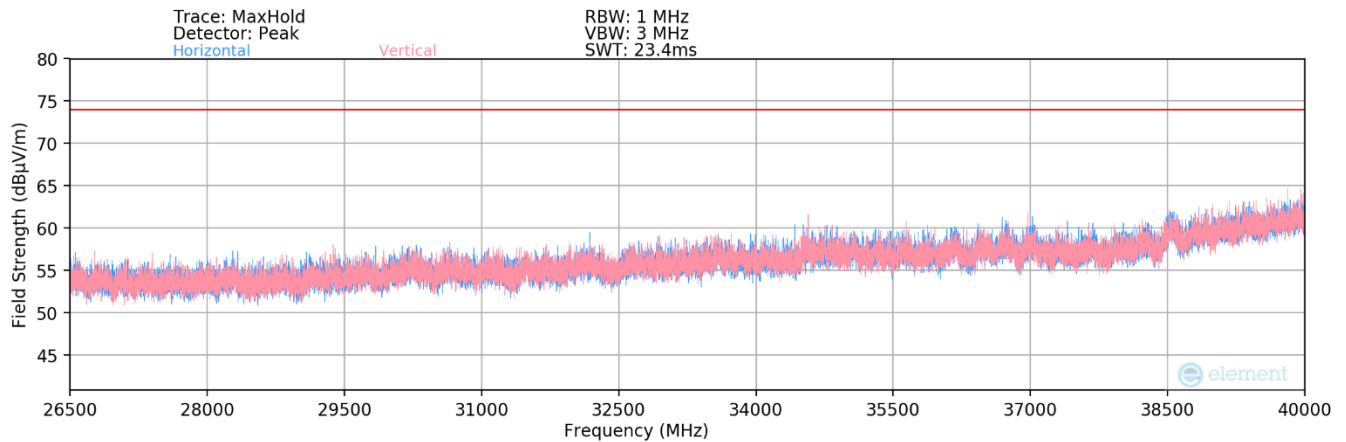


Plot 7-325. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 26 Tones) – Half Open



Plot 7-326. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 26 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 235 of 313

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SISO Antenna-1 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:	8
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	279	39	-65.78	11.85	0.00	53.07	68.20	-15.13
* 15540.00	Average	V	-	-	-80.41	16.63	0.00	43.22	53.98	-10.76
* 15540.00	Peak	V	-	-	-68.41	16.63	0.00	55.22	73.98	-18.76
* 20720.00	Average	V	-	-	-67.92	3.15	-9.54	32.69	53.98	-21.29
* 20720.00	Peak	V	-	-	-57.61	3.15	-9.54	42.99	73.98	-30.99
25900.00	Peak	V	-	-	-57.84	4.77	-9.54	44.39	68.20	-23.81

Table 7-99. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	0
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	296	366	-67.31	11.49	0.00	51.18	68.20	-17.02
* 15600.00	Average	V	-	-	-80.22	16.85	0.00	43.63	53.98	-10.35
* 15600.00	Peak	V	-	-	-68.53	16.85	0.00	55.32	73.98	-18.66
* 20800.00	Average	V	-	-	-66.98	3.48	-9.54	33.96	53.98	-20.02
* 20800.00	Peak	V	-	-	-59.65	3.48	-9.54	41.28	73.98	-32.69
26000.00	Peak	V	-	-	-57.27	5.15	-9.54	45.34	68.20	-22.86

Table 7-100. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset		Page 236 of 313

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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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	308	241	-68.24	12.01	0.00	50.77	68.20	-17.43
* 15720.00	Average	V	-	-	-80.30	17.21	0.00	43.91	53.98	-10.07
* 15720.00	Peak	V	-	-	-68.58	17.21	0.00	55.63	73.98	-18.35
* 20960.00	Average	V	-	-	-67.93	3.48	-9.54	33.00	53.98	-20.97
* 20960.00	Peak	V	-	-	-57.75	3.48	-9.54	43.19	73.98	-30.79
26200.00	Peak	V	-	-	-56.91	4.78	-9.54	45.32	68.20	-22.88

Table 7-101. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 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	346	332	-67.60	12.54	0.00	51.94	68.20	-16.26
* 15780.00	Average	V	-	-	-80.47	17.03	0.00	43.56	53.98	-10.42
* 15780.00	Peak	V	-	-	-68.35	17.03	0.00	55.68	73.98	-18.30
* 21040.00	Average	V	-	-	-66.84	3.53	-9.54	34.14	53.98	-19.83
* 21040.00	Peak	V	-	-	-57.25	3.53	-9.54	43.74	73.98	-30.24
26300.00	Peak	V	-	-	-57.38	4.64	-9.54	44.72	68.20	-23.48

Table 7-102. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 237 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 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	292	136	-66.12	12.39	0.00	53.27	68.20	-14.93
* 15840.00	Average	V	-	-	-80.55	16.71	0.00	43.16	53.98	-10.82
* 15840.00	Peak	V	-	-	-69.10	16.71	0.00	54.61	73.98	-19.37
* 21120.00	Average	V	-	-	-67.54	3.68	-9.54	33.60	53.98	-20.38
* 21120.00	Peak	V	-	-	-57.23	3.68	-9.54	43.91	73.98	-30.07
26400.00	Peak	V	-	-	-67.21	4.78	-9.54	35.03	68.20	-33.17

Table 7-103. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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	284	220	-77.74	12.36	0.00	41.62	53.98	-12.36
* 10640.00	Peak	V	284	220	-63.53	12.36	0.00	55.83	73.98	-18.15
* 15960.00	Average	V	-	-	-80.80	18.25	0.00	44.45	53.98	-9.53
* 15960.00	Peak	V	-	-	-68.70	18.25	0.00	56.55	73.98	-17.43
* 21280.00	Average	V	-	-	-67.30	3.72	-9.54	33.88	53.98	-20.10
* 21280.00	Peak	V	-	-	-57.48	3.72	-9.54	43.70	73.98	-30.28
26600.00	Peak	V	-	-	-57.03	4.72	-9.54	45.15	68.20	-23.05

Table 7-104. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 238 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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	283	66	-78.24	12.61	0.00	41.37	53.98	-12.61
* 11000.00	Peak	V	283	66	-65.30	12.61	0.00	54.31	73.98	-19.67
16500.00	Peak	V	-	-	-68.78	18.00	0.00	56.22	68.20	-11.98
22000.00	Peak	V	-	-	-57.80	3.83	-9.54	43.48	68.20	-24.72
27500.00	Peak	V	-	-	-56.41	4.96	-9.54	46.01	68.20	-22.19

