

Worst Case Mode: 802.11ax OFDMA

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 3 Meters

Operating Frequency: Channel: 6

2437MHz

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	-	-	-77.81	2.89	32.08	53.98	-21.90
4874.00	Peak	V	-	-	-66.36	2.89	43.53	73.98	-30.45
7311.00	Avg	V	-	-	-78.26	8.87	37.61	53.98	-16.37
7311.00	Peak	V	-	-	-66.86	8.87	49.01	73.98	-24.97
12185.00	Avg	V	-	-	-79.95	12.99	40.04	53.98	-13.93
12185.00	Peak	V	-	-	-68.60	12.99	51.39	73.98	-22.58

Table 7-19. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax OFDMA

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

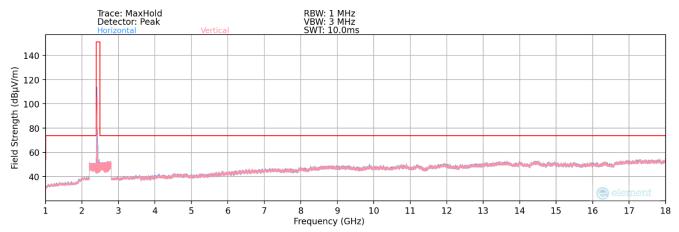
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	V	-	-	-77.98	2.87	31.89	53.98	-22.09
4924.00	Peak	V	-	-	-66.04	2.87	43.83	73.98	-30.15
7386.00	Avg	V	-	-	-78.31	8.86	37.55	53.98	-16.43
7386.00	Peak	V	-	-	-66.26	8.86	49.60	73.98	-24.38
12310.00	Avg	V	-	-	-80.10	13.13	40.03	53.98	-13.95
12310.00	Peak	V	-	-	-68.92	13.13	51.21	73.98	-22.77

Table 7-20. Radiated Measurements SISO ANT2 (242 Tones)

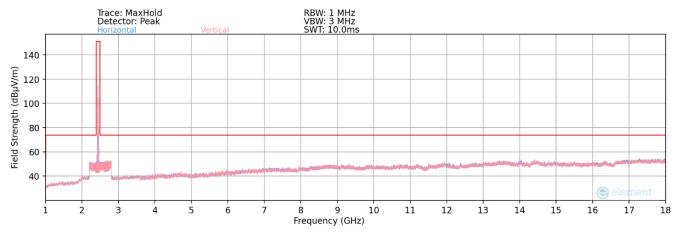
FCC ID: A3LSMS711B		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 84 of 99		
1M2304260063-14.A3L	5/30 - 8/8/2023	Portable Handset			



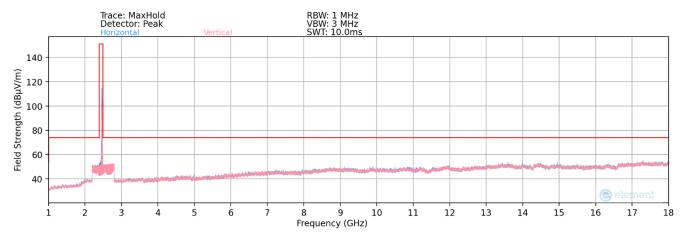
7.7.2 MIMO Radiated Spurious Emission Measurements



Plot 7-105. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA - 26 Tones - Ch. 1)



Plot 7-106. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA - 26 Tones - Ch. 6)



Plot 7-107. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 11)

