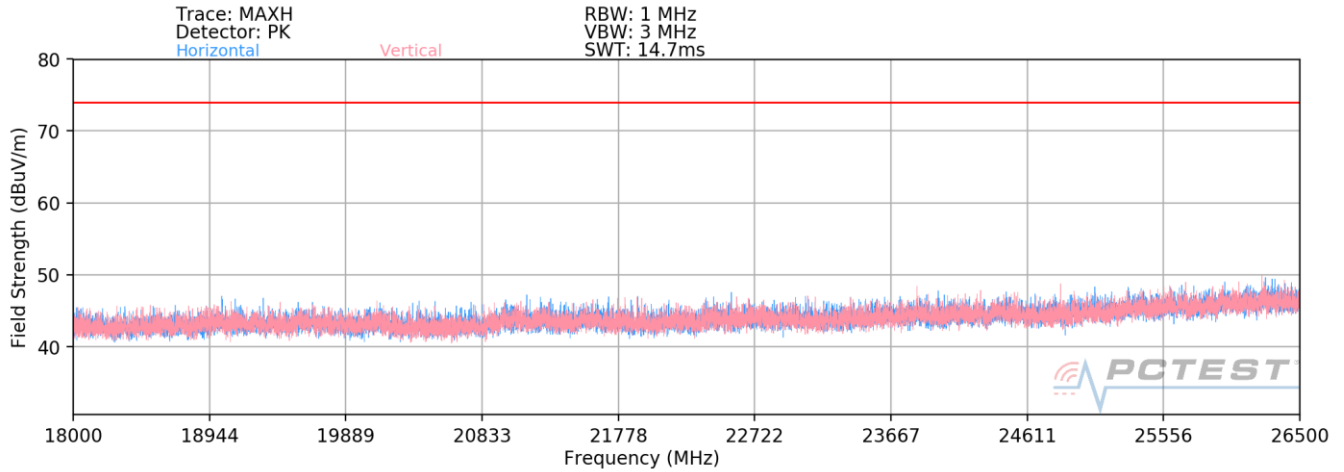
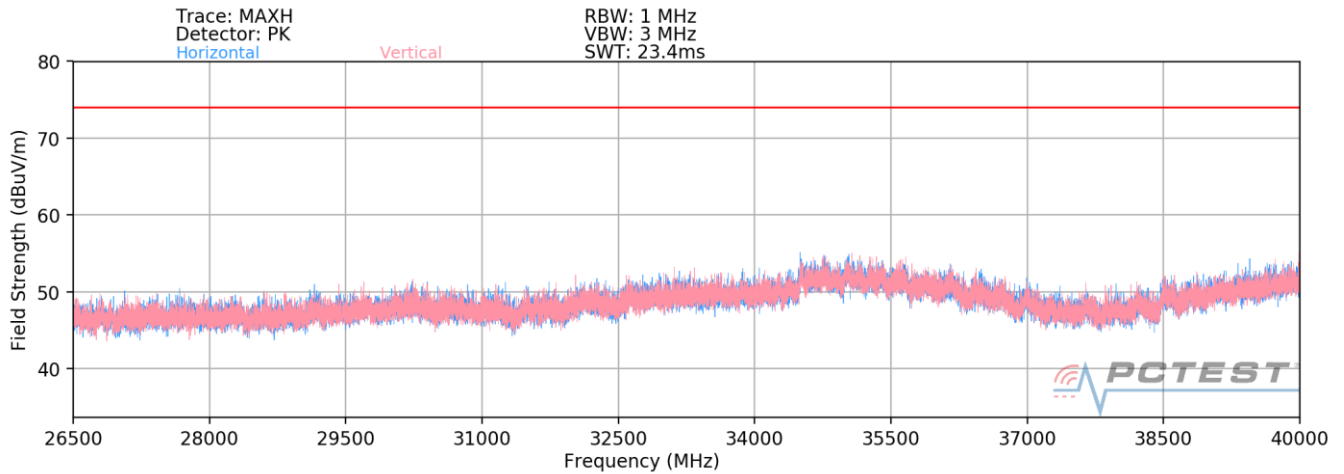


## Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-113. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax – 26 Tones)**



**Plot 7-114. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax – 26 Tones)**

FCC ID: A3LSMA528B	 <b>PCTEST</b> Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 91 of 113

## Radiated Spurious Emission Measurements (26 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: 54  
 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	-	-	-69.30	15.73	0.00	53.43	68.20	-14.77
15540.00	Average	V	-	-	-82.28	22.76	0.00	47.48	53.98	-6.50
15540.00	Peak	V	-	-	-71.01	22.76	0.00	58.75	73.98	-15.23
20720.00	Average	V	-	-	-66.76	4.48	-9.54	35.18	53.98	-18.80
20720.00	Peak	V	-	-	-55.91	4.48	-9.54	46.03	73.98	-27.95
25900.00	Peak	V	-	-	-55.32	6.92	-9.54	49.05	68.20	-19.15

Table 7-26. Radiated Measurements (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-69.70	15.88	0.00	53.18	68.20	-15.02
15600.00	Average	V	-	-	-82.13	22.85	0.00	47.72	53.98	-6.26
15600.00	Peak	V	-	-	-70.63	22.85	0.00	59.22	73.98	-14.76
20800.00	Average	V	-	-	-66.63	4.88	-9.54	35.71	53.98	-18.27
20800.00	Peak	V	-	-	-55.01	4.88	-9.54	47.33	73.98	-26.64
26000.00	Peak	V	-	-	-56.02	7.10	-9.54	48.55	68.20	-19.65

Table 7-27. Radiated Measurements (26 Tones)

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 92 of 113

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-70.28	15.96	0.00	52.68	68.20	-15.52
15720.00	Average	V	-	-	-82.48	22.92	0.00	47.44	53.98	-6.53
15720.00	Peak	V	-	-	-71.48	22.92	0.00	58.44	73.98	-15.53
20960.00	Average	V	-	-	-66.40	5.01	-9.54	36.07	53.98	-17.91
20960.00	Peak	V	-	-	-56.24	5.01	-9.54	46.23	73.98	-27.75
26200.00	Peak	V	-	-	-55.08	6.99	-9.54	49.37	68.20	-18.83

