

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10520.00	Peak	H	-	-	-72.46	19.25	0.00	53.79	68.20	-14.41
* 15780.00	Average	H	-	-	-85.01	27.22	0.00	49.21	53.98	-4.77
* 15780.00	Peak	H	-	-	-73.45	27.22	0.00	60.77	73.98	-13.21
* 21040.00	Average	H	-	-	-81.09	17.32	-9.54	33.69	53.98	-20.29
* 21040.00	Peak	H	-	-	-70.06	17.32	-9.54	44.72	73.98	-29.26
26300.00	Peak	H	-	-	-68.27	20.12	-9.54	49.31	68.20	-18.89

Table 7-122. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

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]
10560.00	Peak	H	-	-	-71.72	19.37	0.00	54.65	68.20	-13.55
* 15840.00	Average	H	-	-	-84.94	27.28	0.00	49.34	53.98	-4.64
* 15840.00	Peak	H	-	-	-73.24	27.28	0.00	61.04	73.98	-12.94
* 21120.00	Average	H	-	-	-81.02	17.26	-9.54	33.70	53.98	-20.28
* 21120.00	Peak	H	-	-	-69.87	17.26	-9.54	44.85	73.98	-29.13
26400.00	Peak	H	-	-	-67.77	19.67	-9.54	49.36	68.20	-18.84

Table 7-123. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 404 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	H	-	-	-83.37	20.07	0.00	43.70	53.98	-10.28
* 10640.00	Peak	H	-	-	-72.26	20.07	0.00	54.81	73.98	-19.17
* 15960.00	Average	H	-	-	-85.00	27.42	0.00	49.42	53.98	-4.56
* 15960.00	Peak	H	-	-	-73.95	27.42	0.00	60.47	73.98	-13.51
* 21280.00	Average	H	-	-	-81.21	17.51	-9.54	33.76	53.98	-20.22
* 21280.00	Peak	H	-	-	-69.50	17.51	-9.54	45.47	73.98	-28.51
26600.00	Peak	H	-	-	-49.95	1.44	-9.54	48.95	68.20	-19.25

Table 7-124. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
* 10640.00	Average	H	-	-	-83.67	20.07	0.00	43.40	53.98	-10.58
* 10640.00	Peak	H	-	-	-72.38	20.07	0.00	54.69	73.98	-19.29
* 15960.00	Average	H	-	-	-84.97	27.42	0.00	49.45	53.98	-4.53
* 15960.00	Peak	H	-	-	-74.30	27.42	0.00	60.12	73.98	-13.86
* 21280.00	Average	H	-	-	-81.67	17.51	-9.54	33.30	53.98	-20.68
* 21280.00	Peak	H	-	-	-70.38	17.51	-9.54	44.59	73.98	-29.39

Table 7-125. Radiated Measurements SISO ANT1 (106 Tones)with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 405 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	H	-	-	-84.02	20.71	0.00	43.69	53.98	-10.29
* 11000.00	Peak	H	-	-	-73.84	20.71	0.00	53.87	73.98	-20.11
16500.00	Peak	H	-	-	-73.17	28.80	0.00	62.63	68.20	-5.57
22000.00	Peak	H	-	-	-68.94	18.25	-9.54	46.77	68.20	-21.43
27500.00	Peak	H	-	-	-49.94	0.12	-9.54	47.64	68.20	-20.56

Table 7-126. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-83.53	20.02	0.00	43.49	53.98	-10.49
* 11200.00	Peak	H	-	-	-72.63	20.02	0.00	54.39	73.98	-19.59
16800.00	Peak	H	-	-	-73.89	28.89	0.00	62.00	68.20	-6.20
* 22400.00	Average	H	-	-	-80.90	19.00	-9.54	35.56	53.98	-18.42
* 22400.00	Peak	H	-	-	-69.45	19.00	-9.54	47.01	73.98	-26.97
28000.00	Peak	H	-	-	-49.97	0.74	-9.54	48.22	68.20	-19.98

Table 7-127. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 406 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

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]
* 11440.00	Average	H	-	-	-84.21	20.76	0.00	43.55	53.98	-10.43
* 11440.00	Peak	H	-	-	-72.73	20.76	0.00	55.03	73.98	-18.95
17160.00	Peak	H	-	-	-73.88	29.65	0.00	62.77	68.20	-5.43
* 22880.00	Average	H	-	-	-81.21	18.40	-9.54	34.65	53.98	-19.33
* 22880.00	Peak	H	-	-	-70.09	18.40	-9.54	45.77	73.98	-28.21
28600.00	Peak	H	-	-	-50.05	0.41	-9.54	47.82	68.20	-20.38

Table 7-128. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-82.67	20.02	0.00	44.35	53.98	-9.63
* 11200.00	Peak	H	-	-	-73.28	20.02	0.00	53.74	73.98	-20.24
16800.00	Peak	H	-	-	-76.00	28.89	0.00	59.89	68.20	-8.31
* 22400.00	Average	H	-	-	-80.67	19.00	-9.54	35.79	53.98	-18.19
* 22400.00	Peak	H	-	-	-68.81	19.00	-9.54	47.65	73.98	-26.33
28000.00	Peak	H	-	-	-49.77	0.74	-9.54	48.42	68.20	-19.78

Table 7-129. Radiated Measurements SISO ANT1 (106 Tones)with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 407 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 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]
* 11490.00	Average	H	-	-	-83.83	20.29	0.00	43.46	53.98	-10.52
* 11490.00	Peak	H	-	-	-73.02	20.29	0.00	54.27	73.98	-19.71
17235.00	Peak	H	-	-	-72.97	29.45	0.00	63.48	68.20	-4.72
* 22980.00	Average	H	-	-	-81.42	17.92	-9.54	33.96	53.98	-20.02
* 22980.00	Peak	H	-	-	-70.10	17.92	-9.54	45.28	73.98	-28.70
28725.00	Peak	H	-	-	-50.14	0.67	-9.54	47.99	68.20	-20.21

Table 7-130. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	-	-	-83.67	20.87	0.00	44.20	53.98	-9.78
* 11570.00	Peak	H	-	-	-72.58	20.87	0.00	55.29	73.98	-18.69
17355.00	Peak	H	-	-	-73.40	29.88	0.00	63.48	68.20	-4.72
23140.00	Peak	H	-	-	-69.81	18.32	-9.54	45.97	68.20	-22.23
28925.00	Peak	H	-	-	-49.54	0.75	-9.54	48.67	68.20	-19.53

Table 7-131. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 408 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	H	-	-	-83.66	21.73	0.00	45.07	53.98	-8.91
* 11650.00	Peak	H	-	-	-71.78	21.73	0.00	56.95	73.98	-17.03
17475.00	Peak	H	-	-	-73.21	30.16	0.00	63.95	68.20	-4.25
23300.00	Peak	H	-	-	-70.08	18.77	-9.54	46.15	68.20	-22.05
29125.00	Peak	H	-	-	-49.82	-0.12	-9.54	47.52	68.20	-20.68

Table 7-132. Radiated Measurements SISO ANT1 (106 Tones)

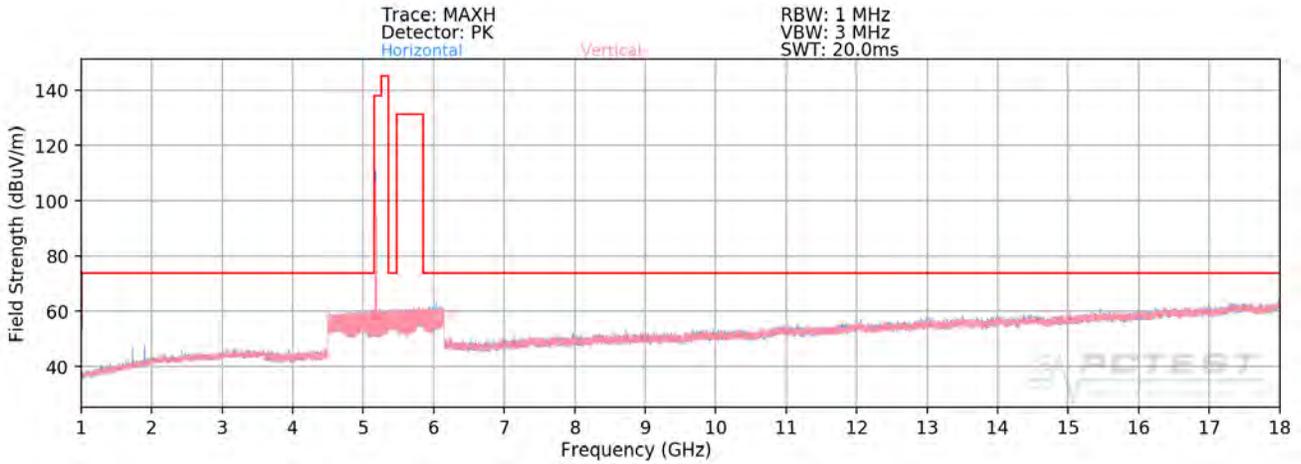
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	-	-	-84.28	20.87	0.00	43.59	53.98	-10.39
* 11570.00	Peak	H	-	-	-73.37	20.87	0.00	54.50	73.98	-19.48
17355.00	Peak	H	-	-	-74.08	29.88	0.00	62.80	68.20	-5.40
23140.00	Peak	H	-	-	-70.01	18.32	-9.54	45.77	68.20	-22.43
28925.00	Peak	H	-	-	-49.68	0.75	-9.54	48.53	68.20	-19.67

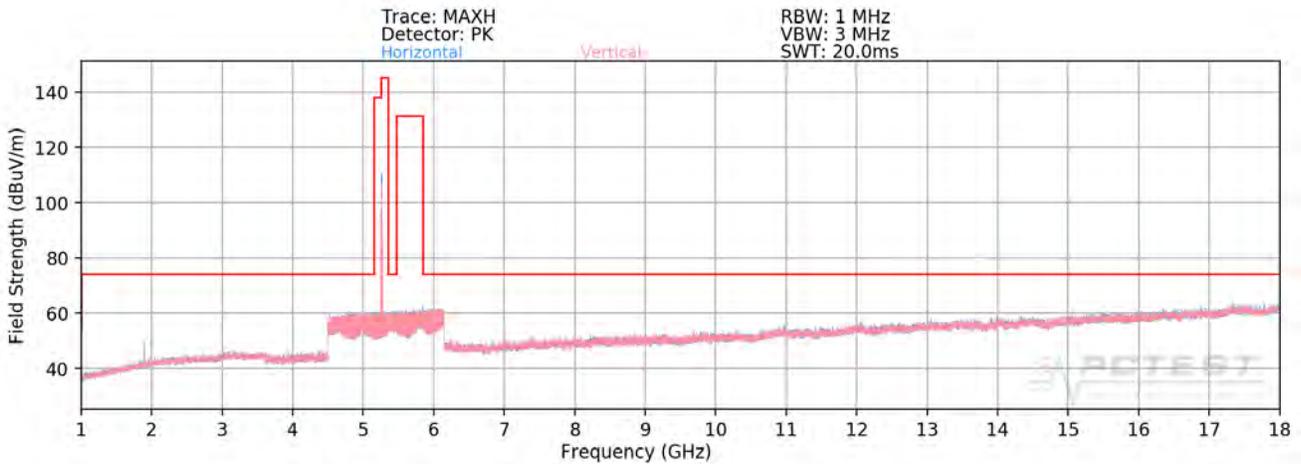
Table 7-133. Radiated Measurements SISO ANT1 (106 Tones)with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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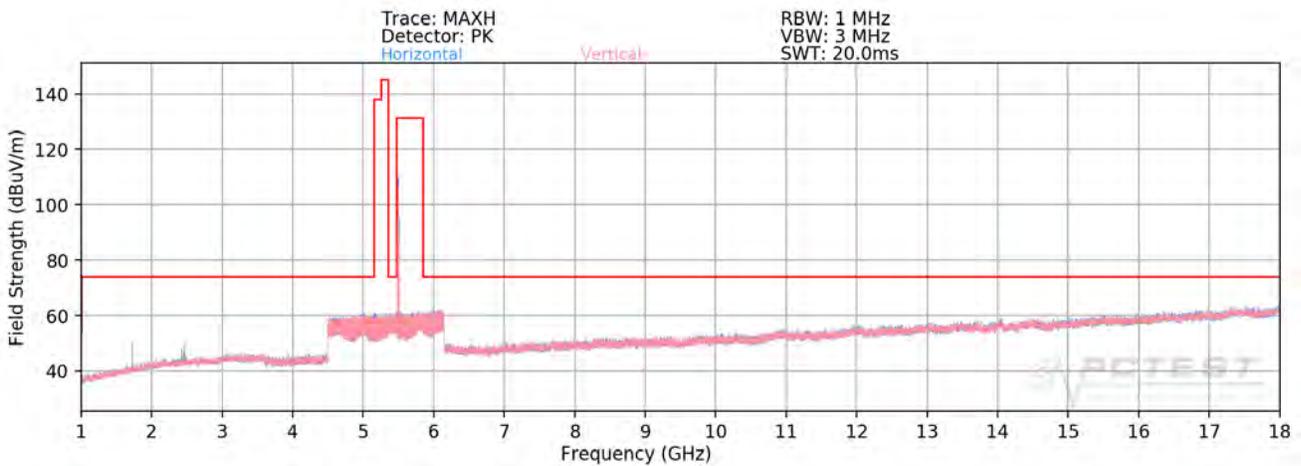
242 Tones



Plot 7-631. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones)

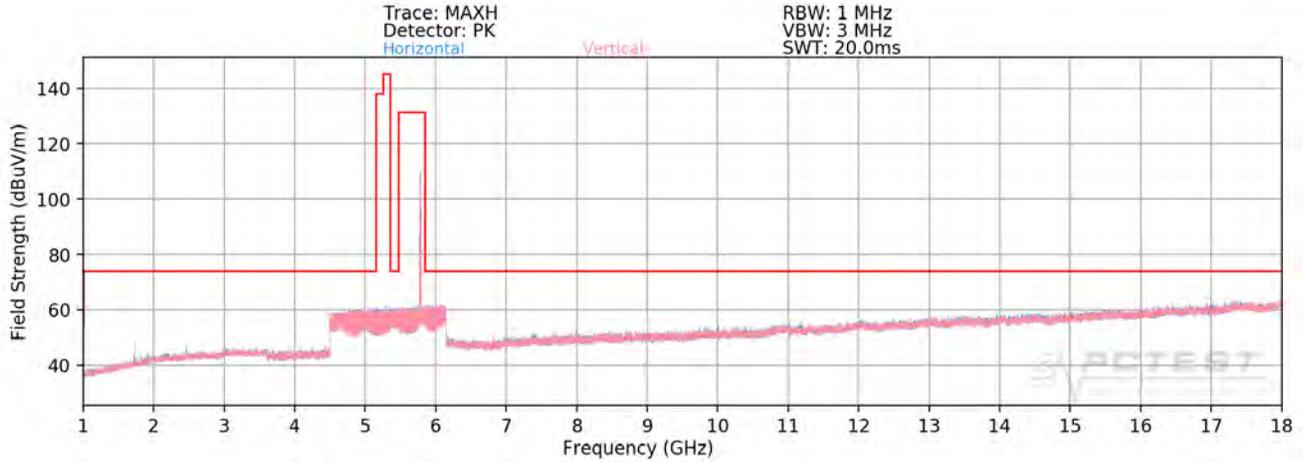


Plot 7-632. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)



Plot 7-633. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)

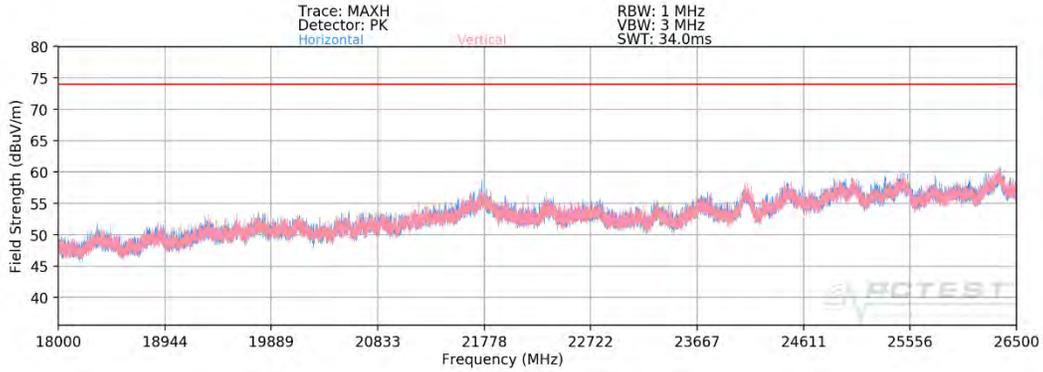
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 410 of 516



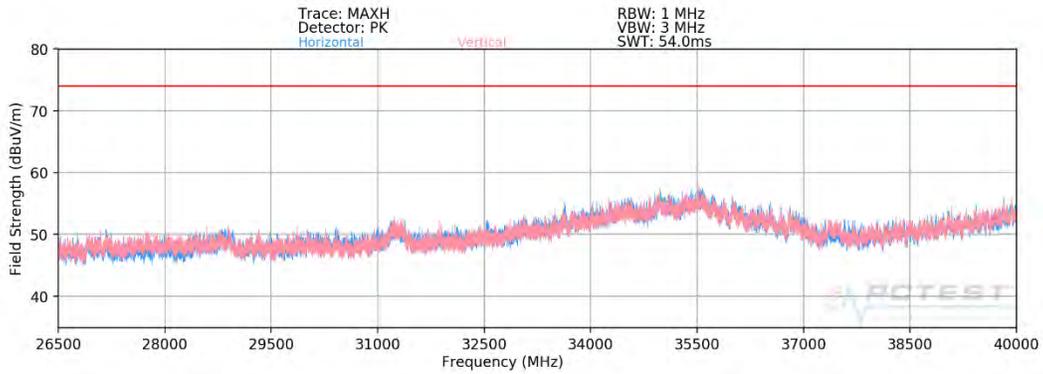
Plot 7-634. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 411 of 516	

SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-635. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 242 Tones)



Plot 7-636. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 412 of 516	

SISO Antenna-1 Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	H	-	-	-72.07	18.99	0.00	53.92	68.20	-14.28
* 15540.00	Average	H	-	-	-85.14	27.73	0.00	49.59	53.98	-4.39
* 15540.00	Peak	H	-	-	-74.43	27.73	0.00	60.30	73.98	-13.68
* 20720.00	Average	H	-	-	-81.41	16.92	-9.54	32.97	53.98	-21.01
* 20720.00	Peak	H	-	-	-70.13	16.92	-9.54	44.25	73.98	-29.73
25900.00	Peak	H	-	-	-68.04	19.39	-9.54	48.81	68.20	-19.39

Table 7-134. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	H	-	-	-72.42	19.36	0.00	53.94	68.20	-14.26
* 15600.00	Average	H	-	-	-85.46	27.61	0.00	49.15	53.98	-4.83
* 15600.00	Peak	H	-	-	-74.08	27.61	0.00	60.53	73.98	-13.45
* 20800.00	Average	H	-	-	-81.28	17.39	-9.54	33.56	53.98	-20.41
* 20800.00	Peak	H	-	-	-69.98	17.39	-9.54	44.86	73.98	-29.11
26000.00	Peak	H	-	-	-67.99	19.98	-9.54	49.44	68.20	-18.76

Table 7-135. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 413 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

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]
10480.00	Peak	H	-	-	-72.45	19.72	0.00	54.27	68.20	-13.93
* 15720.00	Average	H	-	-	-86.01	27.41	0.00	48.40	53.98	-5.58
* 15720.00	Peak	H	-	-	-73.38	27.41	0.00	61.03	73.98	-12.95
* 20960.00	Average	H	-	-	-81.42	17.29	-9.54	33.33	53.98	-20.65
* 20960.00	Peak	H	-	-	-70.28	17.29	-9.54	44.47	73.98	-29.51
26200.00	Peak	H	-	-	-68.12	19.80	-9.54	49.14	68.20	-19.06

Table 7-136. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	H	-	-	-73.18	18.99	0.00	52.81	68.20	-15.39
* 15540.00	Average	H	-	-	-84.39	27.73	0.00	50.34	53.98	-3.64
* 15540.00	Peak	H	-	-	-75.07	27.73	0.00	59.66	73.98	-14.32
* 20720.00	Average	H	-	-	-81.32	17.39	-9.54	33.52	53.98	-20.45
* 20720.00	Peak	H	-	-	-70.57	17.39	-9.54	44.27	73.98	-29.70
25900.00	Peak	H	-	-	-67.75	19.98	-9.54	49.68	68.20	-18.52

Table 7-137. Radiated Measurements SISO ANT1 with WCP (242 Tones)

FCC ID: A3LSMG975U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 414 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10520.00	Peak	H	-	-	-72.45	19.44	0.00	53.99	68.20	-14.21
* 15780.00	Average	H	-	-	-85.54	27.10	0.00	48.56	53.98	-5.42
* 15780.00	Peak	H	-	-	-74.44	27.10	0.00	59.66	73.98	-14.32
* 21040.00	Average	H	-	-	-81.27	17.32	-9.54	33.51	53.98	-20.47
* 21040.00	Peak	H	-	-	-69.87	17.32	-9.54	44.91	73.98	-29.07
26300.00	Peak	H	-	-	-68.97	20.12	-9.54	48.61	68.20	-19.59

Table 7-138. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

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]
10560.00	Peak	H	-	-	-72.88	19.62	0.00	53.74	68.20	-14.46
* 15840.00	Average	H	-	-	-85.52	27.05	0.00	48.53	53.98	-5.45
* 15840.00	Peak	H	-	-	-73.84	27.05	0.00	60.21	73.98	-13.77
* 21120.00	Average	H	-	-	-80.98	17.26	-9.54	33.74	53.98	-20.24
* 21120.00	Peak	H	-	-	-69.17	17.26	-9.54	45.55	73.98	-28.43
26400.00	Peak	H	-	-	-68.08	19.67	-9.54	49.05	68.20	-19.15

Table 7-139. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 415 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	H	-	-	-83.65	19.97	0.00	43.32	53.98	-10.66
* 10640.00	Peak	H	-	-	-72.33	19.97	0.00	54.64	73.98	-19.34
* 15960.00	Average	H	-	-	-85.57	27.35	0.00	48.78	53.98	-5.20
* 15960.00	Peak	H	-	-	-73.49	27.35	0.00	60.86	73.98	-13.12
* 21280.00	Average	H	-	-	-80.68	17.51	-9.54	34.29	53.98	-19.69
* 21280.00	Peak	H	-	-	-69.48	17.51	-9.54	45.49	73.98	-28.49
26600.00	Peak	H	-	-	-49.82	1.44	-9.54	49.08	68.20	-19.12

Table 7-140. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	H	-	-	-84.31	19.97	0.00	42.66	53.98	-11.32
* 10640.00	Peak	H	-	-	-72.64	19.97	0.00	54.33	73.98	-19.65
* 15960.00	Average	H	-	-	-85.06	27.35	0.00	49.29	53.98	-4.69
* 15960.00	Peak	H	-	-	-74.07	27.35	0.00	60.28	73.98	-13.70
* 21280.00	Average	H	-	-	-82.75	17.51	-9.54	32.22	53.98	-21.76
* 21280.00	Peak	H	-	-	-70.24	17.51	-9.54	44.73	73.98	-29.25
26600.00	Peak	H	-	-	-80.34	1.44	-9.54	18.56	68.20	-49.64

Table 7-141. Radiated Measurements SISO ANT1 with WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 416 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	H	-	-	-84.71	20.31	0.00	42.60	53.98	-11.38
* 11000.00	Peak	H	-	-	-73.18	20.31	0.00	54.13	73.98	-19.85
16500.00	Peak	H	-	-	-72.83	28.49	0.00	62.66	68.20	-5.54
22000.00	Peak	H	-	-	-69.66	18.25	-9.54	46.05	68.20	-22.15
27500.00	Peak	H	-	-	-48.48	0.12	-9.54	49.10	68.20	-19.10

Table 7-142. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-84.38	19.97	0.00	42.59	53.98	-11.39
* 11200.00	Peak	H	-	-	-72.53	19.97	0.00	54.44	73.98	-19.54
16800.00	Peak	H	-	-	-73.53	28.82	0.00	62.29	68.20	-5.91
* 22400.00	Average	H	-	-	-81.49	19.00	-9.54	34.97	53.98	-19.01
* 22400.00	Peak	H	-	-	-70.16	19.00	-9.54	46.30	73.98	-27.68
28000.00	Peak	H	-	-	-49.62	0.74	-9.54	48.57	68.20	-19.63

Table 7-143. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 417 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

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]
* 11440.00	Average	H	-	-	-84.33	20.26	0.00	42.93	53.98	-11.05
* 11440.00	Peak	H	-	-	-72.66	20.26	0.00	54.60	73.98	-19.38
17160.00	Peak	H	-	-	-73.66	29.62	0.00	62.96	68.20	-5.24
* 22880.00	Average	H	-	-	-81.67	18.40	-9.54	34.19	53.98	-19.79
* 22880.00	Peak	H	-	-	-69.96	18.40	-9.54	45.90	73.98	-28.08
28600.00	Peak	H	-	-	-48.73	0.41	-9.54	49.14	68.20	-19.06

Table 7-144. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-83.61	19.97	0.00	43.36	53.98	-10.62
* 11200.00	Peak	H	-	-	-73.27	19.97	0.00	53.70	73.98	-20.28
16800.00	Peak	H	-	-	-74.36	28.82	0.00	61.46	68.20	-6.74
* 22400.00	Average	H	-	-	-80.47	19.00	-9.54	35.99	69.20	-33.21
* 22400.00	Peak	H	-	-	-69.97	19.00	-9.54	46.49	70.20	-23.71
28000.00	Peak	H	-	-	-49.14	0.74	-9.54	49.05	71.20	-22.15

Table 7-145. Radiated Measurements SISO ANT1 with WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 418 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 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]
* 11490.00	Average	H	-	-	-84.51	20.36	0.00	42.85	53.98	-11.13
* 11490.00	Peak	H	-	-	-72.43	20.36	0.00	54.93	73.98	-19.05
17235.00	Peak	H	-	-	-72.77	29.51	0.00	63.74	68.20	-4.46
* 22980.00	Average	H	-	-	-81.67	17.92	-9.54	33.71	53.98	-20.27
* 22980.00	Peak	H	-	-	-70.65	17.92	-9.54	44.73	73.98	-29.25
28725.00	Peak	H	-	-	-49.90	0.67	-9.54	48.23	68.20	-19.97

Table 7-146. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	-	-	-84.53	21.02	0.00	43.49	53.98	-10.49
* 11570.00	Peak	H	-	-	-73.37	21.02	0.00	54.65	73.98	-19.33
17355.00	Peak	H	-	-	-72.88	29.63	0.00	63.75	68.20	-4.45
23140.00	Peak	H	-	-	-69.54	18.32	-9.54	46.24	68.20	-21.96
28925.00	Peak	H	-	-	-49.33	0.75	-9.54	48.88	68.20	-19.32

Table 7-147. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 419 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	H	-	-	-84.63	21.21	0.00	43.58	53.98	-10.40
* 11650.00	Peak	H	-	-	-72.82	21.21	0.00	55.39	73.98	-18.59
17475.00	Peak	H	-	-	-74.34	29.76	0.00	62.42	68.20	-5.78
23300.00	Peak	H	-	-	-70.39	18.77	-9.54	45.84	68.20	-22.36
29125.00	Peak	H	-	-	-48.70	-0.12	-9.54	48.64	68.20	-19.56

Table 7-148. Radiated Measurements SISO ANT1 (242 Tones)

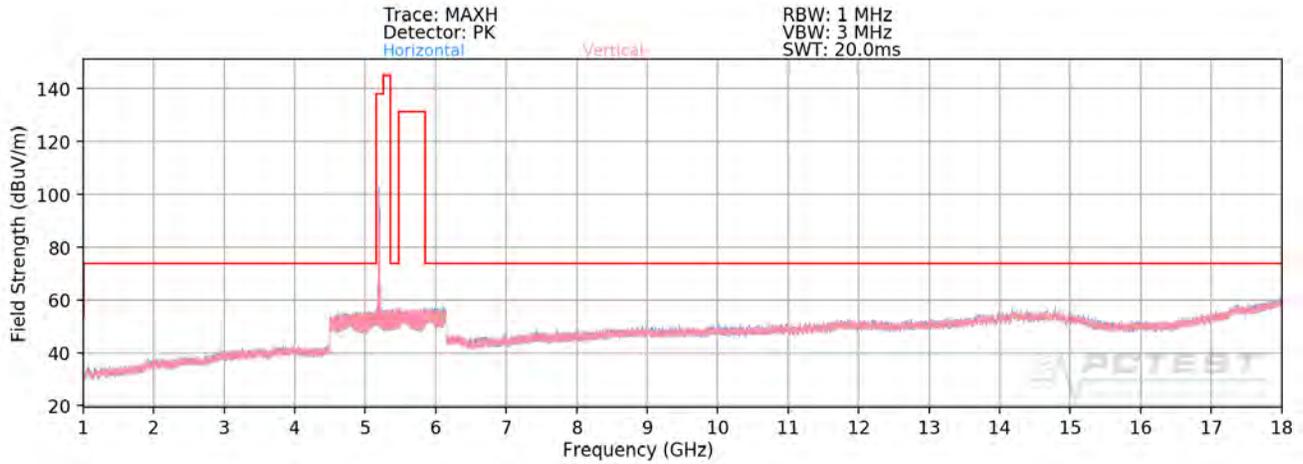
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	-	-	-84.61	21.02	0.00	43.41	68.20	-24.79
* 11570.00	Peak	H	-	-	-74.95	21.02	0.00	53.07	69.20	-16.13
17355.00	Peak	H	-	-	-73.08	29.63	0.00	63.55	70.20	-6.65
23140.00	Peak	H	-	-	-70.29	18.32	-9.54	45.49	71.20	-25.71
28925.00	Peak	H	-	-	-49.53	0.75	-9.54	48.68	72.20	-23.52

