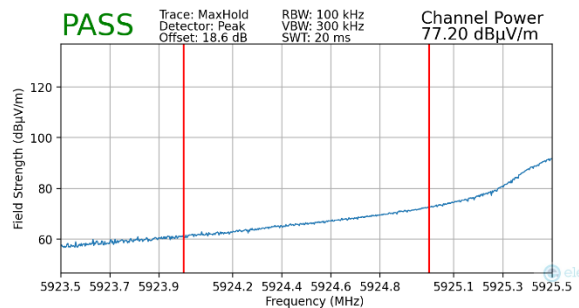
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 97 of 113

7.6.4 MIMO Radiated Band Edge Measurements (20MHz BW – MRU – 106+26T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	82
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2



**Plot 7-97. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 5 – 106+26T)**

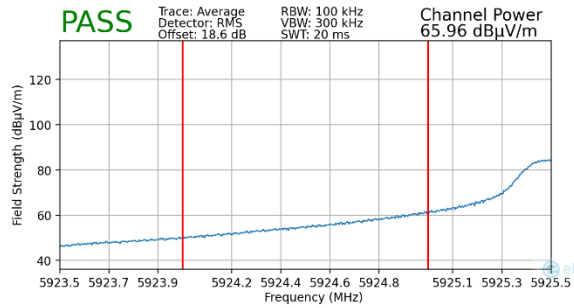


**Plot 7-98. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5 – 106+26T)**

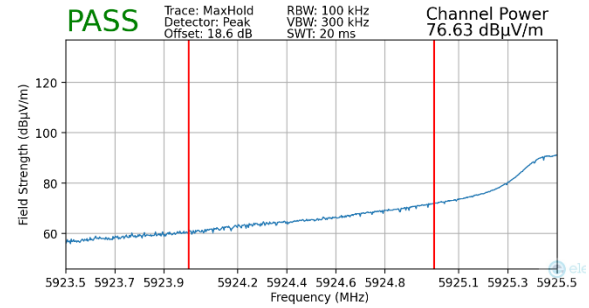
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 98 of 113

7.6.5 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

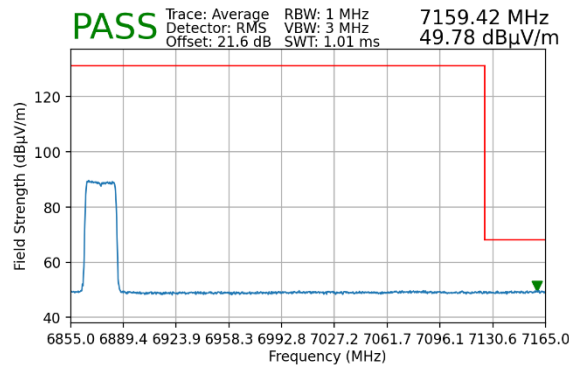


Plot 7-99. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 242T)

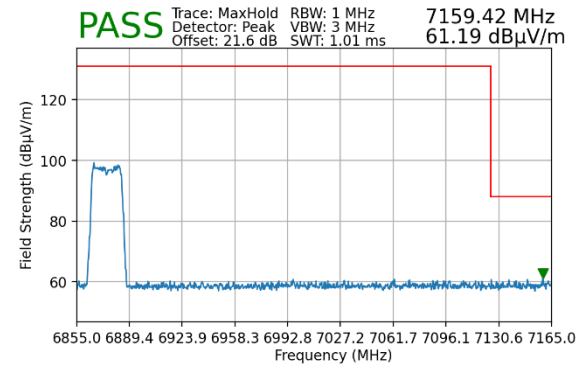


Plot 7-100. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	6875MHz
Channel:	185



Plot 7-101. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 242T)

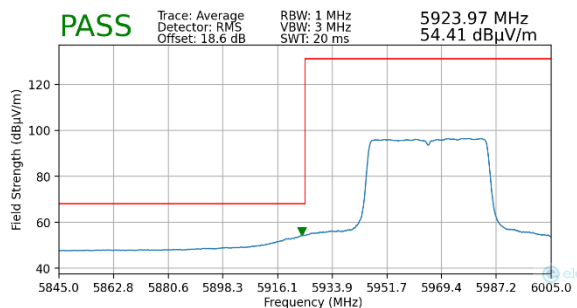


Plot 7-102. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 242T)