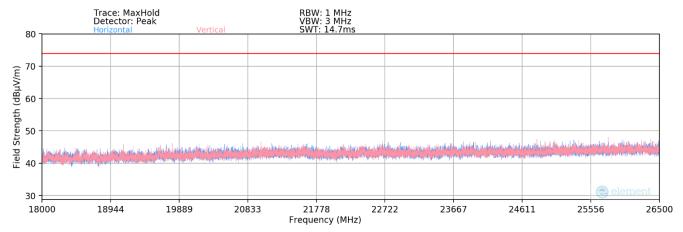
FCC ID: A3LSMS711B		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 85 of 99		
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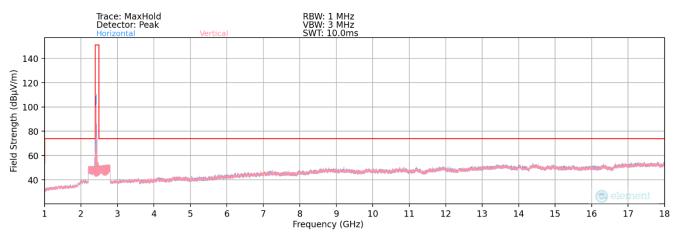
V9.0 02/01/2019

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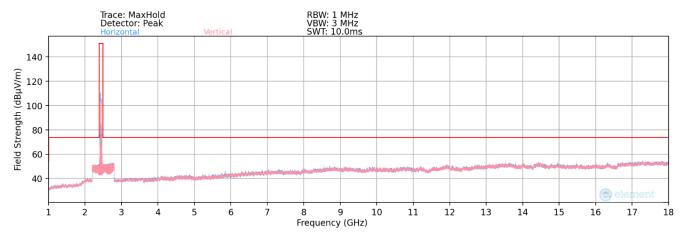




Plot 7-108. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA - 26 Tones)



Plot 7-109. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 1)



Plot 7-110. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 6)

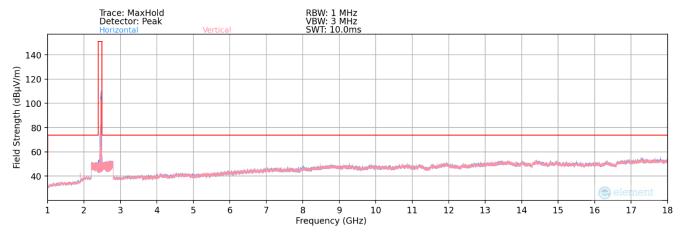
FCC ID: A3LSMS711B		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 86 of 99		
1M2304260063-14.A3L	5/30 - 8/8/2023	Portable Handset			

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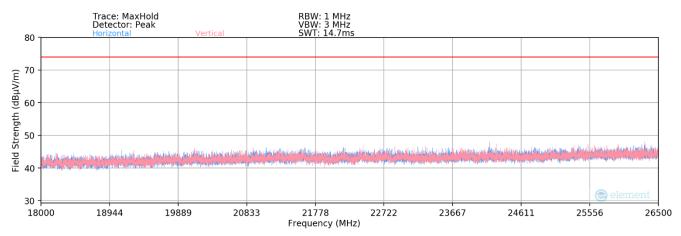
V9.0 02/01/2019

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Plot 7-111. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA - 242 Tones - Ch. 11)



Plot 7-112. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 242 Tones)

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MIMO Radiated Spurious Emission Measurements

Worst Case Mode: 802.11ax OFDMA Worst Case Transfer Rate: MCS0 RU Index: 4 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	Н	-	-	-77.78	2.68	31.90	53.98	-22.08
4824.00	Peak	Н	-	-	-66.27	2.68	43.41	73.98	-30.57
12060.00	Avg	Н	-	-	-79.35	12.71	40.36	53.98	-13.61
12060.00	Peak	Н	-	-	-68.06	12.71	51.65	73.98	-22.32

Table 7-21. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax OFDMA Worst Case Transfer Rate: MCS0 RU Index: 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	Н	-	-	-77.80	2.89	32.09	53.98	-21.89
4874.00	Peak	Н	-	-	-66.50	2.89	43.39	73.98	-30.59
7311.00	Avg	Н	-	-	-78.36	8.87	37.51	53.98	-16.47
7311.00	Peak	Н	-	-	-65.80	8.87	50.07	73.98	-23.91
12185.00	Avg	Н	-	-	-79.90	12.99	40.09	53.98	-13.88
12185.00	Peak	Н	-	-	-68.44	12.99	51.55	73.98	-22.42