Table 7-105. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 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	286	224	-77.70	12.49	0.00	41.79	53.98	-12.19
* 11200.00	Peak	V	286	224	-64.53	12.49	0.00	54.96	73.98	-19.02
16800.00	Peak	V	-	-	-68.86	18.32	0.00	56.46	68.20	-11.74
* 22400.00	Average	V	-	-	-66.88	3.79	-9.54	34.37	53.98	-19.61
* 22400.00	Peak	V	-	-	-57.02	3.79	-9.54	44.23	73.98	-29.75
28000.00	Peak	V	-	-	-57.42	4.94	-9.54	44.98	68.20	-23.22

Table 7-106. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset		Page 239 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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	321	96	-78.78	12.91	0.00	41.13	53.98	-12.84
* 11440.00	Peak	V	321	96	-65.45	12.91	0.00	54.46	73.98	-19.51
17160.00	Peak	V	-	-	-68.43	17.87	0.00	56.44	68.20	-11.76
* 22880.00	Average	V	-	-	-67.22	3.79	-9.54	34.02	53.98	-19.96
* 22880.00	Peak	V	-	-	-57.32	3.79	-9.54	43.93	73.98	-30.05
28600.00	Peak	V	-	-	-56.74	5.27	-9.54	45.99	68.20	-22.21

Table 7-107. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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	317	271	-79.82	13.32	0.00	40.50	53.98	-13.47
* 11490.00	Peak	V	317	271	-67.62	13.32	0.00	52.70	73.98	-21.27
17235.00	Peak	V	-	-	-68.73	17.85	0.00	56.12	68.20	-12.08
* 22980.00	Average	V	-	-	-68.12	3.79	-9.54	33.13	53.98	-20.85
* 22980.00	Peak	V	-	-	-57.41	3.79	-9.54	43.84	73.98	-30.14
28725.00	Peak	V	-	-	-58.51	5.41	-9.54	44.35	68.20	-23.85

Table 7-108. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 240 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 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	299	175	-78.70	12.93	0.00	41.23	53.98	-12.75
* 11570.00	Peak	V	299	175	-65.31	12.93	0.00	54.62	73.98	-19.36
17355.00	Peak	V	-	-	-68.70	18.36	0.00	56.66	68.20	-11.54
23140.00	Peak	V	-	-	-56.78	3.75	-9.54	44.42	68.20	-23.78
28925.00	Peak	V	-	-	-57.27	5.46	-9.54	45.65	68.20	-22.55

Table 7-109. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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	279	370	-79.90	13.82	0.00	40.92	53.98	-13.06
* 11650.00	Peak	V	279	370	-67.63	13.82	0.00	53.19	73.98	-20.79
17475.00	Peak	V	-	-	-68.47	17.74	0.00	56.27	68.20	-11.93
23300.00	Peak	V	-	-	-57.13	3.76	-9.54	44.09	68.20	-24.11
29125.00	Peak	V	-	-	-56.94	5.54	-9.54	46.06	68.20	-22.14

Table 7-110. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 241 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169

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]
* 11690.00	Average	V	-	-	-80.87	13.95	0.00	40.08	53.98	-13.90
* 11690.00	Peak	V	-	-	-68.80	13.95	0.00	52.15	73.98	-21.83
17535.00	Peak	V	-	-	-67.83	18.12	0.00	57.29	68.20	-10.91
23380.00	Peak	V	-	-	-55.96	3.85	-9.54	54.88	68.20	-13.32
29225.00	Peak	V	-	-	-56.27	5.60	-9.54	56.33	68.20	-11.87
35070.00	Peak	V	-	-	-54.85	8.11	-9.54	60.26	68.20	-7.94

Table 7-111. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5865MHz
 Channel: 173

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]
* 11730.00	Average	V	-	-	-80.67	14.16	0.00	40.49	53.98	-13.49
* 11730.00	Peak	V	-	-	-67.92	14.16	0.00	53.24	73.98	-20.74
17595.00	Peak	V	-	-	67.98	18.19	0.00	193.17	68.20	124.97
23460.00	Peak	V	-	-	-55.79	3.85	-9.54	55.07	68.20	-13.13
29325.00	Peak	V	-	-	-55.50	5.85	-9.54	57.36	68.20	-10.84
35190.00	Peak	V	-	-	-55.10	8.16	-9.54	60.07	68.20	-8.13

Table 7-112. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 242 of 313

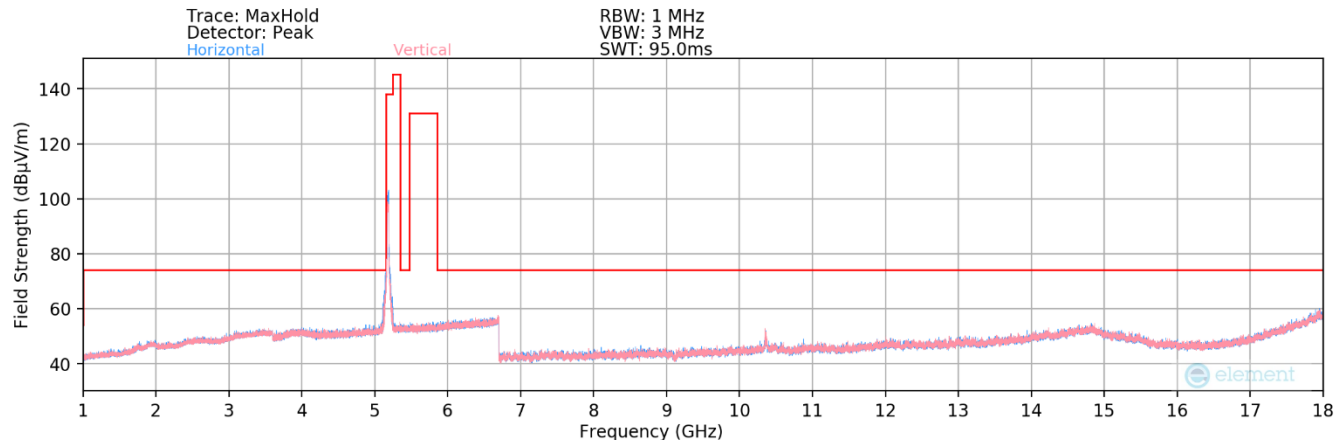
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

