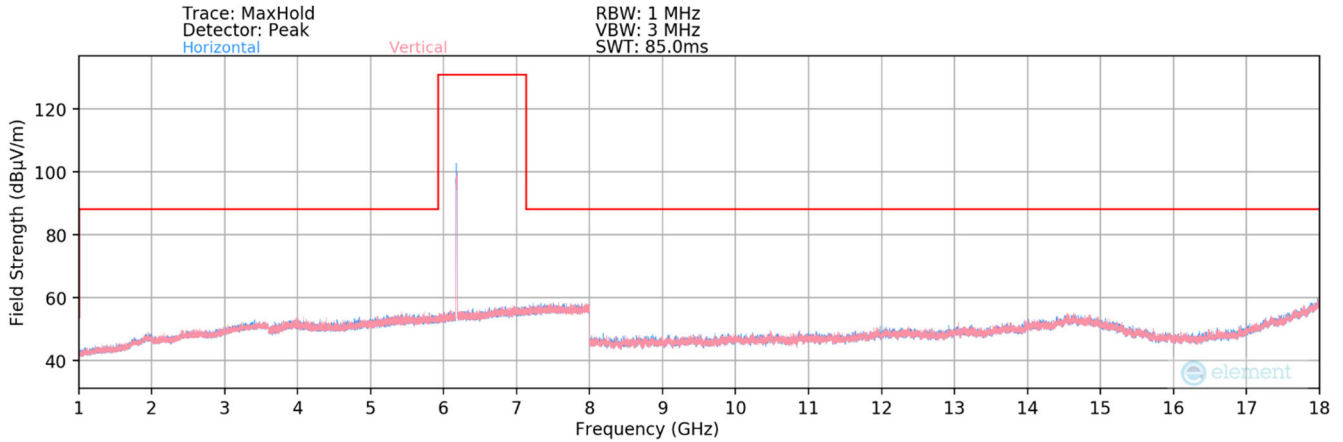




MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 5



Plot 7-671. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII Band 5 – 20MHz – Ch.45) – LPI/SP

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2

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]
* 11870.00	Average	H	-	-	-76.92	13.10	0.00	43.18	53.98	-10.80
* 11870.00	Peak	H	-	-	-65.46	13.10	0.00	54.64	73.98	-19.34
* 17805.00	Average	H	-	-	-75.66	18.32	0.00	49.66	53.98	-4.32
* 17805.00	Peak	H	-	-	-64.76	18.32	0.00	60.56	73.98	-13.42
* 23740.00	Average	H	-	-	-66.73	3.93	-9.54	34.66	53.98	-19.32
* 23740.00	Peak	H	-	-	-56.39	3.93	-9.54	45.00	73.98	-28.98
* 29675.00	Peak	H	-	-	-56.15	6.11	-9.54	47.42	68.20	-20.78

Table 7-70. Radiated Measurements MIMO (242 Tones) – LPI/SP

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-16.A3L	Test Dates: 9/03/2022 – 11/23/2022	EUT Type: Portable Handset	Page 386 of 399



Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6175MHz
 Channel: 45

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]
* 12350.00	Average	H	-	-	-75.89	13.25	0.00	44.36	53.98	-9.62
* 12350.00	Peak	H	-	-	-65.74	13.25	0.00	54.51	73.98	-19.47
* 18525.00	Average	H	-	-	-66.28	1.68	-9.54	32.86	53.98	-21.12
* 18525.00	Peak	H	-	-	-56.24	1.68	-9.54	42.90	73.98	-31.08
24700.00	Peak	H	-	-	-56.35	4.25	-9.54	45.36	68.20	-22.84
30875.00	Peak	H	-	-	-56.41	6.73	-9.54	47.78	68.20	-20.42