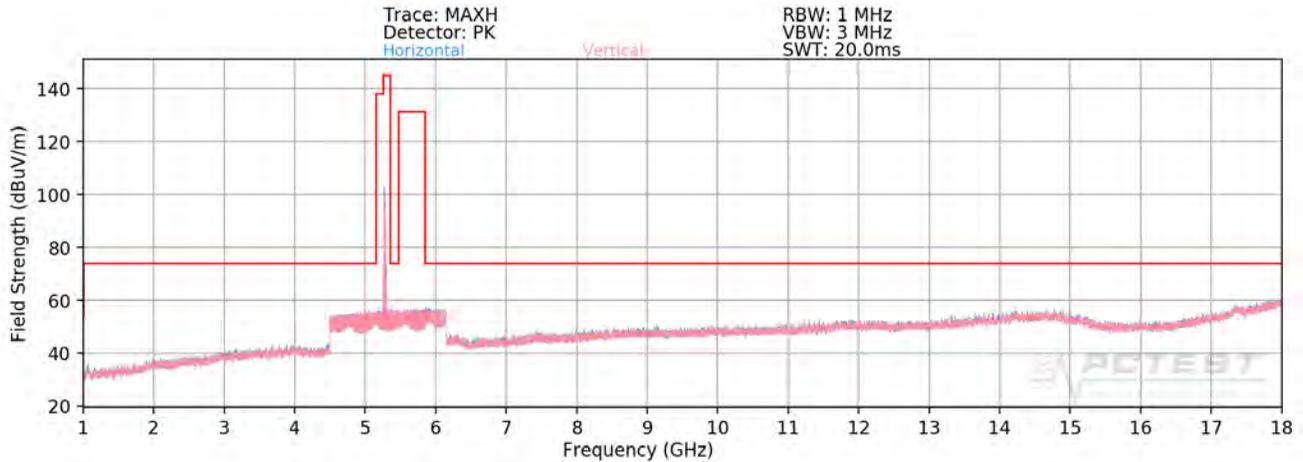
Table 7-149. Radiated Measurements SISO ANT1 with WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 420 of 516

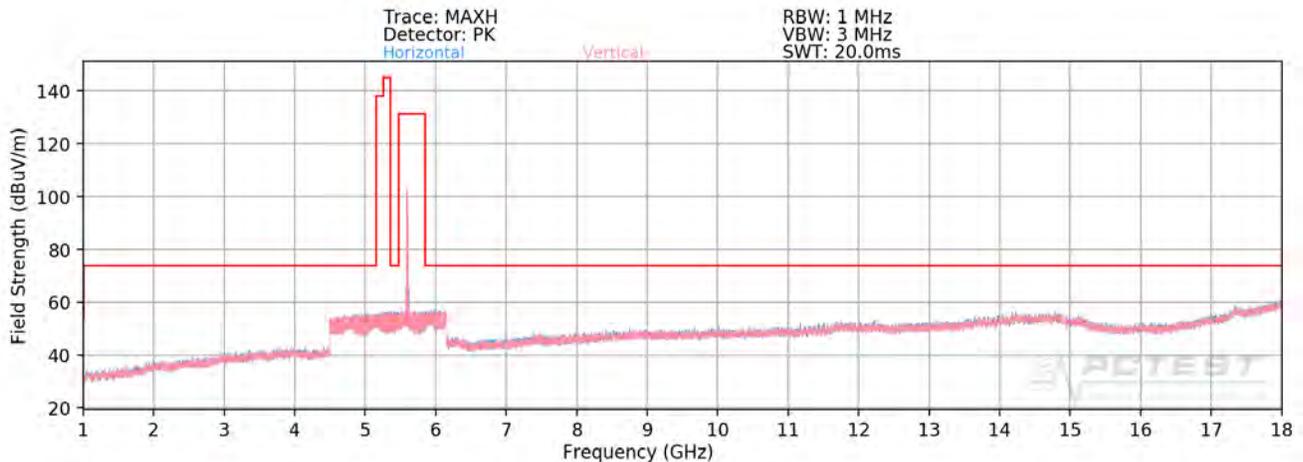
7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements (106 Tones)



Plot 7-637. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 106 Tones)

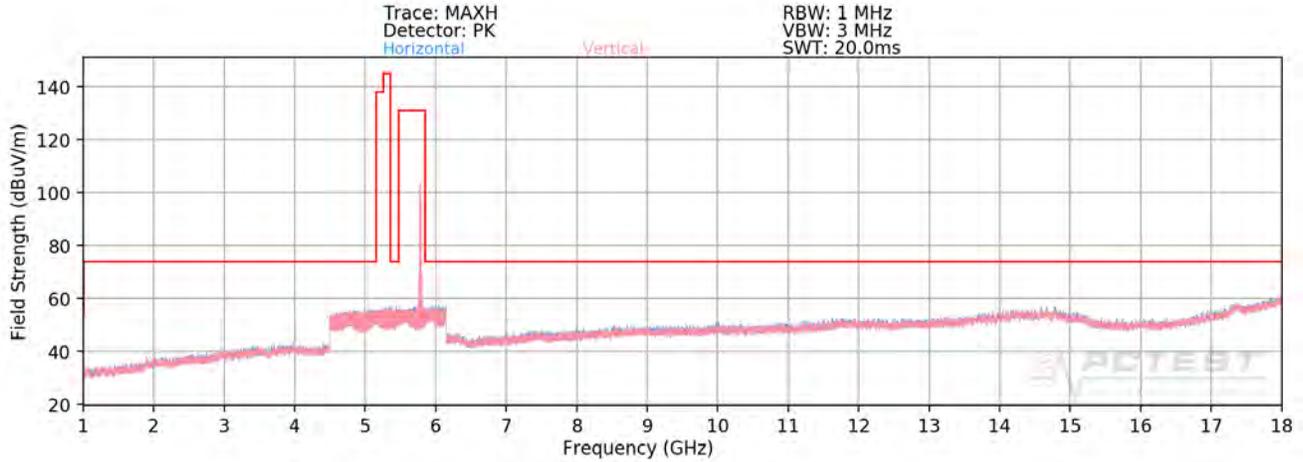


Plot 7-638. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 106 Tones)



Plot 7-639. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 106 Tones)

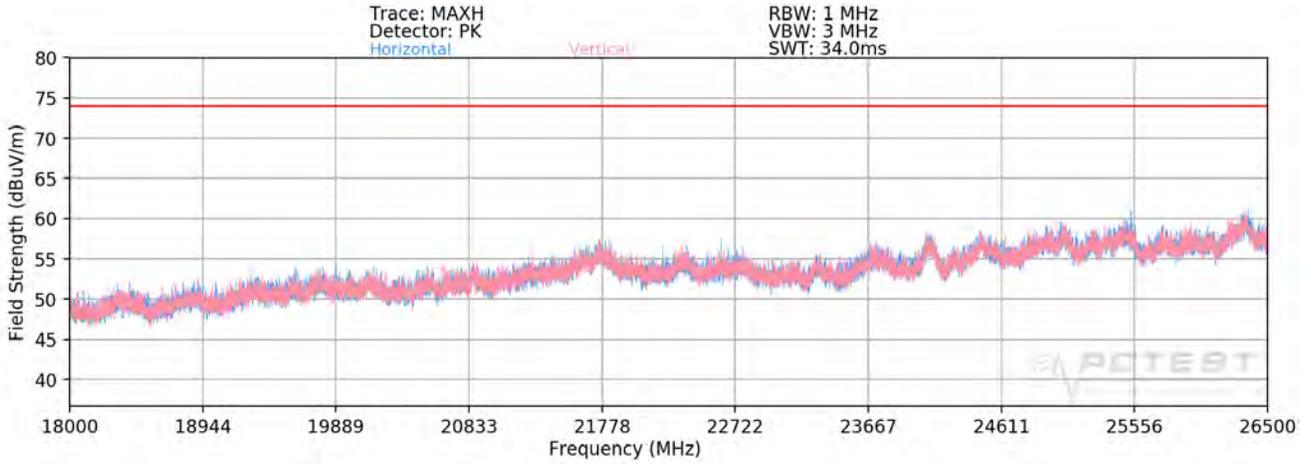
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 421 of 516



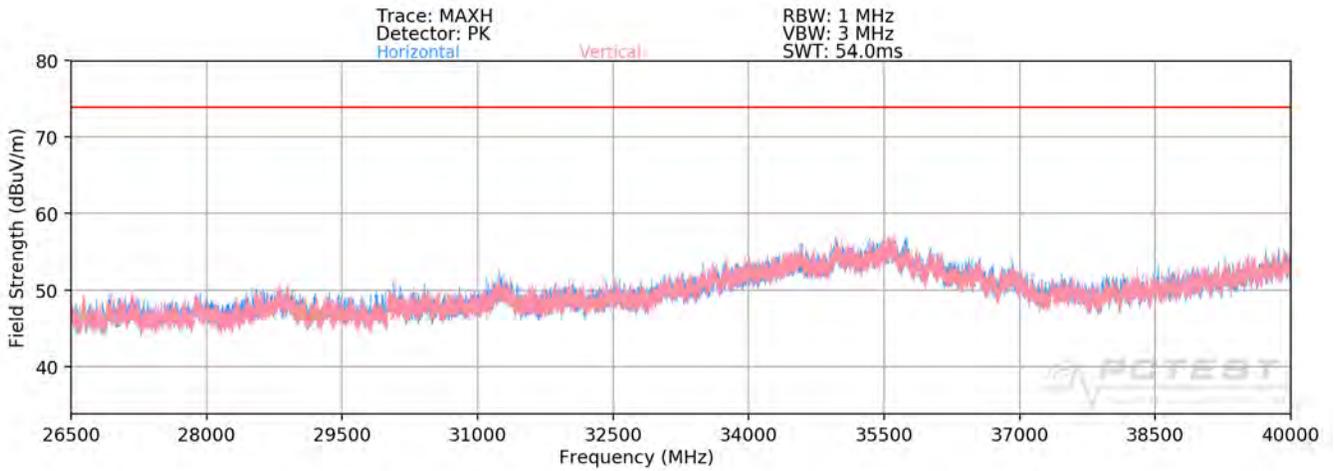
Plot 7-640. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 422 of 516	

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-641. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 106 Tones)



Plot 7-642. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 423 of 516	

SISO Antenna-2 Radiated Spurious Emission Measurements (106 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	H	-	-	-71.15	18.75	0.00	54.60	68.20	-13.60
* 15540.00	Average	H	-	-	-84.96	28.13	0.00	50.17	53.98	-3.81
* 15540.00	Peak	H	-	-	-73.51	28.13	0.00	61.62	73.98	-12.36
* 20720.00	Average	H	-	-	-81.51	16.92	-9.54	32.87	53.98	-21.11
* 20720.00	Peak	H	-	-	-70.23	16.92	-9.54	44.15	73.98	-29.83
25900.00	Peak	H	-	-	-68.50	19.39	-9.54	48.35	68.20	-19.85

Table 7-150. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	H	-	-	-71.92	19.45	0.00	54.53	68.20	-13.67
* 15600.00	Average	H	-	-	-84.94	27.65	0.00	49.71	53.98	-4.27
* 15600.00	Peak	H	-	-	-74.45	27.65	0.00	60.20	73.98	-13.78
* 20800.00	Average	H	-	-	-81.39	17.39	-9.54	33.45	53.98	-20.52
* 20800.00	Peak	H	-	-	-70.14	17.39	-9.54	44.70	73.98	-29.27
26000.00	Peak	H	-	-	-68.08	19.98	-9.54	49.35	68.20	-18.85

Table 7-151. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 424 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

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]
10480.00	Peak	H	-	-	-72.16	19.76	0.00	54.60	68.20	-13.60
* 15720.00	Average	H	-	-	-84.99	27.55	0.00	49.56	53.98	-4.42
* 15720.00	Peak	H	-	-	-74.58	27.55	0.00	59.97	73.98	-14.01
* 20960.00	Average	H	-	-	-81.24	17.29	-9.54	33.51	53.98	-20.47
* 20960.00	Peak	H	-	-	-70.48	17.29	-9.54	44.27	73.98	-29.71
26200.00	Peak	H	-	-	-68.41	19.80	-9.54	48.85	68.20	-19.35

Table 7-152. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	H	-	-	-72.05	19.45	0.00	54.40	68.20	-13.80
* 15600.00	Average	H	-	-	-83.97	27.65	0.00	50.68	53.98	-3.30
* 15600.00	Peak	H	-	-	-75.31	27.65	0.00	59.34	73.98	-14.64
* 20800.00	Average	H	-	-	-81.21	17.39	-9.54	33.63	53.98	-20.34
* 20800.00	Peak	H	-	-	-70.16	17.39	-9.54	44.68	73.98	-29.29
26000.00	Peak	H	-	-	-68.17	19.98	-9.54	49.26	68.20	-18.94

Table 7-153. Radiated Measurements SISO ANT2 (106 Tones)with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 425 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10520.00	Peak	H	-	-	-73.09	19.25	0.00	53.16	68.20	-15.04
* 15780.00	Average	H	-	-	-84.85	27.22	0.00	49.37	53.98	-4.61
* 15780.00	Peak	H	-	-	-73.68	27.22	0.00	60.54	73.98	-13.44
* 21040.00	Average	H	-	-	-81.09	17.32	-9.54	33.69	53.98	-20.29
* 21040.00	Peak	H	-	-	-70.06	17.32	-9.54	44.72	73.98	-29.26
26300.00	Peak	H	-	-	-68.27	20.12	-9.54	49.31	68.20	-18.89

Table 7-154. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

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]
10560.00	Peak	H	-	-	-71.67	19.37	0.00	54.70	68.20	-13.50
* 15840.00	Average	H	-	-	-84.88	27.28	0.00	49.40	53.98	-4.58
* 15840.00	Peak	H	-	-	-73.67	27.28	0.00	60.61	73.98	-13.37
* 21120.00	Average	H	-	-	-81.02	17.26	-9.54	33.70	53.98	-20.28
* 21120.00	Peak	H	-	-	-69.87	17.26	-9.54	44.85	73.98	-29.13
26400.00	Peak	H	-	-	-67.77	19.67	-9.54	49.36	68.20	-18.84

Table 7-155. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 426 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	H	-	-	-83.13	20.07	0.00	43.94	53.98	-10.04
* 10640.00	Peak	H	-	-	-72.07	20.07	0.00	55.00	73.98	-18.98
* 15960.00	Average	H	-	-	-85.05	27.42	0.00	49.37	53.98	-4.61
* 15960.00	Peak	H	-	-	-73.85	27.42	0.00	60.57	73.98	-13.41
* 21280.00	Average	H	-	-	-81.21	17.51	-9.54	33.76	53.98	-20.22
* 21280.00	Peak	H	-	-	-69.50	17.51	-9.54	45.47	73.98	-28.51
26600.00	Peak	H	-	-	-49.95	1.44	-9.54	48.95	68.20	-19.25

Table 7-156. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10560.00	Peak	H	-	-	-73.18	19.37	0.00	53.19	68.20	-15.01
* 15840.00	Average	H	-	-	-84.99	27.28	0.00	49.29	53.98	-4.69
* 15840.00	Peak	H	-	-	-74.23	27.28	0.00	60.06	73.98	-13.92
* 21120.00	Average	H	-	-	-82.39	17.26	-9.54	32.33	53.98	-21.65
* 21120.00	Peak	H	-	-	-70.22	17.26	-9.54	44.50	73.98	-29.48
26400.00	Peak	H	-	-	-68.99	19.67	-9.54	48.14	68.20	-20.06

Table 7-157. Radiated Measurements SISO ANT2 (106 Tones) with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 427 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	H	-	-	-84.98	20.71	0.00	42.73	53.98	-11.25
* 11000.00	Peak	H	-	-	-72.11	20.71	0.00	55.60	73.98	-18.38
16500.00	Peak	H	-	-	-72.97	28.80	0.00	62.83	68.20	-5.37
22000.00	Peak	H	-	-	-69.29	18.25	-9.54	46.42	68.20	-21.78
27500.00	Peak	H	-	-	-48.81	0.12	-9.54	48.77	68.20	-19.43

Table 7-158. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-84.47	20.02	0.00	42.55	53.98	-11.43
* 11200.00	Peak	H	-	-	-72.36	20.02	0.00	54.66	73.98	-19.32
16800.00	Peak	H	-	-	-73.71	28.89	0.00	62.18	68.20	-6.02
* 22400.00	Average	H	-	-	-80.33	19.00	-9.54	36.13	53.98	-17.85
* 22400.00	Peak	H	-	-	-69.60	19.00	-9.54	46.86	73.98	-27.12
28000.00	Peak	H	-	-	-48.75	0.74	-9.54	49.44	68.20	-18.76

Table 7-159. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 428 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

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]
* 11440.00	Average	H	-	-	-83.83	20.76	0.00	43.93	53.98	-10.05
* 11440.00	Peak	H	-	-	-73.22	20.76	0.00	54.54	73.98	-19.44
17160.00	Peak	H	-	-	-73.58	29.65	0.00	63.07	68.20	-5.13
* 22880.00	Average	H	-	-	-80.52	18.40	-9.54	35.34	53.98	-18.64
* 22880.00	Peak	H	-	-	-68.86	18.40	-9.54	47.00	73.98	-26.98
28600.00	Peak	H	-	-	-49.08	0.41	-9.54	48.79	68.20	-19.41

Table 7-160. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-84.67	20.02	0.00	42.35	53.98	-11.63
* 11200.00	Peak	H	-	-	-73.37	20.02	0.00	53.65	73.98	-20.33
16800.00	Peak	H	-	-	-74.80	28.89	0.00	61.09	68.20	-7.11
* 22400.00	Average	H	-	-	-80.48	19.00	-9.54	35.98	53.98	-18.00
* 22400.00	Peak	H	-	-	-69.17	19.00	-9.54	47.29	73.98	-26.69
28000.00	Peak	H	-	-	-48.96	0.74	-9.54	49.23	68.20	-18.97

Table 7-161. Radiated Measurements SISO ANT2 (106 Tones) with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 429 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 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]
* 11490.00	Average	H	-	-	-83.55	20.29	0.00	43.74	53.98	-10.24
* 11490.00	Peak	H	-	-	-72.96	20.29	0.00	54.33	73.98	-19.65
17235.00	Peak	H	-	-	-72.33	29.45	0.00	64.12	68.20	-4.08
* 22980.00	Average	H	-	-	-81.57	17.92	-9.54	33.81	53.98	-20.17
* 22980.00	Peak	H	-	-	-71.34	17.92	-9.54	44.04	73.98	-29.94
28725.00	Peak	H	-	-	-49.89	0.67	-9.54	48.24	68.20	-19.96

Table 7-162. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	-	-	-83.62	20.87	0.00	44.25	53.98	-9.73
* 11570.00	Peak	H	-	-	-72.18	20.87	0.00	55.69	73.98	-18.29
17355.00	Peak	H	-	-	-72.84	29.88	0.00	64.04	68.20	-4.16
23140.00	Peak	H	-	-	-69.31	18.32	-9.54	46.47	68.20	-21.73
28925.00	Peak	H	-	-	-50.27	0.75	-9.54	47.94	68.20	-20.26

Table 7-163. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 430 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	H	-	-	-84.30	21.73	0.00	44.43	53.98	-9.55
* 11650.00	Peak	H	-	-	-72.14	21.73	0.00	56.59	73.98	-17.39
17475.00	Peak	H	-	-	-73.73	30.16	0.00	63.43	68.20	-4.77
23300.00	Peak	H	-	-	-70.67	18.77	-9.54	45.56	68.20	-22.64
29125.00	Peak	H	-	-	-50.76	-0.12	-9.54	46.58	68.20	-21.62

Table 7-164. Radiated Measurements SISO ANT2 (106 Tones)

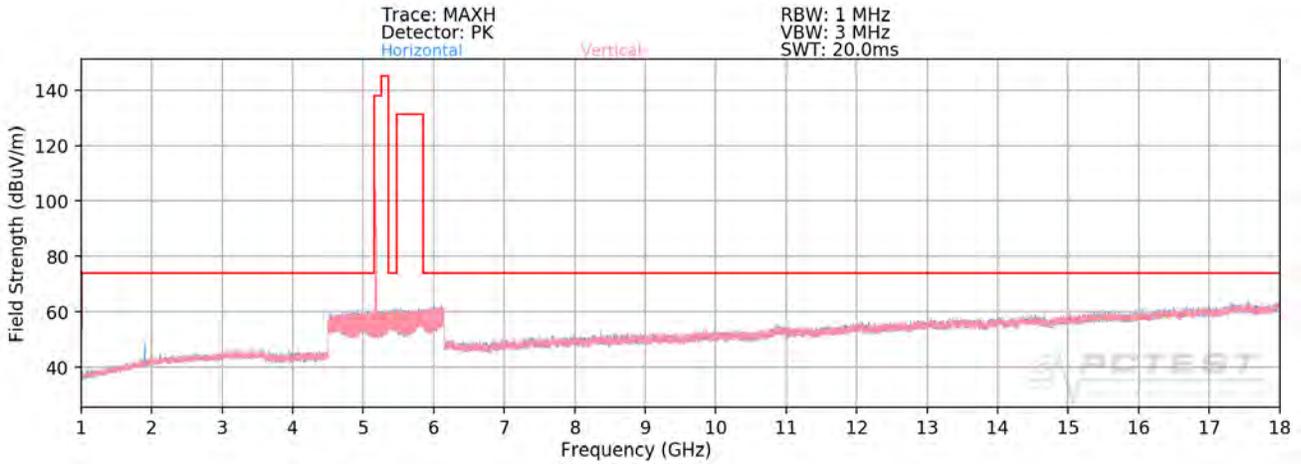
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

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]
* 11490.00	Average	H	-	-	-84.58	20.29	0.00	42.71	53.98	-11.27
* 11490.00	Peak	H	-	-	-73.08	20.29	0.00	54.21	73.98	-19.77
17235.00	Peak	H	-	-	-73.10	29.45	0.00	63.35	68.20	-4.85
* 22980.00	Average	H	-	-	-80.91	17.92	-9.54	34.47	53.98	-19.51
* 22980.00	Peak	H	-	-	-69.87	17.92	-9.54	45.51	73.98	-28.47
28725.00	Peak	H	-	-	-49.01	0.67	-9.54	49.12	68.20	-19.08

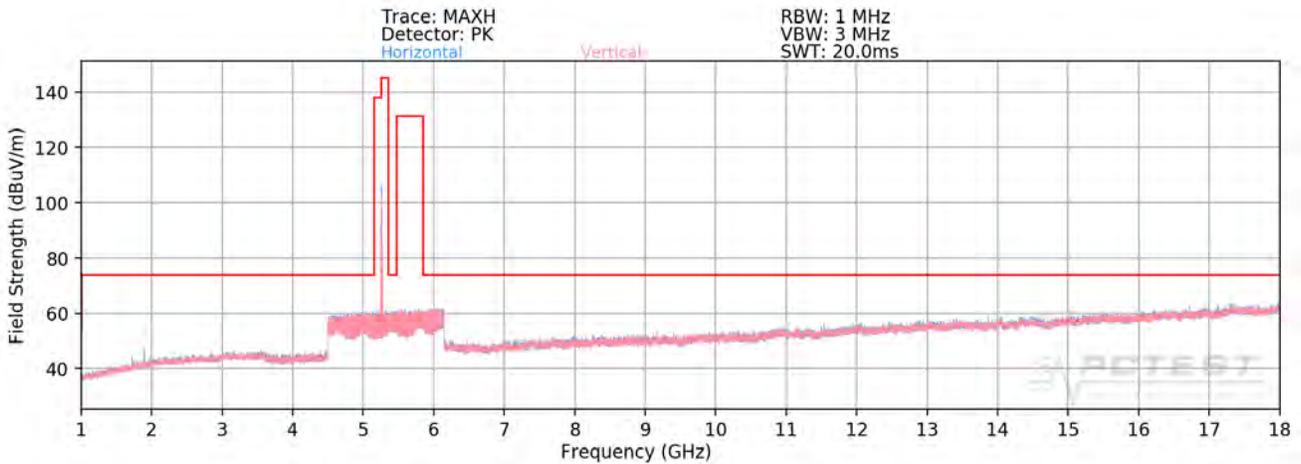
Table 7-165. Radiated Measurements SISO ANT2 (106 Tones) with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 431 of 516	

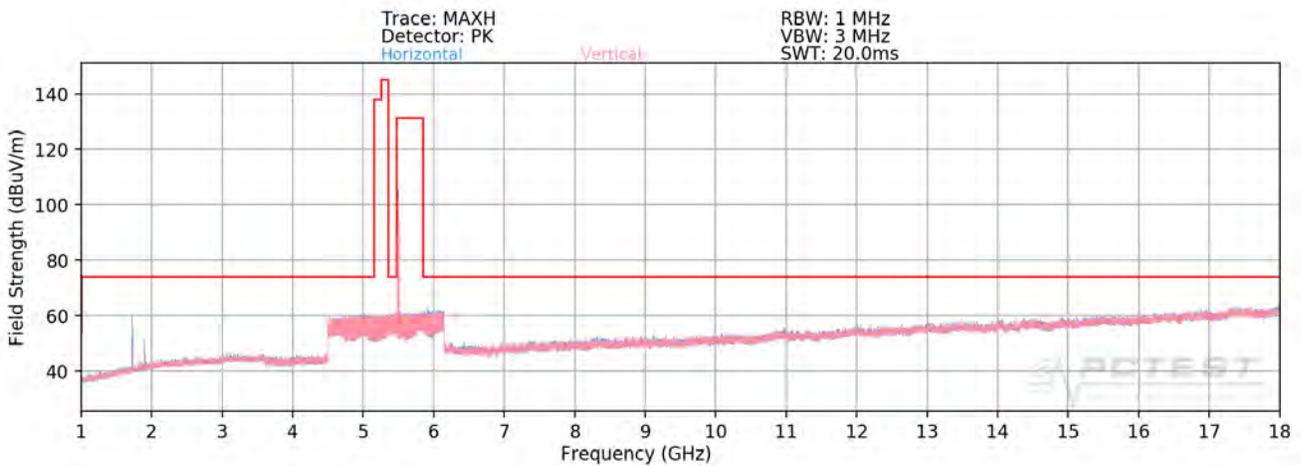
242 Tones



Plot 7-643. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 242 Tones)

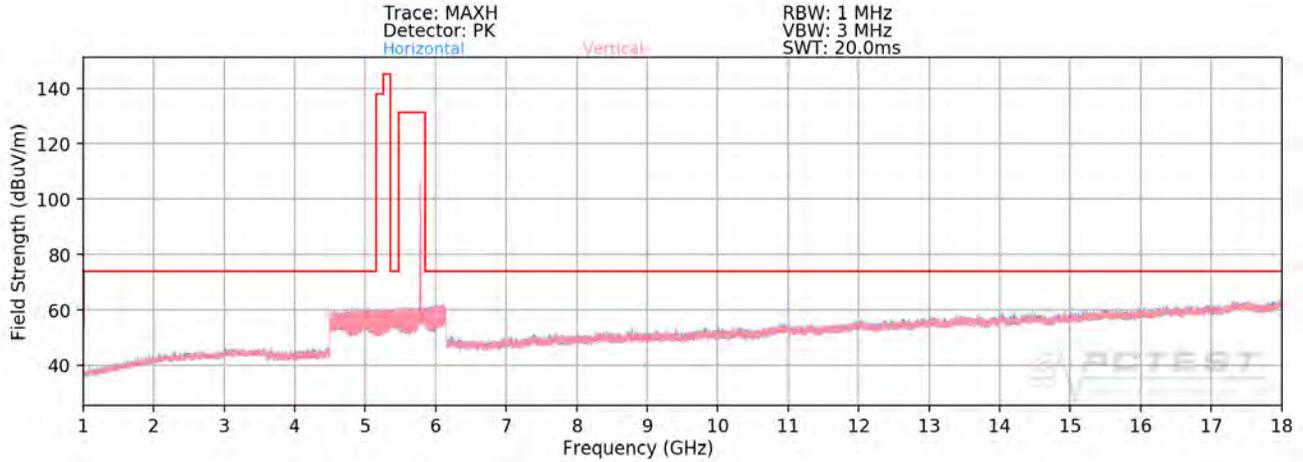


Plot 7-644. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 242 Tones)