**Table 7-28. Radiated Measurements (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-69.88	16.21	0.00	53.33	68.20	-14.87
15780.00	Average	V	-	-	-82.21	22.95	0.00	47.74	53.98	-6.24
15780.00	Peak	V	-	-	-70.84	22.95	0.00	59.11	73.98	-14.87
21040.00	Average	V	-	-	-66.19	4.89	-9.54	36.15	53.98	-17.83
21040.00	Peak	V	-	-	-56.29	4.89	-9.54	46.05	73.98	-27.92
26300.00	Peak	V	-	-	-55.85	7.06	-9.54	48.68	68.20	-19.52

**Table 7-29. Radiated Measurements (26 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 93 of 113	

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-70.36	16.51	0.00	53.15	68.20	-15.05
15840.00	Average	V	-	-	-82.13	23.24	0.00	48.11	53.98	-5.87
15840.00	Peak	V	-	-	-71.56	23.24	0.00	58.68	73.98	-15.30
21120.00	Average	V	-	-	-66.06	5.08	-9.54	36.48	53.98	-17.50
21120.00	Peak	V	-	-	-55.40	5.08	-9.54	47.14	73.98	-26.83
26400.00	Peak	V	-	-	-55.93	7.43	-9.54	48.96	68.20	-19.24

**Table 7-30. Radiated Measurements (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-81.62	16.61	0.00	41.99	53.98	-11.99
10640.00	Peak	V	-	-	-70.37	16.61	0.00	53.24	73.98	-20.74
15960.00	Average	V	-	-	-82.35	23.29	0.00	47.94	53.98	-6.04
15960.00	Peak	V	-	-	-70.88	23.29	0.00	59.41	73.98	-14.57
21280.00	Average	V	-	-	-65.19	5.14	-9.54	37.40	53.98	-16.58
21280.00	Peak	V	-	-	-55.48	5.14	-9.54	47.12	73.98	-26.86
26600.00	Peak	V	-	-	-55.64	7.21	-9.54	49.03	68.20	-19.17

**Table 7-31. Radiated Measurements (26 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 94 of 113	

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-81.89	17.32	0.00	42.43	53.98	-11.55
11000.00	Peak	V	-	-	-70.77	17.32	0.00	53.55	73.98	-20.43
16500.00	Peak	V	-	-	-71.54	24.59	0.00	60.05	68.20	-8.15
22000.00	Peak	V	-	-	-56.15	5.16	-9.54	46.47	68.20	-21.73
27500.00	Peak	V	-	-	-55.82	7.69	-9.54	49.34	68.20	-18.86

**Table 7-32. Radiated Measurements (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-81.20	17.36	0.00	43.16	53.98	-10.82
11200.00	Peak	V	-	-	-70.43	17.36	0.00	53.93	73.98	-20.05
16800.00	Peak	V	-	-	-72.20	24.71	0.00	59.51	68.20	-8.69
22400.00	Average	V	-	-	-65.55	5.45	-9.54	37.36	53.98	-16.62
22400.00	Peak	V	-	-	-55.92	5.45	-9.54	46.98	73.98	-27.00
28000.00	Peak	V	-	-	-55.99	7.97	-9.54	49.44	68.20	-18.76

**Table 7-33. Radiated Measurements (26 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 95 of 113	

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	-	-	-82.03	18.14	0.00	43.11	53.98	-10.87
11440.00	Peak	V	-	-	-71.04	18.14	0.00	54.10	73.98	-19.88
17160.00	Peak	V	-	-	-71.85	24.76	0.00	59.91	68.20	-8.29
22880.00	Average	V	-	-	-66.11	5.43	-9.54	36.77	53.98	-17.21
22880.00	Peak	V	-	-	-55.80	5.43	-9.54	47.08	73.98	-26.90
28600.00	Peak	V	-	-	-55.51	8.29	-9.54	50.24	68.20	-17.96

**Table 7-34. Radiated Measurements (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	-	-	-82.36	18.27	0.00	42.91	53.98	-11.07
11490.00	Peak	V	-	-	-71.44	18.27	0.00	53.83	73.98	-20.15
17235.00	Peak	V	-	-	-71.66	25.59	0.00	60.93	68.20	-7.27
22980.00	Average	V	-	-	-65.79	5.29	-9.54	36.97	53.98	-17.01
22980.00	Peak	V	-	-	-55.97	5.29	-9.54	46.78	73.98	-27.20
28725.00	Peak	V	-	-	-55.56	8.24	-9.54	50.13	68.20	-18.07

**Table 7-35. Radiated Measurements (26 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 96 of 113	

Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 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	-	-	-81.90	18.31	0.00	43.41	53.98	-10.57
11570.00	Peak	V	-	-	-70.46	18.31	0.00	54.85	73.98	-19.13
17355.00	Peak	V	-	-	-72.44	26.27	0.00	60.83	68.20	-7.37
23140.00	Peak	V	-	-	-55.34	5.34	-9.54	47.46	68.20	-20.74
28925.00	Peak	V	-	-	-55.67	8.48	-9.54	50.26	68.20	-17.94