Table 7-71. Radiated Measurements MIMO (242 Tones) – LPI/SP

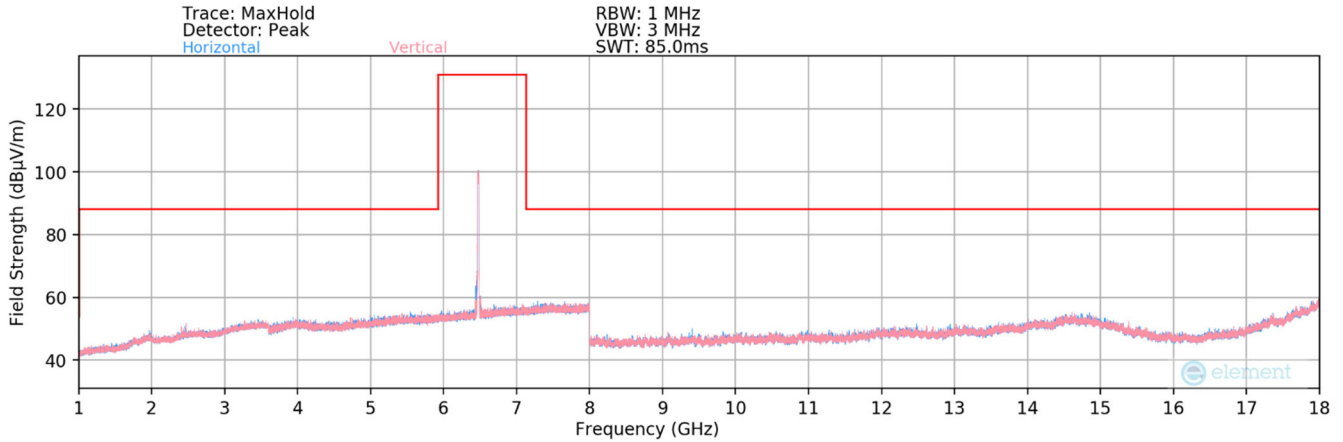
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6415MHz
 Channel: 93

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]
12830.00	Peak	H	-	-	-65.80	14.45	0.00	55.65	68.20	-12.55
* 19245.00	Average	H	-	-	-66.49	2.45	-9.54	33.42	53.98	-20.56
* 19245.00	Peak	H	-	-	-55.82	2.45	-9.54	44.09	73.98	-29.89
25660.00	Peak	H	-	-	-54.94	4.57	-9.54	47.09	68.20	-21.11
32075.00	Peak	H	-	-	-56.01	6.88	-9.54	48.32	68.20	-19.88

Table 7-72. Radiated Measurements MIMO (242 Tones) – LPI/SP

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-16.A3L	Test Dates: 9/03/2022 – 11/23/2022	EUT Type: Portable Handset	Page 387 of 399

MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 6



Plot 7-672. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 6 – 20MHz – Ch.105) – LPI

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6435MHz
 Channel: 97

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]
12870.00	Peak	H	-	-	-65.77	14.14	0.00	55.37	68.20	-12.83
* 19305.00	Average	H	-	-	-66.12	2.29	-9.54	33.63	53.98	-20.35
* 19305.00	Peak	H	-	-	-55.51	2.29	-9.54	44.24	73.98	-29.74
25740.00	Peak	H	-	-	-55.62	4.49	-9.54	46.32	68.20	-21.88
32175.00	Peak	H	-	-	-55.50	7.04	-9.54	49.00	68.20	-19.20

Table 7-73. Radiated Measurements MIMO (242 Tones) – LPI

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6475MHz
 Channel: 105

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]
12950.00	Peak	H	-	-	-65.50	14.37	0.00	55.87	68.20	-12.33
* 19425.00	Average	H	-	-	-66.10	2.36	-9.54	33.72	53.98	-20.26
* 19425.00	Peak	H	-	-	-56.15	2.36	-9.54	43.67	73.98	-30.31
25900.00	Peak	H	-	-	-55.29	4.84	-9.54	47.00	68.20	-21.20
32375.00	Peak	H	-	-	-56.02	6.78	-9.54	48.22	68.20	-19.98