Plot 7-645. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 242 Tones)

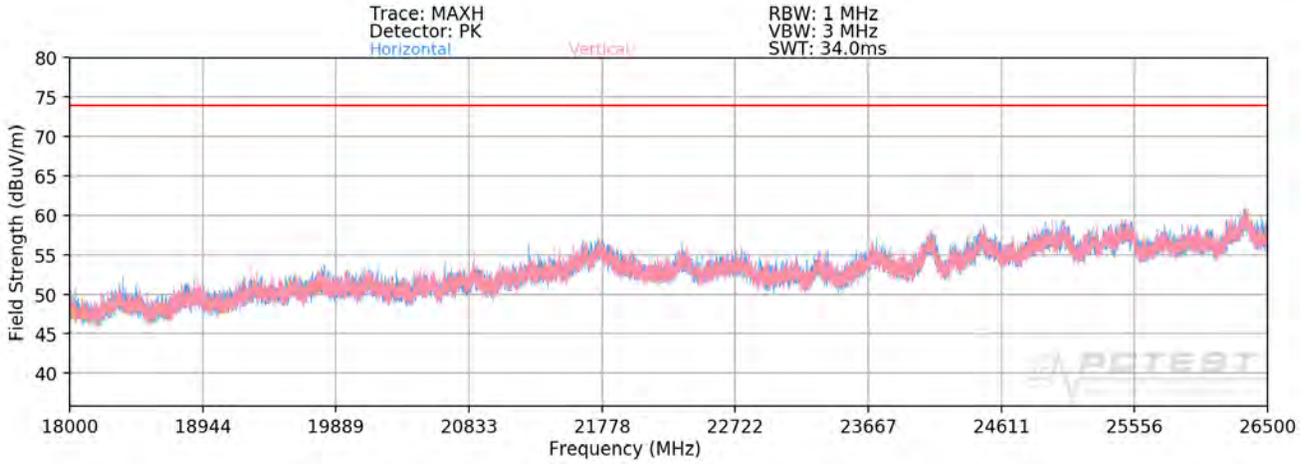
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 432 of 516



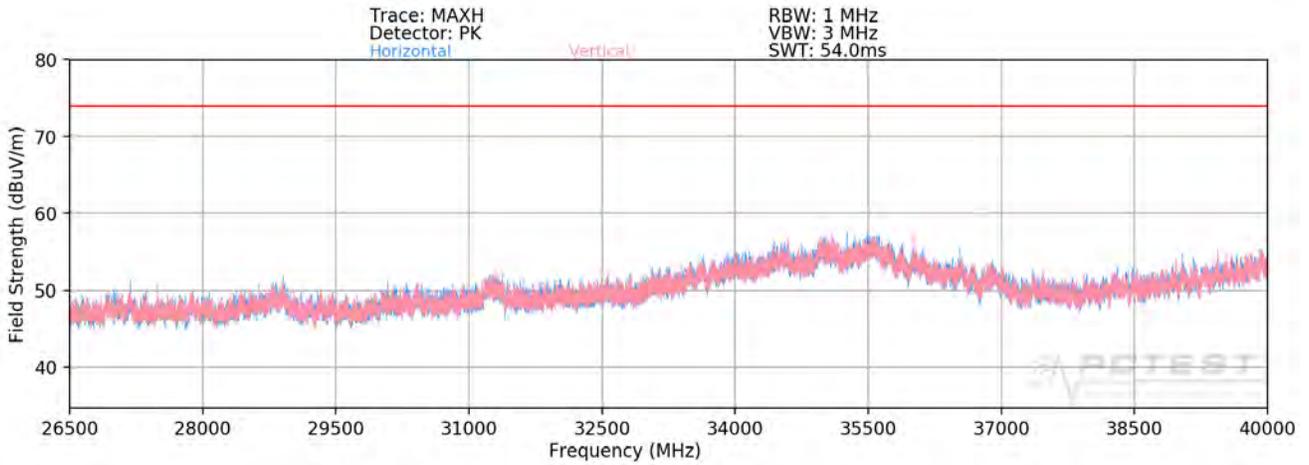
Plot 7-646. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 433 of 516	

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-647. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 242 Tones)



Plot 7-648. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 242 Tones)

<p>FCC ID: A3LSMG975U</p>		<p>MEASUREMENT REPORT (CERTIFICATION)</p>		<p>Approved by: Quality Manager</p>
<p>Test Report S/N: 1M1810250197-06.A3L</p>	<p>Test Dates: 10/31/2018-1/09/2019</p>	<p>EUT Type: Portable Handset</p>	<p>Page 434 of 516</p>	

SISO Antenna-2 Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	V	-	-	-72.68	18.99	0.00	53.31	68.20	-14.89
* 15540.00	Average	V	-	-	-84.67	27.73	0.00	50.06	53.98	-3.92
* 15540.00	Peak	V	-	-	-75.21	27.73	0.00	59.52	73.98	-14.46
* 20720.00	Average	V	-	-	-82.03	16.92	-9.54	32.35	53.98	-21.63
* 20720.00	Peak	V	-	-	-71.28	16.92	-9.54	43.10	73.98	-30.88
25900.00	Peak	V	-	-	-69.81	19.39	-9.54	47.04	68.20	-21.16

Table 7-166. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	V	-	-	-70.61	19.36	0.00	55.75	68.20	-12.45
* 15600.00	Average	V	-	-	-84.67	27.61	0.00	49.94	53.98	-4.04
* 15600.00	Peak	V	-	-	-75.08	27.61	0.00	59.53	73.98	-14.45
* 20800.00	Average	V	-	-	-82.97	17.39	-9.54	31.87	53.98	-22.10
* 20800.00	Peak	V	-	-	-70.94	17.39	-9.54	43.90	73.98	-30.07
26000.00	Peak	V	-	-	-68.34	19.98	-9.54	49.09	68.20	-19.11

Table 7-167. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 435 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

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]
10480.00	Peak	V	-	-	-73.08	19.72	0.00	53.64	68.20	-14.56
* 15720.00	Average	V	-	-	-85.74	27.41	0.00	48.67	53.98	-5.31
* 15720.00	Peak	V	-	-	-74.61	27.41	0.00	59.80	73.98	-14.18
* 20960.00	Average	V	-	-	-83.13	17.29	-9.54	31.62	53.98	-22.36
* 20960.00	Peak	V	-	-	-69.18	17.29	-9.54	45.57	73.98	-28.41
26200.00	Peak	V	-	-	-68.94	19.80	-9.54	48.32	68.20	-19.88

Table 7-168. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	V	-	-	-73.08	18.99	0.00	52.91	68.20	-15.29
* 15540.00	Average	V	-	-	-85.34	27.73	0.00	49.39	53.98	-4.59
* 15540.00	Peak	V	-	-	-74.37	27.73	0.00	60.36	73.98	-13.62
* 20720.00	Average	V	-	-	-83.01	16.92	-9.54	31.37	53.98	-22.61
* 20720.00	Peak	V	-	-	-72.04	16.92	-9.54	42.34	73.98	-31.64
25900.00	Peak	V	-	-	-70.20	19.39	-9.54	46.65	68.20	-21.55

Table 7-169. Radiated Measurements SISO ANT2 with WCP(242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 436 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10520.00	Peak	V	-	-	-73.87	19.44	0.00	52.57	68.20	-15.63
* 15780.00	Average	V	-	-	-84.95	27.10	0.00	49.15	53.98	-4.83
* 15780.00	Peak	V	-	-	-75.37	27.10	0.00	58.73	73.98	-15.25
* 21040.00	Average	V	-	-	-80.38	17.32	-9.54	34.40	53.98	-19.58
* 21040.00	Peak	V	-	-	-70.35	17.32	-9.54	44.43	73.98	-29.55
26300.00	Peak	V	-	-	-69.08	20.12	-9.54	48.50	68.20	-19.70

Table 7-170. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

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]
10560.00	Peak	V	-	-	-74.30	19.62	0.00	52.32	68.20	-15.88
* 15840.00	Average	V	-	-	-84.88	27.05	0.00	49.17	53.98	-4.81
* 15840.00	Peak	V	-	-	-74.27	27.05	0.00	59.78	73.98	-14.20
* 21120.00	Average	V	-	-	-81.38	17.26	-9.54	33.34	53.98	-20.64
* 21120.00	Peak	V	-	-	-70.21	17.26	-9.54	44.51	73.98	-29.47
26400.00	Peak	V	-	-	-69.80	19.67	-9.54	47.33	68.20	-20.87

Table 7-171. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 437 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	V	-	-	-83.97	19.97	0.00	43.00	53.98	-10.98
* 10640.00	Peak	V	-	-	-71.64	19.97	0.00	55.33	73.98	-18.65
* 15960.00	Average	V	-	-	-84.91	27.35	0.00	49.44	53.98	-4.54
* 15960.00	Peak	V	-	-	-74.08	27.35	0.00	60.27	73.98	-13.71
* 21280.00	Average	V	-	-	-80.20	17.51	-9.54	34.77	53.98	-19.21
* 21280.00	Peak	V	-	-	-69.84	17.51	-9.54	45.13	73.98	-28.85
26600.00	Peak	V	-	-	-50.32	1.44	-9.54	48.58	68.20	-19.62

Table 7-172. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	V	-	-	-84.34	19.97	0.00	42.63	53.98	-11.35
* 10640.00	Peak	V	-	-	-72.91	19.97	0.00	54.06	73.98	-19.92
* 15960.00	Average	V	-	-	-85.03	27.35	0.00	49.32	53.98	-4.66
* 15960.00	Peak	V	-	-	-73.67	27.35	0.00	60.68	73.98	-13.30
* 21280.00	Average	V	-	-	-80.61	17.51	-9.54	34.36	53.98	-19.62
* 21280.00	Peak	V	-	-	-69.16	17.51	-9.54	45.81	73.98	-28.17
26600.00	Peak	V	-	-	-49.61	1.44	-9.54	49.29	68.20	-18.91

Table 7-173. Radiated Measurements SISO ANT2 with WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 438 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	V	-	-	-85.27	20.31	0.00	42.04	53.98	-11.94
* 11000.00	Peak	V	-	-	-74.65	20.31	0.00	52.66	73.98	-21.32
16500.00	Peak	V	-	-	-72.81	28.49	0.00	62.68	68.20	-5.52
22000.00	Peak	V	-	-	-70.24	18.25	-9.54	45.47	68.20	-22.73
27500.00	Peak	V	-	-	-50.31	0.12	-9.54	47.27	68.20	-20.93

Table 7-174. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	V	-	-	-85.94	19.97	0.00	41.03	53.98	-12.95
* 11200.00	Peak	V	-	-	-73.48	19.97	0.00	53.49	73.98	-20.49
16800.00	Peak	V	-	-	-73.91	28.82	0.00	61.91	68.20	-6.29
* 22400.00	Average	V	-	-	-80.84	19.00	-9.54	35.62	53.98	-18.36
* 22400.00	Peak	V	-	-	-71.02	19.00	-9.54	45.44	73.98	-28.54
28000.00	Peak	V	-	-	-50.61	0.74	-9.54	47.58	68.20	-20.62

Table 7-175. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 439 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

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]
* 11440.00	Average	V	-	-	-84.87	20.26	0.00	42.39	53.98	-11.59
* 11440.00	Peak	V	-	-	-73.28	20.26	0.00	53.98	73.98	-20.00
17160.00	Peak	V	-	-	-74.67	29.62	0.00	61.95	68.20	-6.25
* 22880.00	Average	V	-	-	-82.05	18.40	-9.54	33.81	53.98	-20.17
* 22880.00	Peak	V	-	-	-70.21	18.40	-9.54	45.65	73.98	-28.33
28600.00	Peak	V	-	-	-49.20	0.41	-9.54	48.67	68.20	-19.53

Table 7-176. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	V	-	-	-84.09	20.31	0.00	43.22	53.98	-10.76
* 11000.00	Peak	V	-	-	-75.61	20.31	0.00	51.70	73.98	-22.28
16500.00	Peak	V	-	-	-73.38	28.49	0.00	62.11	68.20	-6.09
22000.00	Peak	V	-	-	-72.05	19.00	-9.54	44.41	68.20	-23.79
27500.00	Peak	V	-	-	-69.97	19.00	-9.54	46.49	68.20	-21.71

Table 7-177. Radiated Measurements SISO ANT2 with WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 440 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 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]
* 11490.00	Average	V	-	-	-84.34	20.36	0.00	43.02	53.98	-10.96
* 11490.00	Peak	V	-	-	-73.67	20.36	0.00	53.69	73.98	-20.29
17235.00	Peak	V	-	-	-73.09	29.51	0.00	63.42	68.20	-4.78
* 22980.00	Average	V	-	-	-80.34	17.92	-9.54	35.04	53.98	-18.94
* 22980.00	Peak	V	-	-	-71.97	17.92	-9.54	43.41	73.98	-30.57
28725.00	Peak	V	-	-	-50.08	0.67	-9.54	48.05	68.20	-20.15

Table 7-178. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	V	-	-	-85.27	21.02	0.00	42.75	53.98	-11.23
* 11570.00	Peak	V	-	-	-74.38	21.02	0.00	53.64	73.98	-20.34
17355.00	Peak	V	-	-	-73.64	29.63	0.00	62.99	68.20	-5.21
23140.00	Peak	V	-	-	-70.01	18.32	-9.54	45.77	68.20	-22.43
28925.00	Peak	V	-	-	-50.27	0.75	-9.54	47.94	68.20	-20.26

Table 7-179. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 441 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	V	-	-	-85.07	21.21	0.00	43.14	53.98	-10.84
* 11650.00	Peak	V	-	-	-73.64	21.21	0.00	54.57	73.98	-19.41
17475.00	Peak	V	-	-	-75.31	29.76	0.00	61.45	68.20	-6.75
23300.00	Peak	V	-	-	-72.84	18.77	-9.54	43.39	68.20	-24.81
29125.00	Peak	V	-	-	-49.20	-0.12	-9.54	48.14	68.20	-20.06

Table 7-180. Radiated Measurements SISO ANT2 (242 Tones)

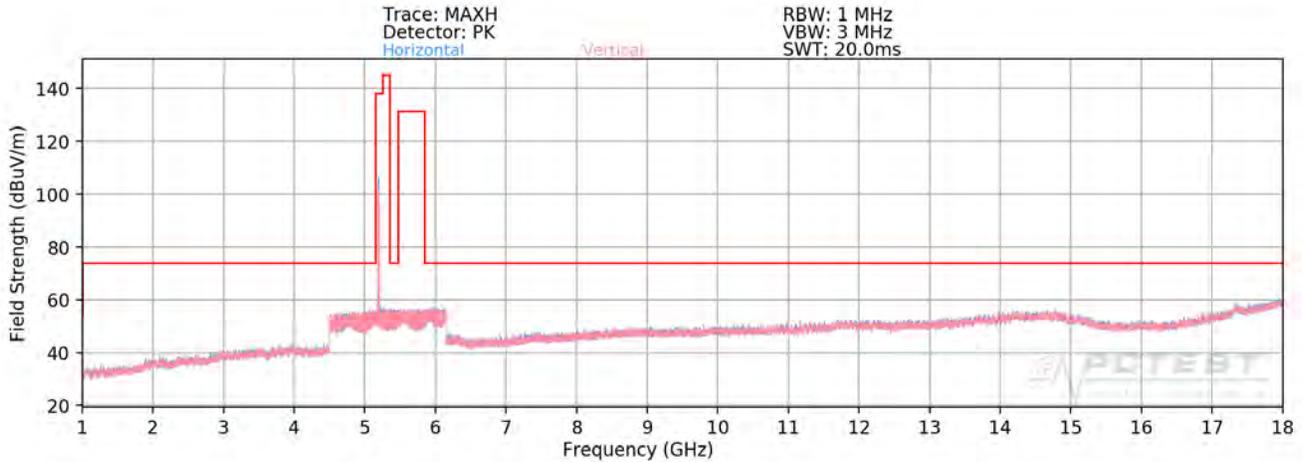
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

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]
* 11490.00	Average	V	-	-	-84.97	20.36	0.00	42.39	53.98	-11.59
* 11490.00	Peak	V	-	-	-73.61	20.36	0.00	53.75	73.98	-20.23
17235.00	Peak	V	-	-	-74.38	29.51	0.00	62.13	68.20	-6.07
* 22980.00	Average	V	-	-	-84.30	17.92	-9.54	31.08	53.98	-22.90
* 22980.00	Peak	V	-	-	-71.29	17.92	-9.54	44.09	73.98	-29.89
28725.00	Peak	V	-	-	-50.27	0.67	-9.54	47.86	68.20	-20.34

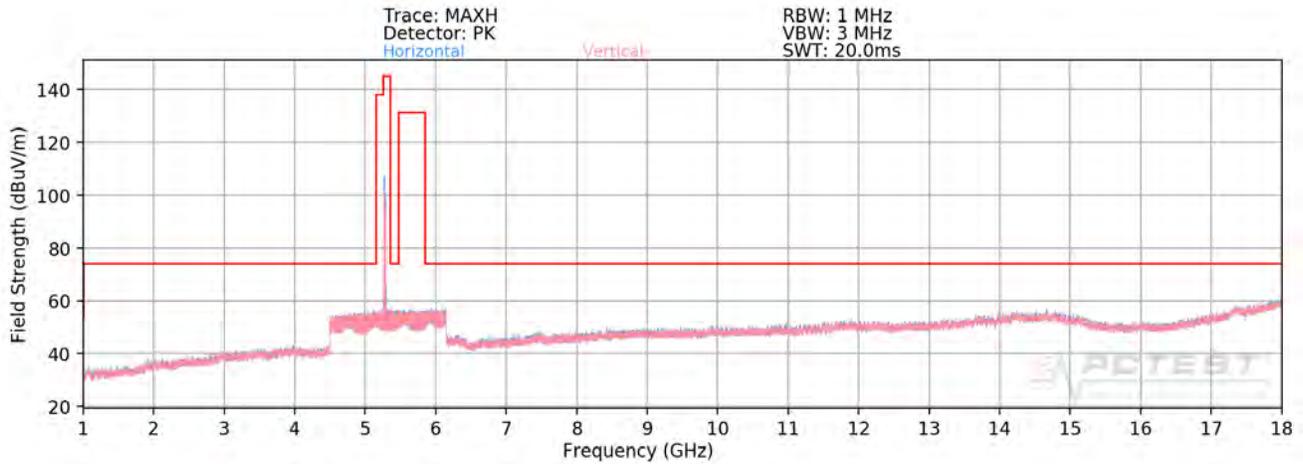
Table 7-181. Radiated Measurements SISO ANT2 with WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 442 of 516

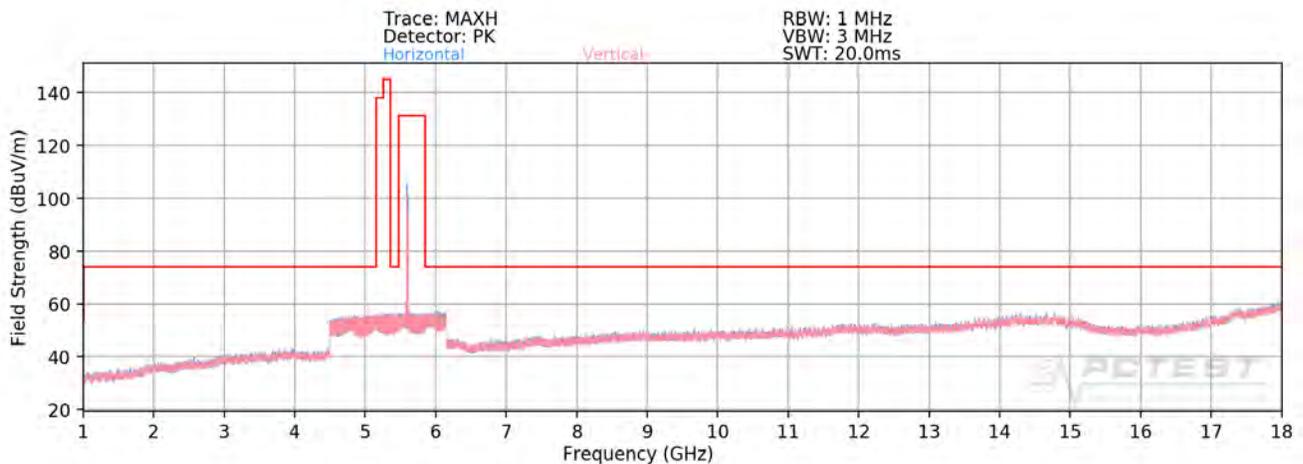
7.6.3 MIMO Radiated Spurious Emission Measurements (106 Tones)



Plot 7-649. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 106 Tones)

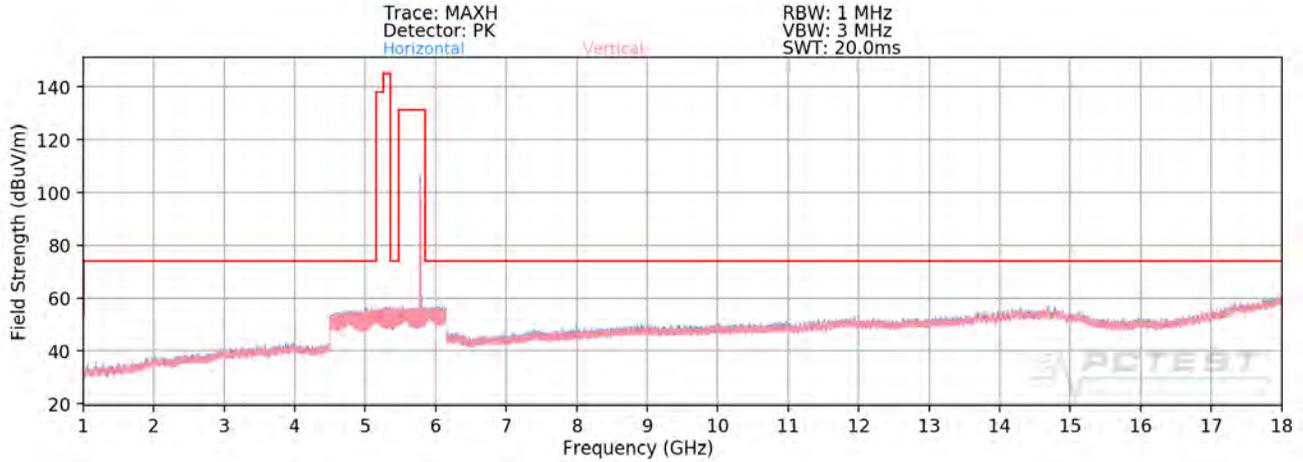


Plot 7-650. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 106 Tones)



Plot 7-651. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 106 Tones)

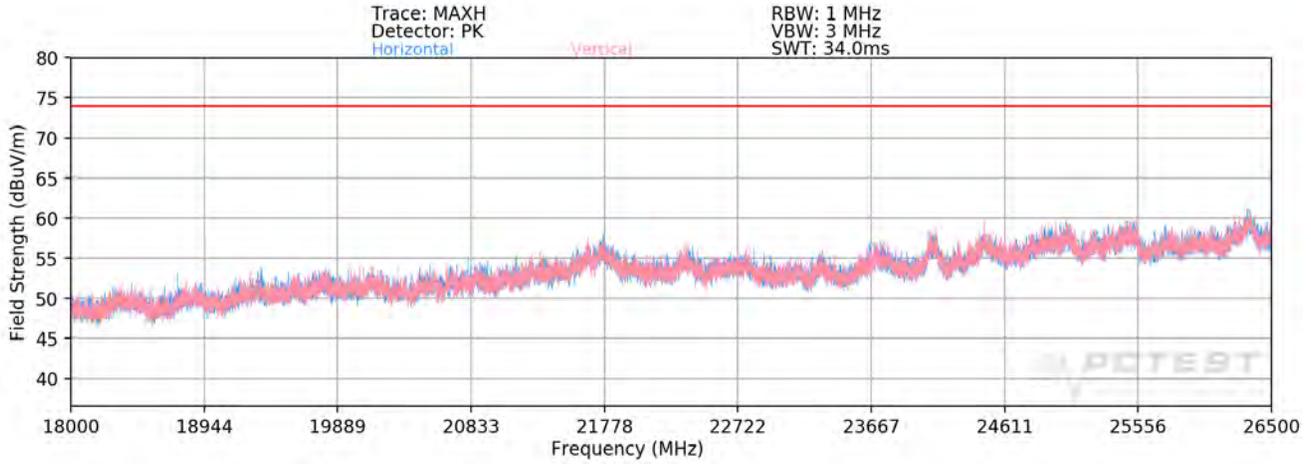
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 443 of 516



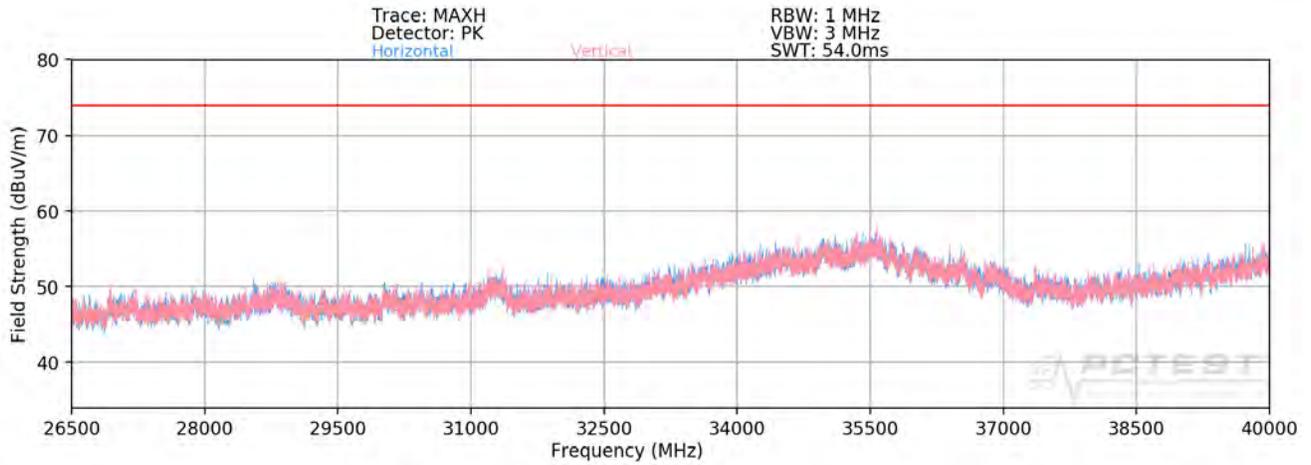
Plot 7-652. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 444 of 516	

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-653. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 106 Tones)



Plot 7-654. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 445 of 516	

MIMO Radiated Spurious Emission Measurements (106 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	H	-	-	-72.11	18.75	0.00	53.64	68.20	-14.56
* 15540.00	Average	H	-	-	-85.21	28.13	0.00	49.92	53.98	-4.06
* 15540.00	Peak	H	-	-	-73.63	28.13	0.00	61.50	73.98	-12.48
* 20720.00	Average	H	-	-	-82.04	16.92	-9.54	32.34	53.98	-21.64
* 20720.00	Peak	H	-	-	-71.61	16.92	-9.54	42.77	73.98	-31.21
25900.00	Peak	H	-	-	-69.34	19.39	-9.54	47.51	68.20	-20.69

Table 7-182. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	H	-	-	-72.37	19.45	0.00	54.08	68.20	-14.12
* 15600.00	Average	H	-	-	-85.10	27.65	0.00	49.55	53.98	-4.43
* 15600.00	Peak	H	-	-	-74.02	27.65	0.00	60.63	73.98	-13.35
* 20800.00	Average	H	-	-	-82.07	17.39	-9.54	32.77	53.98	-21.20
* 20800.00	Peak	H	-	-	-71.54	17.39	-9.54	43.30	73.98	-30.67
26000.00	Peak	H	-	-	-69.31	19.98	-9.54	48.12	68.20	-20.08

Table 7-183. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 446 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

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]
10480.00	Peak	H	-	-	-72.89	19.76	0.00	53.87	68.20	-14.33
* 15720.00	Average	H	-	-	-85.06	27.55	0.00	49.49	53.98	-4.49
* 15720.00	Peak	H	-	-	-73.83	27.55	0.00	60.72	73.98	-13.26
* 20960.00	Average	H	-	-	-81.37	17.29	-9.54	33.38	53.98	-20.60
* 20960.00	Peak	H	-	-	-71.27	17.29	-9.54	43.48	73.98	-30.50
26200.00	Peak	H	-	-	-69.33	19.80	-9.54	47.93	68.20	-20.27

Table 7-184. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	H	-	-	-72.67	19.45	0.00	53.78	68.20	-14.42
* 15600.00	Average	H	-	-	-84.68	27.65	0.00	49.97	53.98	-4.01
* 15600.00	Peak	H	-	-	-75.01	27.65	0.00	59.64	73.98	-14.34
* 20800.00	Average	H	-	-	-83.23	17.39	-9.54	31.61	53.98	-22.36
* 20800.00	Peak	H	-	-	-72.57	17.39	-9.54	42.27	73.98	-31.70
26000.00	Peak	H	-	-	-70.27	19.98	-9.54	47.16	68.20	-21.04