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]
* 11770.00	Average	V	-	-	-80.24	14.19	0.00	40.95	53.98	-13.03
* 11770.00	Peak	V	-	-	-68.48	14.19	0.00	52.71	73.98	-21.27
17655.00	Peak	V	-	-	-68.06	18.07	0.00	57.01	68.20	-11.19
23540.00	Peak	V	-	-	-56.18	3.84	-9.54	54.67	68.20	-13.53
29425.00	Peak	V	-	-	-55.50	5.87	-9.54	57.37	68.20	-10.83
35310.00	Peak	V	-	-	-54.13	8.04	-9.54	60.91	68.20	-7.29

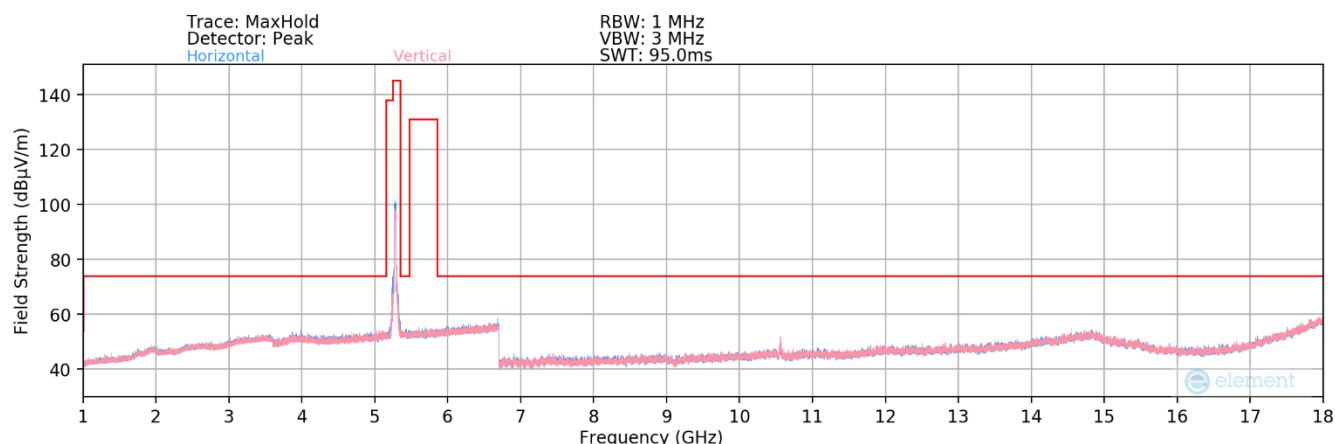
Table 7-113. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 243 of 313