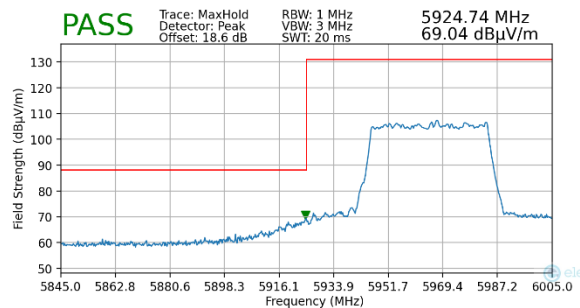
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 99 of 113

7.6.6 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3



**Plot 7-103. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 5 – 484T)**

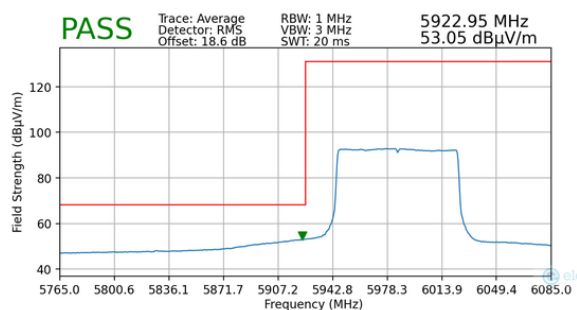


**Plot 7-104. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5 – 484T)**

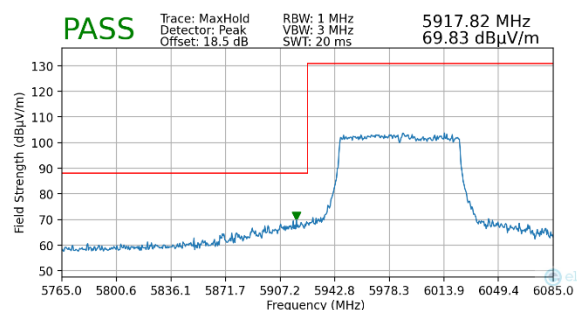
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 100 of 113

7.6.7 MIMO Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7



**Plot 7-105. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 5 – 996T)**

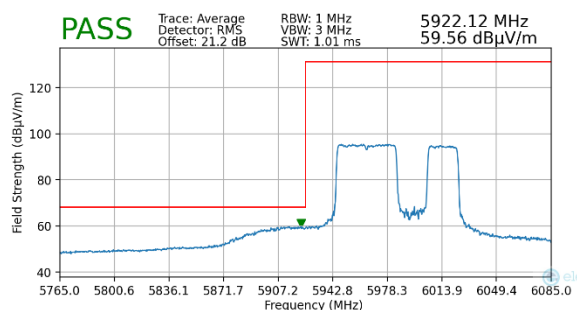


**Plot 7-106. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5 – 996T)**

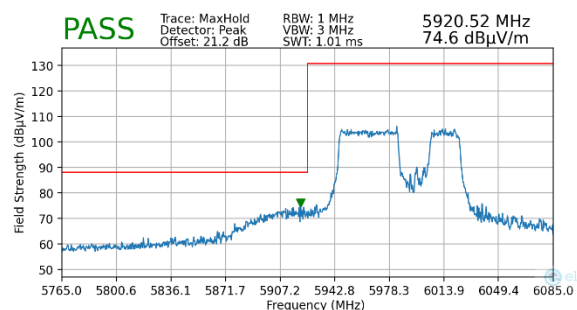
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 101 of 113

7.6.8 MIMO Radiated Band Edge Measurements (80MHz BW – MRU – 484+242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	92
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7



Plot 7-107. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484+242T)