Table 7-185. Radiated Measurements MIMO (106 Tones)with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 447 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10520.00	Peak	H	-	-	-73.48	19.25	0.00	52.77	68.20	-15.43
* 15780.00	Average	H	-	-	-85.03	27.22	0.00	49.19	53.98	-4.79
* 15780.00	Peak	H	-	-	-74.03	27.22	0.00	60.19	73.98	-13.79
* 21040.00	Average	H	-	-	-82.07	17.32	-9.54	32.71	53.98	-21.27
* 21040.00	Peak	H	-	-	-71.64	17.32	-9.54	43.14	73.98	-30.84
26300.00	Peak	H	-	-	-69.49	20.12	-9.54	48.09	68.20	-20.11

Table 7-186. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

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]
10560.00	Peak	H	-	-	-71.86	19.37	0.00	54.51	68.20	-13.69
* 15840.00	Average	H	-	-	-84.96	27.28	0.00	49.32	53.98	-4.66
* 15840.00	Peak	H	-	-	-73.76	27.28	0.00	60.52	73.98	-13.46
* 21120.00	Average	H	-	-	-80.79	17.26	-9.54	33.93	53.98	-20.05
* 21120.00	Peak	H	-	-	-70.28	17.26	-9.54	44.44	73.98	-29.54
26400.00	Peak	H	-	-	-68.26	19.67	-9.54	48.87	68.20	-19.33

Table 7-187. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 448 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	H	-	-	-83.15	20.07	0.00	43.92	53.98	-10.06
* 10640.00	Peak	H	-	-	-72.36	20.07	0.00	54.71	73.98	-19.27
* 15960.00	Average	H	-	-	-84.81	27.42	0.00	49.61	53.98	-4.37
* 15960.00	Peak	H	-	-	-73.02	27.42	0.00	61.40	73.98	-12.58
* 21280.00	Average	H	-	-	-82.64	17.51	-9.54	32.33	53.98	-21.65
* 21280.00	Peak	H	-	-	-70.49	17.51	-9.54	44.48	73.98	-29.50
26600.00	Peak	H	-	-	-50.94	1.44	-9.54	47.96	68.20	-20.24

Table 7-188. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	H	-	-	-82.97	20.07	0.00	44.10	53.98	-9.88
* 10640.00	Peak	H	-	-	-73.38	20.07	0.00	53.69	73.98	-20.29
* 15960.00	Average	H	-	-	-85.34	27.42	0.00	49.08	53.98	-4.90
* 15960.00	Peak	H	-	-	-73.19	27.42	0.00	61.23	73.98	-12.75
* 21280.00	Average	H	-	-	-83.27	17.51	-9.54	31.70	53.98	-22.28
* 21280.00	Peak	H	-	-	-70.46	17.51	-9.54	44.51	73.98	-29.47

Table 7-189. Radiated Measurements MIMO (106 Tones)with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 449 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	H	-	-	-85.24	20.71	0.00	42.47	53.98	-11.51
* 11000.00	Peak	H	-	-	-72.90	20.71	0.00	54.81	73.98	-19.17
16500.00	Peak	H	-	-	-74.24	28.80	0.00	61.56	68.20	-6.64
22000.00	Peak	H	-	-	-70.34	18.25	-9.54	45.37	68.20	-22.83
27500.00	Peak	H	-	-	-49.20	0.12	-9.54	48.38	68.20	-19.82

Table 7-190. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-83.50	20.02	0.00	43.52	53.98	-10.46
* 11200.00	Peak	H	-	-	-73.58	20.02	0.00	53.44	73.98	-20.54
16800.00	Peak	H	-	-	-74.28	28.89	0.00	61.61	68.20	-6.59
* 22400.00	Average	H	-	-	-79.87	19.00	-9.54	36.59	53.98	-17.39
* 22400.00	Peak	H	-	-	-70.38	19.00	-9.54	46.08	73.98	-27.90
28000.00	Peak	H	-	-	-79.20	0.74	-9.54	18.99	68.20	-49.21

Table 7-191. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 450 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

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]
* 11440.00	Average	H	-	-	-85.07	20.76	0.00	42.69	53.98	-11.29
* 11440.00	Peak	H	-	-	-73.02	20.76	0.00	54.74	73.98	-19.24
17160.00	Peak	H	-	-	-73.11	29.65	0.00	63.54	68.20	-4.66
* 22880.00	Average	H	-	-	-79.88	18.40	-9.54	35.98	53.98	-18.00
* 22880.00	Peak	H	-	-	-69.37	18.40	-9.54	46.49	73.98	-27.49
28600.00	Peak	H	-	-	-50.31	0.41	-9.54	47.56	68.20	-20.64

Table 7-192. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-84.08	20.02	0.00	42.94	53.98	-11.04
* 11200.00	Peak	H	-	-	-74.06	20.02	0.00	52.96	73.98	-21.02
16800.00	Peak	H	-	-	-75.37	28.89	0.00	60.52	68.20	-7.68
* 22400.00	Average	H	-	-	-80.48	19.00	-9.54	35.98	53.98	-18.00
* 22400.00	Peak	H	-	-	-69.17	19.00	-9.54	47.29	73.98	-26.69
28000.00	Peak	H	-	-	-48.96	0.74	-9.54	49.23	68.20	-18.97

Table 7-193. Radiated Measurements MIMO (106 Tones)with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 451 of 516

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 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]
* 11490.00	Average	H	-	-	-83.89	20.29	0.00	43.40	53.98	-10.58
* 11490.00	Peak	H	-	-	-72.81	20.29	0.00	54.48	73.98	-19.50
17235.00	Peak	H	-	-	-73.42	29.45	0.00	63.03	68.20	-5.17
* 22980.00	Average	H	-	-	-82.08	17.92	-9.54	33.30	53.98	-20.68
* 22980.00	Peak	H	-	-	-71.34	17.92	-9.54	44.04	73.98	-29.94
28725.00	Peak	H	-	-	-49.31	0.67	-9.54	48.82	69.20	-20.38

Table 7-194. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	-	-	-83.72	20.87	0.00	44.15	53.98	-9.83
* 11570.00	Peak	H	-	-	-71.88	20.87	0.00	55.99	73.98	-17.99
17355.00	Peak	H	-	-	-73.28	29.88	0.00	63.60	68.20	-4.60
23140.00	Peak	H	-	-	-70.60	18.32	-9.54	45.18	68.20	-23.02
28925.00	Peak	H	-	-	-50.38	0.75	-9.54	47.83	68.20	-20.37

Table 7-195. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 452 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	H	-	-	-83.78	21.73	0.00	44.95	53.98	-9.03
* 11650.00	Peak	H	-	-	-72.37	21.73	0.00	56.36	73.98	-17.62
17475.00	Peak	H	-	-	-73.46	30.16	0.00	63.70	68.20	-4.50
23300.00	Peak	H	-	-	-70.38	18.77	-9.54	45.85	68.20	-22.35
29125.00	Peak	H	-	-	-50.21	-0.12	-9.54	47.13	68.20	-21.07

Table 7-196. Radiated Measurements MIMO (106 Tones)

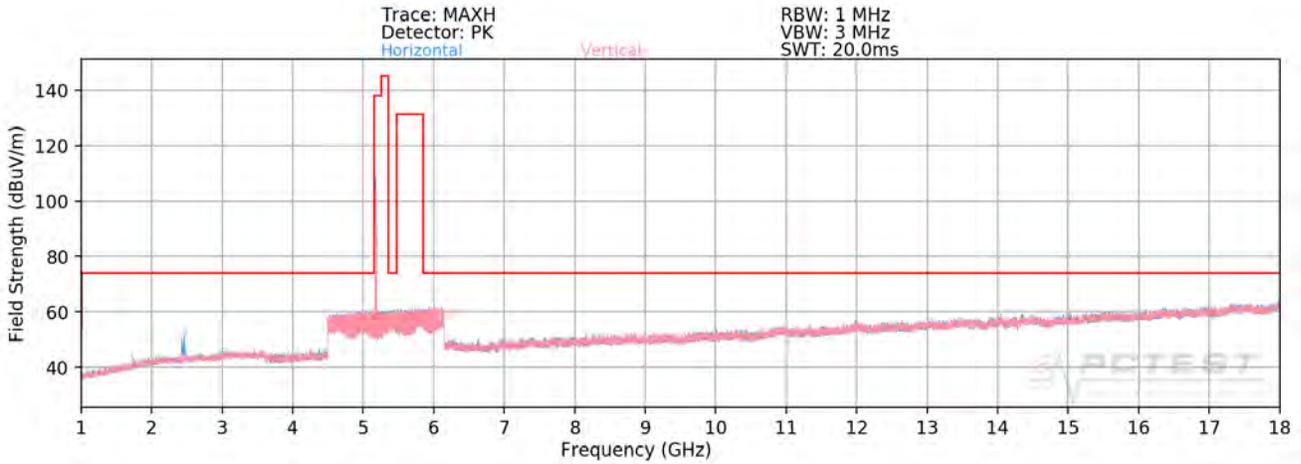
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	H	-	-	-83.51	21.73	0.00	45.22	53.98	-8.76
* 11650.00	Peak	H	-	-	-72.31	21.73	0.00	56.42	73.98	-17.56
17475.00	Peak	H	-	-	-73.94	30.16	0.00	63.22	68.20	-4.98
23300.00	Peak	H	-	-	-71.29	18.77	-9.54	44.94	68.20	-23.26
29125.00	Peak	H	-	-	-51.02	-0.12	-9.54	46.32	68.20	-21.88

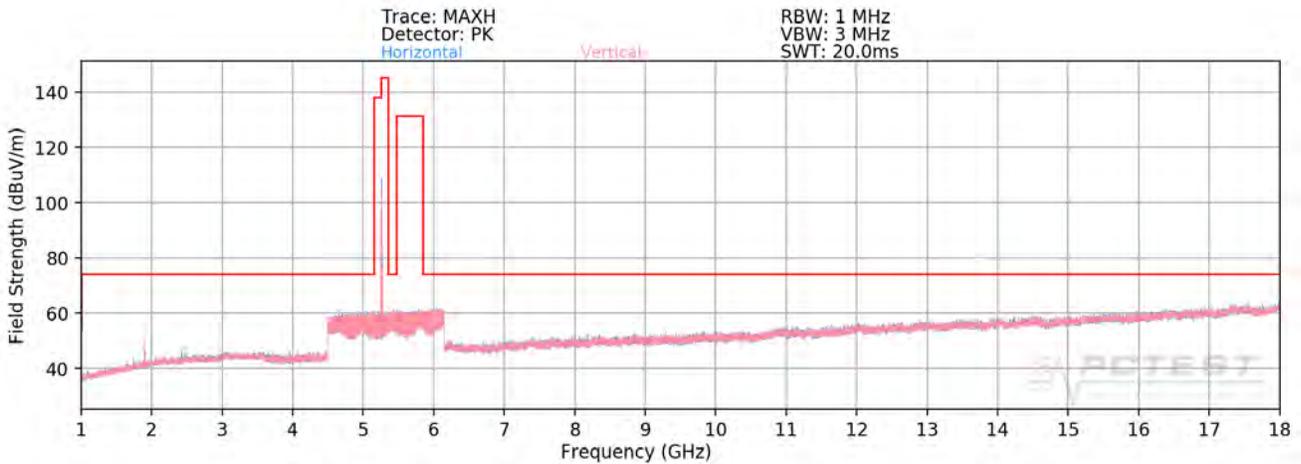
Table 7-197. Radiated Measurements MIMO (106 Tones)with WCP

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 453 of 516

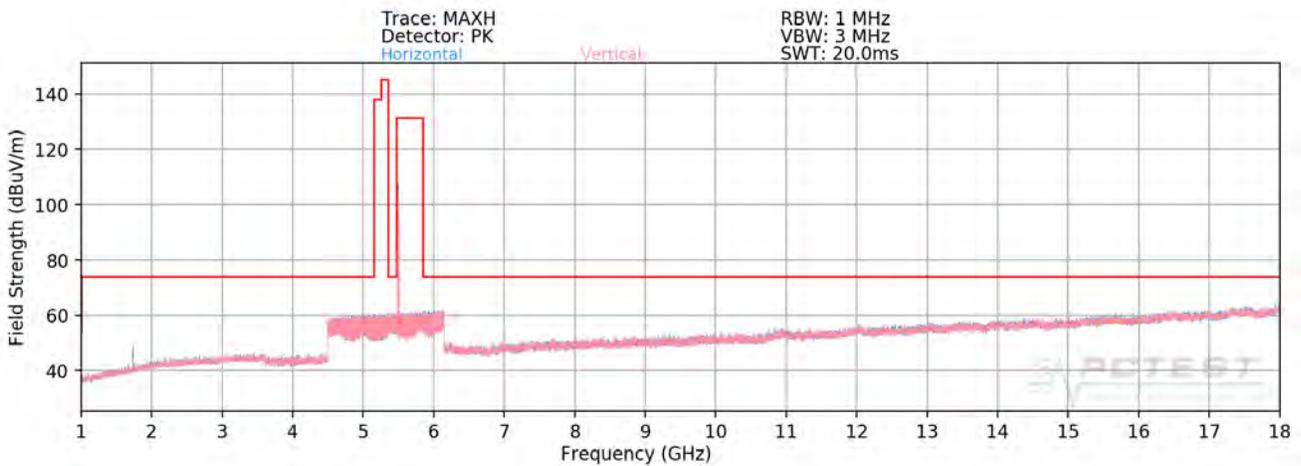
242 Tones



Plot 7-655. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones)

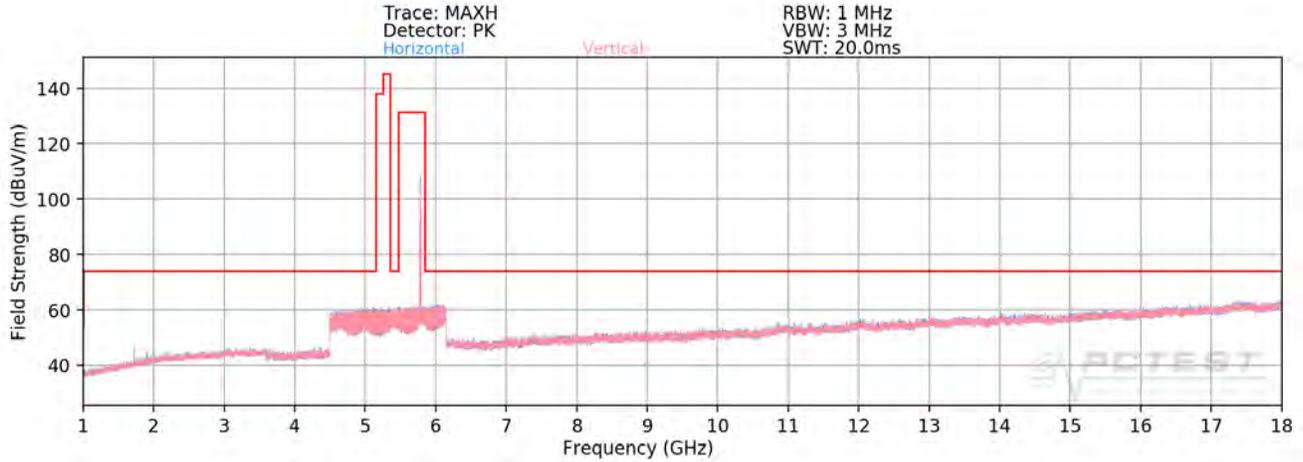


Plot 7-656. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones)



Plot 7-657. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones)

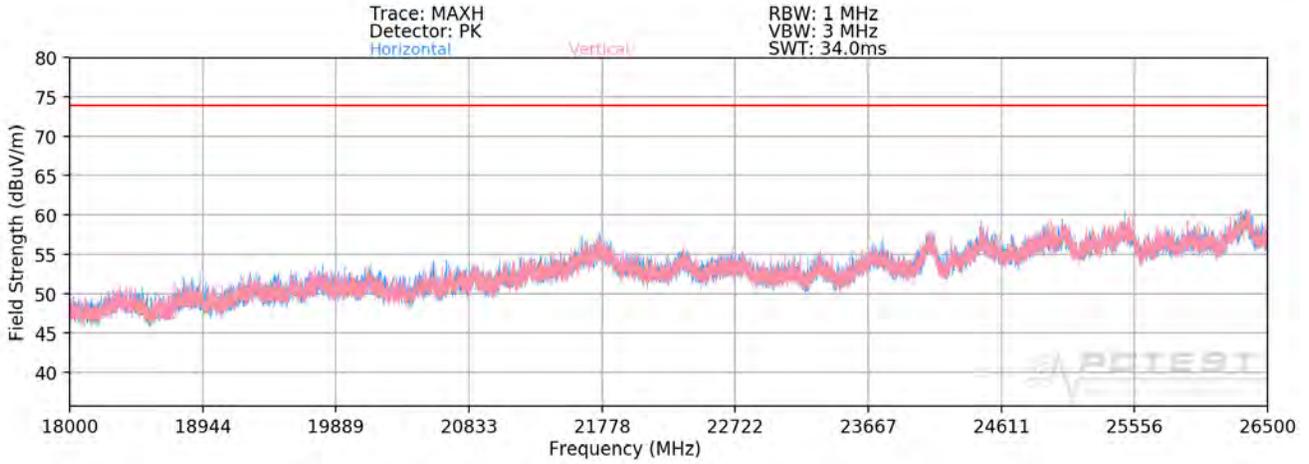
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 454 of 516



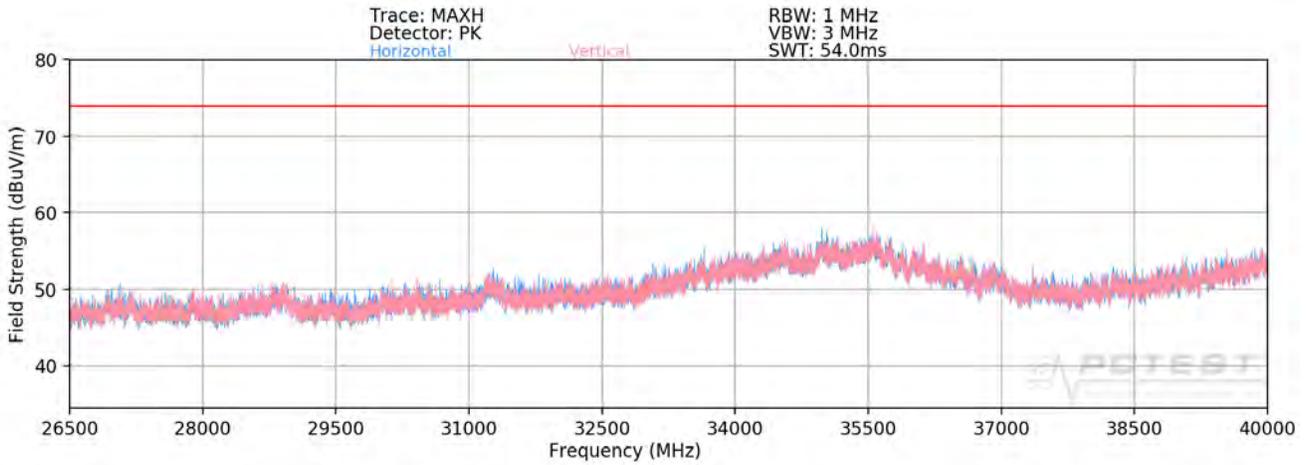
Plot 7-658. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 455 of 516	

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-659. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones)



Plot 7-660. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 456 of 516	

MIMO Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	H	-	-	-73.21	18.99	0.00	52.78	68.20	-15.42
* 15540.00	Average	H	-	-	-84.97	27.73	0.00	49.76	53.98	-4.22
* 15540.00	Peak	H	-	-	-74.68	27.73	0.00	60.05	73.98	-13.93
* 20720.00	Average	H	-	-	-77.83	16.92	-9.54	36.55	53.98	-17.43
* 20720.00	Peak	H	-	-	-66.40	16.92	-9.54	47.98	73.98	-26.00
25900.00	Peak	H	-	-	-65.20	19.39	-9.54	51.65	68.20	-16.55

Table 7-198. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	H	-	-	-71.08	19.36	0.00	55.28	68.20	-12.92
* 15600.00	Average	H	-	-	-85.39	27.61	0.00	49.22	53.98	-4.76
* 15600.00	Peak	H	-	-	-74.97	27.61	0.00	59.64	73.98	-14.34
* 20800.00	Average	H	-	-	-77.92	17.39	-9.54	36.92	53.98	-17.05
* 20800.00	Peak	H	-	-	-66.94	17.39	-9.54	47.90	73.98	-26.07
26000.00	Peak	H	-	-	-65.39	19.98	-9.54	52.04	68.20	-16.16

Table 7-199. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 457 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

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]
10480.00	Peak	H	-	-	-72.28	19.72	0.00	54.44	68.20	-13.76
* 15720.00	Average	H	-	-	-84.97	27.41	0.00	49.44	53.98	-4.54
* 15720.00	Peak	H	-	-	-75.36	27.41	0.00	59.05	73.98	-14.93
* 20960.00	Average	H	-	-	-77.81	17.29	-9.54	36.94	53.98	-17.04
* 20960.00	Peak	H	-	-	-66.67	17.29	-9.54	48.08	73.98	-25.90
26200.00	Peak	H	-	-	-65.19	19.80	-9.54	52.07	68.20	-16.13

Table 7-200. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	H	-	-	-74.08	18.99	0.00	51.91	68.20	-16.29
* 15540.00	Average	H	-	-	-85.37	27.73	0.00	49.36	53.98	-4.62
* 15540.00	Peak	H	-	-	-75.68	27.73	0.00	59.05	73.98	-14.93
* 20720.00	Average	H	-	-	-77.79	17.29	-9.54	36.96	53.98	-17.02
* 20720.00	Peak	H	-	-	-66.84	17.29	-9.54	47.91	73.98	-26.07
25900.00	Peak	H	-	-	-65.29	19.80	-9.54	51.97	68.20	-16.23

Table 7-201. Radiated Measurements MIMO With WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 458 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10520.00	Peak	H	-	-	-73.57	19.44	0.00	52.87	68.20	-15.33
* 15780.00	Average	H	-	-	-84.55	27.10	0.00	49.55	53.98	-4.43
* 15780.00	Peak	H	-	-	-74.06	27.10	0.00	60.04	73.98	-13.94
* 21040.00	Average	H	-	-	-77.52	17.32	-9.54	37.26	53.98	-16.72
* 21040.00	Peak	H	-	-	-66.65	17.32	-9.54	48.13	73.98	-25.85
26300.00	Peak	H	-	-	-64.44	20.12	-9.54	53.14	68.20	-15.06

Table 7-202. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

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]
10560.00	Peak	H	-	-	-74.67	19.62	0.00	51.95	68.20	-16.25
* 15840.00	Average	H	-	-	-84.78	27.05	0.00	49.27	53.98	-4.71
* 15840.00	Peak	H	-	-	-75.31	27.05	0.00	58.74	73.98	-15.24
* 21120.00	Average	H	-	-	-77.41	17.26	-9.54	37.31	53.98	-16.67
* 21120.00	Peak	H	-	-	-66.49	17.26	-9.54	48.23	73.98	-25.75
26400.00	Peak	H	-	-	-65.10	19.67	-9.54	52.03	68.20	-16.17

Table 7-203. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 459 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	H	-	-	-84.57	19.97	0.00	42.40	53.98	-11.58
* 10640.00	Peak	H	-	-	-72.64	19.97	0.00	54.33	73.98	-19.65
* 15960.00	Average	H	-	-	-84.82	27.35	0.00	49.53	53.98	-4.45
* 15960.00	Peak	H	-	-	-75.30	27.35	0.00	59.05	73.98	-14.93
* 21280.00	Average	H	-	-	-77.58	17.51	-9.54	37.39	53.98	-16.59
* 21280.00	Peak	H	-	-	-66.38	17.51	-9.54	48.59	73.98	-25.39
26600.00	Peak	H	-	-	-49.31	1.44	-9.54	49.59	68.20	-18.61

Table 7-204. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

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]
10520.00	Peak	V	-	-	-74.24	19.44	0.00	52.20	68.20	-16.00
* 15780.00	Average	V	-	-	-83.41	27.10	0.00	50.69	53.98	-3.29
* 15780.00	Peak	V	-	-	-73.87	27.10	0.00	60.23	73.98	-13.75
* 21040.00	Average	V	-	-	-77.63	17.32	-9.54	37.15	53.98	-16.83
* 21040.00	Peak	V	-	-	-66.49	17.32	-9.54	48.29	73.98	-25.69
26300.00	Peak	V	-	-	-64.81	20.12	-9.54	52.77	68.20	-15.43

Table 7-205. Radiated Measurements MIMO with WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 460 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	H	-	-	-84.68	20.31	0.00	42.63	53.98	-11.35
* 11000.00	Peak	H	-	-	-75.21	20.31	0.00	52.10	73.98	-21.88
16500.00	Peak	H	-	-	-73.67	28.49	0.00	61.82	68.20	-6.38
22000.00	Peak	H	-	-	-66.37	18.25	-9.54	49.34	68.20	-18.86
27500.00	Peak	H	-	-	-48.80	0.12	-9.54	48.78	68.20	-19.42

Table 7-206. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	-	-	-84.79	19.97	0.00	42.18	53.98	-11.80
* 11200.00	Peak	H	-	-	-75.34	19.97	0.00	51.63	73.98	-22.35
16800.00	Peak	H	-	-	-74.61	28.82	0.00	61.21	68.20	-6.99
* 22400.00	Average	H	-	-	-77.65	19.00	-9.54	38.81	53.98	-15.17
* 22400.00	Peak	H	-	-	-66.78	19.00	-9.54	49.68	73.98	-24.30
28000.00	Peak	H	-	-	-48.52	0.74	-9.54	49.67	68.20	-18.53

Table 7-207. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 461 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

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]
* 11440.00	Average	H	-	-	-85.96	20.26	0.00	41.30	53.98	-12.68
* 11440.00	Peak	H	-	-	-74.37	20.26	0.00	52.89	73.98	-21.09
17160.00	Peak	H	-	-	-75.64	29.62	0.00	60.98	68.20	-7.22
* 22880.00	Average	H	-	-	-77.29	18.40	-9.54	38.57	53.98	-15.41
* 22880.00	Peak	H	-	-	-66.40	18.40	-9.54	49.46	73.98	-24.52
28600.00	Peak	H	-	-	-48.53	0.41	-9.54	49.34	68.20	-18.86

Table 7-208. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	H	-	-	-85.21	20.31	0.00	42.10	53.98	-11.88
* 11000.00	Peak	H	-	-	-76.31	20.31	0.00	51.00	73.98	-22.98
16500.00	Peak	H	-	-	-74.38	28.49	0.00	61.11	68.20	-7.09
22000.00	Peak	H	-	-	-66.56	19.00	-9.54	49.90	68.20	-18.30
27500.00	Peak	H	-	-	-48.32	0.74	-9.54	49.87	68.20	-18.33

Table 7-209. Radiated Measurements MIMO with WCP (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 462 of 516	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 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]
* 11490.00	Average	H	-	-	-85.34	20.36	0.00	42.02	53.98	-11.96
* 11490.00	Peak	H	-	-	-74.37	20.36	0.00	52.99	73.98	-20.99
17235.00	Peak	H	-	-	-74.61	29.51	0.00	61.90	68.20	-6.30
* 22980.00	Average	H	-	-	-77.88	17.92	-9.54	37.50	53.98	-16.48
* 22980.00	Peak	H	-	-	-66.42	17.92	-9.54	48.96	73.98	-25.02
28725.00	Peak	H	-	-	-49.17	0.67	-9.54	48.96	69.20	-20.24

Table 7-210. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	-	-	-84.31	21.02	0.00	43.71	53.98	-10.27
* 11570.00	Peak	H	-	-	-75.38	21.02	0.00	52.64	73.98	-21.34
17355.00	Peak	H	-	-	-74.06	29.63	0.00	62.57	68.20	-5.63
23140.00	Peak	H	-	-	-66.68	18.32	-9.54	49.10	68.20	-19.10
28925.00	Peak	H	-	-	-48.38	0.75	-9.54	49.83	68.20	-18.37

Table 7-211. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	H	-	-	-84.37	21.21	0.00	43.84	53.98	-10.14
* 11650.00	Peak	H	-	-	-75.37	21.21	0.00	52.84	73.98	-21.14
17475.00	Peak	H	-	-	-74.30	29.76	0.00	62.46	68.20	-5.74
23300.00	Peak	H	-	-	-66.46	18.77	-9.54	49.77	68.20	-18.43
29125.00	Peak	H	-	-	-48.98	-0.12	-9.54	48.36	68.20	-19.84

Table 7-212. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	-	-	-83.97	21.02	0.00	44.05	53.98	-9.93
* 11570.00	Peak	H	-	-	-74.61	21.02	0.00	53.41	73.98	-20.57
17355.00	Peak	H	-	-	-73.49	29.63	0.00	63.14	68.20	-5.06
23140.00	Peak	H	-	-	-66.39	18.32	-9.54	49.39	68.20	-18.81
28925.00	Peak	H	-	-	-48.87	0.75	-9.54	49.34	68.20	-18.86