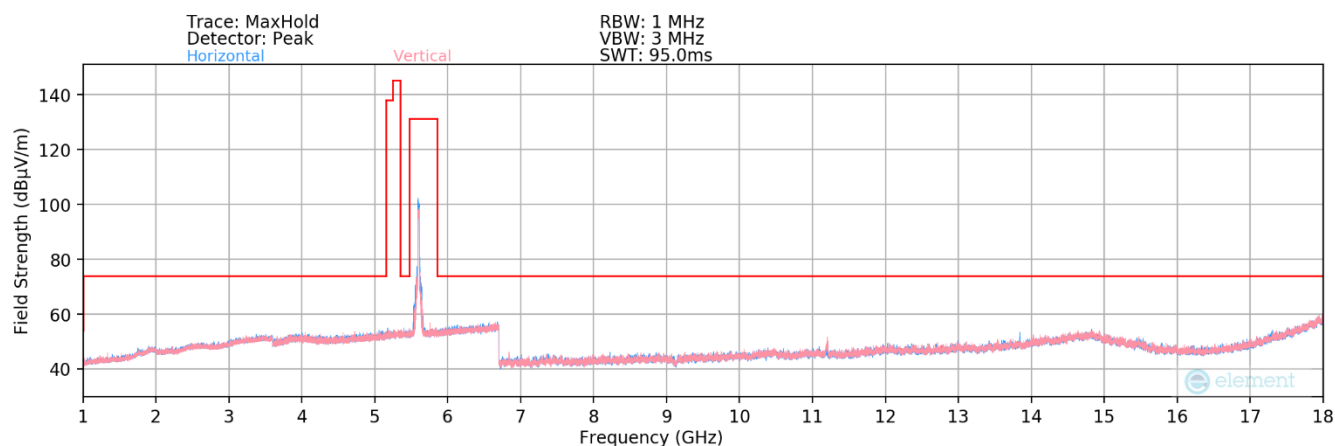
242 Tones



Plot 7-327. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones) – Closed

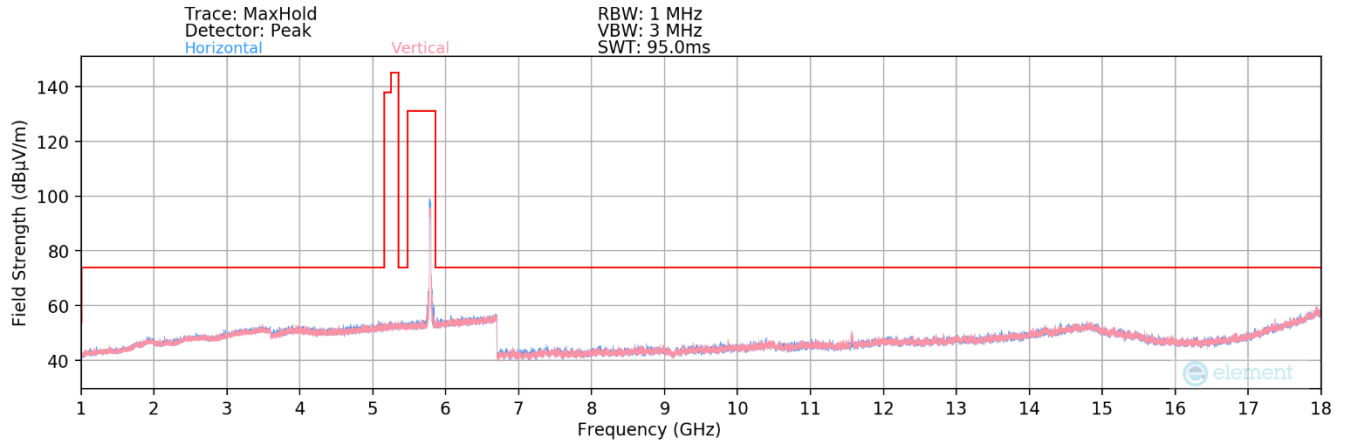


Plot 7-328. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones) – Closed

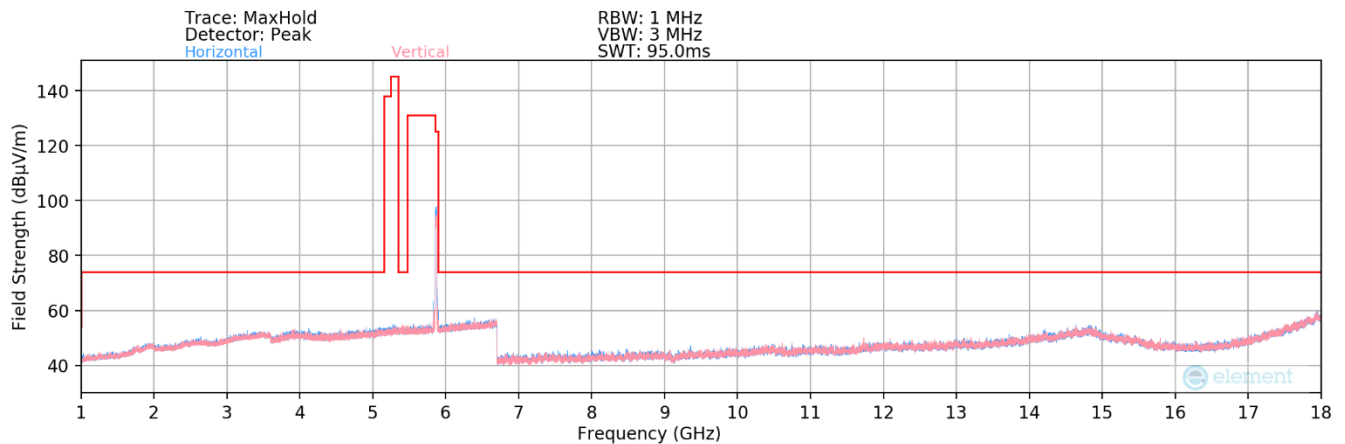


Plot 7-329. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones) – Closed

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 244 of 313

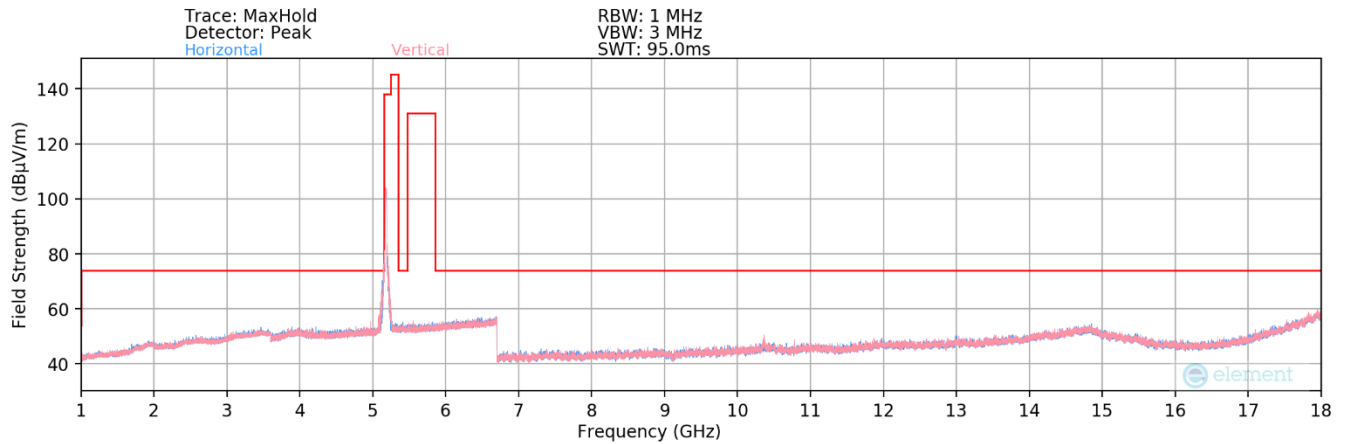


Plot 7-330. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones) – Closed

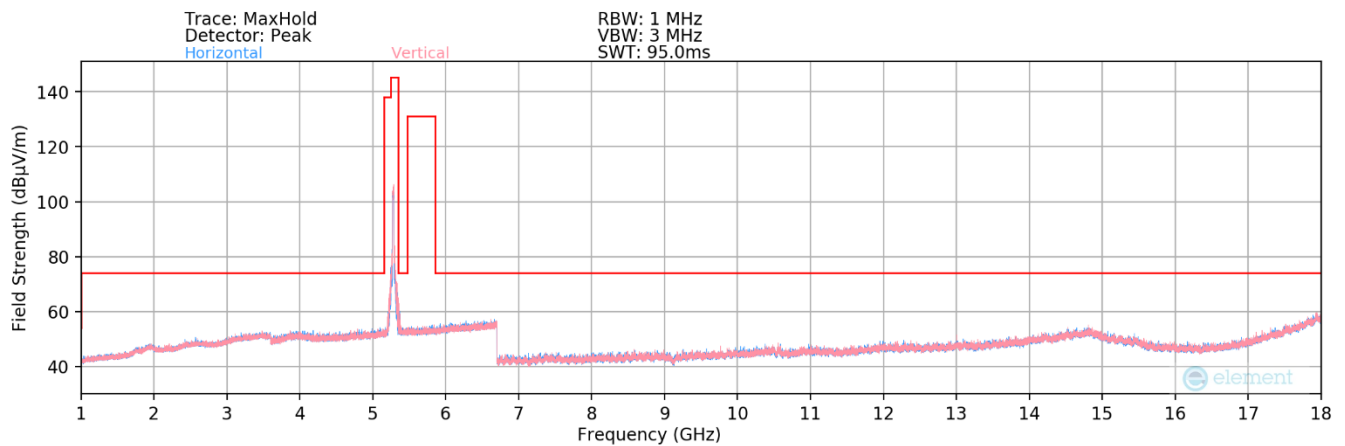


Plot 7-331. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U4 Ch. 173 – 242 Tones) – Closed