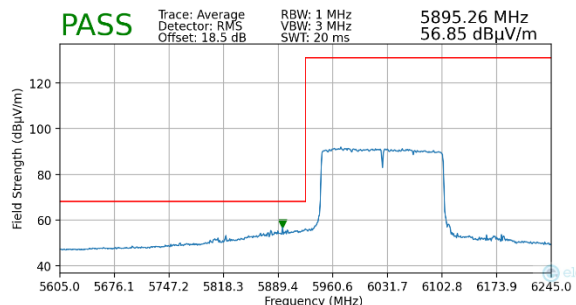


Plot 7-108. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484+242T)

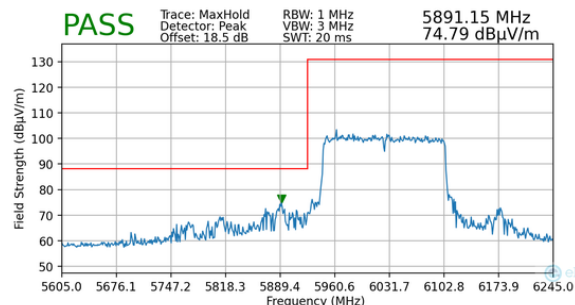
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 102 of 113

7.6.9 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-109. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 2x996T)

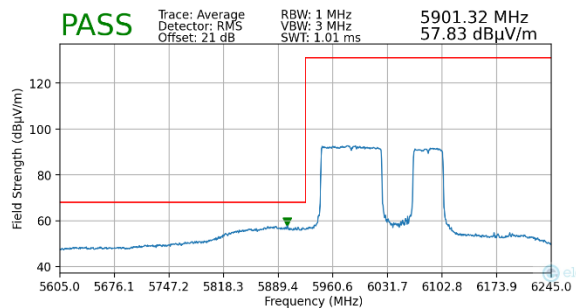


Plot 7-110. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T)

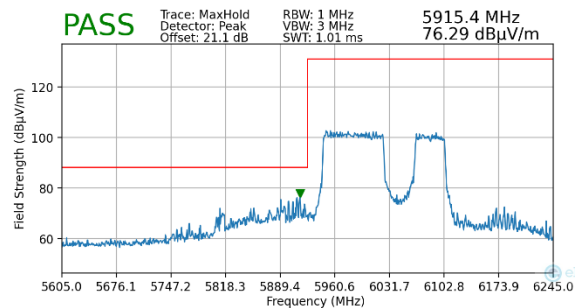
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 103 of 113

7.6.10 MIMO Radiated Band Edge Measurements (160MHz BW – MRU – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	1094
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-111. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996+484T)

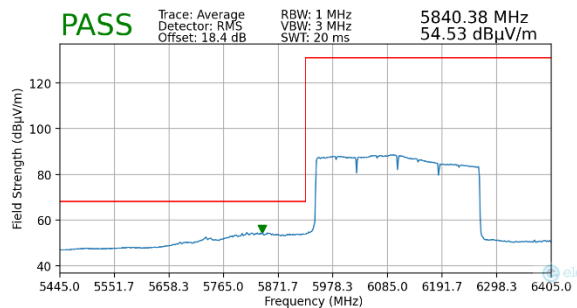


Plot 7-112. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996+484T)

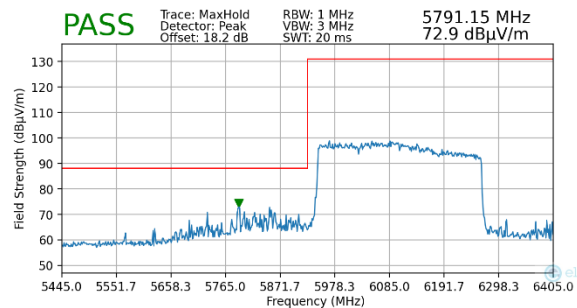
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 104 of 113

7.6.11 MIMO Radiated Band Edge Measurements (320MHz BW – Full Tone – 4*996T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-113. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 5 – 4*996T)