Table 7-213. Radiated Measurements MIMO with WCP (242 Tones)

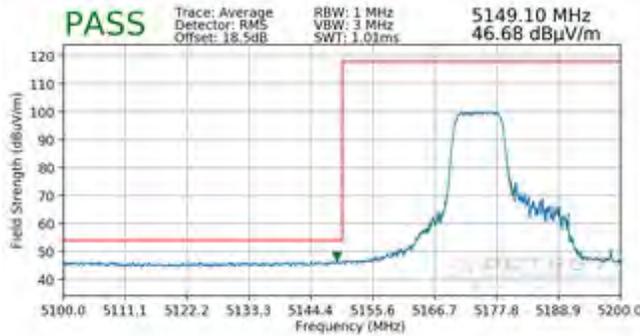
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 464 of 516	

7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

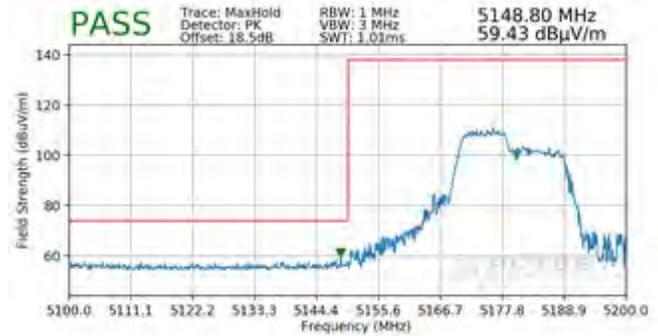
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

106 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

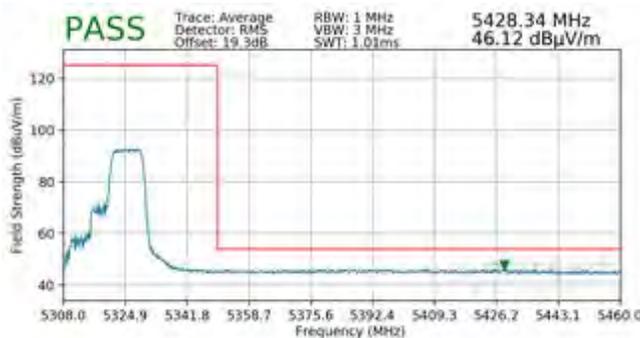


Plot 7-661. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 106 Tones)

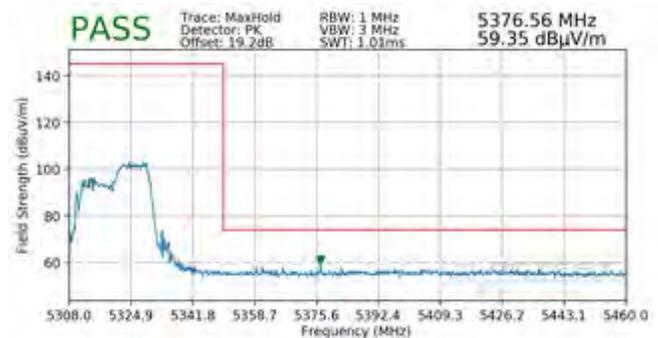


Plot 7-662. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



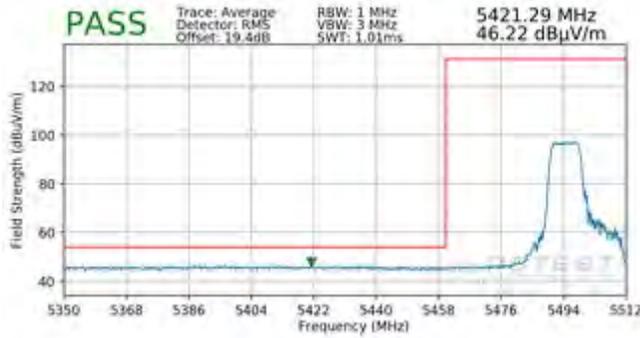
Plot 7-663. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 106 Tones)



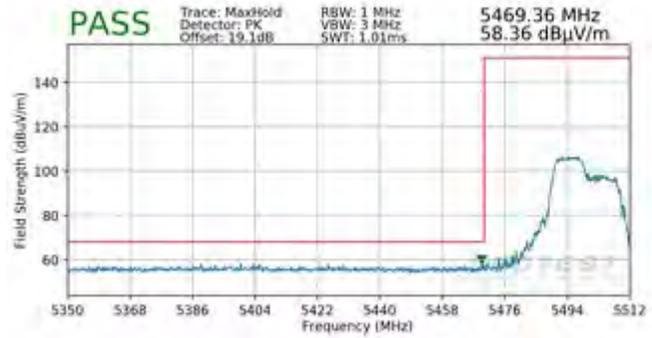
Plot 7-664. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

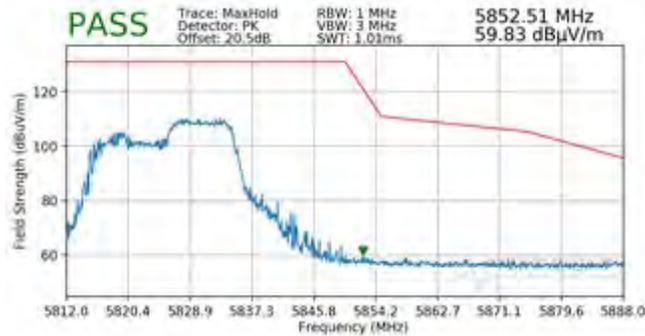


Plot 7-665. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 106 Tones)



Plot 7-666. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 106 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

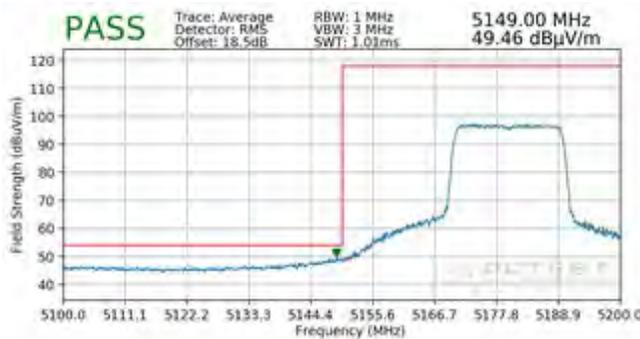


Plot 7-667. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 106 Tones)

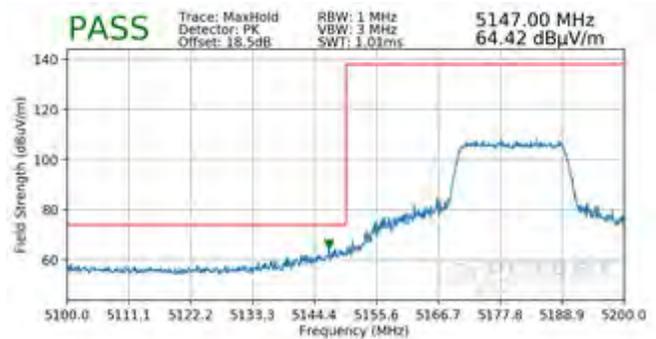
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

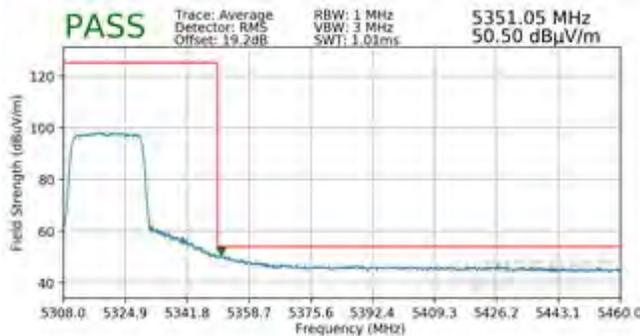


Plot 7-668. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)

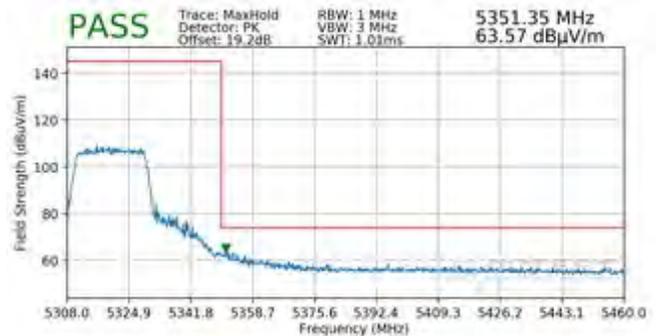


Plot 7-669. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



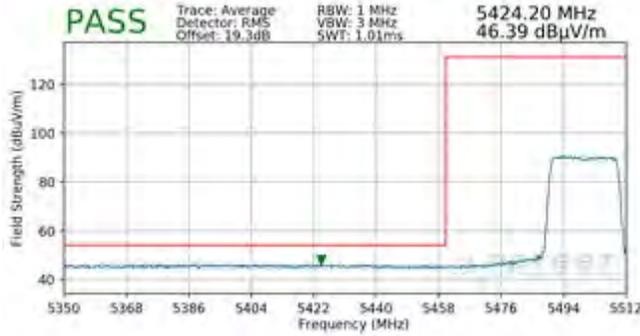
Plot 7-670. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 242 Tones)



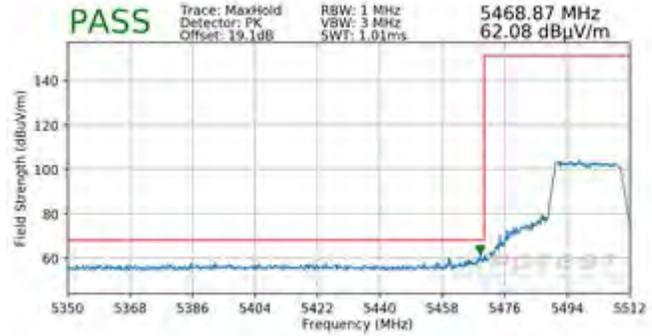
Plot 7-671. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 467 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

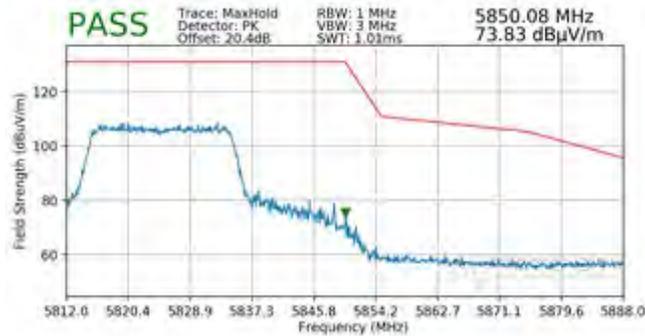


Plot 7-672. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 242 Tones)



Plot 7-673. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 242 Tones)

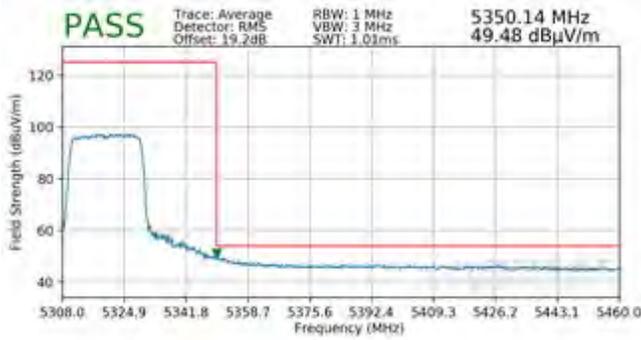
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



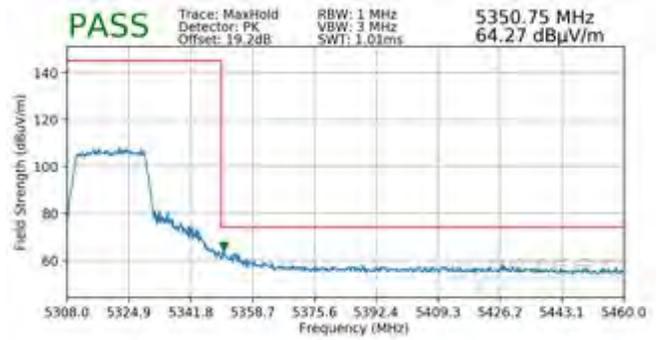
Plot 7-674. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 468 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



**Plot 7-675. Radiated Band Edge Plot SISO ANT1
(Average – WCP – 242 Tones)**



**Plot 7-676. Radiated Band Edge Plot SISO ANT1
(Peak – WCP – 242 Tones)**

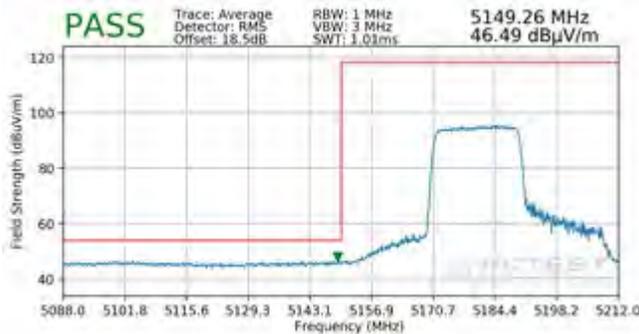
FCC ID: A3LSMG975U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 469 of 516

7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW)

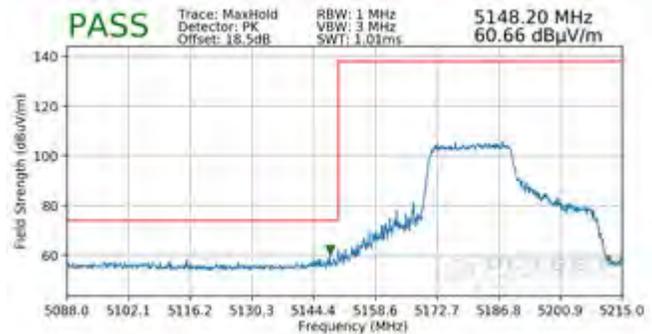
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

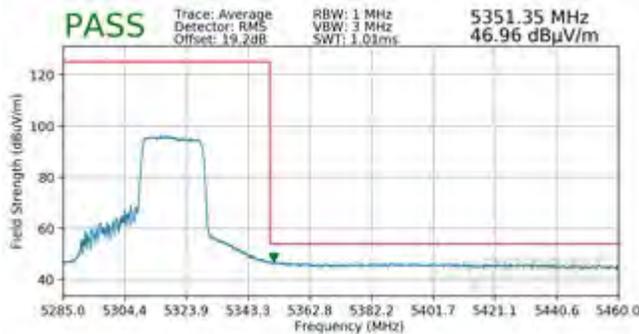


Plot 7-677. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)

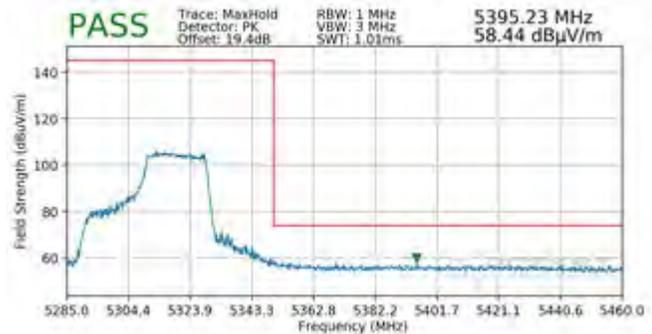


Plot 7-678. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	62
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-679. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 242 Tones)



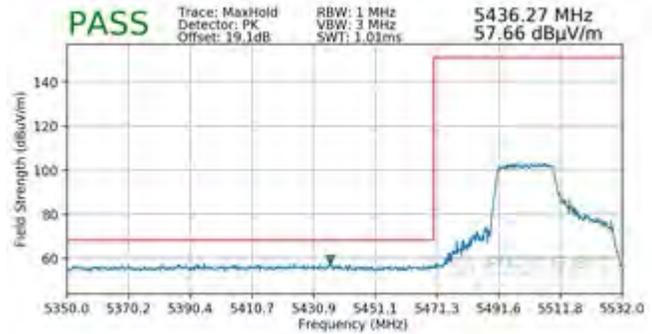
Plot 7-680. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 470 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

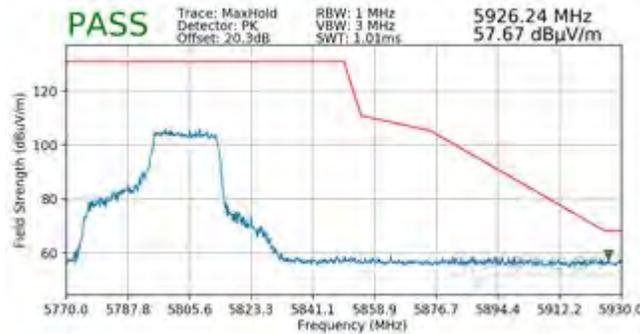


Plot 7-681. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 242 Tones)



Plot 7-682. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 62
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159

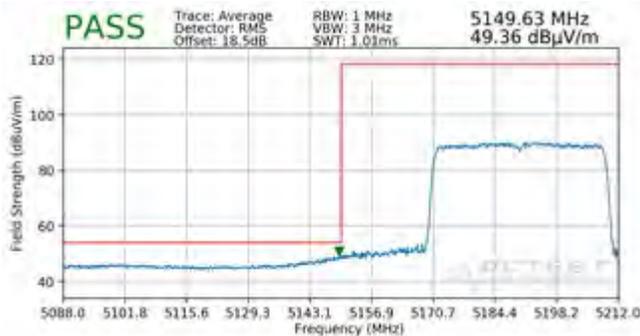


Plot 7-683. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 242 Tones)

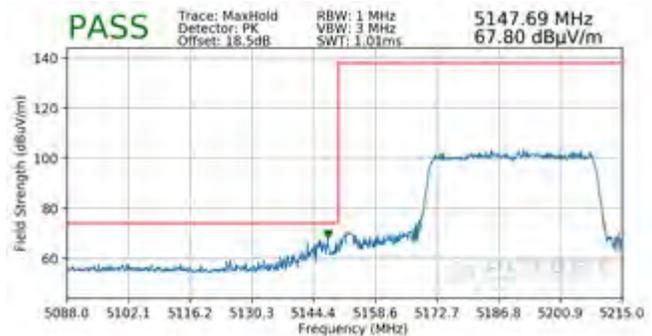
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 471 of 516

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

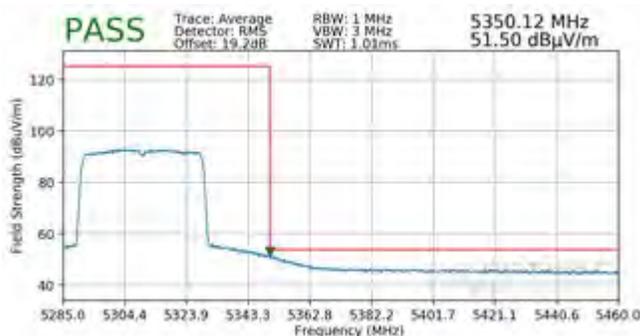


Plot 7-684. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

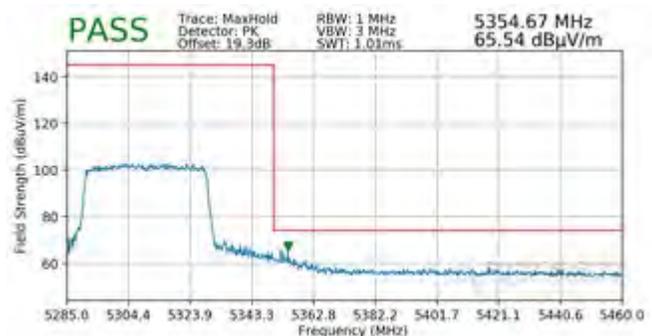


Plot 7-685. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-686. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)



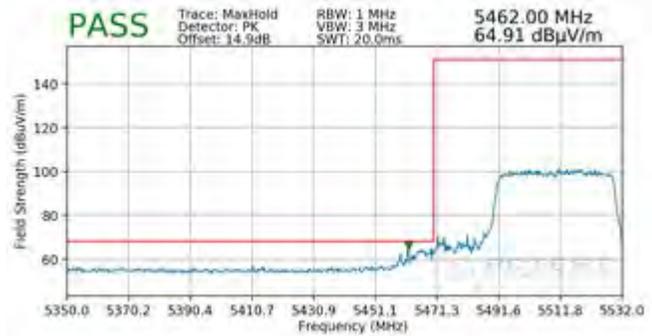
Plot 7-687. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 472 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

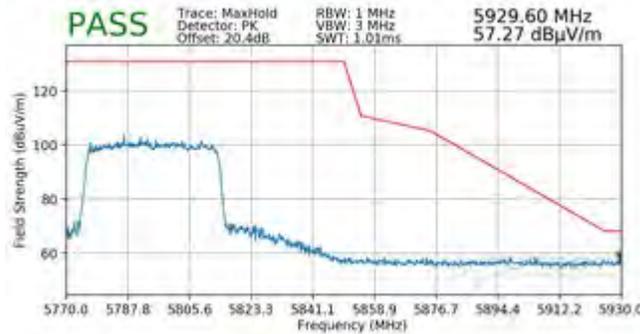


Plot 7-688. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 484 Tones)



Plot 7-689. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 484 Tones)

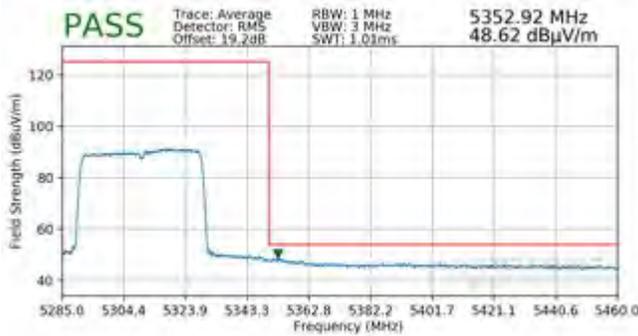
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



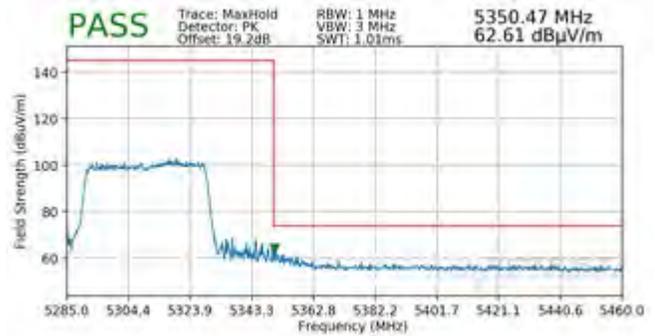
Plot 7-690. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 484 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 473 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



Plot 7-691. Radiated Band Edge Plot SISO ANT1 (Average – WCP – 484 Tones)



Plot 7-692. Radiated Band Edge Plot SISO ANT1 (Peak – WCP – 484 Tones)

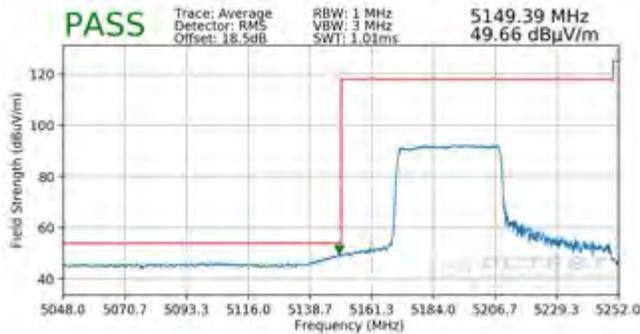
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 474 of 516	

7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

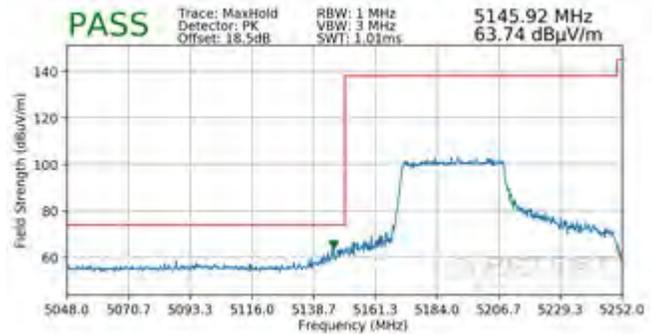
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

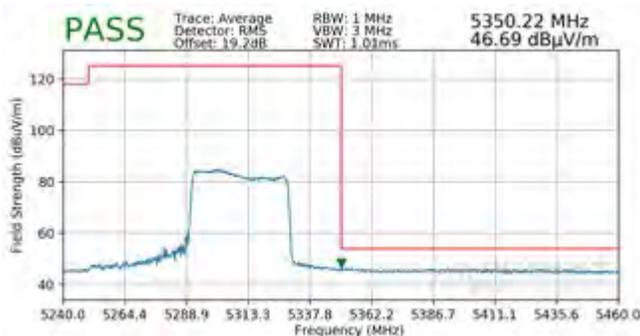


Plot 7-693. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

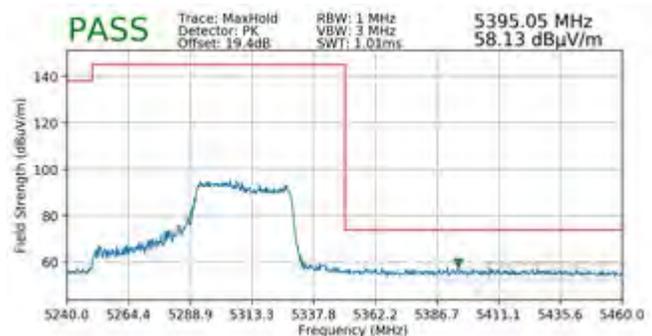


Plot 7-694. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	66
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



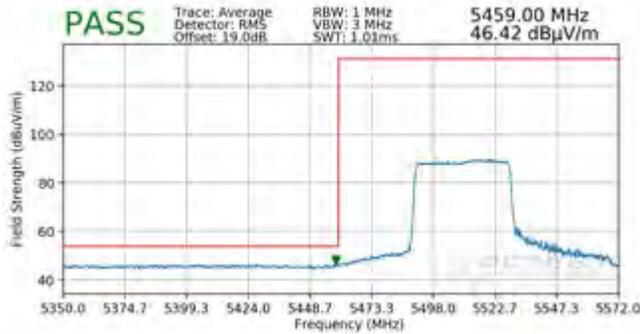
Plot 7-695. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)



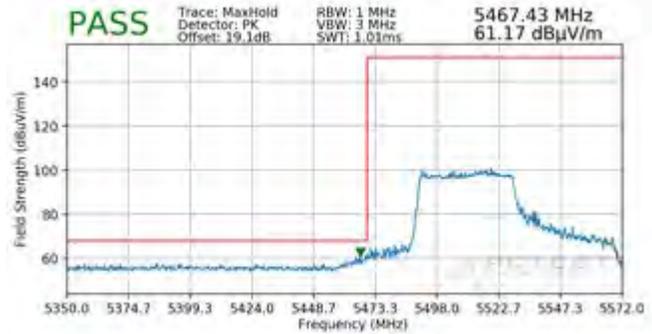
Plot 7-696. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 475 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

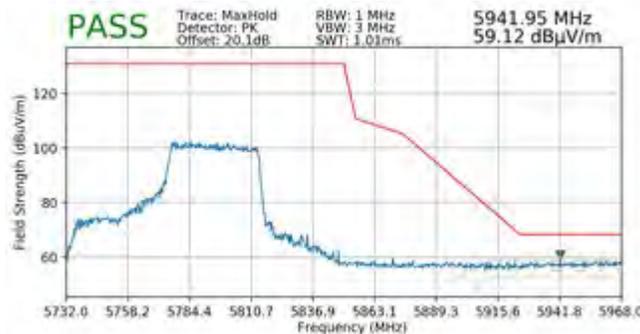


Plot 7-697. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 484 Tones)



Plot 7-698. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 66
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155

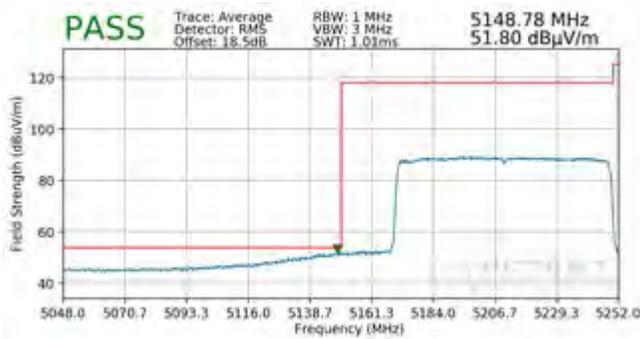


Plot 7-699. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 484 Tones)

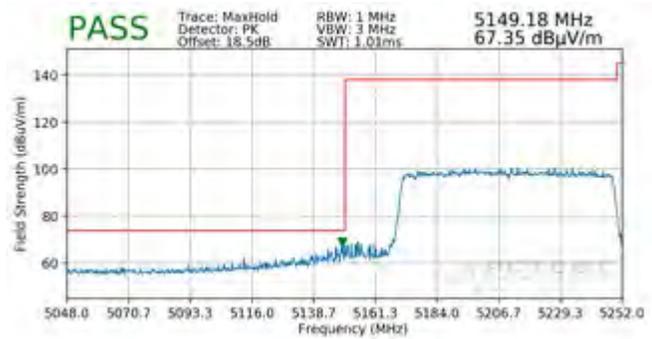
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 476 of 516