**Table 7-36. Radiated Measurements (26 Tones)**

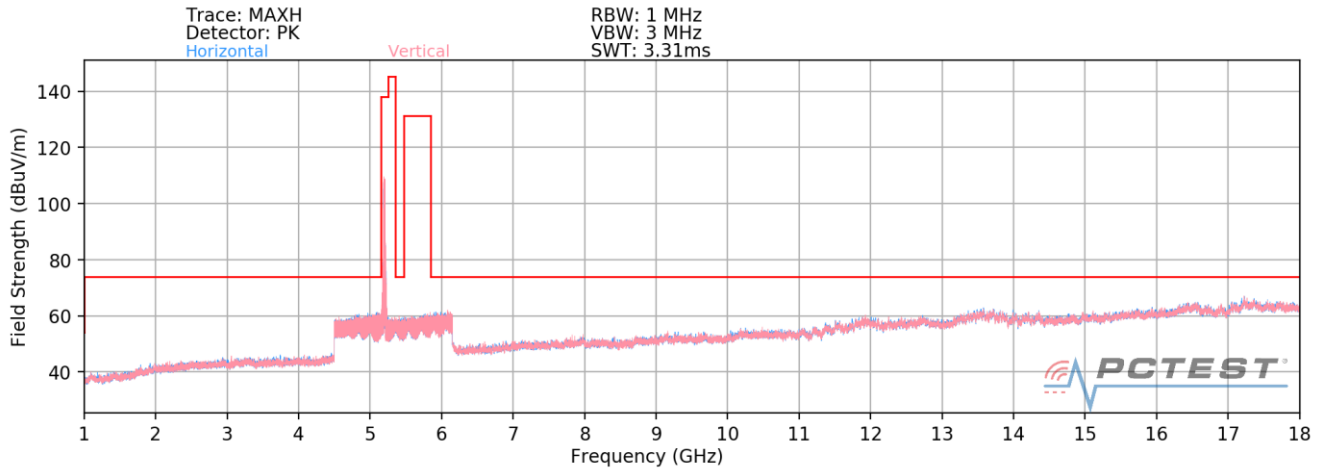
Worst Case Mode: 802.11ax (20MHz BW)  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

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	-	-	-81.67	18.41	0.00	43.74	53.98	-10.24
11650.00	Peak	V	-	-	-70.48	18.41	0.00	54.93	73.98	-19.05
17475.00	Peak	V	-	-	-72.03	26.23	0.00	61.20	68.20	-7.00
23300.00	Peak	V	-	-	-55.28	5.29	-9.54	47.47	68.20	-20.73
29125.00	Peak	V	-	-	-56.16	8.49	-9.54	49.79	68.20	-18.41

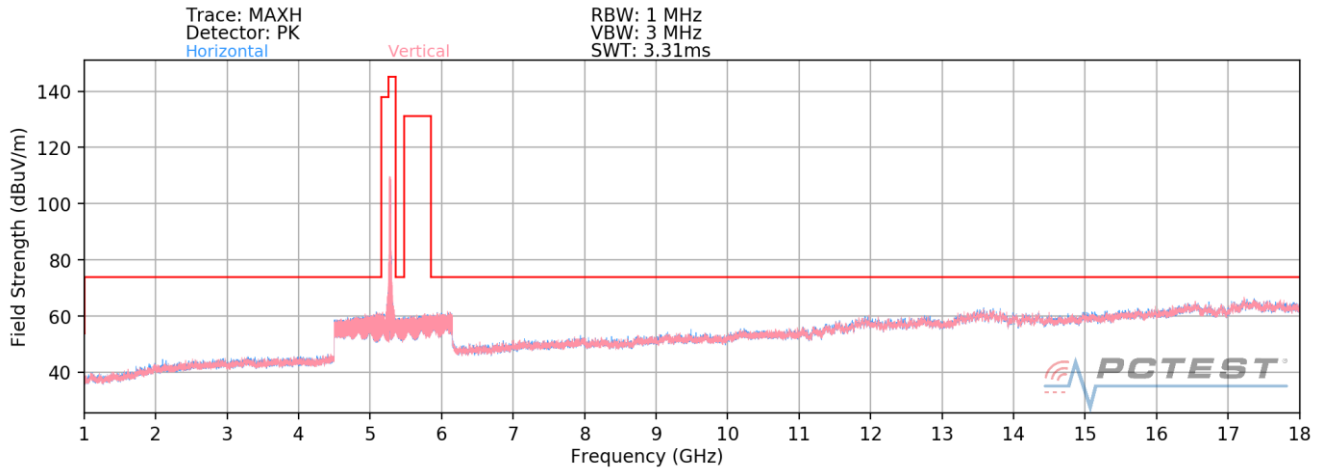
**Table 7-37. Radiated Measurements (26 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 97 of 113