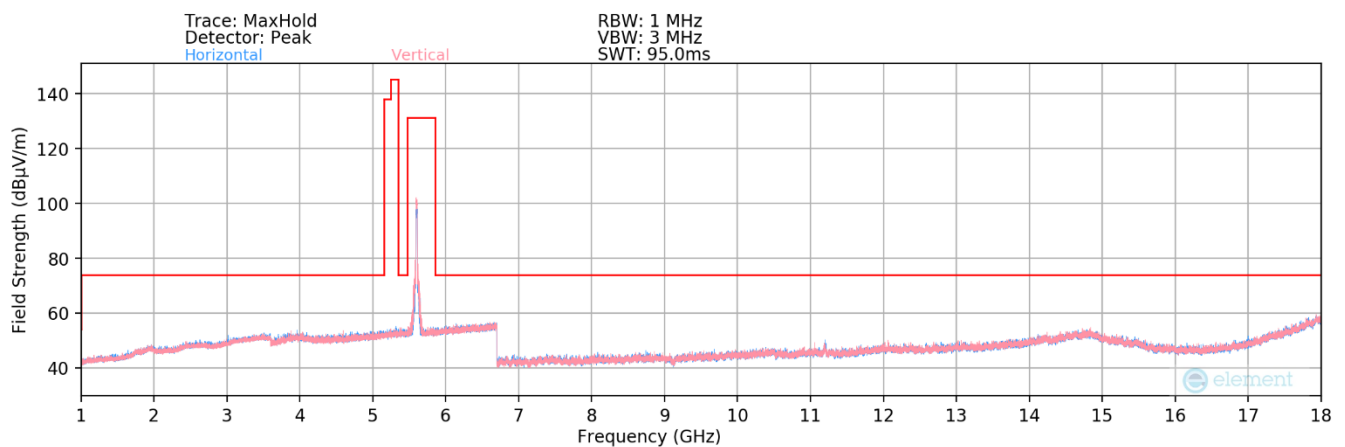
FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 245 of 313



Plot 7-332. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones) – Half Open

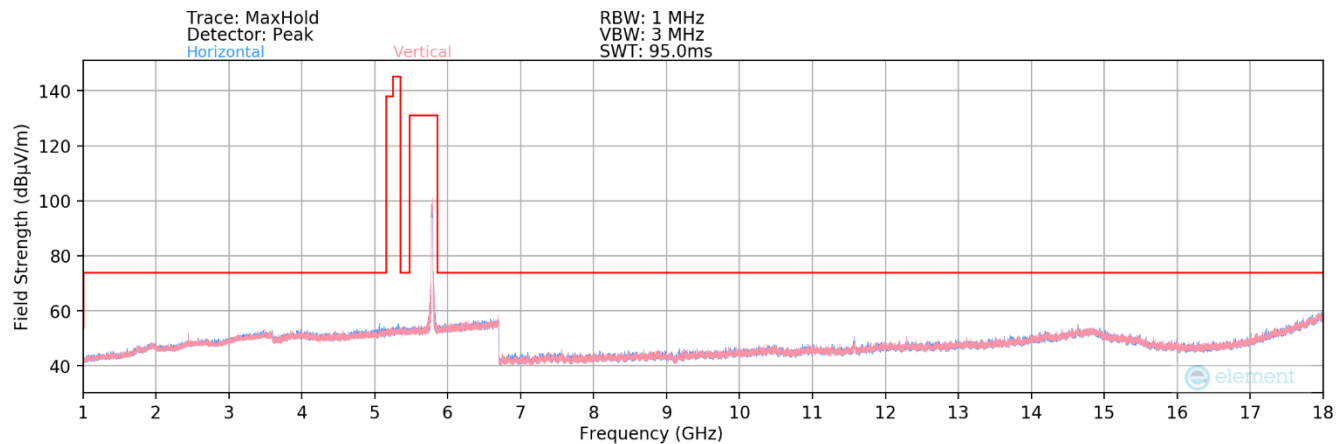


Plot 7-333. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones) – Half Open