Table 7-22. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMS711B		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 88 of 99	
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Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0

RU Index: 4

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	Н	-	-	-78.05	2.87	31.82	53.98	-22.16
4924.00	Peak	Н	-	-	-65.84	2.87	44.03	73.98	-29.95
7386.00	Avg	Н	-	-	-78.35	8.86	37.51	53.98	-16.47
7386.00	Peak	Н	-	-	-67.09	8.86	48.77	73.98	-25.21
12310.00	Avg	Н	-	-	-80.03	13.13	40.10	53.98	-13.88
12310.00	Peak	Н	-	-	-68.33	13.13	51.80	73.98	-22.18

Table 7-23. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax OFDMA

Worst Case Transfer Rate: MCS0

RU Index: 61

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	Н	-	-	-77.80	2.68	31.88	53.98	-22.10
4824.00	Peak	Н	-	-	-65.79	2.68	43.89	73.98	-30.09
12060.00	Avg	Н	-	-	-79.40	12.71	40.31	53.98	-13.66
12060.00	Peak	Н	-	-	-67.71	12.71	52.00	73.98	-21.97

Table 7-24. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS711B		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 89 of 99		
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Worst Case Mode: 802.11ax OFDMA

Worst Case Transfer Rate: MCS0

61

Distance of Measurements:

3 Meters

Operating Frequency:

2437MHz

Channel:

RU Index:

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	Н	-	-	-77.98	2.89	31.91	53.98	-22.07
4874.00	Peak	Н	-	-	-65.35	2.89	44.54	73.98	-29.44
7311.00	Avg	Н	-	-	-78.38	8.87	37.49	53.98	-16.49
7311.00	Peak	Н	-	-	-66.79	8.87	49.08	73.98	-24.90
12185.00	Avg	Н	-	-	-79.91	12.99	40.08	53.98	-13.89
12185.00	Peak	Н	-	-	-68.29	12.99	51.70	73.98	-22.27

Table 7-25. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax OFDMA

Worst Case Transfer Rate: MCS0

RU Index: 61

3 Meters

Distance of Measurements:
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	Н	-	-	-78.01	2.87	31.86	53.98	-22.12
4924.00	Peak	Н	-	-	-66.21	2.87	43.66	73.98	-30.32
7386.00	Avg	Н	-	-	-78.35	8.86	37.51	53.98	-16.47
7386.00	Peak	Н	-	-	-65.99	8.86	49.87	73.98	-24.11
12310.00	Avg	Н	-	-	-80.09	13.13	40.04	53.98	-13.94
12310.00	Peak	Н	-	-	-68.69	13.13	51.44	73.98	-22.54

Table 7-26. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogg 00 of 00
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7.7.3 SISO Antenna-2 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:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

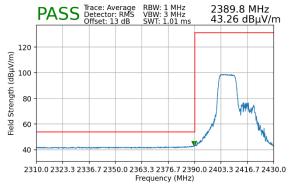
802.11ax OFDMA

MCS0

53

3 Meters

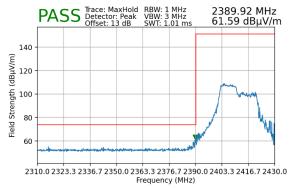
2412MHz



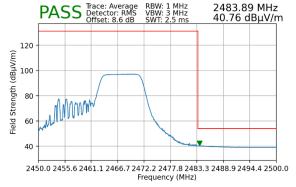
Plot 7-113. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 106 Tones)

Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS0
54
3 Meters
2462MHz
11



Plot 7-114. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 106 Tones)



Plot 7-115. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)



Plot 7-116. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 01 of 00
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