Table 7-74. Radiated Measurements MIMO (242 Tones) – LPI

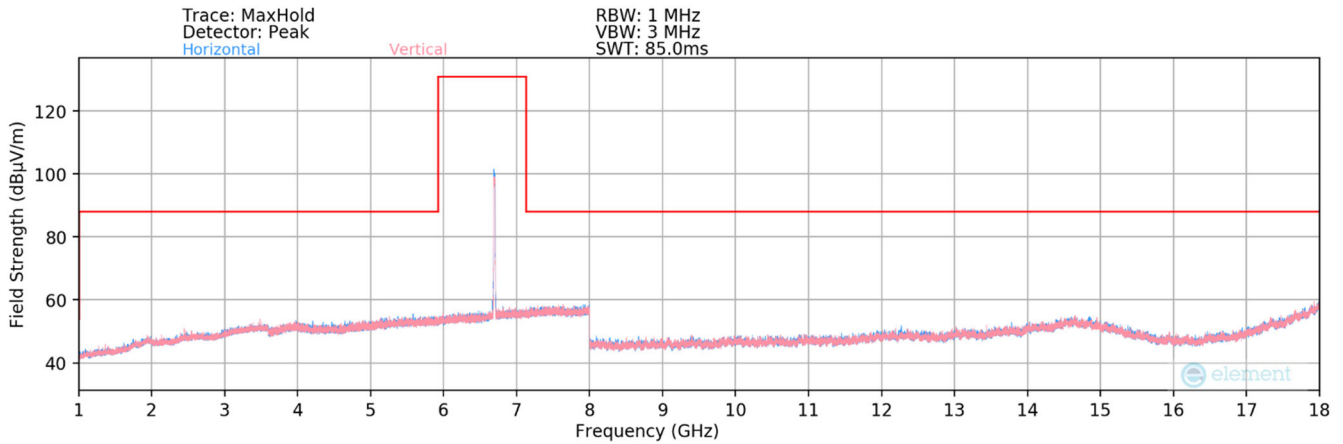
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6515MHz
 Channel: 113

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]
13030.00	Peak	H	-	-	-76.55	14.39	0.00	44.84	68.20	-23.36
* 19545.00	Average	H	-	-	-66.05	2.31	-9.54	33.72	53.98	-20.26
* 19545.00	Peak	H	-	-	-55.58	2.31	-9.54	44.19	73.98	-29.79
26060.00	Peak	H	-	-	-56.25	4.92	-9.54	46.13	68.20	-22.07
32575.00	Peak	H	-	-	-55.46	6.55	-9.54	48.55	68.20	-19.65

Table 7-75. Radiated Measurements MIMO (242 Tones) – LPI

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-16.A3L	Test Dates: 9/03/2022 – 11/23/2022	EUT Type: Portable Handset	Page 389 of 399

MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 7



Plot 7-673. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 7 – 20MHz – Ch.149) – LPI/SP

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6535MHz
 Channel: 117

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]
13070.00	Peak	H	-	-	-66.01	14.13	0.00	55.12	68.20	-13.08
* 19605.00	Average	H	-	-	-66.17	2.79	-9.54	34.08	53.98	-19.90
* 19605.00	Peak	H	-	-	-54.92	2.79	-9.54	45.33	73.98	-28.65
26140.00	Peak	H	-	-	-55.61	4.83	-9.54	46.68	68.20	-21.52
32675.00	Peak	H	-	-	-55.89	6.85	-9.54	48.42	68.20	-19.78

Table 7-76. Radiated Measurements MIMO (242 Tones) – LPI/SP

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-16.A3L	Test Dates: 9/03/2022 – 11/23/2022	EUT Type: Portable Handset	Page 390 of 399



Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6695MHz
 Channel: 149

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]
* 13390.00	Average	H	-	-	-76.76	13.84	0.00	44.08	53.98	-9.89
* 13390.00	Peak	H	-	-	-66.60	13.84	0.00	54.24	73.98	-19.73
* 20085.00	Average	H	-	-	-65.83	3.04	-9.54	34.67	53.98	-19.31
* 20085.00	Peak	H	-	-	-55.54	3.04	-9.54	44.96	73.98	-29.02
26780.00	Peak	H	-	-	-56.02	5.16	-9.54	46.60	68.20	-21.60
33475.00	Peak	H	-	-	-54.92	7.26	-9.54	49.80	68.20	-18.40