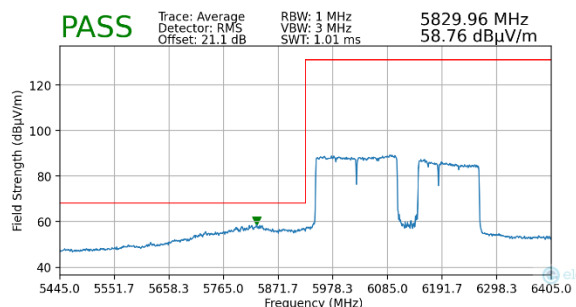


Plot 7-114. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5 – 4*996T)

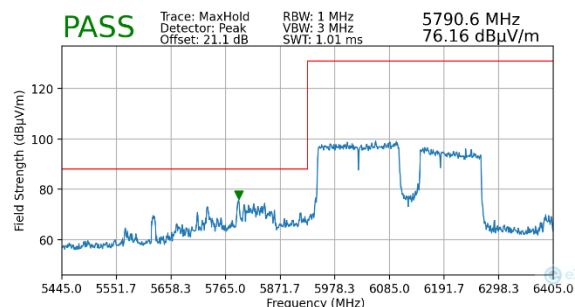
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 105 of 113

7.6.12 MIMO Radiated Band Edge Measurements (320MHz BW – MRU – 3*996+484T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	10105
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-115. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 3*996+484T)



Plot 7-116. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 3*996+484T)

FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 106 of 113

8 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF966B** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a Very Low Power Device.

FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 107 of 113

9 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 C63.10-2013.

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 – SM-F966B

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Dir. Ant. Gain [dB]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index						
					65						
					ANT1	ANT2	MIMO				
	5	6165	43	484T	7.99	8.48	11.25	-3.07	8.2	14.0	-5.82
7	6685	147	484T	7.82	8.43	11.15	-2.97	8.2	14.0	-5.82	

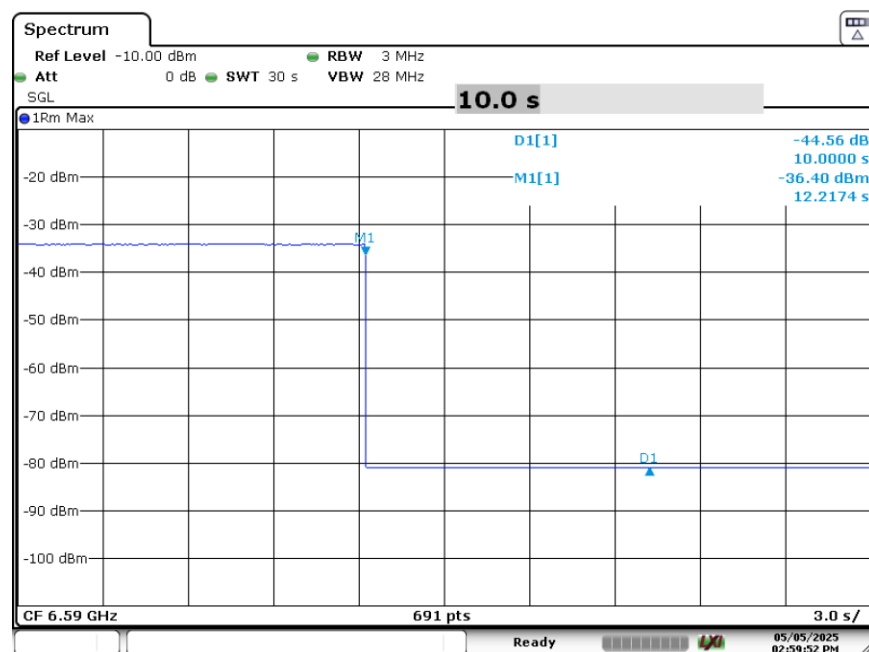
Table 9-1. Conducted Output Power Measurements (Spot-check)

FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 108 of 113

Contention Based Protocol Detection Spot-check SM-F966B

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 7	159	6745	320	6590	-73.54	-11.08	-62.46	-62.0	-0.46
				6745	-74.13	-11.08	-63.05	-62.0	-1.05
				6900	-73.81	-11.08	-62.73	-62.0	-0.73