MCS0

54

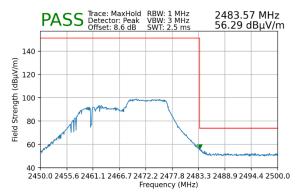
3 Meters

2467MHz

12

	PAS	SS 🖔	race: Av etector offset: 8	erage : RMS .6 dB	RBW: 1 VBW: 3 SWT: 2	MHz			7 MHz ΒμV/r	
120 ·										
(dBµV)										
rength										
Field Strength (dBµV/m)			MM	/						
40 -		~~				1	-			
245	50.0 245	5.6 246	51.1 246		72.2 247 requenc		3.3 248	88.9 249	4.4 250	0.0

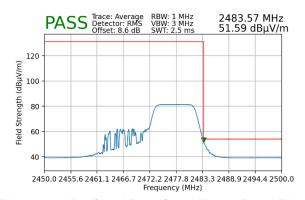
Plot 7-117. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)



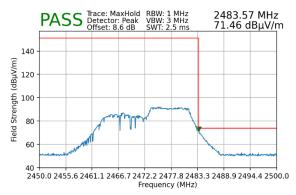
Plot 7-118. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS0
54
3 Meters
2472MHz
13



Plot 7-119. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)



Plot 7-120. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

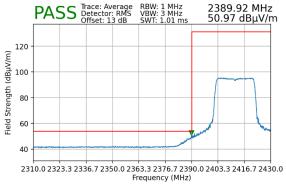
FCC ID: A3LSMS711B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 02 of 00
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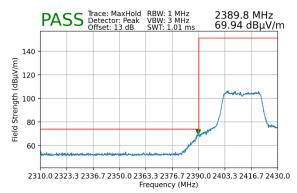
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0

RU Index:

Distance of Measurements: Operating Frequency: Channel: 61 3 Meters 2412MHz



Plot 7-121. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 242 Tones)



Plot 7-122. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

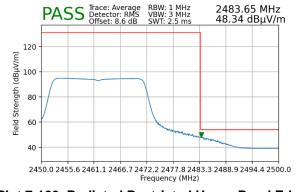
MCS0

61

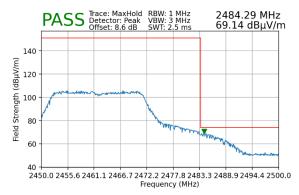
3 Meters

2462MHz

11



Plot 7-123. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)



Plot 7-124. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 02 of 00
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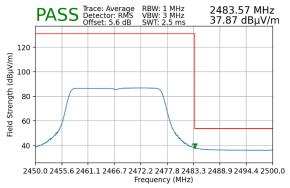
Worst Case Mode: Worst Case Transfer Rate:

RU Index:

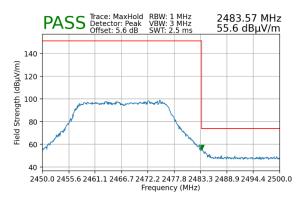
Distance of Measurements: Operating Frequency:

Channel:

802.11ax OFDMA
MCS0
61
3 Meters
2467MHz
12



Plot 7-125. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)



Plot 7-126. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

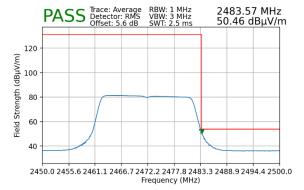
MCS0

61

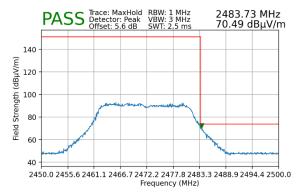
3 Meters

2472MHz

13



Plot 7-127. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)



Plot 7-128. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 94 of 99
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7.7.4 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:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

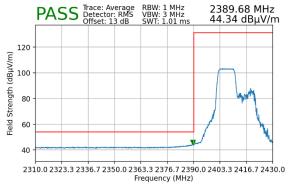
802.11ax OFDMA

MCS0

53

3 Meters

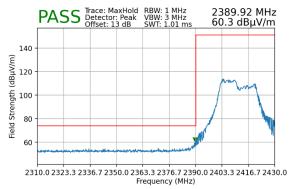
2412MHz



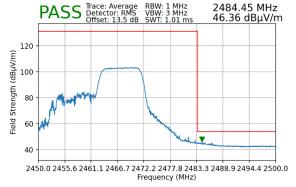
Plot 7-129. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones)

Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

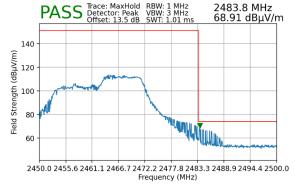
802.11ax OFDMA
MCS0
54
3 Meters
2462MHz
11



Plot 7-130. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones)



Plot 7-131. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



Plot 7-132. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo OF of OO
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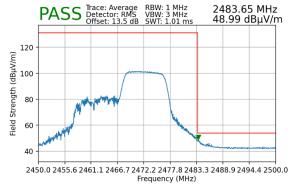
Worst Case Mode:
Worst Case Transfer Rate:

RU Index:

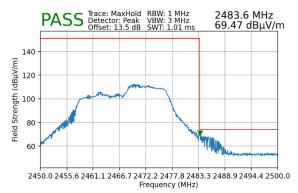
Distance of Measurements: Operating Frequency:

Channel:

802.11ax OFDMA
MCS0
54
3 Meters
2467MHz
12



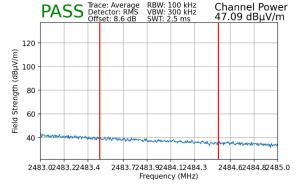
Plot 7-133. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



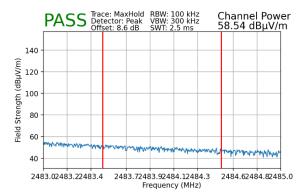
Plot 7-134. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS0
54
3 Meters
2472MHz
13



Plot 7-135. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



Plot 7-136. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

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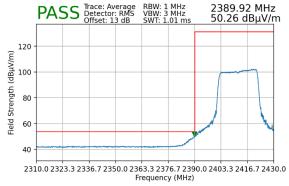
Worst Case Mode: 802.11ax C

RU Index:

Distance of Measurements: Operating Frequency:

Channel:

802.11ax OFDMA
MCS0
61
3 Meters
2412MHz
1



Plot 7-137. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

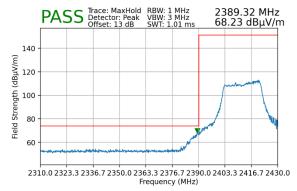
MCS0

61

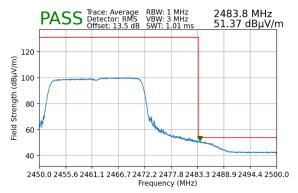
3 Meters

2462MHz

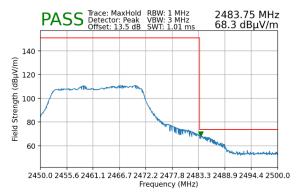
11



Plot 7-138. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)



Plot 7-139. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



Plot 7-140. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

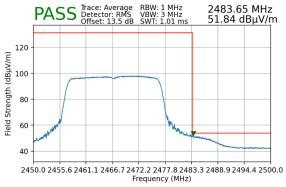
FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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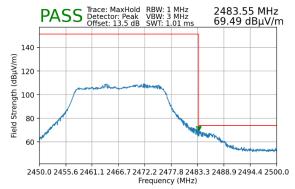
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS0

RU Index:

Distance of Measurements: Operating Frequency: Channel: MCS0 61 3 Meters 2467MHz 12



Plot 7-141. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



Plot 7-142. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

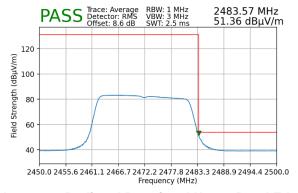
MCS0

61

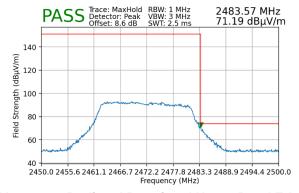
3 Meters

2472MHz

13



Plot 7-143. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



Plot 7-144. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

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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: A3LSMS711B** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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