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

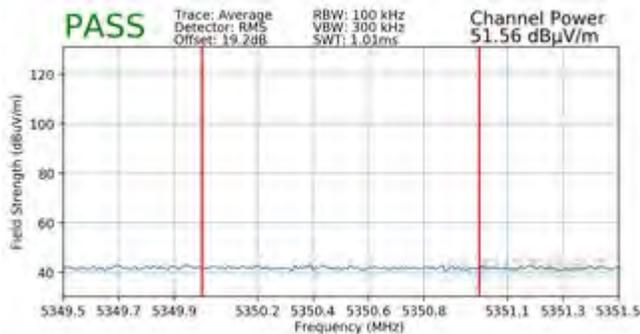


Plot 7-700. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 996 Tones)

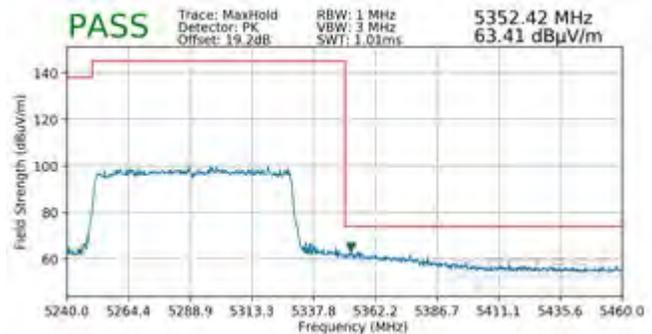


Plot 7-701. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



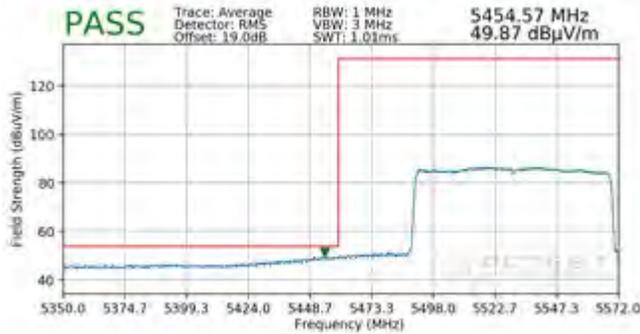
Plot 7-702. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)



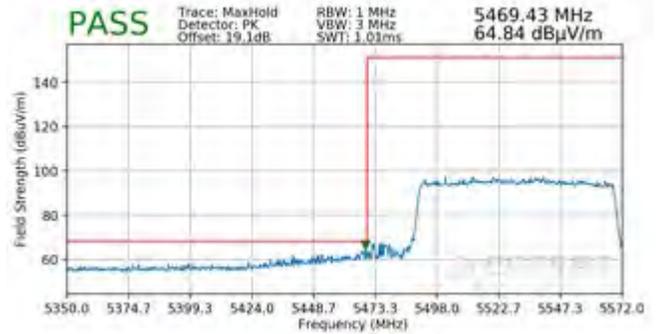
Plot 7-703. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 477 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

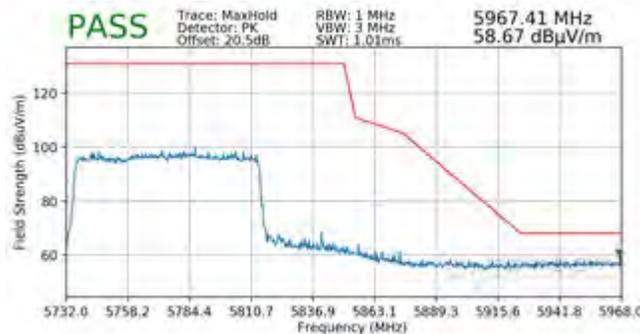


Plot 7-704. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-705. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 996 Tones)

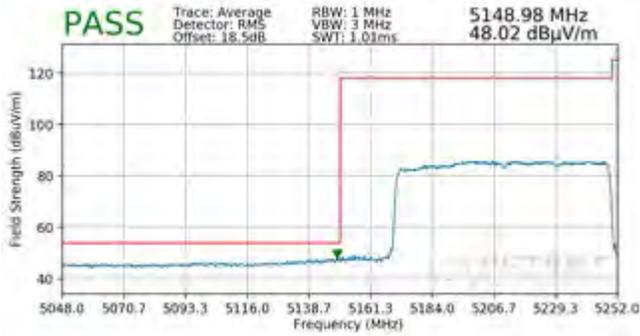
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



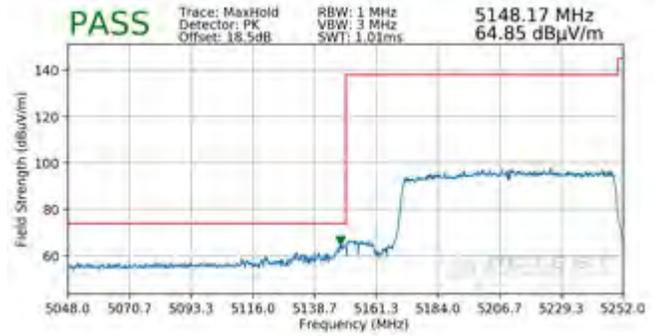
Plot 7-706. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 478 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



Plot 7-707. Radiated Band Edge Plot SISO ANT1 (Average – WCP – 996 Tones)



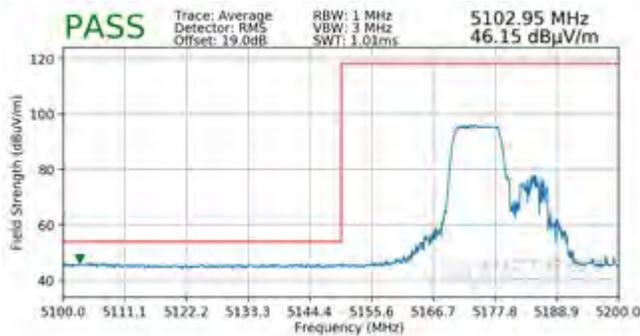
Plot 7-708. Radiated Band Edge Plot SISO ANT1 (Peak – WCP – 996 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 479 of 516	

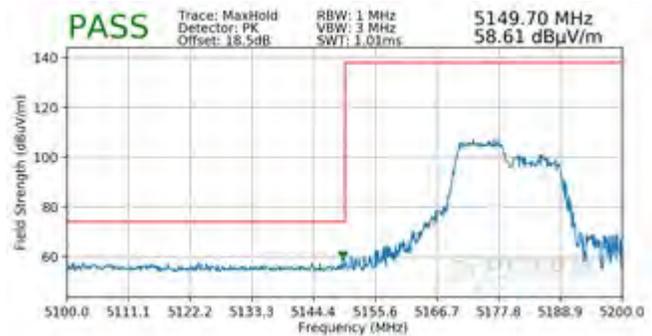
7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]
106 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

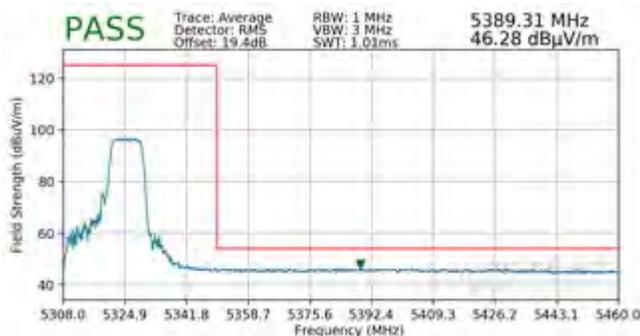


Plot 7-709. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 106 Tones)

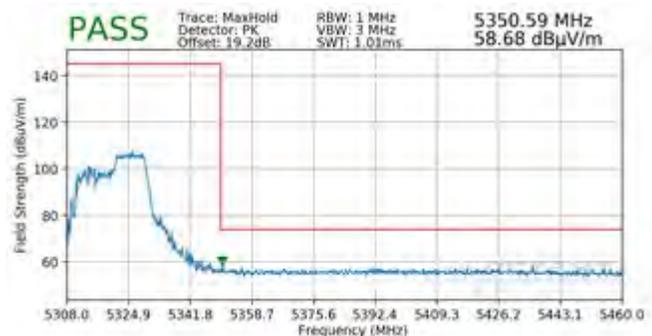


Plot 7-710. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



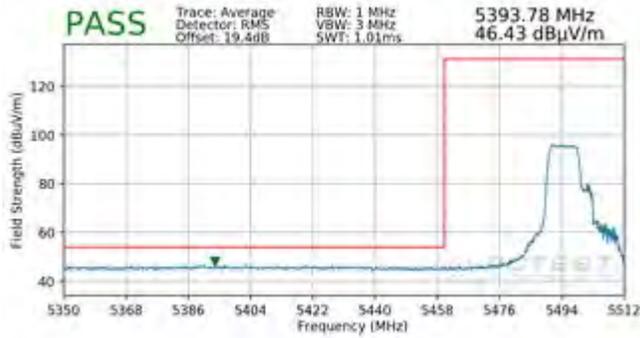
Plot 7-711. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 106 Tones)



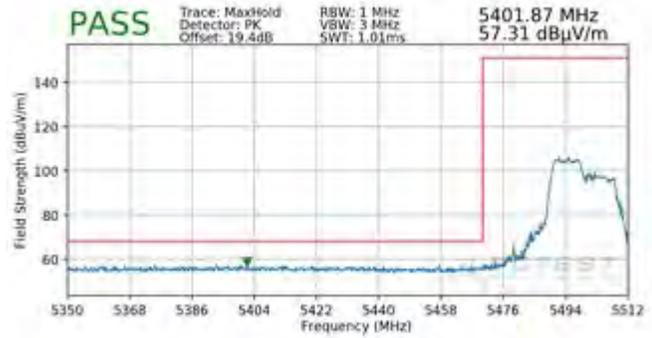
Plot 7-712. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 106 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 480 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

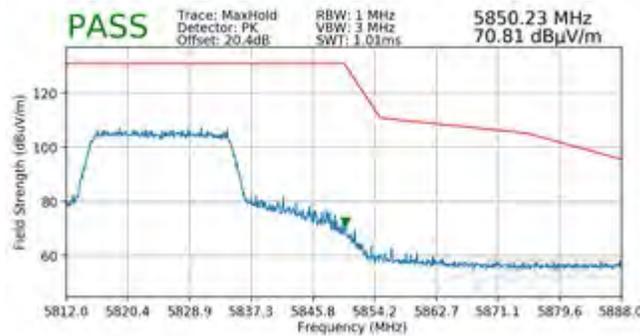


Plot 7-713. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 106 Tones)



Plot 7-714. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 106 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

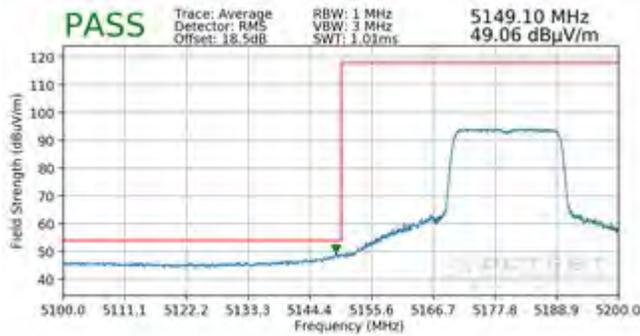


Plot 7-715. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 106 Tones)

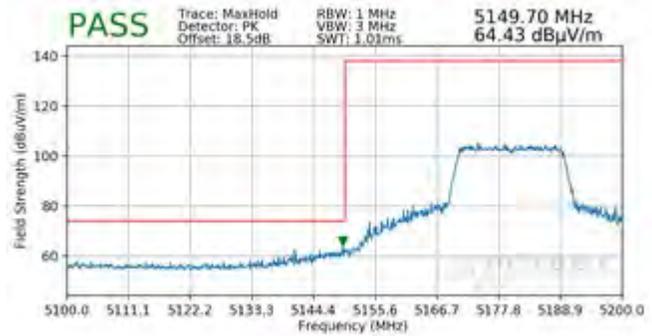
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 481 of 516

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

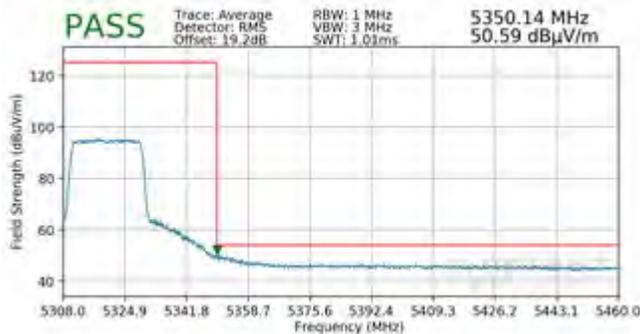


Plot 7-716. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)

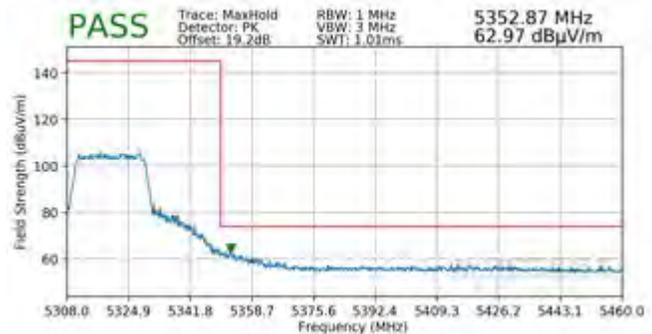


Plot 7-717. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



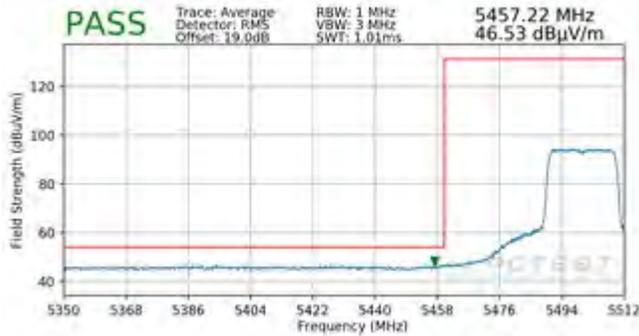
Plot 7-718. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)



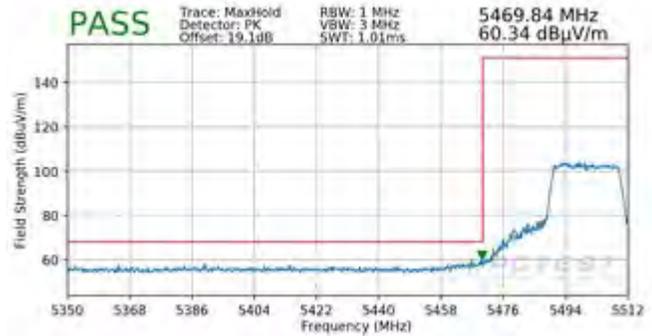
Plot 7-719. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 482 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

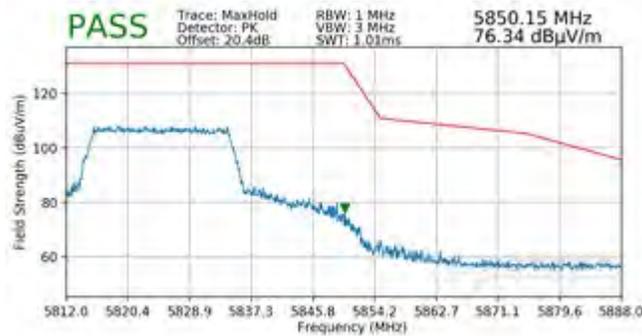


Plot 7-720. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-721. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 242 Tones)

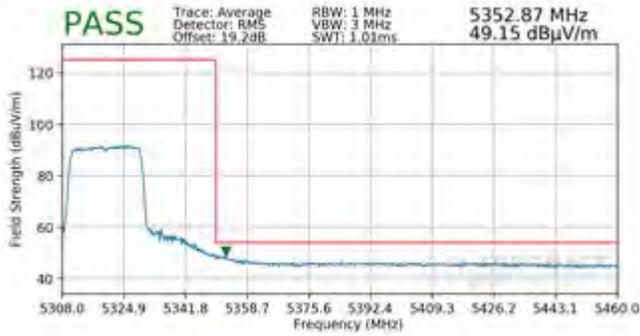
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



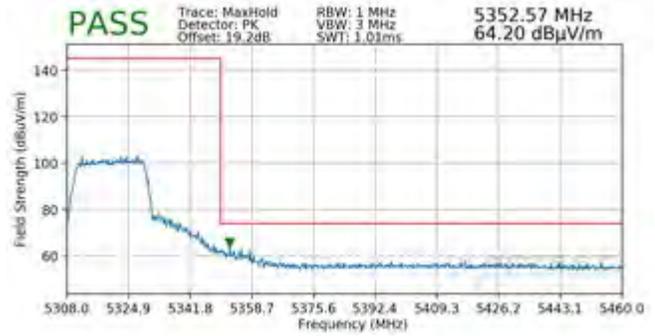
Plot 7-722. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 483 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



Plot 7-723. Radiated Band Edge Plot SISO ANT2 (Average – WCP – 242 Tones)



Plot 7-724. Radiated Band Edge Plot SISO ANT2 (Peak – WCP – 242 Tones)

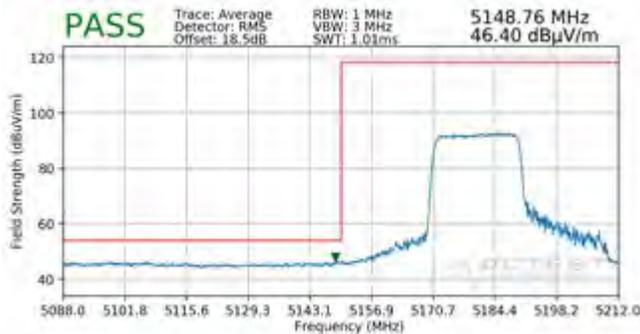
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 484 of 516	

7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

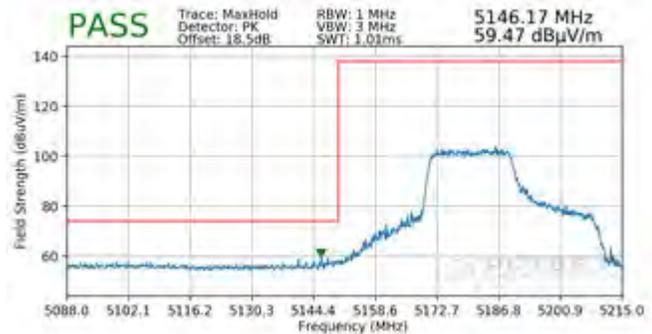
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

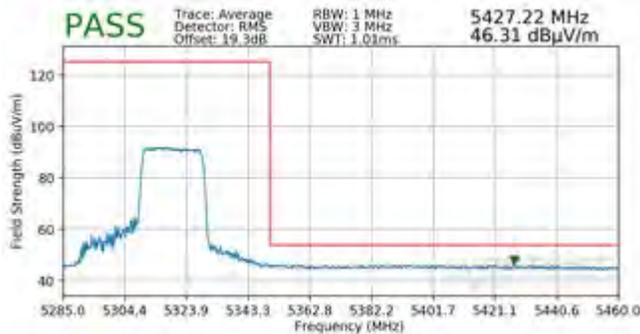


Plot 7-725. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)

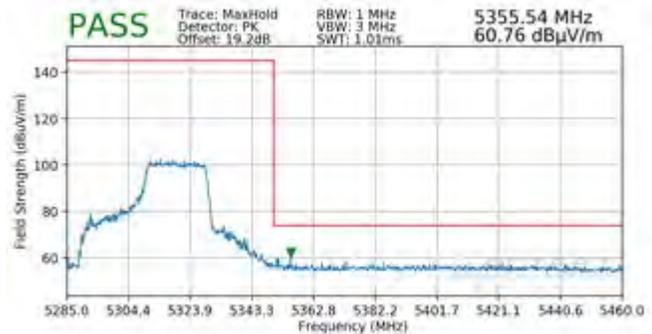


Plot 7-726. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	62
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



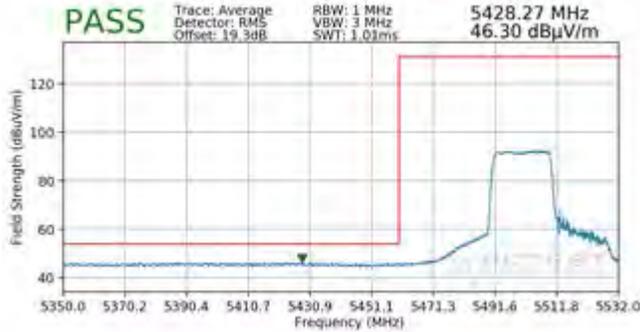
Plot 7-727. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)



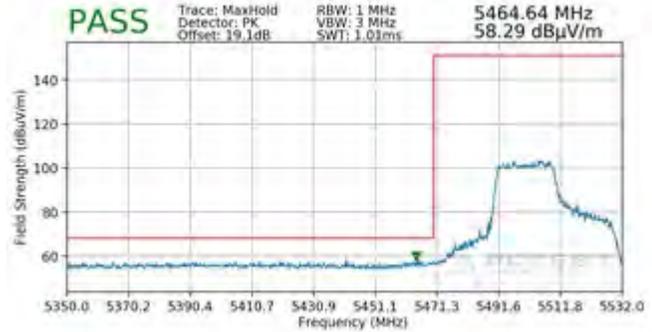
Plot 7-728. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 485 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

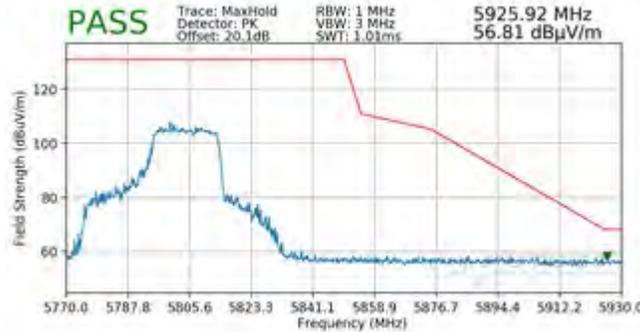


Plot 7-729. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-730. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 62
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159

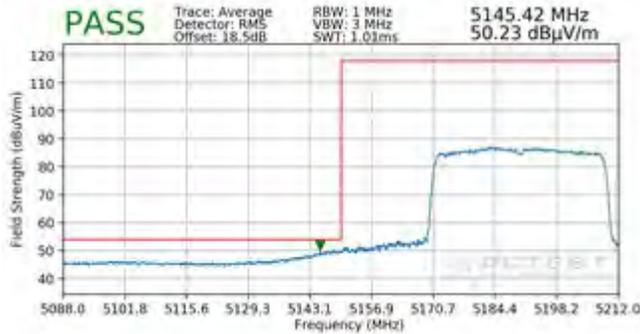


Plot 7-731. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

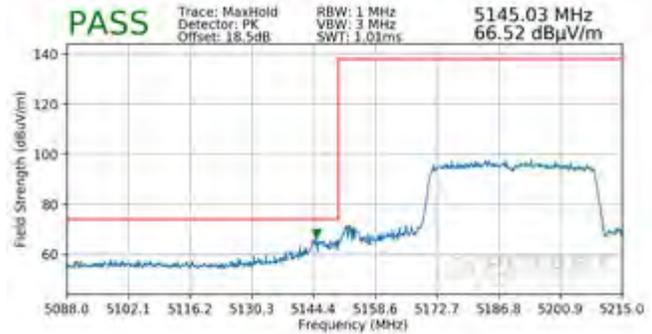
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 486 of 516

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

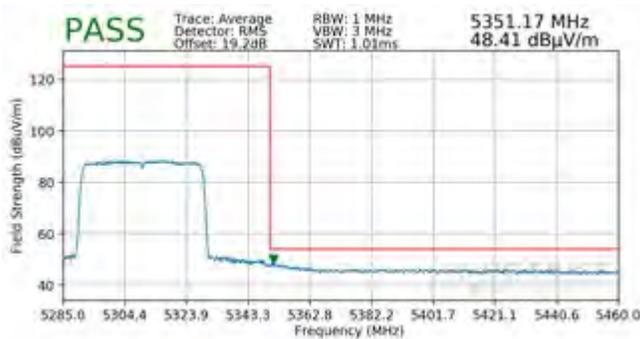


Plot 7-732. Radiated Band Edge Plot SISO ANT2 (Average – WCP – 484 Tones)

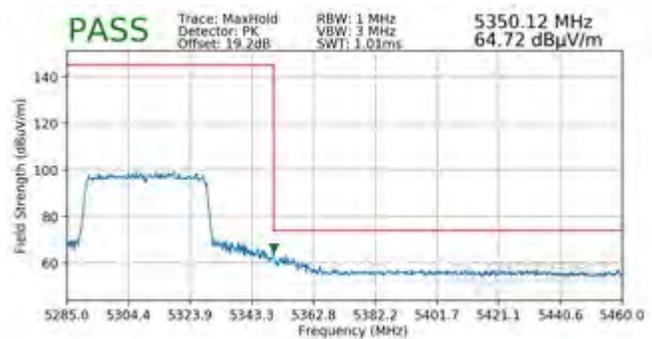


Plot 7-733. Radiated Band Edge Plot SISO ANT2 (Peak – WCP – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-734. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 484 Tones)



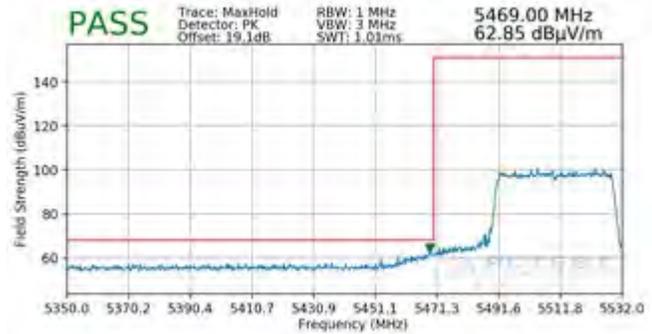
Plot 7-735. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 487 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

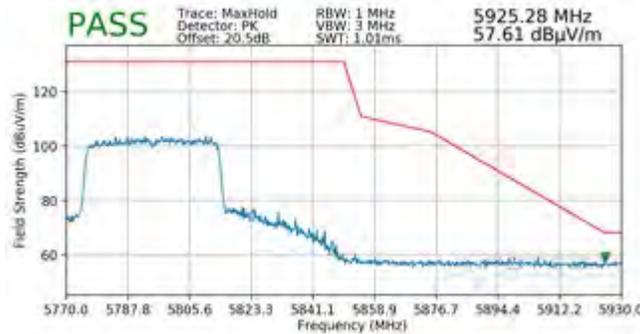


Plot 7-736. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 484 Tones)



Plot 7-737. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 484 Tones)

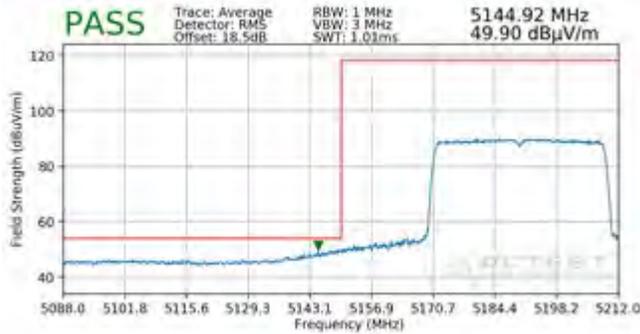
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



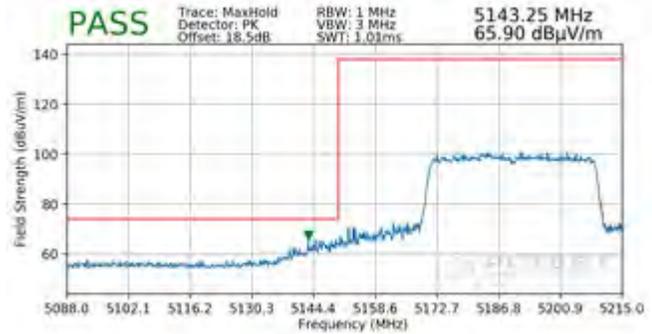
Plot 7-738. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 484 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 488 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



Plot 7-739. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 484 Tones)



Plot 7-740. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 484 Tones)

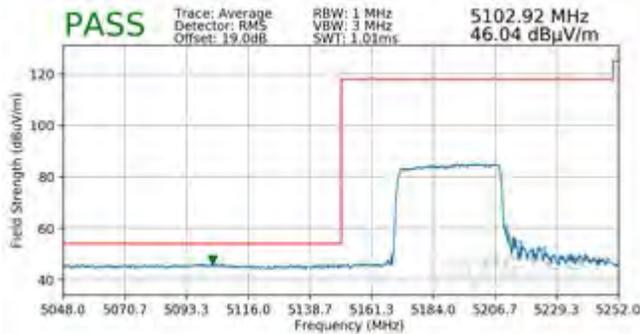
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 489 of 516	