Table 7-77. Radiated Measurements MIMO (242 Tones) – LPI/SP

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6875MHz
 Channel: 185

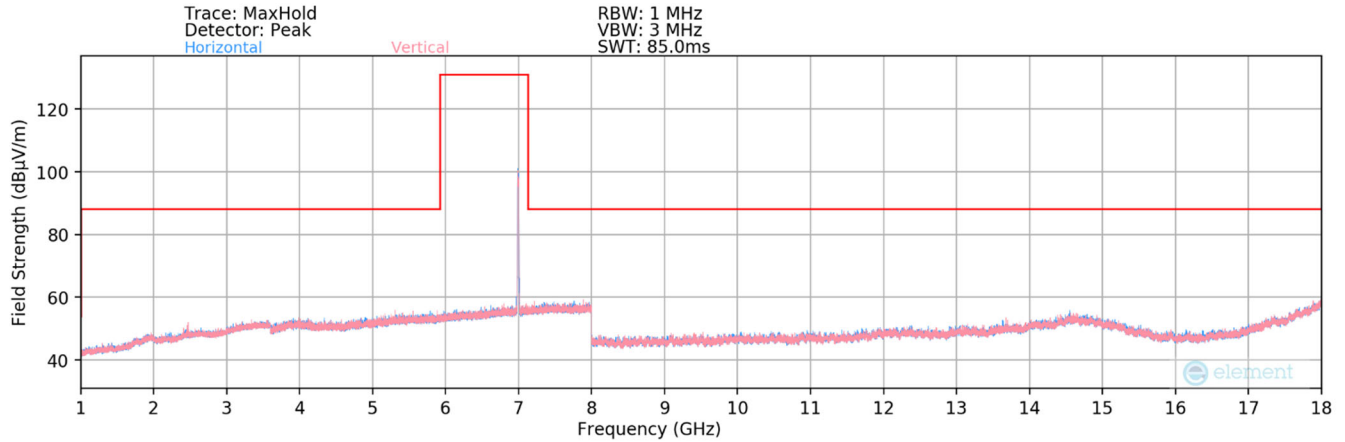
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
13750.00	Peak	H	-	-	-76.94	14.30	0.00	44.36	68.20	-23.84
* 20625.00	Average	H	-	-	-66.93	3.28	-9.54	33.81	53.98	-20.17
* 20625.00	Peak	H	-	-	-56.01	3.28	-9.54	44.73	73.98	-29.25
27500.00	Peak	H	-	-	-55.18	4.79	-9.54	47.06	68.20	-21.14
34375.00	Peak	H	-	-	-55.87	7.69	-9.54	49.28	68.20	-18.92

Table 7-78. Radiated Measurements MIMO (242 Tones) – LPI/SP

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 8



Plot 7-674. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 8 – 20MHz – Ch.209) – LPI

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6895MHz
 Channel: 189

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]
13790.00	Peak	H	-	-	-66.07	14.46	0.00	55.39	68.20	-12.81
* 20685.00	Average	H	-	-	-66.52	3.27	-9.54	34.21	53.98	-19.77
* 20685.00	Peak	H	-	-	-55.91	3.27	-9.54	44.82	73.98	-29.16
27580.00	Peak	H	-	-	-55.38	5.23	-9.54	47.31	68.20	-20.89
34475.00	Peak	H	-	-	-55.45	7.64	-9.54	49.64	68.20	-18.56

Table 7-79. Radiated Measurements MIMO (242 Tones) – LPI

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-16.A3L	Test Dates: 9/03/2022 – 11/23/2022	EUT Type: Portable Handset	Page 392 of 399

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6995MHz
 Channel: 209

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]
13990.00	Peak	H	-	-	-65.15	14.06	0.00	55.91	68.20	-12.29
* 20985.00	Average	H	-	-	-66.66	3.46	-9.54	34.26	53.98	-19.72
* 20985.00	Peak	H	-	-	-56.65	3.46	-9.54	44.27	73.98	-29.71
27980.00	Peak	H	-	-	-55.06	5.02	-9.54	47.41	68.20	-20.79
34975.00	Peak	H	-	-	-53.92	7.91	-9.54	51.44	68.20	-16.76