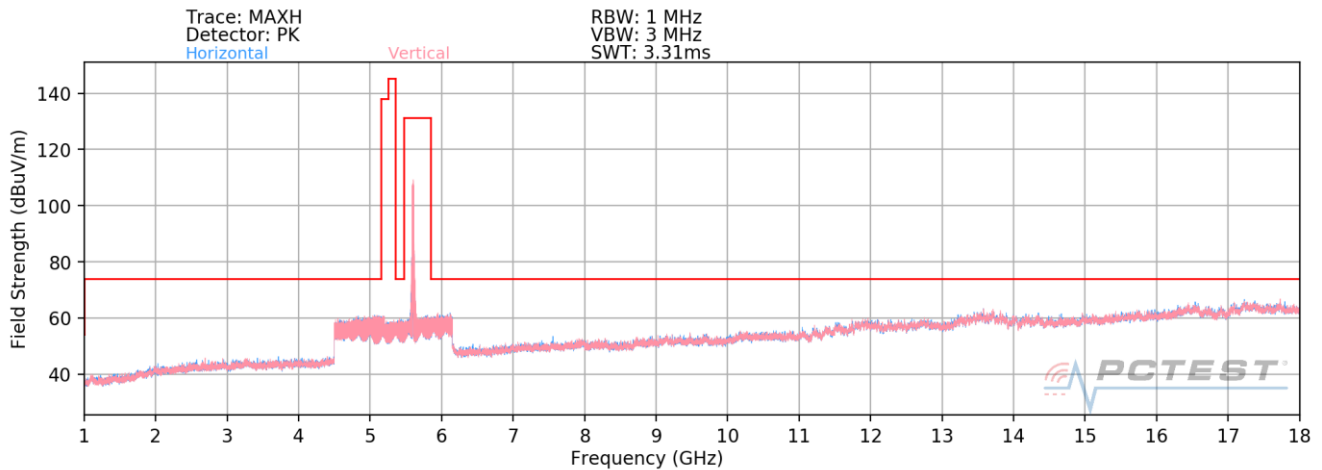
## 242 Tones



**Plot 7-115. Radiated Spurious Plot above 1GHz (802.11ax – U1 Ch. 40 – 242 Tones)**



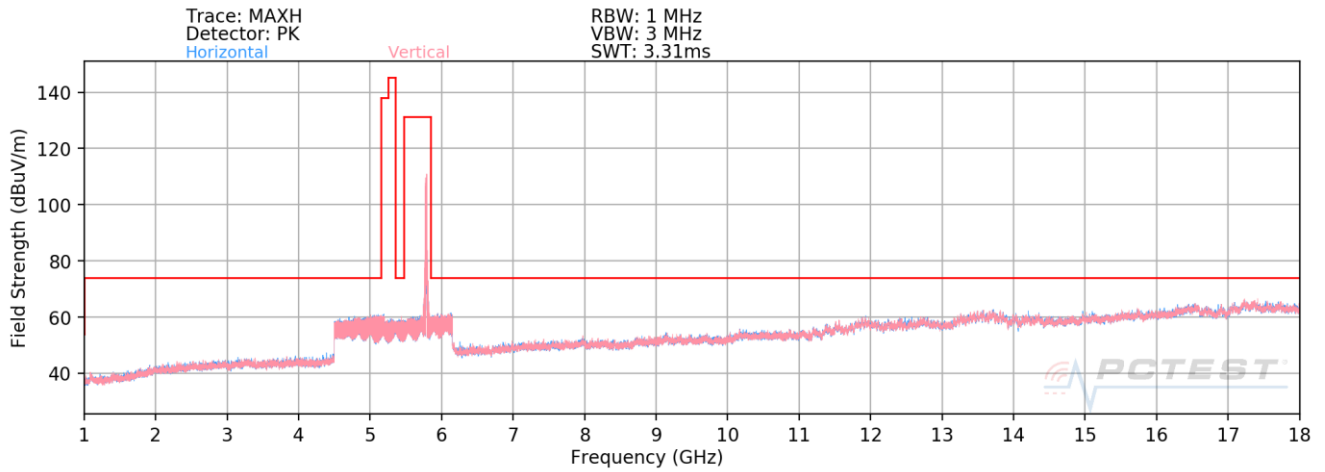
**Plot 7-116. Radiated Spurious Plot above 1GHz (802.11ax – U2A Ch. 56 – 242 Tones)**



**Plot 7-117. Radiated Spurious Plot above 1GHz (802.11ax – U2C Ch. 120 – 242 Tones)**

FCC ID: A3LSMA528B	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 98 of 113

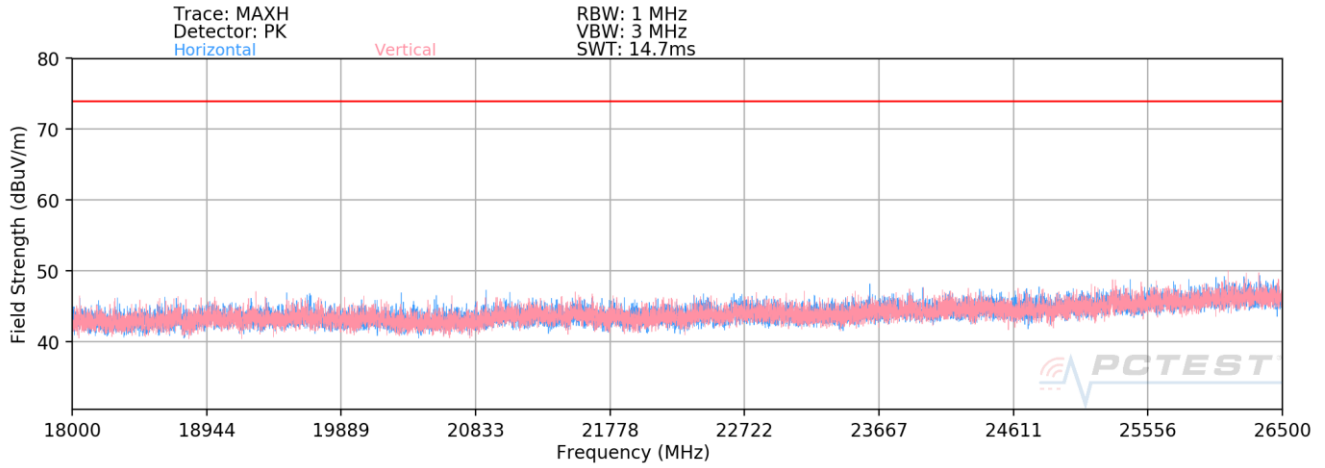




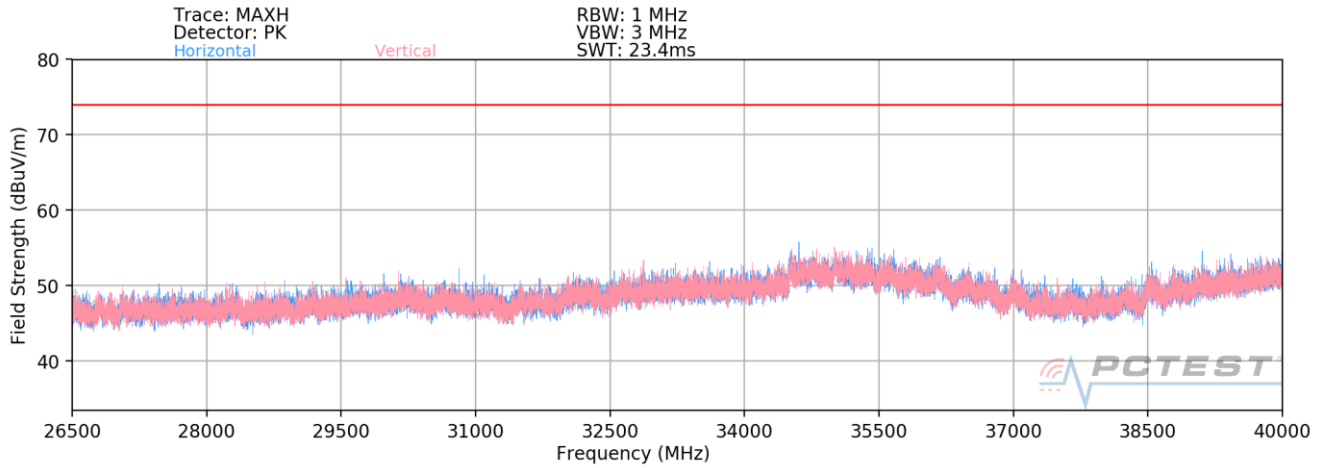
**Plot 7-118. Radiated Spurious Plot above 1GHz (802.11ax – U3 Ch. 157 – 242 Tones)**