7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW)

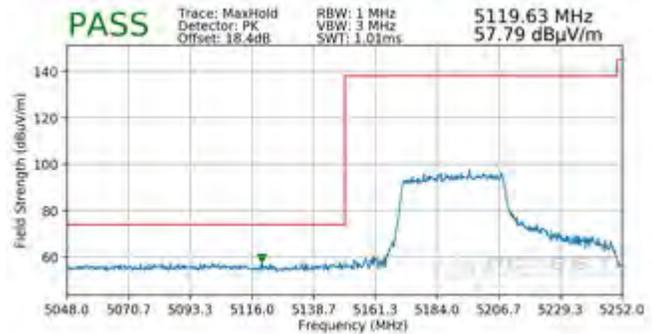
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

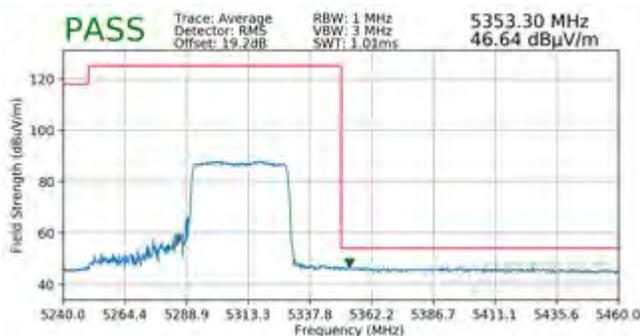


Plot 7-741. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 484 Tones)

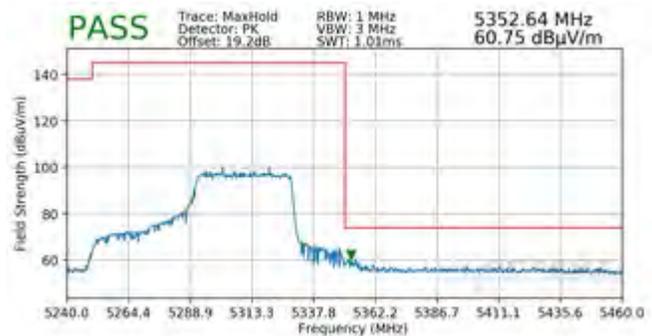


Plot 7-742. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	66
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



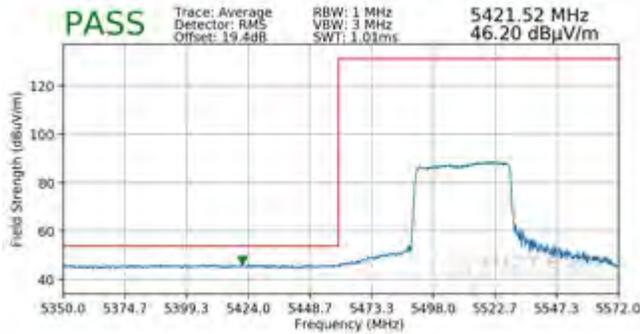
Plot 7-743. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 484 Tones)



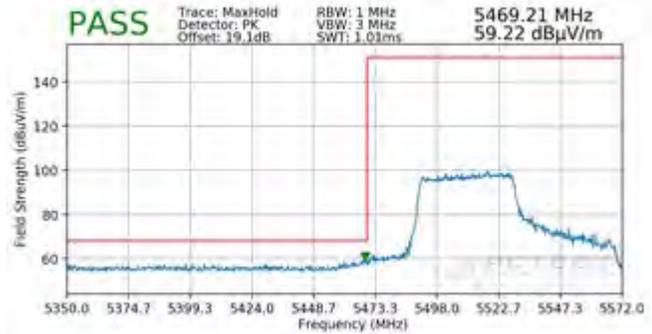
Plot 7-744. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 490 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

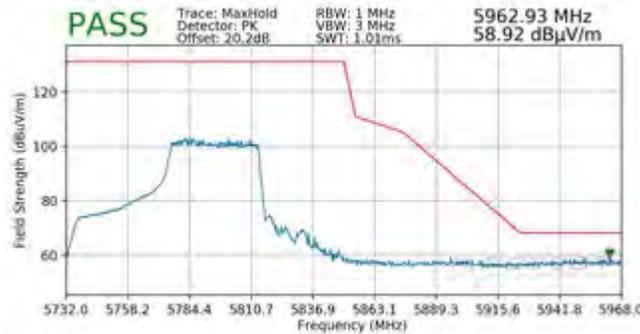


Plot 7-745. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 484 Tones)



Plot 7-746. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 66
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155

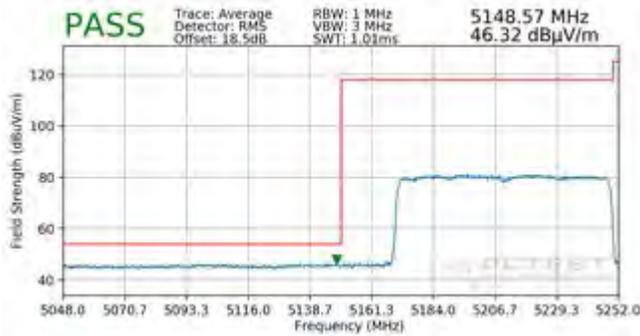


Plot 7-747. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 484 Tones)

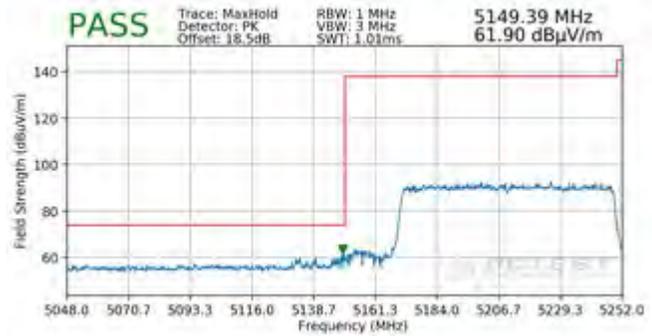
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 491 of 516

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

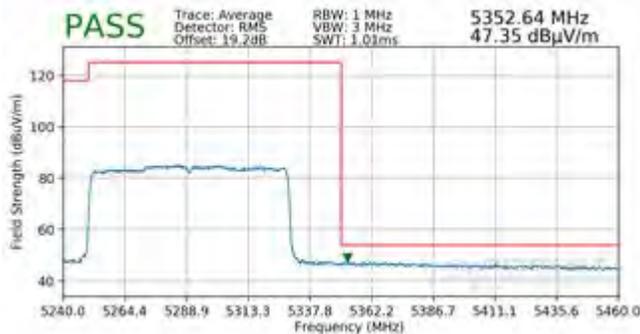


Plot 7-748. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 996 Tones)

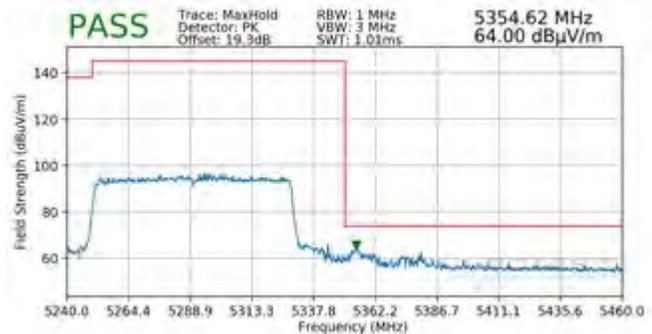


Plot 7-749. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



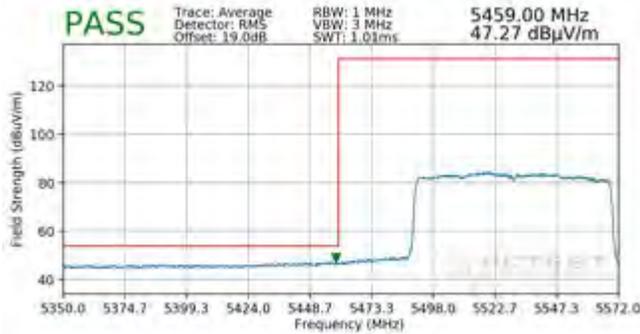
Plot 7-750. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 996 Tones)



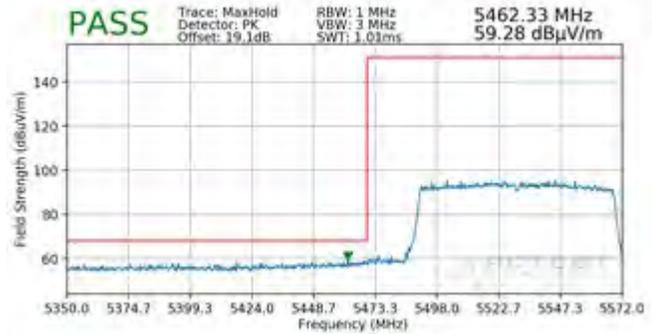
Plot 7-751. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 492 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

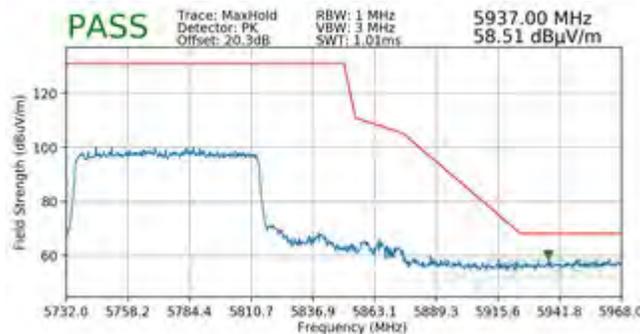


Plot 7-752. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 996 Tones)



Plot 7-753. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 996 Tones)

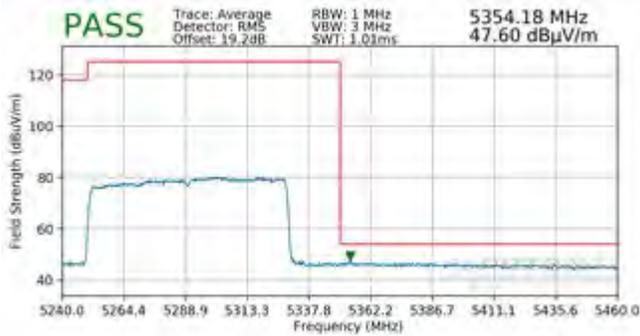
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



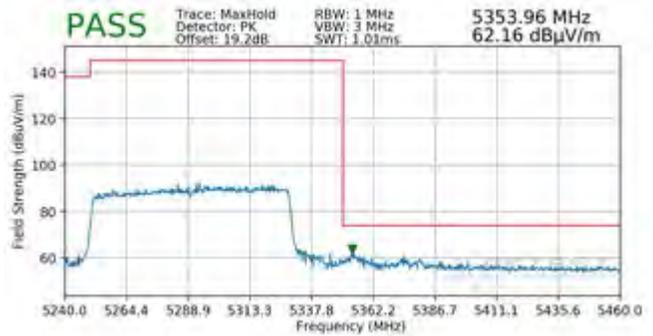
Plot 7-754. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 493 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



Plot 7-755. Radiated Band Edge Plot SISO ANT2 (Average – WCP – 996 Tones)



Plot 7-756. Radiated Band Edge Plot SISO ANT2 (Peak – WCP – 996 Tones)

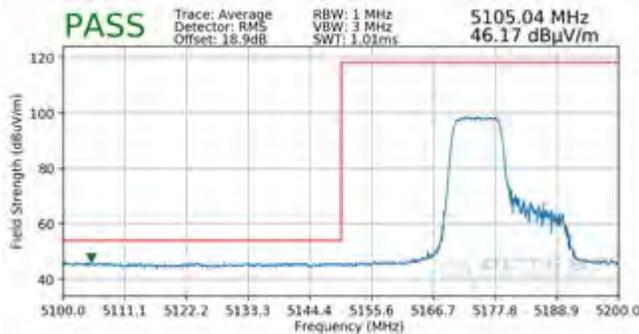
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 494 of 516

7.6.10 MIMO Radiated Band Edge Measurements (20MHz BW)

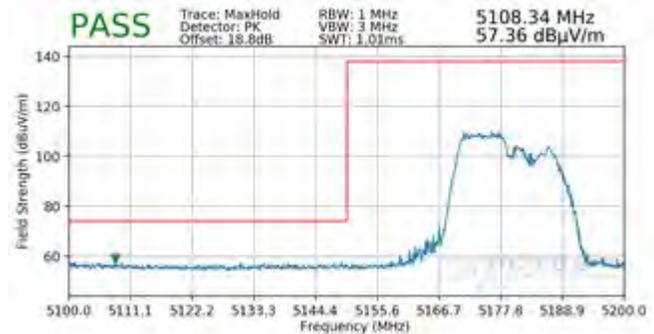
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

106 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

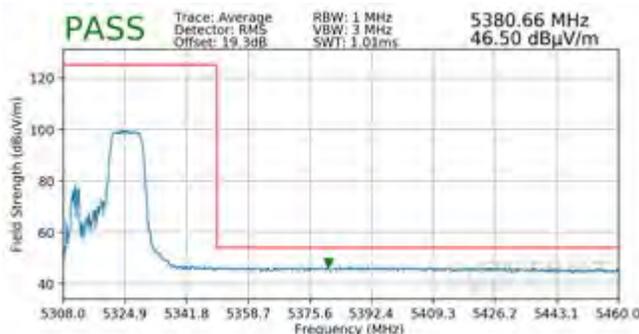


Plot 7-757. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 106 Tones)

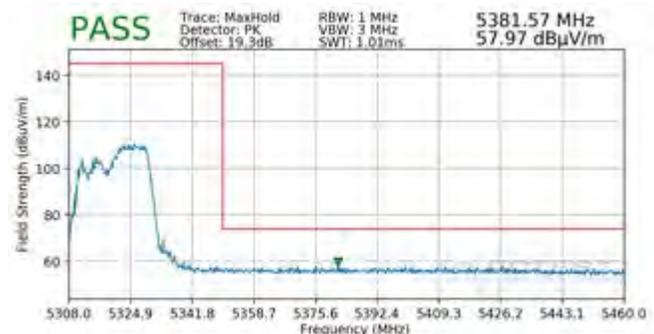


Plot 7-758. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



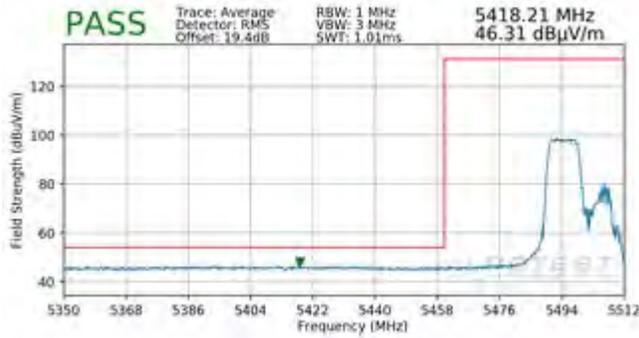
Plot 7-759. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 106 Tones)



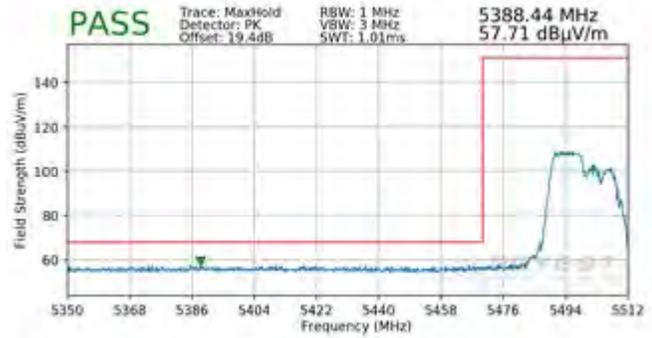
Plot 7-760. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 495 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

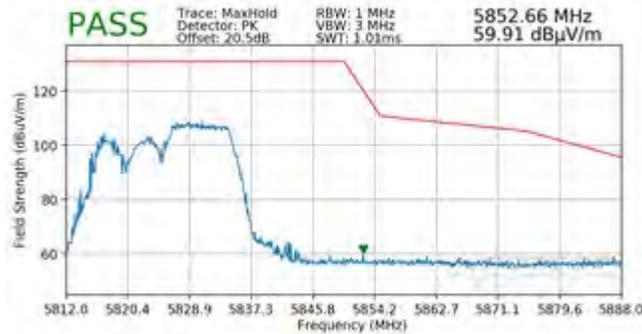


Plot 7-761. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 106 Tones)



Plot 7-762. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 106 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

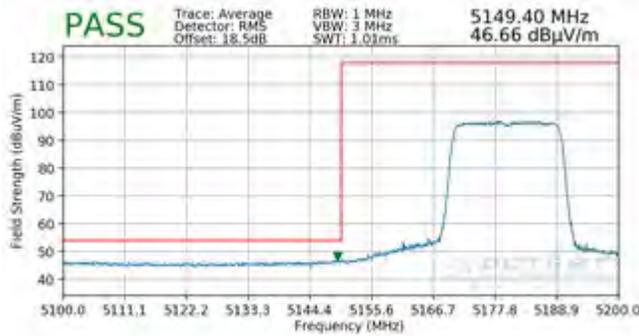


Plot 7-763. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 106 Tones)

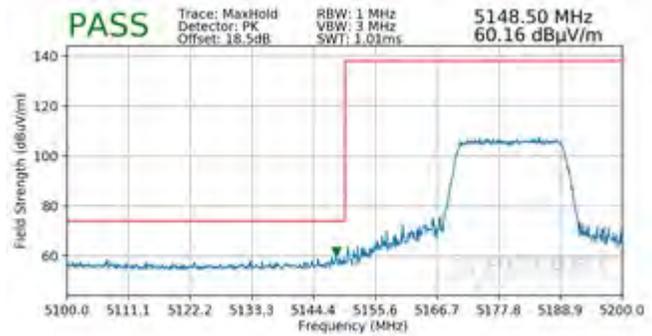
FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 496 of 516

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

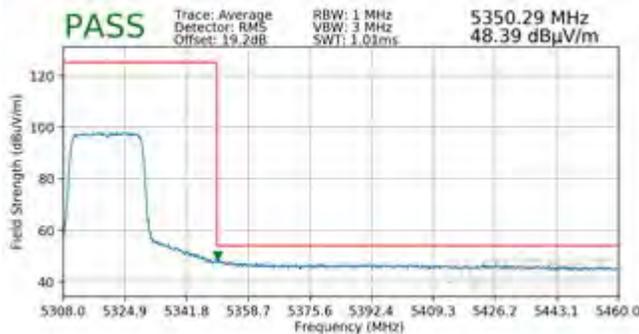


Plot 7-764. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)

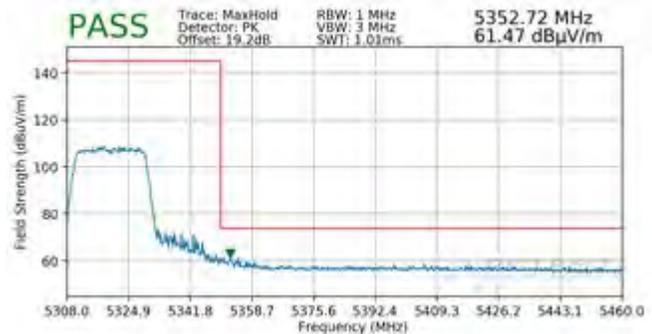


Plot 7-765. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



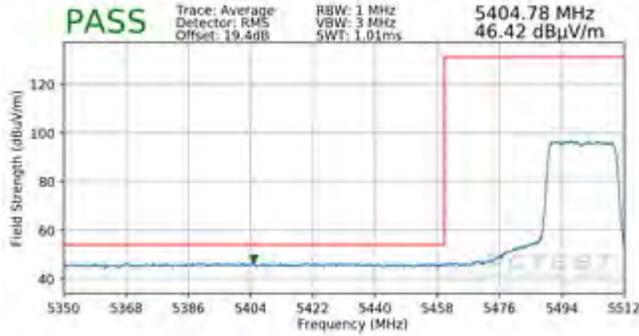
Plot 7-766. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



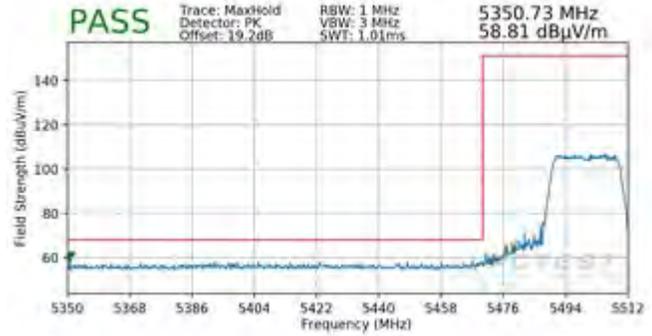
Plot 7-767. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 497 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

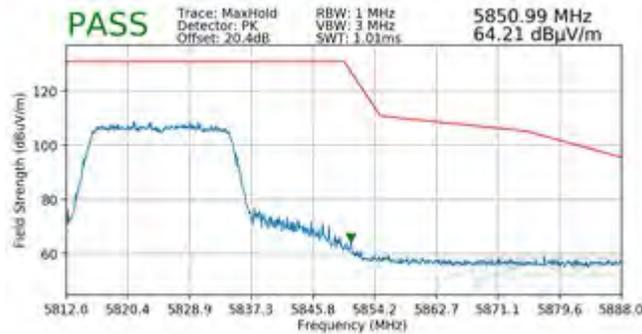


Plot 7-768. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)



Plot 7-769. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

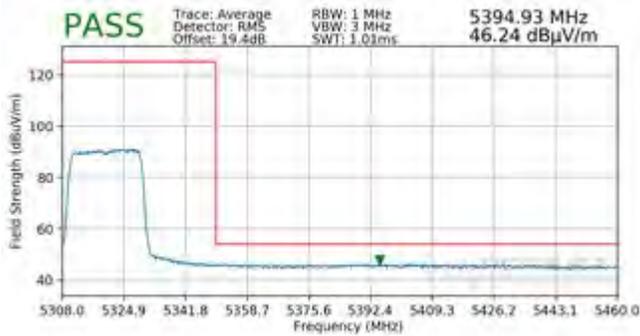
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



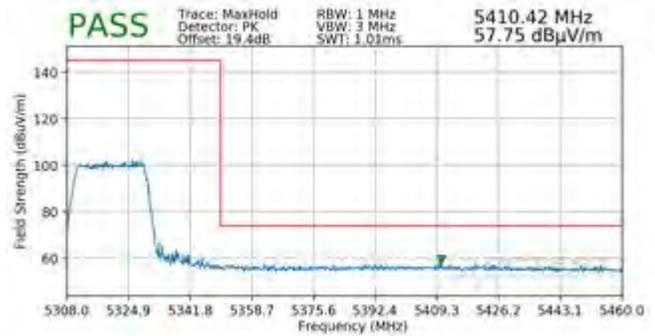
Plot 7-770. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 498 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



Plot 7-771. Radiated Band Edge Plot MIMO (Average – WCP – 242 Tones)



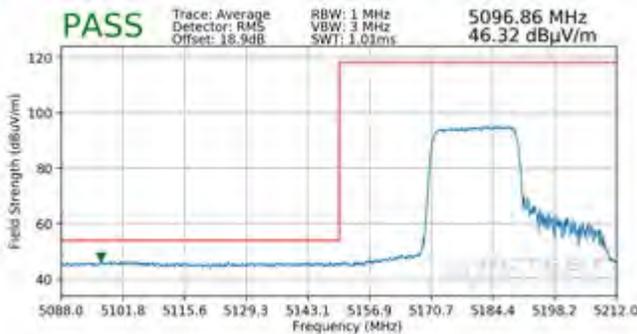
Plot 7-772. Radiated Band Edge Plot MIMO (Peak – WCP – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 499 of 516

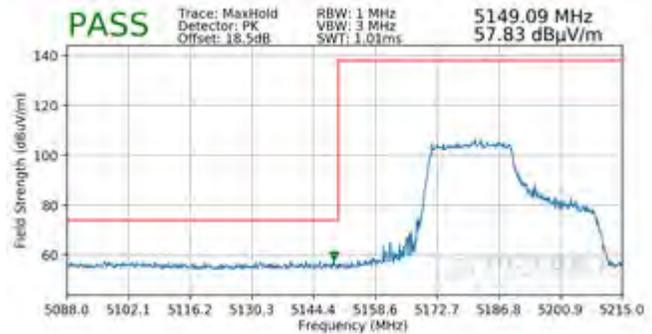
7.6.11 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

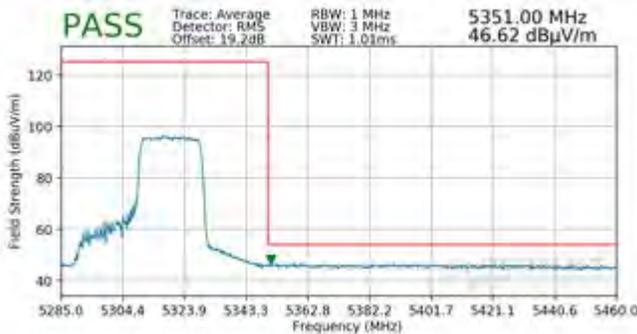


Plot 7-773. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)

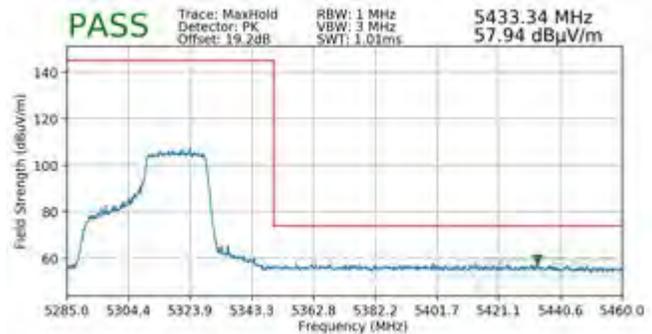


Plot 7-774. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	62
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



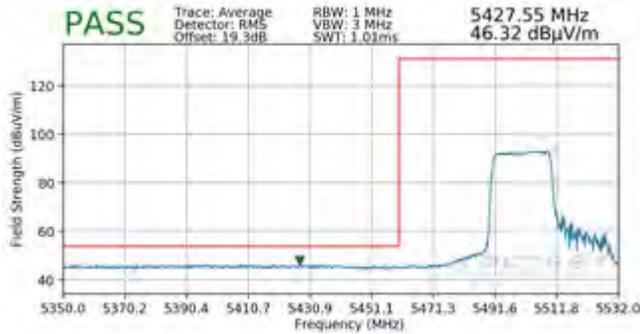
Plot 7-775. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



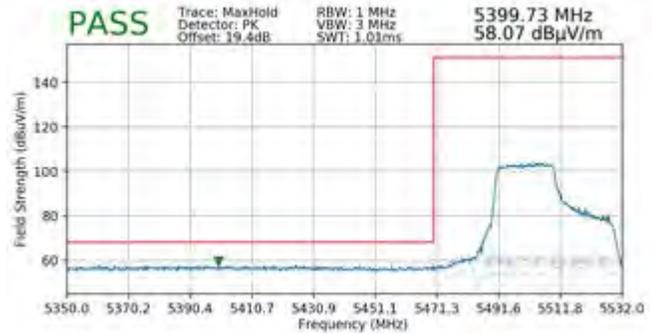
Plot 7-776. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 500 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

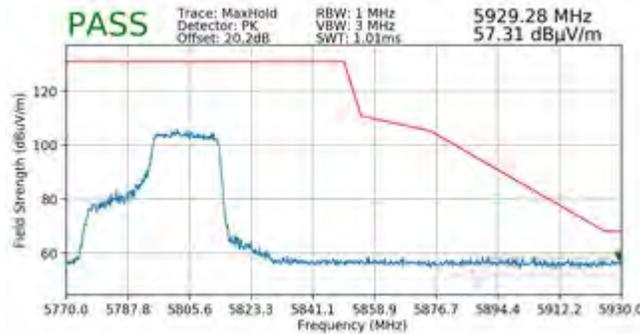


Plot 7-777. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)



Plot 7-778. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 62
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159

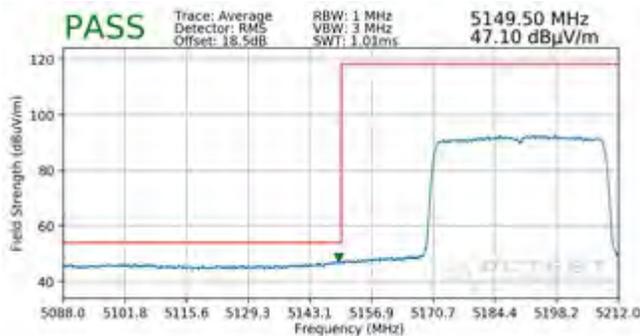


Plot 7-779. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

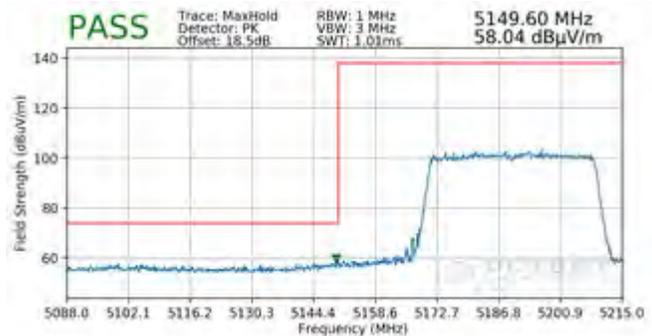
FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 501 of 516