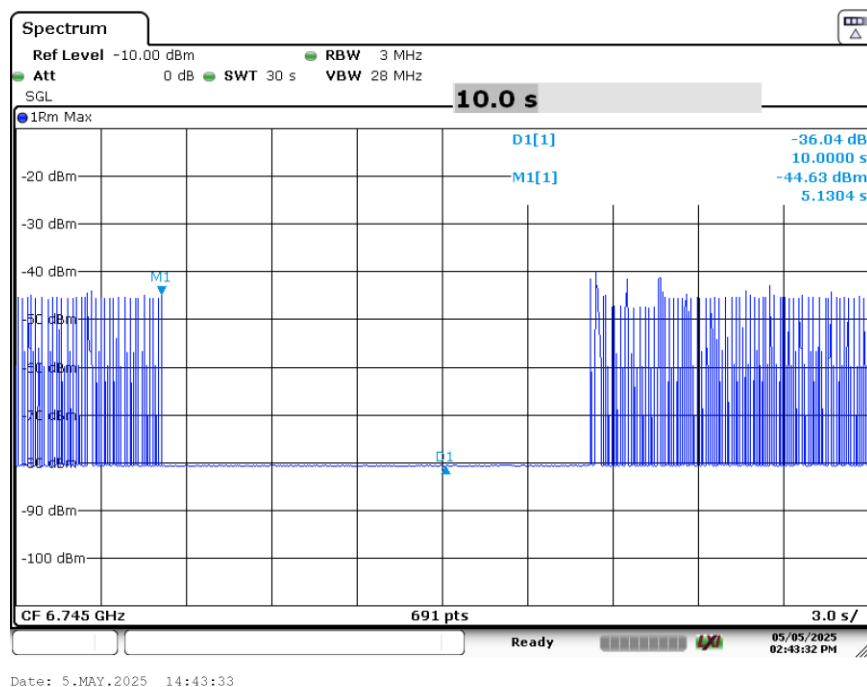
Table 9-2. Contention Based Protocol – Incumbent Detection – Spot-check (SM-F966B)



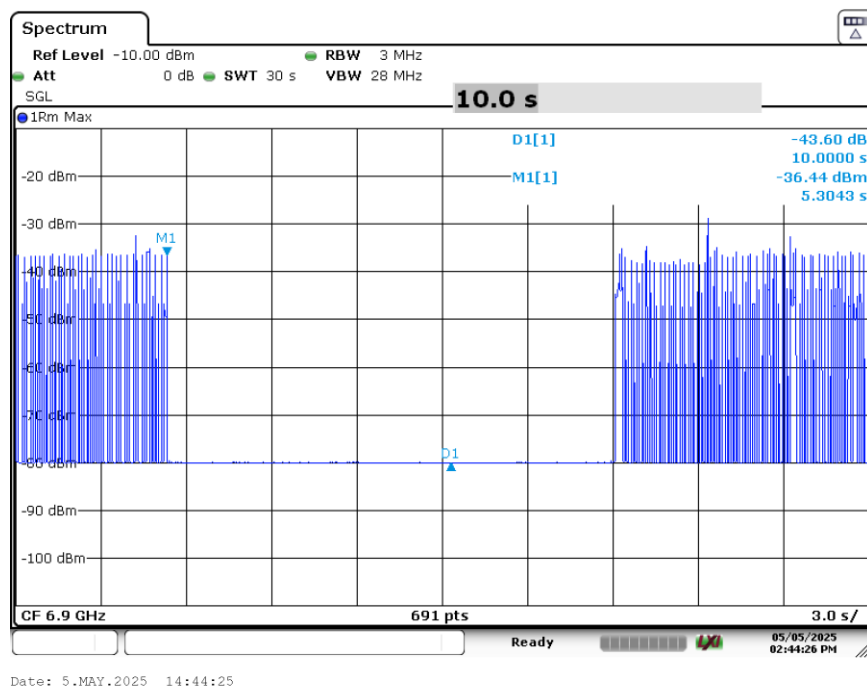
Date: 5.MAY.2025 14:59:52

Plot 9-1. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch.159 Low)

FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 109 of 113



Plot 9-2. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch.159 Mid)