<b>FCC ID:</b> A3LSMA528B		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	 <b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2106280072-08.A3L	<b>Test Dates:</b> 06/30/2021-7/27/2021	<b>EUT Type:</b> Portable Handset	Page 99 of 113

## Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-119. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax – 242 Tones)**



**Plot 7-120. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax – 242 Tones)**

FCC ID: A3LSMA528B	 <b>PCTEST</b> Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 100 of 113

## 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	-	-	-72.50	20.11	0.00	54.61	68.20	-13.59
15540.00	Average	V	-	-	-85.39	28.89	0.00	50.50	53.98	-3.47
15540.00	Peak	V	-	-	-74.06	28.89	0.00	61.83	73.98	-12.14
20720.00	Average	V	-	-	-66.28	4.48	-9.54	35.65	53.98	-18.33
20720.00	Peak	V	-	-	-56.18	4.48	-9.54	45.76	73.98	-28.22
25900.00	Peak	V	-	-	-55.54	6.92	-9.54	48.83	68.20	-19.37

Table 7-38. Radiated Measurements (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	-	-	-73.13	20.61	0.00	54.48	68.20	-13.72
15600.00	Average	V	-	-	-85.37	29.15	0.00	50.78	53.98	-3.20
15600.00	Peak	V	-	-	-74.56	29.15	0.00	61.59	73.98	-12.39
20800.00	Average	V	-	-	-66.45	4.88	-9.54	35.89	53.98	-18.09
20800.00	Peak	V	-	-	-56.27	4.88	-9.54	46.07	73.98	-27.91
26000.00	Peak	V	-	-	-55.60	7.10	-9.54	48.96	68.20	-19.24

Table 7-39. Radiated Measurements (242 Tones)

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 101 of 113

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	-	-	-72.75	20.59	0.00	54.84	68.20	-13.36
15720.00	Average	V	-	-	-85.61	29.41	0.00	50.80	53.98	-3.17
15720.00	Peak	V	-	-	-74.00	29.41	0.00	62.41	73.98	-11.56
20960.00	Average	V	-	-	-66.43	5.01	-9.54	36.04	53.98	-17.94
20960.00	Peak	V	-	-	-56.68	5.01	-9.54	45.78	73.98	-28.20
26200.00	Peak	V	-	-	-55.94	6.99	-9.54	48.51	68.20	-19.69

**Table 7-40. Radiated Measurements (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	-	-	-72.13	20.35	0.00	55.22	68.20	-12.98
15780.00	Average	V	-	-	-85.26	28.97	0.00	50.71	53.98	-3.27
15780.00	Peak	V	-	-	-73.47	28.97	0.00	62.50	73.98	-11.48
21040.00	Average	V	-	-	-66.10	4.89	-9.54	36.25	53.98	-17.73
21040.00	Peak	V	-	-	-55.79	4.89	-9.54	46.56	73.98	-27.42
26300.00	Peak	V	-	-	-55.86	7.06	-9.54	48.66	68.20	-19.54

**Table 7-41. Radiated Measurements (242 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 102 of 113	

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	-	-	-71.77	20.28	0.00	55.51	68.20	-12.69
15840.00	Average	V	-	-	-85.24	28.74	0.00	50.50	53.98	-3.48
15840.00	Peak	V	-	-	-73.21	28.74	0.00	62.53	73.98	-11.45
21120.00	Average	V	-	-	-66.06	5.08	-9.54	36.49	53.98	-17.49
21120.00	Peak	V	-	-	-55.95	5.08	-9.54	46.59	73.98	-27.39
26400.00	Peak	V	-	-	-55.78	7.43	-9.54	49.11	68.20	-19.09

**Table 7-42. Radiated Measurements (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	-	-	-83.83	20.26	0.00	43.43	53.98	-10.55
10640.00	Peak	V	-	-	-72.13	20.26	0.00	55.13	73.98	-18.85
15960.00	Average	V	-	-	-85.16	29.05	0.00	50.89	53.98	-3.09
15960.00	Peak	V	-	-	-74.42	29.05	0.00	61.63	73.98	-12.35
21280.00	Average	V	-	-	-66.26	5.14	-9.54	36.34	53.98	-17.64
21280.00	Peak	V	-	-	-55.78	5.14	-9.54	46.81	73.98	-27.17
26600.00	Peak	V	-	-	-55.74	7.21	-9.54	48.94	68.20	-19.26

**Table 7-43. Radiated Measurements (242 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 103 of 113	

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	-	-	-84.18	21.18	0.00	44.00	53.98	-9.98
11000.00	Peak	V	-	-	-72.90	21.18	0.00	55.28	73.98	-18.70
16500.00	Peak	V	-	-	-73.45	30.45	0.00	64.00	68.20	-4.20
22000.00	Peak	V	-	-	-55.56	5.16	-9.54	47.06	68.20	-21.14
27500.00	Peak	V	-	-	-55.55	7.69	-9.54	49.60	68.20	-18.60

**Table 7-44. Radiated Measurements (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	-	-	-84.09	22.64	0.00	45.55	53.98	-8.43
11200.00	Peak	V	-	-	-72.73	22.64	0.00	56.91	73.98	-17.07
16800.00	Peak	V	-	-	-73.83	29.97	0.00	63.14	68.20	-5.06
22400.00	Average	V	-	-	-66.08	5.45	-9.54	36.82	53.98	-17.16
22400.00	Peak	V	-	-	-56.27	5.45	-9.54	46.63	73.98	-27.35
28000.00	Peak	V	-	-	-55.77	7.97	-9.54	49.66	68.20	-18.54