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

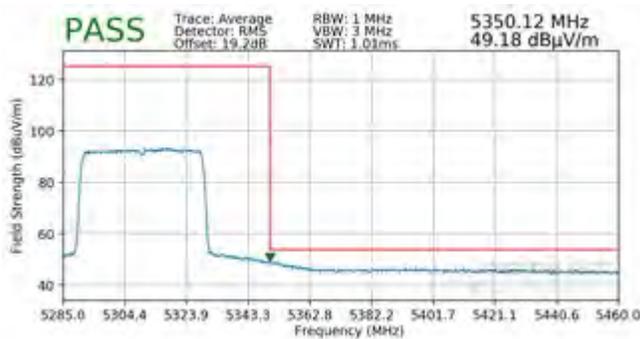


Plot 7-780. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

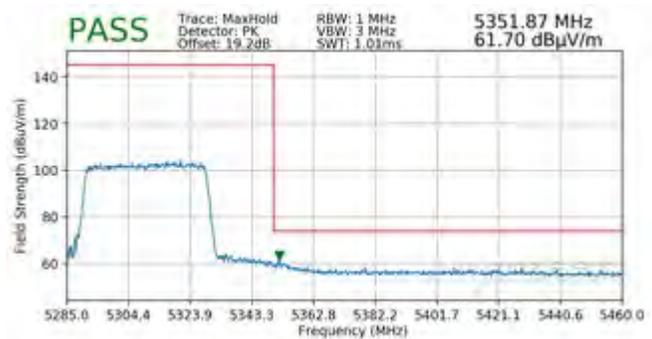


Plot 7-781. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-782. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)



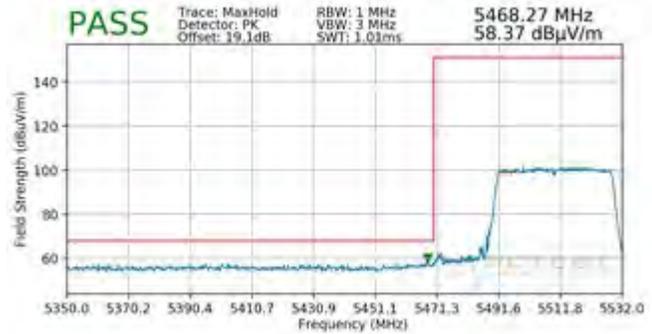
Plot 7-783. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 502 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

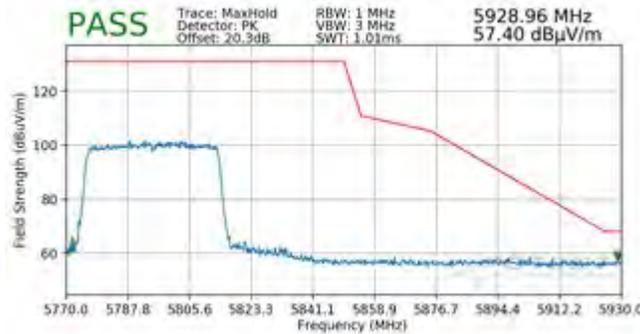


Plot 7-784. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-785. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)

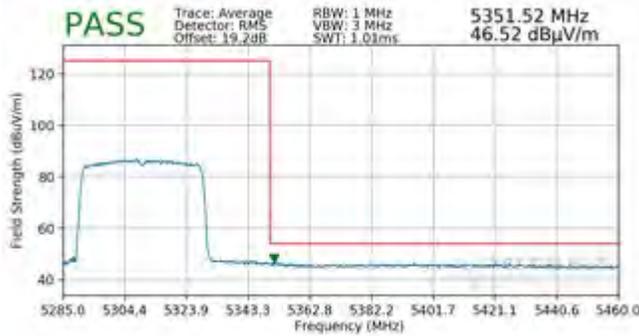
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



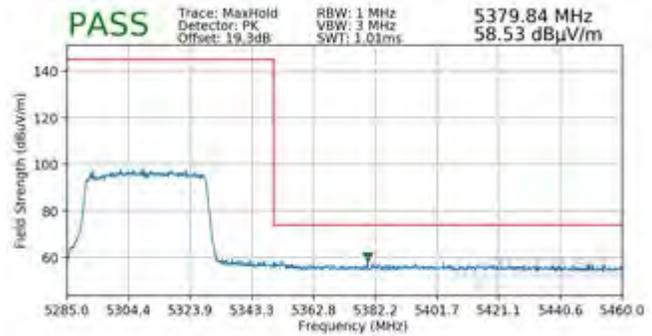
Plot 7-786. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 503 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



Plot 7-787. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)



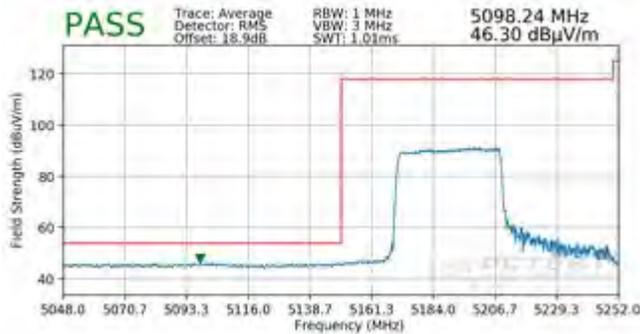
Plot 7-788. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 504 of 516

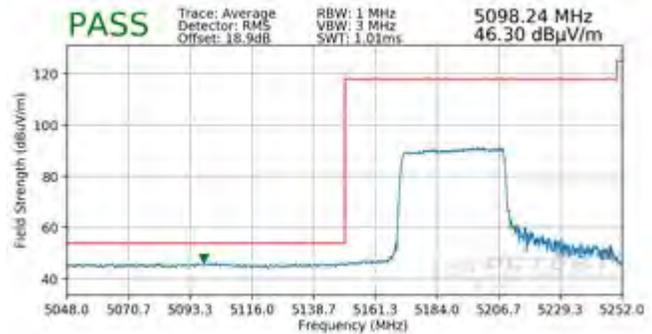
7.6.12 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

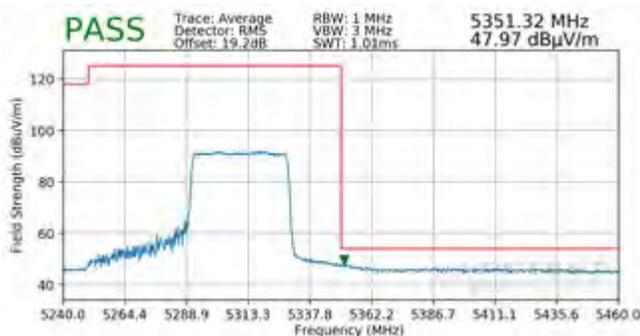


Plot 7-789. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

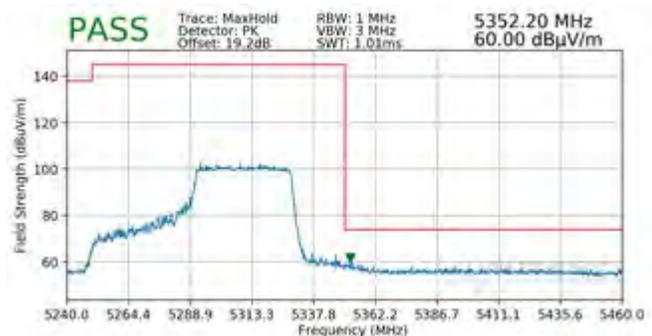


Plot 7-790. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	66
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



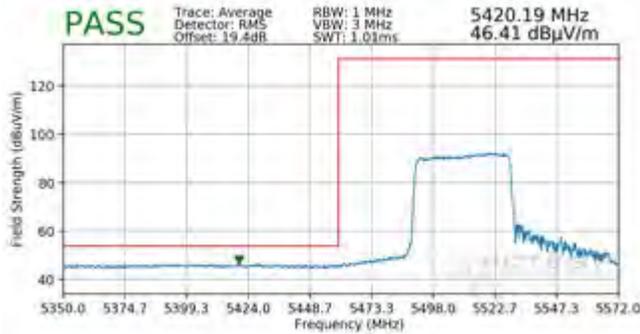
Plot 7-791. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)



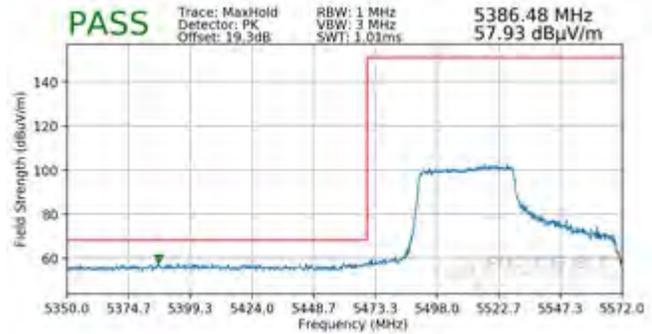
Plot 7-792. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 505 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

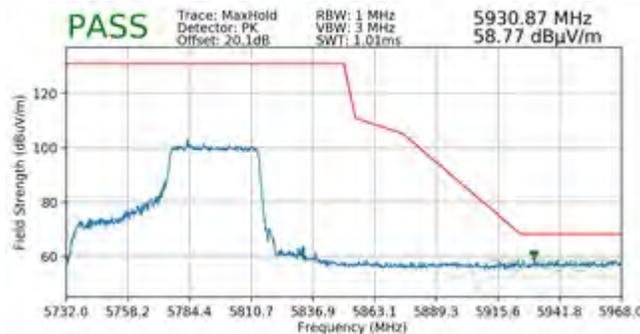


Plot 7-793. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-794. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 66
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155

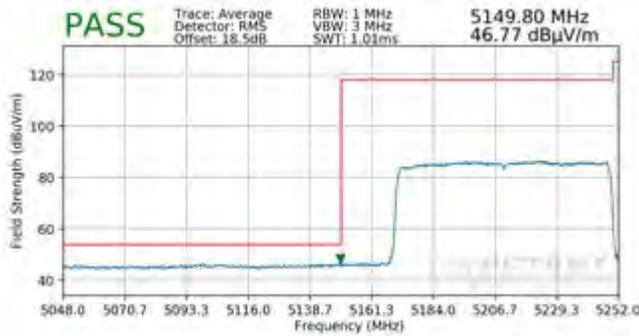


Plot 7-795. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)

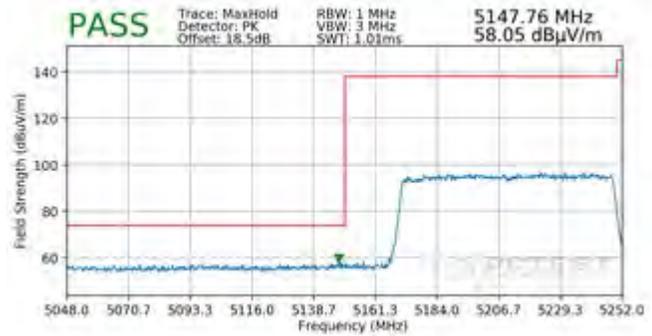
FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 506 of 516

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

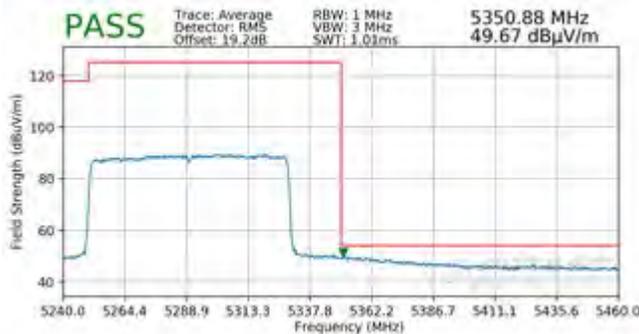


Plot 7-796. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)

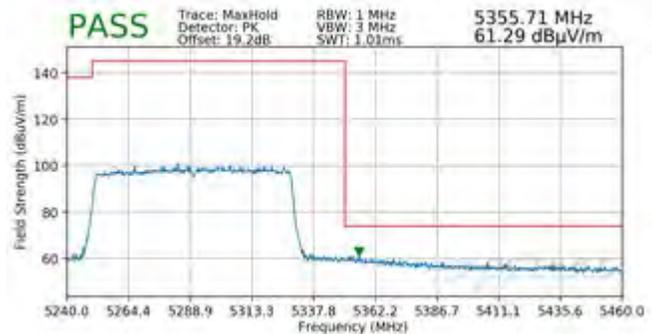


Plot 7-797. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



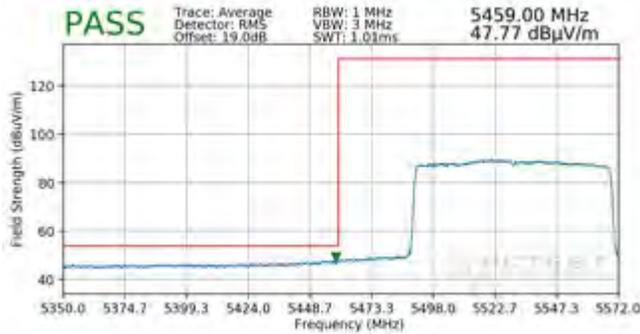
Plot 7-798. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)



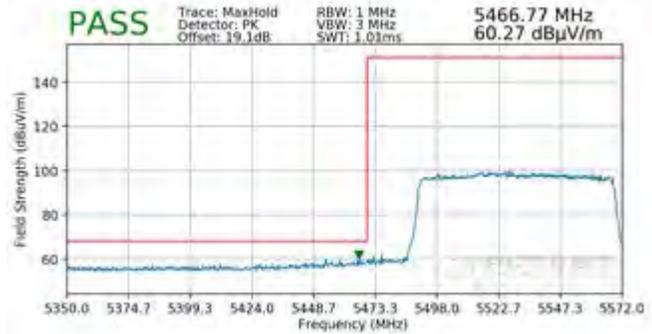
Plot 7-799. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMG975U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 507 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

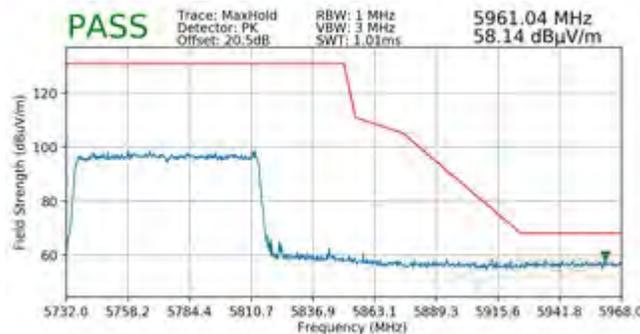


Plot 7-800. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)



Plot 7-801. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

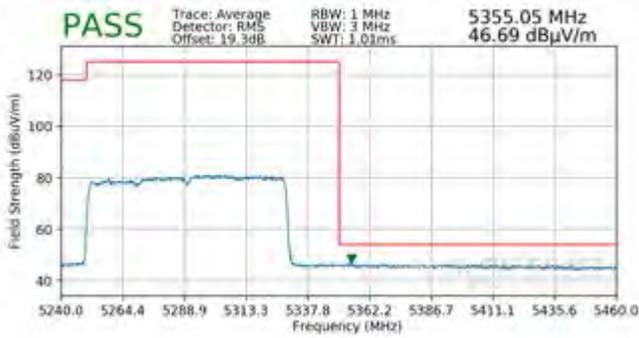
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



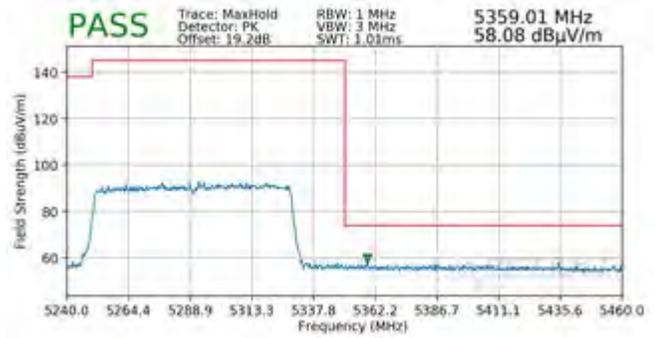
Plot 7-802. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset		Page 508 of 516

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



Plot 7-803. Radiated Band Edge Plot MIMO (Average – WCP – 996 Tones)



Plot 7-804. Radiated Band Edge Plot MIMO (Peak – WCP – 996 Tones)

FCC ID: A3LSMG975U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1810250197-06.A3L	Test Dates: 10/31/2018-1/09/2019	EUT Type: Portable Handset	Page 509 of 516

7.7 Radiated Spurious Emissions Measurements – Below 1GHz §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-202 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-214. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.

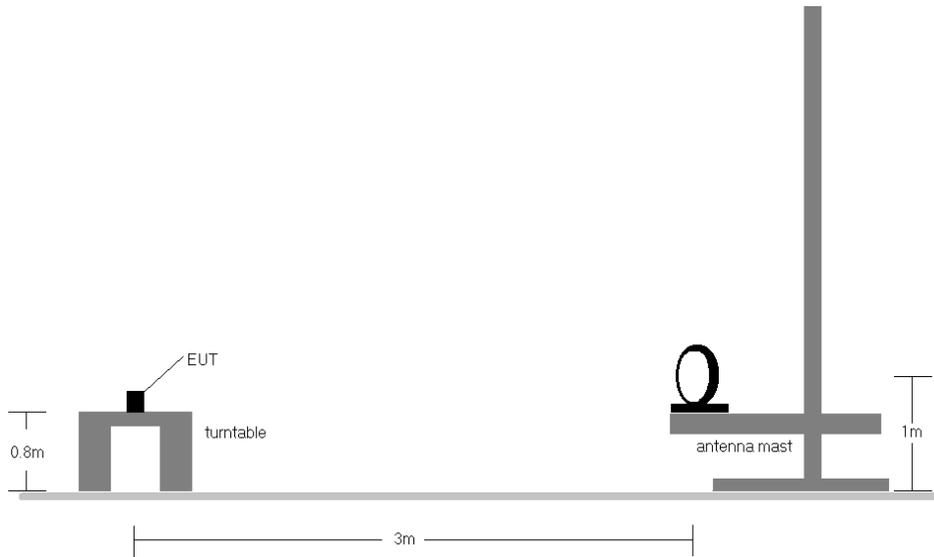


Figure 7-6. Radiated Test Setup < 30MHz

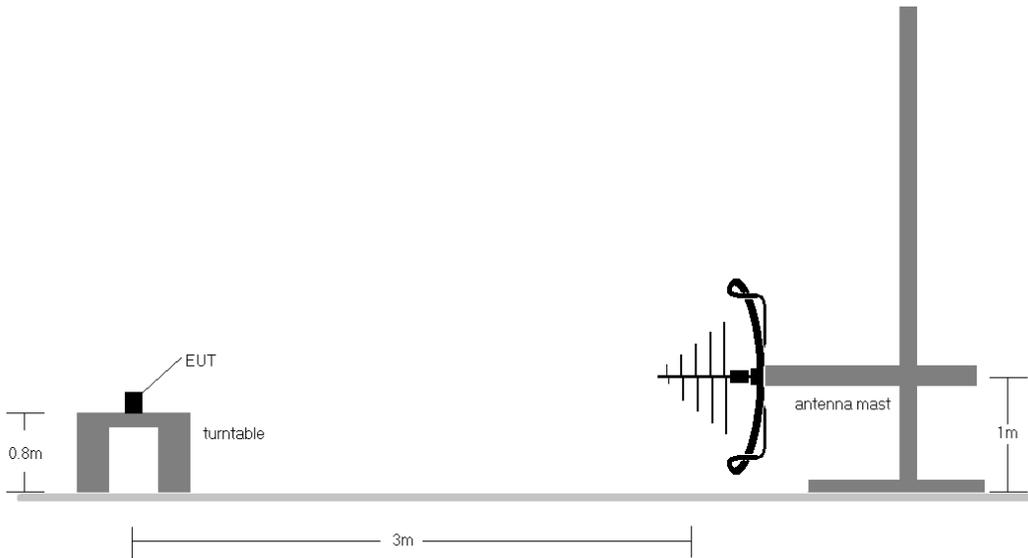


Figure 7-7. Radiated Test Setup < 1GHz

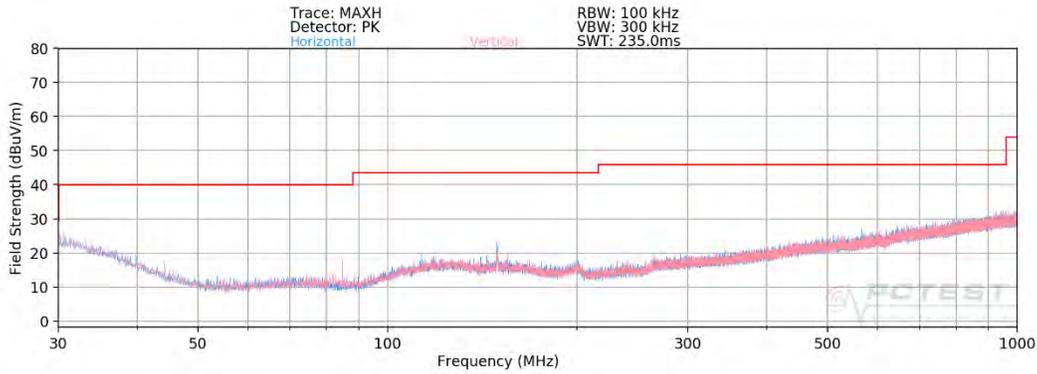
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Test Notes

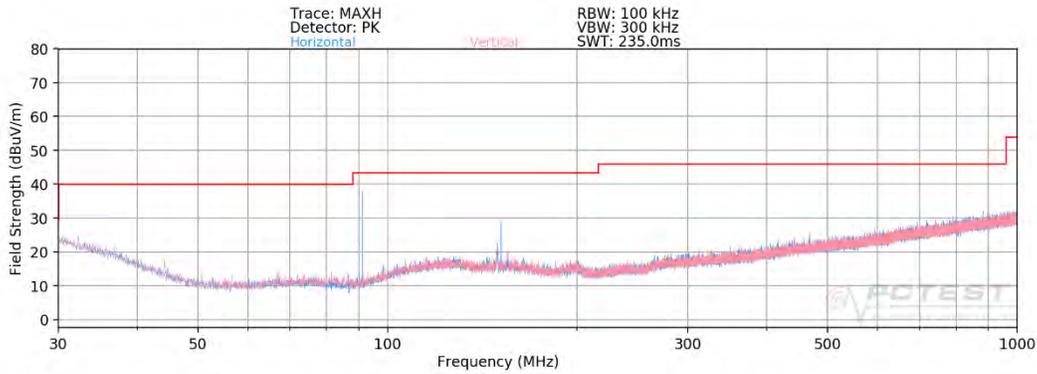
1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-202.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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SISO Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]



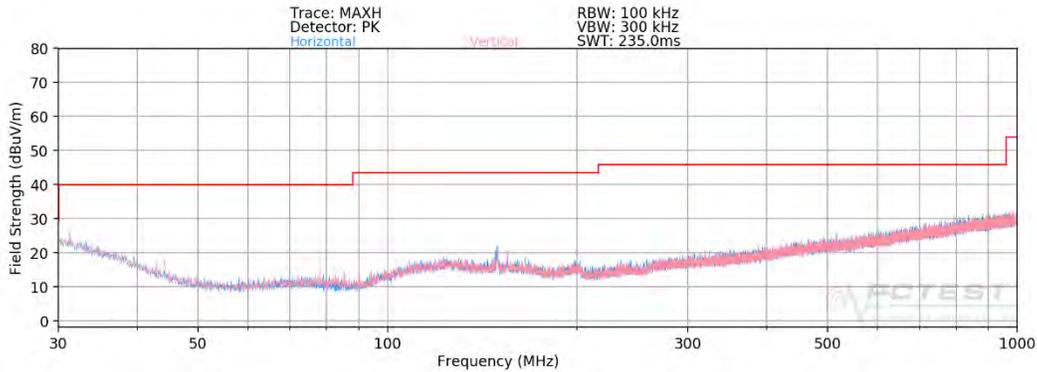
Plot 7-805. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11ax – 106 Tones – U3 Ch. 157)



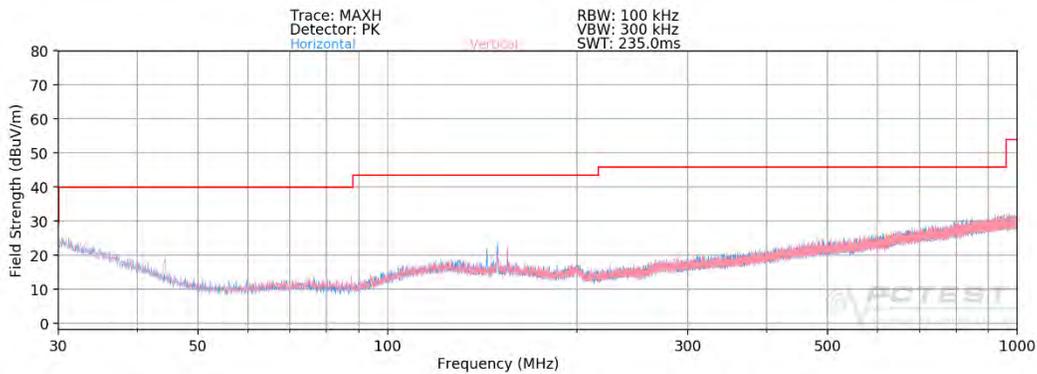
Plot 7-806. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11ax – 242 Tones – U3 Ch. 157)

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SISO Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]



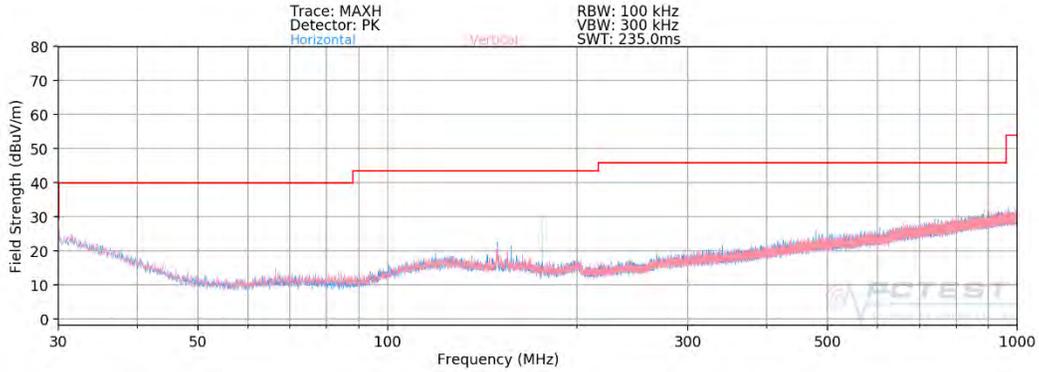
Plot 7-807. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11ax – 106 Tones – U3 Ch. 157)



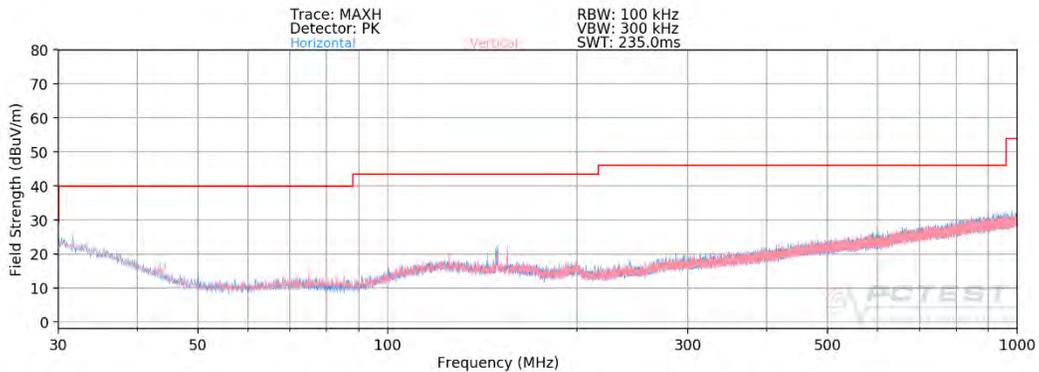
Plot 7-808. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11ax – 242 Tones – U3 Ch. 157)

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MIMO Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]



Plot 7-809. Radiated Spurious Plot below 1GHz MIMO (802.11ax – 106 Tones – U3 Ch. 157)



Plot 7-810. Radiated Spurious Plot below 1GHz MIMO (802.11ax – 242 Tones – U3 Ch. 157)

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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: A3LSMG975U** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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