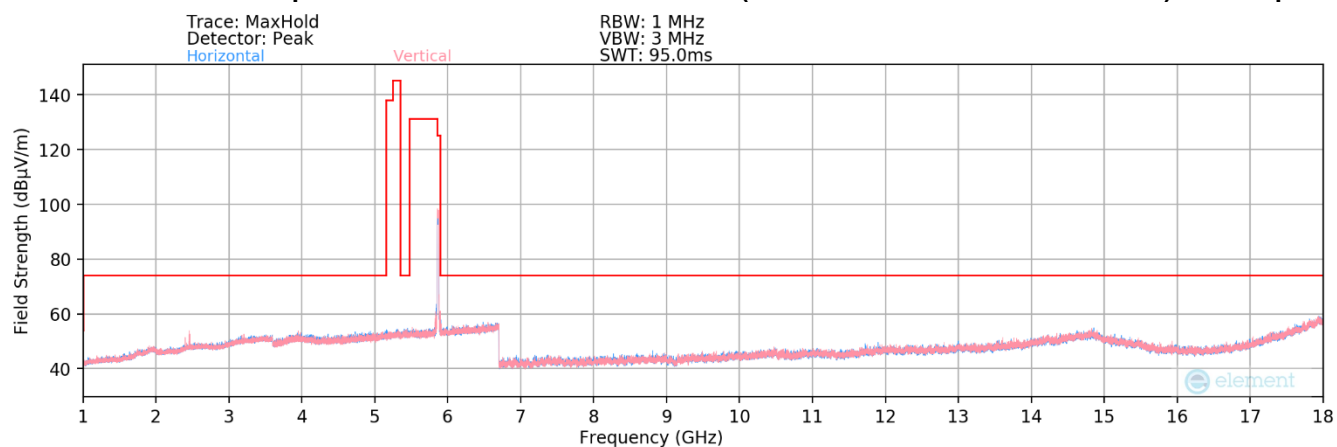


Plot 7-334. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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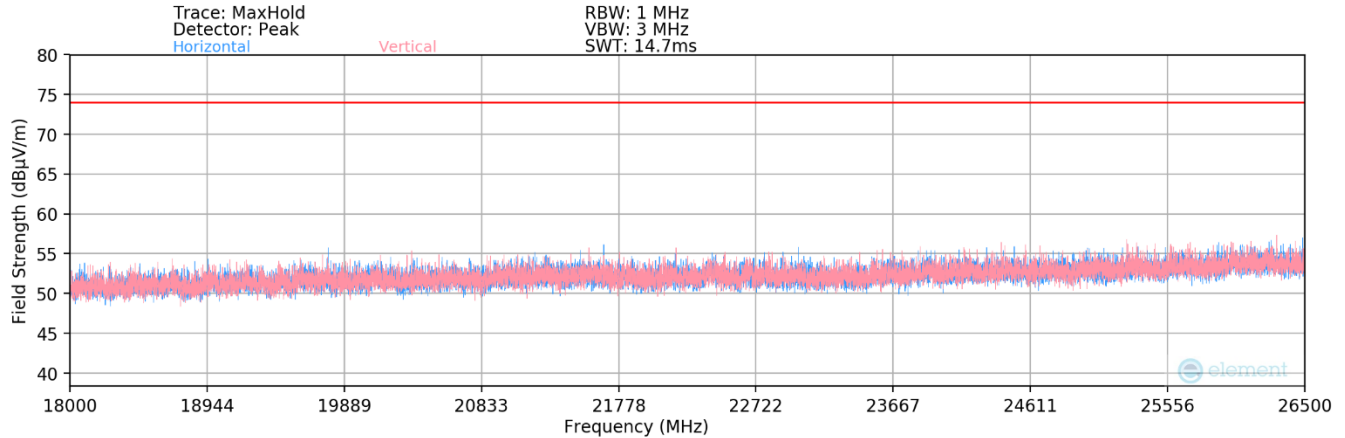
Plot 7-335. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones) – Half Open



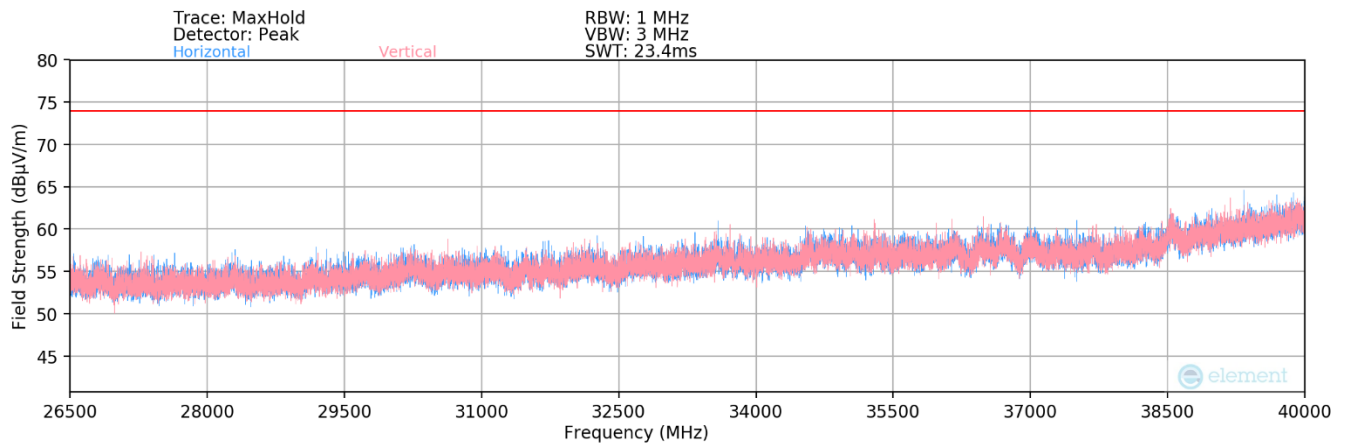
Plot 7-336. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U4 Ch. 173 – 242 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



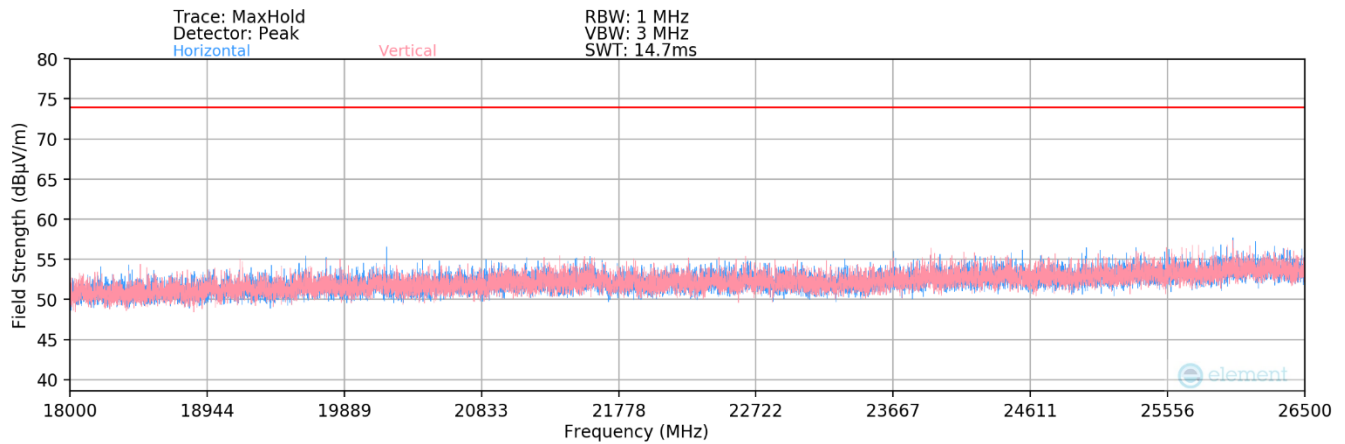
Plot 7-337. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 242 Tones) – Closed