**Table 7-45. Radiated Measurements (242 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 104 of 113	

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	-	-	-84.24	22.34	0.00	45.10	53.98	-8.88
11440.00	Peak	V	-	-	-72.44	22.34	0.00	56.90	73.98	-17.08
17160.00	Peak	V	-	-	-73.75	30.35	0.00	63.60	68.20	-4.60
22880.00	Average	V	-	-	-65.96	5.43	-9.54	36.93	53.98	-17.05
22880.00	Peak	V	-	-	-55.34	5.43	-9.54	47.54	73.98	-26.44
28600.00	Peak	V	-	-	-55.59	8.29	-9.54	50.16	68.20	-18.04

**Table 7-46. Radiated Measurements (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	-	-	-84.14	22.32	0.00	45.18	53.98	-8.80
11490.00	Peak	V	-	-	-72.56	22.32	0.00	56.76	73.98	-17.22
17235.00	Peak	V	-	-	-74.34	32.10	0.00	64.76	68.20	-3.44
22980.00	Average	V	-	-	-66.22	5.29	-9.54	36.53	53.98	-17.45
22980.00	Peak	V	-	-	-55.62	5.29	-9.54	47.13	73.98	-26.85
28725.00	Peak	V	-	-	-55.65	8.24	-9.54	50.05	68.20	-18.15

**Table 7-47. Radiated Measurements (242 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 105 of 113	

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	-	-	-84.36	24.34	0.00	46.98	53.98	-7.00
11570.00	Peak	V	-	-	-72.75	24.34	0.00	58.59	73.98	-15.39
17355.00	Peak	V	-	-	-73.99	31.97	0.00	64.98	68.20	-3.22
23140.00	Peak	V	-	-	-56.02	5.34	-9.54	46.78	68.20	-21.42
28925.00	Peak	V	-	-	-55.45	8.48	-9.54	50.48	68.20	-17.72

**Table 7-48. Radiated Measurements (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: 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	-	-	-84.35	23.47	0.00	46.12	53.98	-7.86
11650.00	Peak	V	-	-	-72.13	23.47	0.00	58.34	73.98	-15.64
17475.00	Peak	V	-	-	-72.85	30.72	0.00	64.87	68.20	-3.33
23300.00	Peak	V	-	-	-55.90	5.29	-9.54	46.85	68.20	-21.35
29125.00	Peak	V	-	-	-55.11	8.49	-9.54	50.84	68.20	-17.36

**Table 7-49. Radiated Measurements (242 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset	Page 106 of 113	

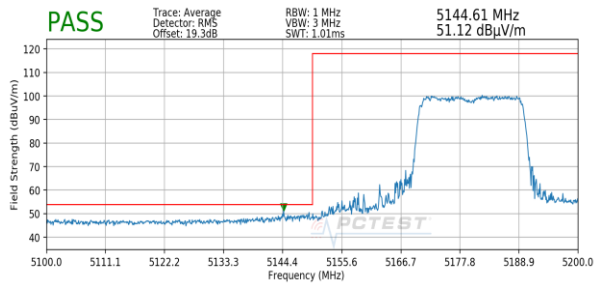


## 7.6.2 Radiated Band Edge Measurements (20MHz BW)

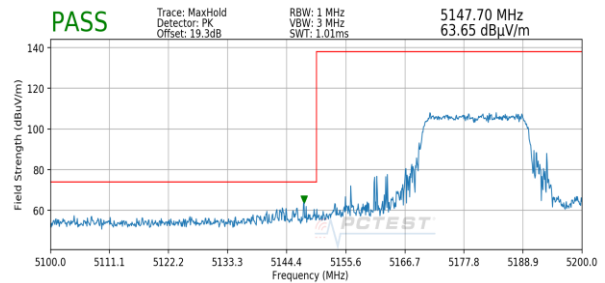
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

### 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

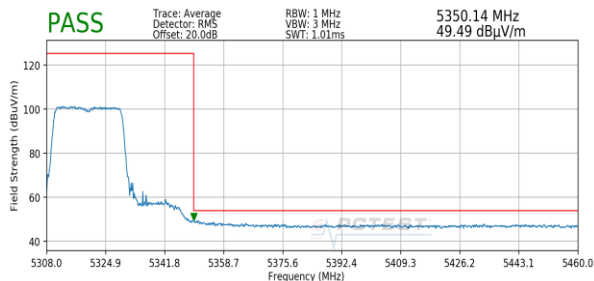


**Plot 7-121. Radiated Lower Band Edge Plot (Average – UNII Band 1 – 242 Tones)**

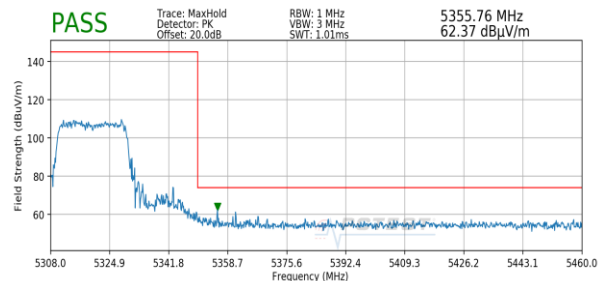


**Plot 7-122. Radiated Lower Band Edge Plot (Peak – UNII Band 1 – 242 Tones)**

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



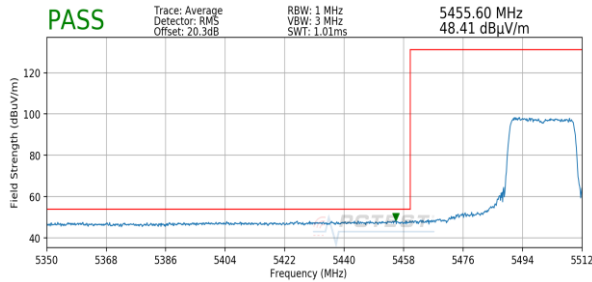
**Plot 7-123. Radiated Upper Band Edge Plot (Average – UNII Band 2A – 242 Tones)**