Table 7-80. Radiated Measurements MIMO (242 Tones) – LPI

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233

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]
14230.00	Peak	H	-	-	-66.43	14.64	0.00	55.21	68.20	-12.99
* 21345.00	Average	H	-	-	-66.52	3.78	-9.54	34.72	53.98	-19.26
* 21345.00	Peak	H	-	-	-56.06	3.78	-9.54	45.18	73.98	-28.80
28460.00	Peak	H	-	-	-55.79	5.45	-9.54	47.12	68.20	-21.08
35575.00	Peak	H	-	-	-53.73	7.65	-9.54	51.38	68.20	-16.82

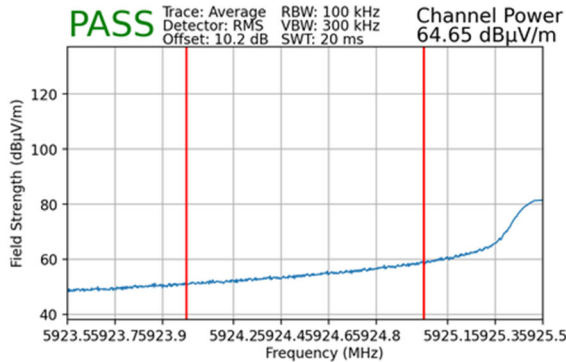
Table 7-81. Radiated Measurements MIMO (242 Tones) – LPI

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-16.A3L	Test Dates: 9/03/2022 – 11/23/2022	EUT Type: Portable Handset	Page 393 of 399

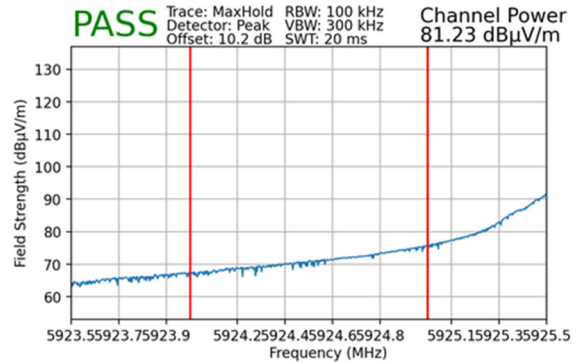
7.7.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)

§15.407(b.6) §15.205 §15.209

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

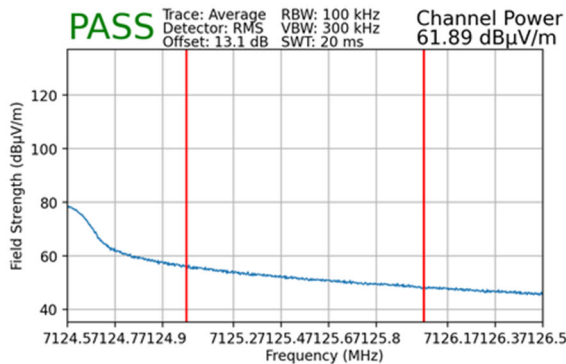


Plot 7-675. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5) SP

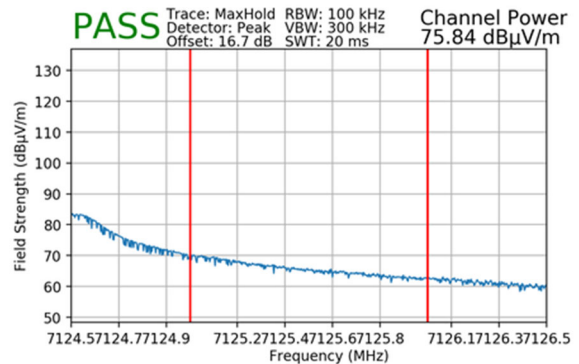


Plot 7-676. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5) SP

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-677. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8) LPI



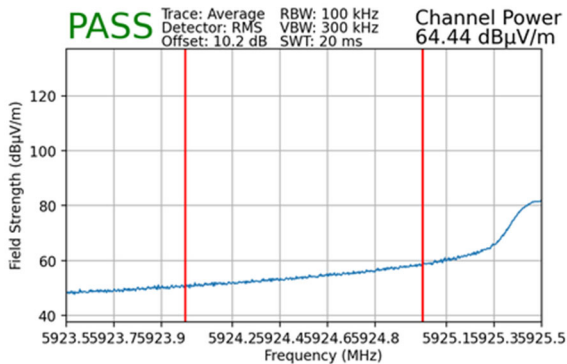
Plot 7-678. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8) LPI