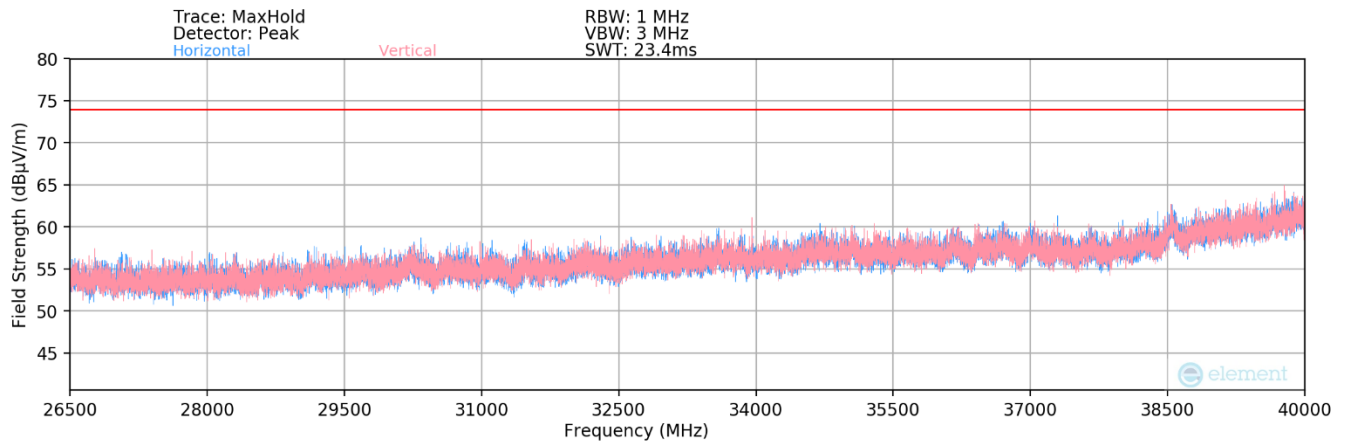
Plot 7-338. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 242 Tones) – Closed

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-339. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 242 Tones) – Half Open



Plot 7-340. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 242 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 249 of 313

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	V	288	224	-67.12	11.85	0.00	51.73	68.20	-16.47
* 15540.00	Average	V	-	-	-80.39	16.63	0.00	43.24	53.98	-10.74
* 15540.00	Peak	V	-	-	-68.70	16.63	0.00	54.93	73.98	-19.05
* 20720.00	Average	V	-	-	-67.15	3.15	-9.54	33.46	53.98	-20.52
* 20720.00	Peak	V	-	-	-59.43	3.15	-9.54	41.18	73.98	-32.80
25900.00	Peak	V	-	-	-57.01	4.77	-9.54	45.22	68.20	-22.98

Table 7-114. 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	V	288	242	-65.91	11.49	0.00	52.58	68.20	-15.62
* 15600.00	Average	V	-	-	-80.50	16.85	0.00	43.35	53.98	-10.63
* 15600.00	Peak	V	-	-	-68.66	16.85	0.00	55.19	73.98	-18.79
* 20800.00	Average	V	-	-	-66.55	3.48	-9.54	34.38	53.98	-19.60
* 20800.00	Peak	V	-	-	-57.28	3.48	-9.54	43.66	73.98	-30.32
26000.00	Peak	V	-	-	-57.66	5.15	-9.54	44.94	68.20	-23.26

Table 7-115. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical 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: 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	281	220	-66.11	12.01	0.00	52.90	68.20	-15.30
* 15720.00	Average	V	-	-	-80.39	17.21	0.00	43.82	53.98	-10.16
* 15720.00	Peak	V	-	-	-68.67	17.21	0.00	55.54	73.98	-18.44
* 20960.00	Average	V	-	-	-67.08	3.48	-9.54	33.85	53.98	-20.13
* 20960.00	Peak	V	-	-	-57.97	3.48	-9.54	42.97	73.98	-31.01
26200.00	Peak	V	-	-	-56.81	4.78	-9.54	45.43	68.20	-22.77

Table 7-116. 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: 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	318	59	-67.00	12.54	0.00	52.54	68.20	-15.66
* 15780.00	Average	V	-	-	-80.50	17.03	0.00	43.53	53.98	-10.45
* 15780.00	Peak	V	-	-	-68.81	17.03	0.00	55.22	73.98	-18.76
* 21040.00	Average	V	-	-	-67.23	3.53	-9.54	33.76	53.98	-20.22
* 21040.00	Peak	V	-	-	-58.14	3.53	-9.54	42.84	73.98	-31.14
26300.00	Peak	V	-	-	-57.61	4.64	-9.54	44.49	68.20	-23.71

Table 7-117. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 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	316	43	-64.97	12.39	0.00	54.42	68.20	-13.78
* 15840.00	Average	V	-	-	-80.53	16.71	0.00	43.18	53.98	-10.80
* 15840.00	Peak	V	-	-	-68.74	16.71	0.00	54.97	73.98	-19.01
* 21120.00	Average	V	-	-	-66.89	3.68	-9.54	34.25	53.98	-19.73
* 21120.00	Peak	V	-	-	-56.93	3.68	-9.54	44.21	73.98	-29.77
26400.00	Peak	V	-	-	-56.83	4.78	-9.54	45.41	68.20	-22.79

Table 7-118. 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	V	339	48	-76.81	12.36	0.00	42.55	53.98	-11.43
* 10640.00	Peak	V	339	48	-64.77	12.36	0.00	54.59	73.98	-19.39
* 15960.00	Average	V	-	-	-79.87	18.25	0.00	45.38	53.98	-8.60
* 15960.00	Peak	V	-	-	-68.10	18.25	0.00	57.15	73.98	-16.83
* 21280.00	Average	V	-	-	-67.23	3.72	-9.54	33.94	53.98	-20.04
* 21280.00	Peak	V	-	-	-58.29	3.72	-9.54	42.89	73.98	-31.09
26600.00	Peak	V	-	-	-57.03	4.72	-9.54	45.14	68.20	-23.06

Table 7-119. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical 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: 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	305	350	-78.34	12.61	0.00	41.27	53.98	-12.71
* 11000.00	Peak	V	305	350	-66.06	12.61	0.00	53.55	73.98	-20.43
16500.00	Peak	V	-	-	-67.74	18.00	0.00	57.26	68.20	-10.94
22000.00	Peak	V	-	-	-57.36	3.83	-9.54	43.93	68.20	-24.27
27500.00	Peak	V	-	-	-55.62	4.96	-9.54	46.80	68.20	-21.40

Table 7-120. 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	V	316	171	-77.18	12.49	0.00	42.31	53.98	-11.67
* 11200.00	Peak	V	316	171	-64.45	12.49	0.00	55.04	73.98	-18.94
16800.00	Peak	V	-	-	-68.90	18.32	0.00	56.42	68.20	-11.78
* 22400.00	Average	V	-	-	-66.77	3.79	-9.54	34.48	53.98	-19.50
* 22400.00	Peak	V	-	-	-56.80	3.79	-9.54	44.45	73.98	-29.53
28000.00	Peak	V	-	-	-56.77	4.94	-9.54	45.63	68.20	-22.57