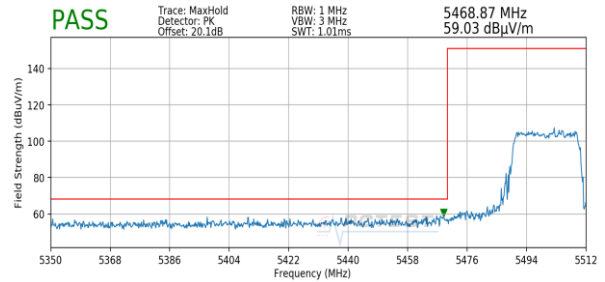
**Plot 7-124. Radiated Upper Band Edge Plot (Peak – UNII Band 2A – 242 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 107 of 113

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

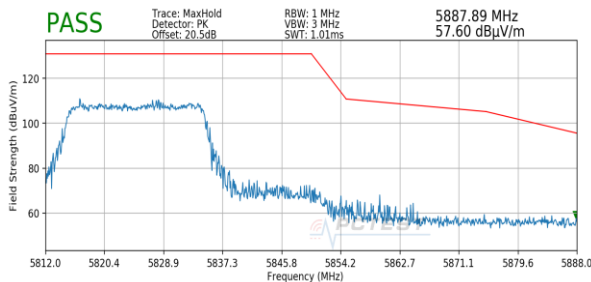


**Plot 7-125. Radiated Lower Band Edge Plot (Average – UNII Band 2C – 242 Tones)**



**Plot 7-126. Radiated Lower Band Edge Plot (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



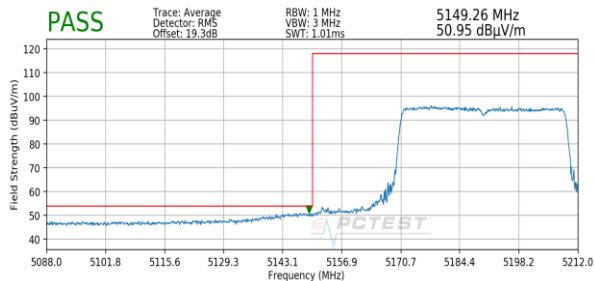
**Plot 7-127. Radiated Upper Band Edge Plot (Peak – UNII Band 3 – 242 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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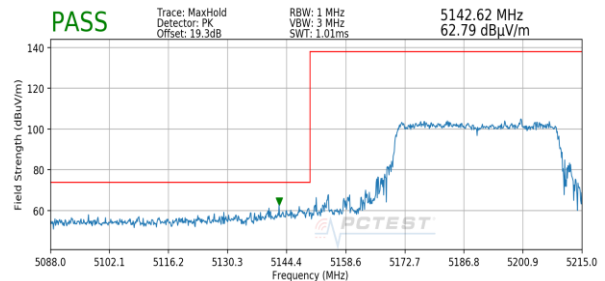
### 7.6.3 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

#### 484 Tones

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

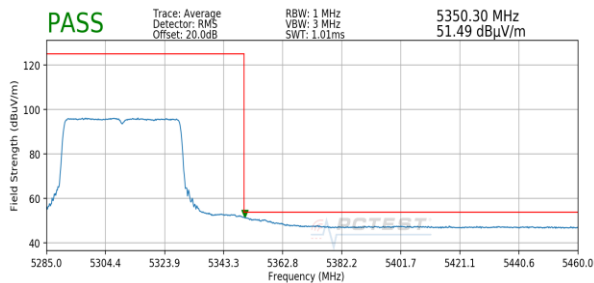


**Plot 7-128. Radiated Lower Band Edge Plot (Average – UNII Band 1 – 484 Tones)**

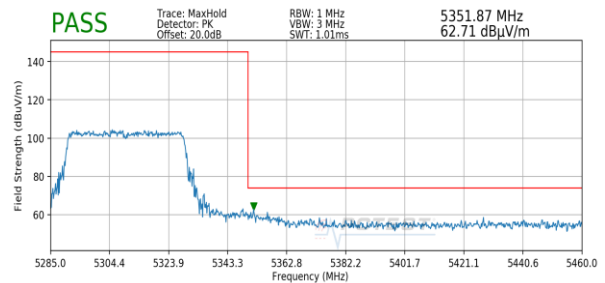


**Plot 7-129. Radiated Lower Band Edge Plot (Peak – UNII Band 1 – 484 Tones)**

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



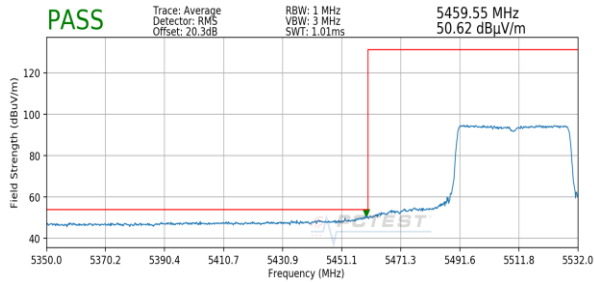
**Plot 7-130. Radiated Upper Band Edge Plot (Average – UNII Band 2A – 484 Tones)**



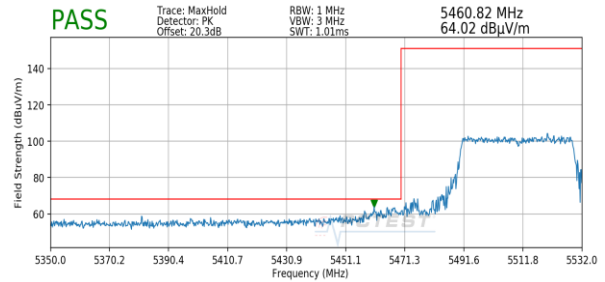
**Plot 7-131. Radiated Upper Band Edge Plot (Peak – UNII Band 2A – 484 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 65  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