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-16.A3L	Test Dates: 9/03/2022 – 11/23/2022	EUT Type: Portable Handset	Page 394 of 399

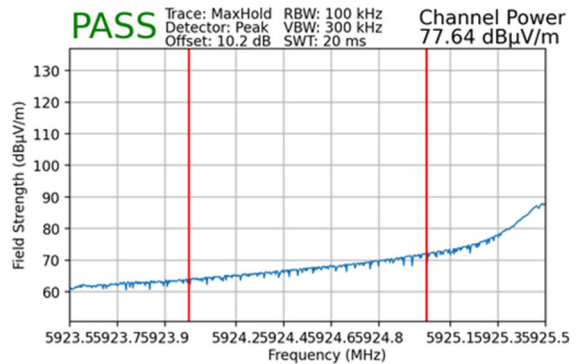
7.7.4 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)

§15.407(b.6) §15.205 §15.209

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

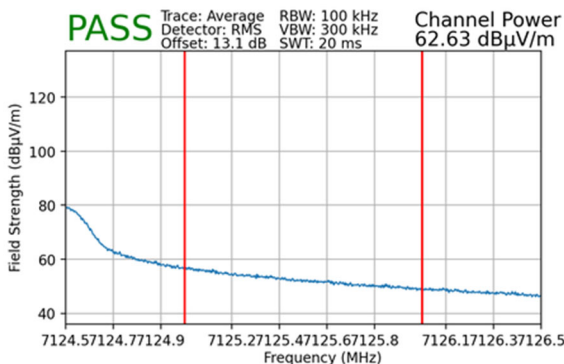


Plot 7-679. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5) SP

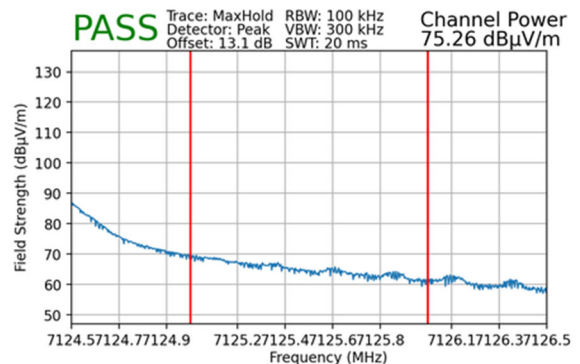


Plot 7-680. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5) SP

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-681. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8) LPI



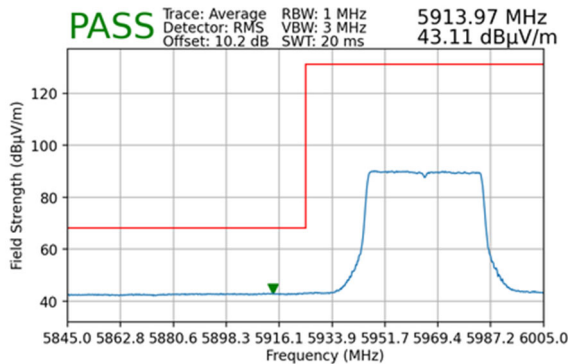
Plot 7-682. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8) LPI

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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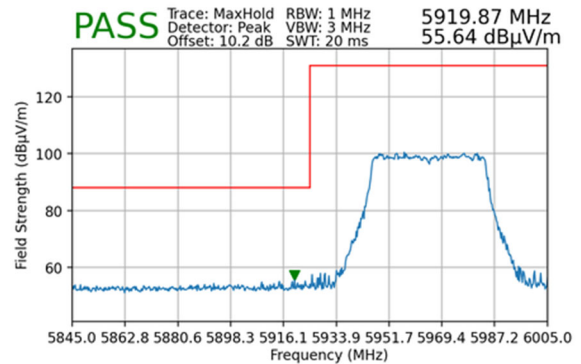
7.7.5 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)