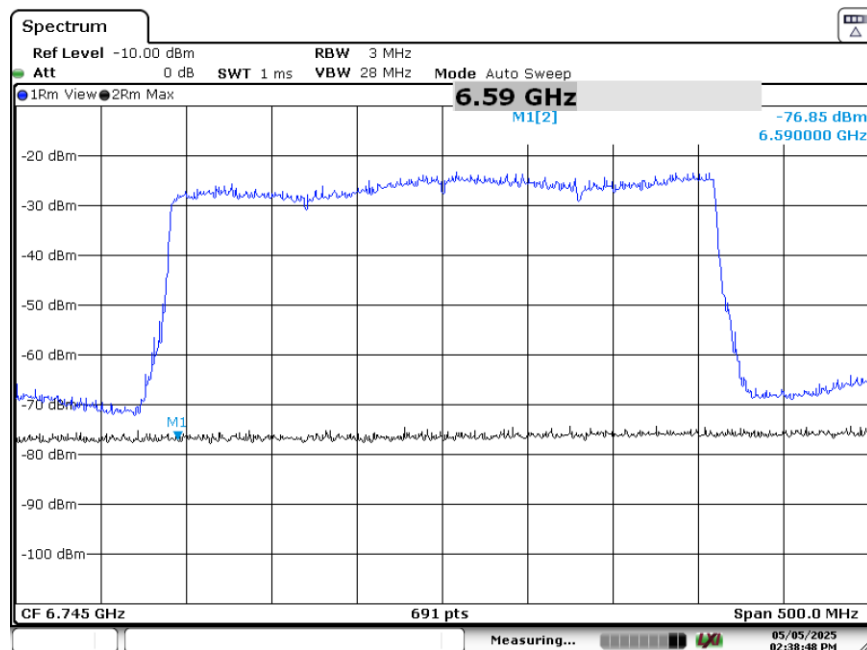


Plot 9-3. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch.159 High)

FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 110 of 113

Contention Based Protocol Incumbent Avoidance Spot-Check

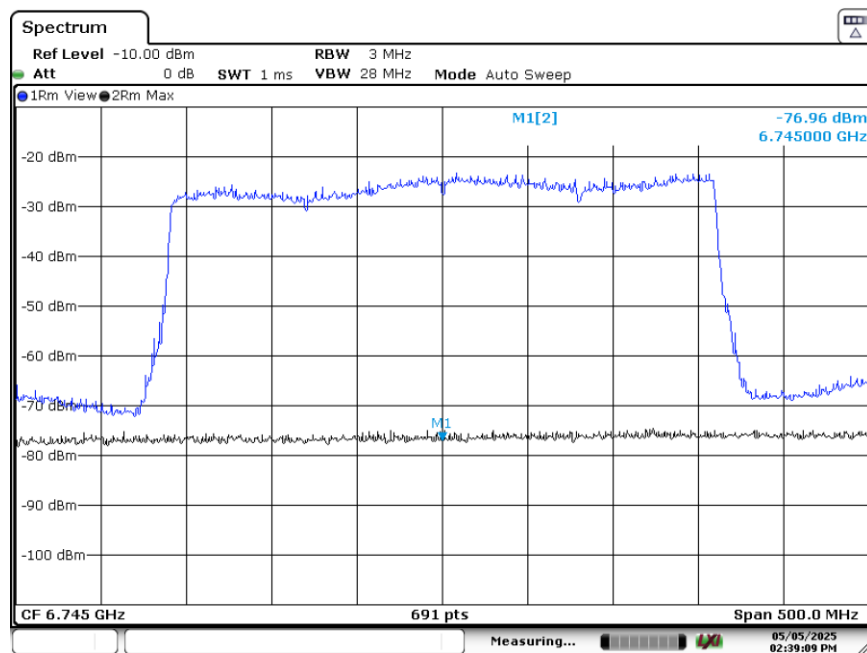
- When a 10 MHz AWGN signal centered at 6590 MHz (lower edge of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6745 MHz (middle of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6900 MHz (upper edge of channel) is injected, the channel completely stops transmitting.