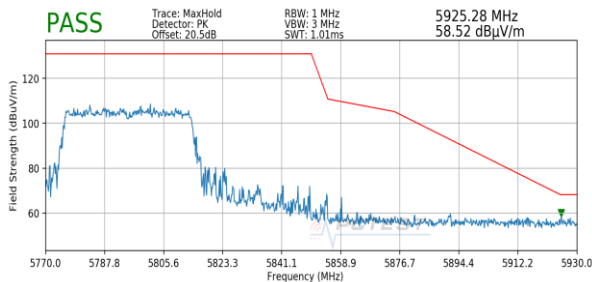


**Plot 7-132. Radiated Lower Band Edge Plot (Average – UNII Band 2C – 484 Tones)**



**Plot 7-133. Radiated Lower Band Edge Plot (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 7-134. Radiated Upper Band Edge Plot (Peak – UNII Band 3 – 484 Tones)**

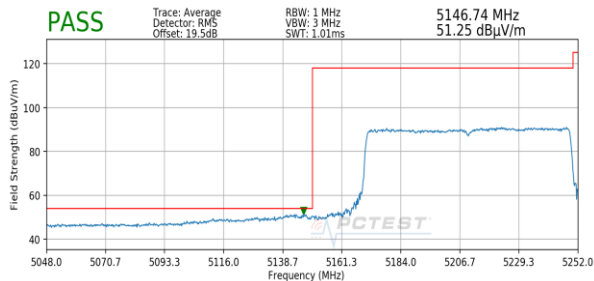
FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 110 of 113

## 7.6.4 Radiated Band Edge Measurements (80MHz BW)

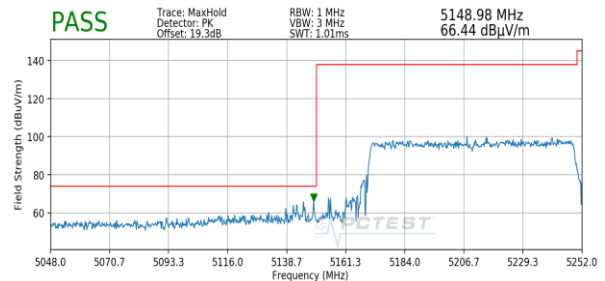
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

### 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

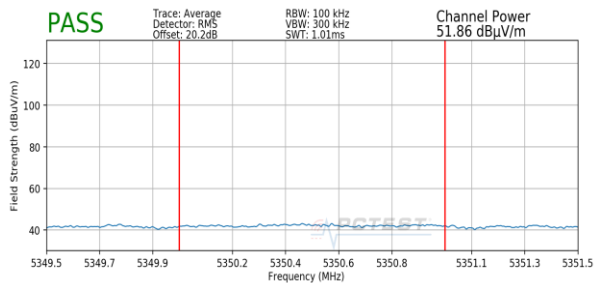


**Plot 7-135. Radiated Lower Band Edge Plot (Average – UNII Band 1 – 996 Tones)**

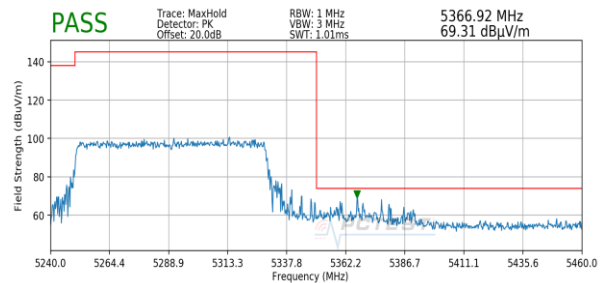


**Plot 7-136. Radiated Lower Band Edge Plot (Peak – UNII Band 1 – 996 Tones)**

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



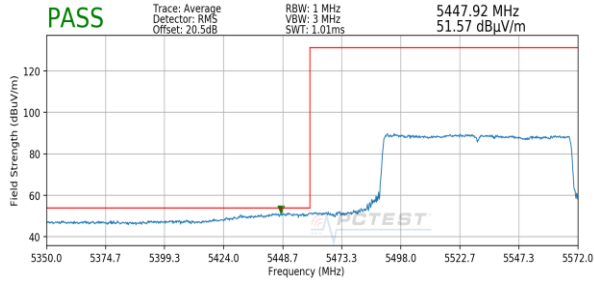
**Plot 7-137. Radiated Upper Band Edge Plot (Average – UNII Band 2A – 996 Tones)**



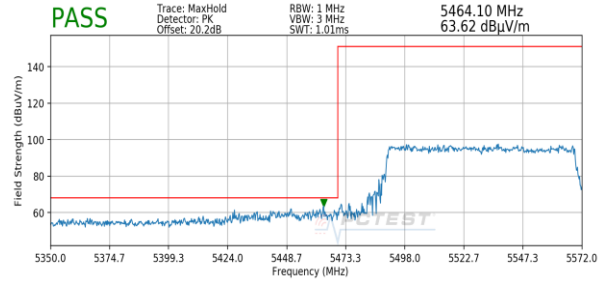
**Plot 7-138. Radiated Upper Band Edge Plot (Peak – UNII Band 2A – 996 Tones)**

FCC ID: A3LSMA528B	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 111 of 113

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

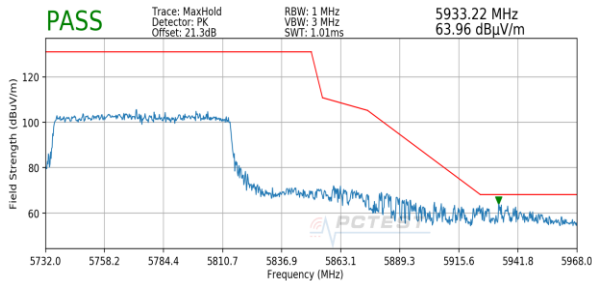


**Plot 7-139. Radiated Lower Band Edge Plot (Average – UNII Band 2C – 996 Tones)**



**Plot 7-140. Radiated Lower Band Edge Plot (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 7-141. Radiated Upper Band Edge Plot (Peak – UNII Band 3 – 996 Tones)**

FCC ID: A3LSMA528B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2106280072-08.A3L	Test Dates: 06/30/2021-7/27/2021	EUT Type: Portable Handset		Page 112 of 113

## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA528B** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: A3LSMA528B		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2106280072-08.A3L	<b>Test Dates:</b> 06/30/2021-7/27/2021	<b>EUT Type:</b> Portable Handset	Page 113 of 113	