§15.407(b.5) §15.205 §15.209

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

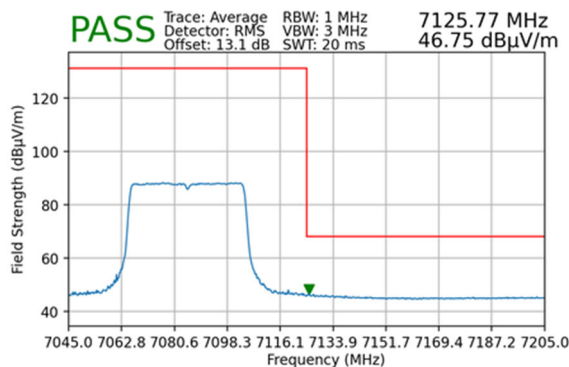


Plot 7-683. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5) LPI/SP

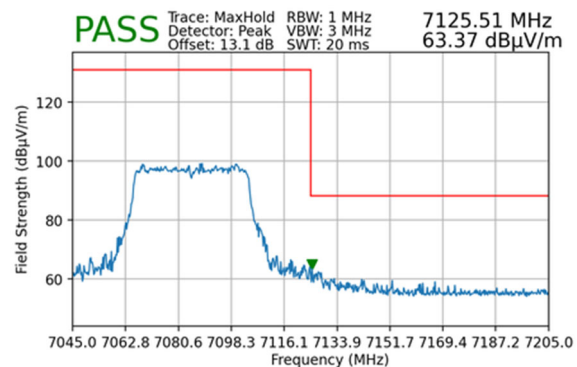


Plot 7-684. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5) LPI/SP

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



Plot 7-685. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8) LPI



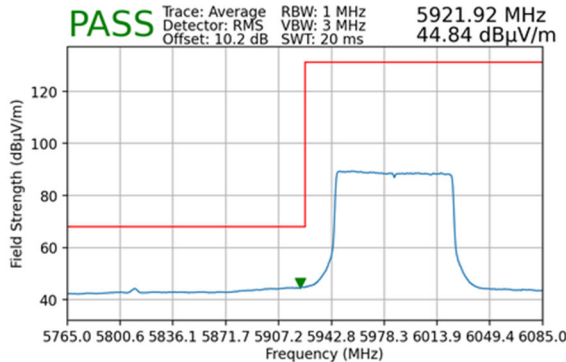
Plot 7-686. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8) LPI

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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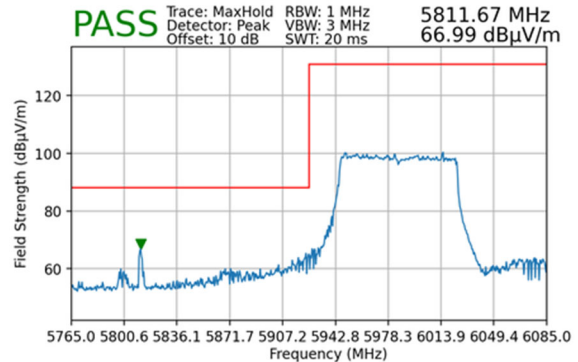
7.7.6 MIMO Radiated Band Edge Measurements (80MHz BW Full Tone – 996T)