Date: 5.MAY.2025 14:38:47

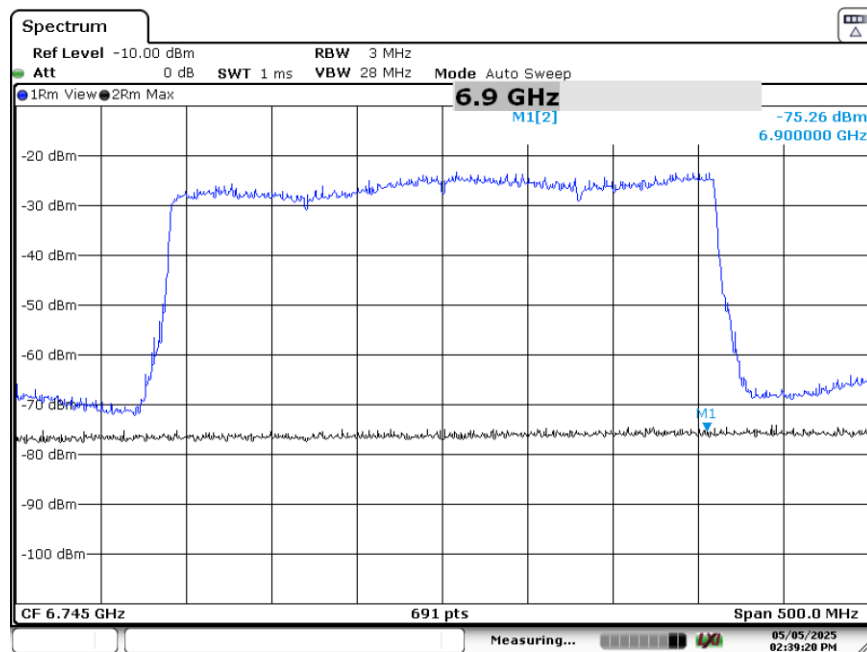
Plot 9-4. CBP 320MHz Channel - Injection Lower Edge – [6590 MHz]

FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 111 of 113



Date: 5.MAY.2025 14:39:08

Plot 9-5. CBP 320MHz Channel - Injection Center – 6745 MHz]



Date: 5.MAY.2025 14:39:20

Plot 9-6. CBP 320MHz Channel - Injection Upper Edge – [6900 MHz]

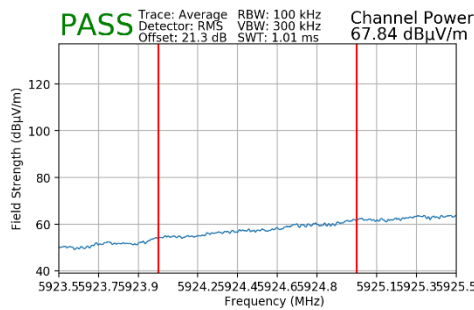
FCC ID: A3LSMF966B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 112 of 113

Radiated Spot-Checks – SM-F966B

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	7	149	6695	*	13390.00	Average	H	137	322	-77.01	20.77	0.00	50.76	53.98	-3.22
					*	13390.00	Peak	H	137	322	-65.22	20.77	0.00	62.55	73.98	-11.43

Table 9-3. RSE Measurements (Spot-check)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2



Plot 9-7. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-F966U	Variant Model: SM-F966B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
2.1046, 15.407(a)(8)	Conducted Output Power	Mid Channel Each UNII Band - 802.11be 40MHz 484T - VLP - Ch43	dBm	-	11.24	11.25	0.01	1	PASS
15.407(a)(9)	Contention Based Protocol	Ch. 95 - 320MHz	dBm	-62	-63.32	-62.46	0.86	3	PASS
15.209	Radiated Spurious Emissions	802.11a MIMO Ch.2 - Average - 11870 MHz	dBμV/m	53.98	50.92	50.76	-0.16	3	PASS
15.209	Radiated Band Edge Emissions	802.11a MIMO Ch.2 - Average	dBμV/m	68.2	66.09	67.84	1.75	3	PASS

Table 9-4. Summary of Spot-checks

FCC ID: A3LSMF966B	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2502270019-20-R1.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset		Page 113 of 113