§15.407(b.5) §15.205 §15.209

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

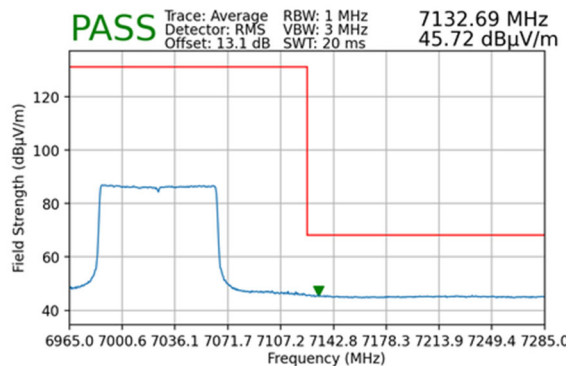


Plot 7-687. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5) LPI/SP

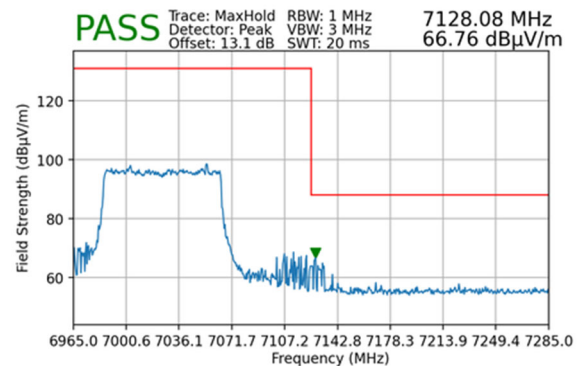


Plot 7-688. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5) LPI/SP

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-689. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8) LPI



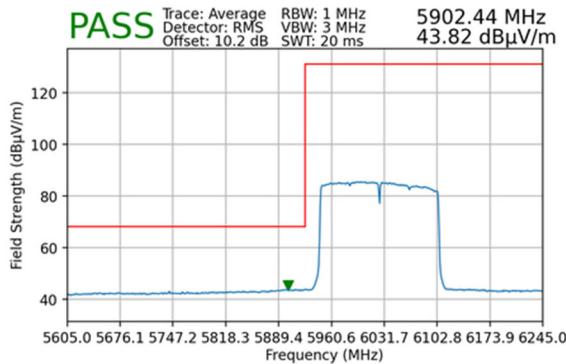
Plot 7-690. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8) LPI

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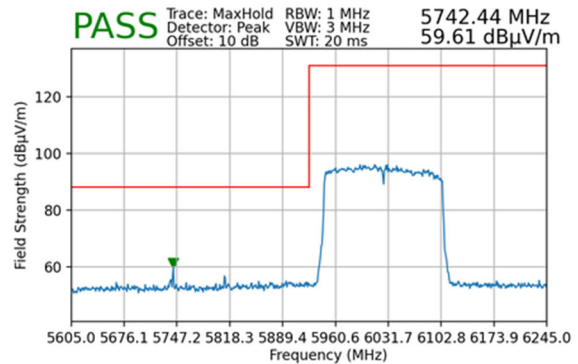
7.7.7 MIMO Radiated Band Edge Measurements (160MHz BW Full Tone - 2x996T)

§15.407(b.5) §15.205 §15.209

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

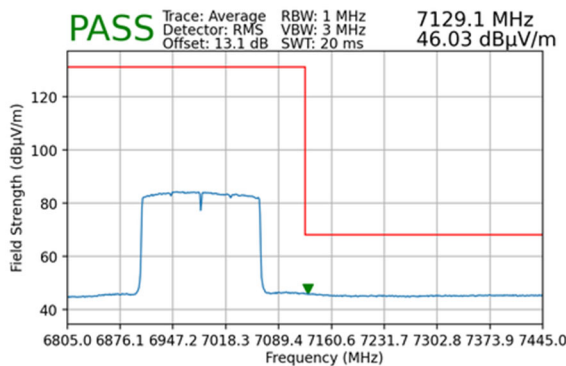


Plot 7-691. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5) LPI/SP

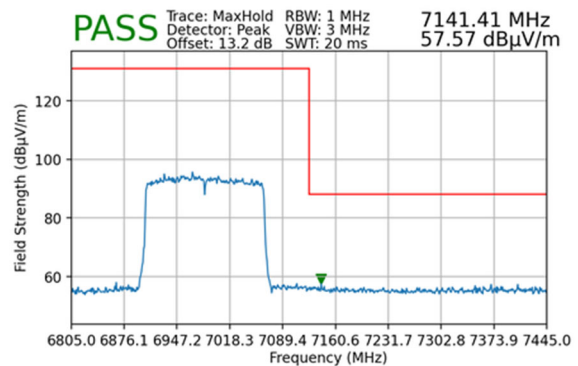


Plot 7-692. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5) LPI/SP

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-693. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8) LPI



Plot 7-694. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8) LPI

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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: A3LSMS911U** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules for operation as a client device.

FCC ID: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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