Table 7-121. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 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	278	170	-77.67	12.91	0.00	42.24	53.98	-11.73
* 11440.00	Peak	V	278	170	-65.48	12.91	0.00	54.43	73.98	-19.54
17160.00	Peak	V	-	-	-68.06	17.87	0.00	56.81	68.20	-11.39
* 22880.00	Average	V	-	-	-66.78	3.79	-9.54	34.47	53.98	-19.51
* 22880.00	Peak	V	-	-	-57.38	3.79	-9.54	43.86	73.98	-30.12
28600.00	Peak	V	-	-	-56.99	5.27	-9.54	45.74	68.20	-22.46

Table 7-122. 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: 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	297	179	-77.77	13.32	0.00	42.55	53.98	-11.42
* 11490.00	Peak	V	297	179	-63.89	13.32	0.00	56.43	73.98	-17.54
17235.00	Peak	V	-	-	-67.98	17.85	0.00	56.87	68.20	-11.33
* 22980.00	Average	V	-	-	-68.01	3.79	-9.54	33.23	53.98	-20.74
* 22980.00	Peak	V	-	-	-57.59	3.79	-9.54	43.66	73.98	-30.32
28725.00	Peak	V	-	-	-57.38	5.41	-9.54	45.49	68.20	-22.71

Table 7-123. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 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	281	178	-77.37	12.93	0.00	42.56	53.98	-11.42
* 11570.00	Peak	V	281	178	-63.93	12.93	0.00	56.00	73.98	-17.98
17355.00	Peak	V	-	-	-68.75	18.36	0.00	56.61	68.20	-11.59
23140.00	Peak	V	-	-	-57.77	3.75	-9.54	43.44	68.20	-24.76
28925.00	Peak	V	-	-	-57.53	5.46	-9.54	45.38	68.20	-22.82

Table 7-124. 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: 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	287	181	-78.44	13.82	0.00	42.38	53.98	-11.60
* 11650.00	Peak	V	287	181	-65.62	13.82	0.00	55.20	73.98	-18.78
17475.00	Peak	V	-	-	-68.34	17.74	0.00	56.40	68.20	-11.80
23300.00	Peak	V	-	-	-59.10	3.76	-9.54	42.12	68.20	-26.08
29125.00	Peak	V	-	-	-57.71	5.54	-9.54	45.29	68.20	-22.91

Table 7-125. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 5845MHz
 Channel: 169

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]
* 11690.00	Average	V	304	182	-78.24	13.65	0.00	42.41	53.98	-11.57
* 11690.00	Peak	V	304	182	-65.38	13.65	0.00	55.27	73.98	-18.71
17535.00	Peak	V	-	-	-68.67	17.82	0.00	56.15	68.20	-12.05
23380.00	Peak	V	-	-	-56.10	3.85	-9.54	54.75	68.20	-13.45
29225.00	Peak	V	-	-	-55.58	5.60	-9.54	57.02	68.20	-11.18
35070.00	Peak	V	-	-	-55.14	8.11	-9.54	59.97	68.20	-8.23

Table 7-126. 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: 5865MHz
 Channel: 173

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]
* 11730.00	Average	V	333	194	-79.45	13.70	0.00	41.25	53.98	-12.73
* 11730.00	Peak	V	333	194	-66.89	13.70	0.00	53.81	73.98	-20.17
17595.00	Peak	V	-	-	-67.65	17.70	0.00	57.05	68.20	-11.15
23460.00	Peak	V	-	-	-56.79	3.85	-9.54	54.06	68.20	-14.14
29325.00	Peak	V	-	-	-55.40	5.85	-9.54	57.45	68.20	-10.75
35190.00	Peak	V	-	-	-56.63	8.16	-9.54	58.53	68.20	-9.67

Table 7-127. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical 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: 5885MHz
 Channel: 177

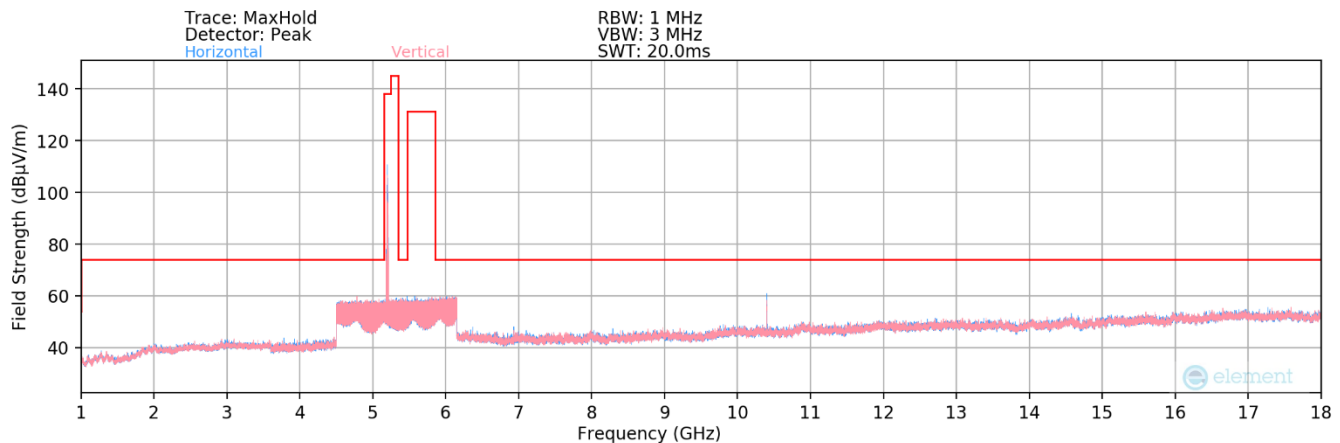
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11770.00	Average	V	299	199	-79.20	13.81	0.00	41.61	53.98	-12.37
* 11770.00	Peak	V	299	199	-66.89	13.81	0.00	53.92	73.98	-20.06
17655.00	Peak	V	-	-	-68.43	17.52	0.00	56.09	68.20	-12.11
23540.00	Peak	V	-	-	-55.96	3.84	-9.54	54.89	68.20	-13.31
29425.00	Peak	V	-	-	-56.13	5.87	-9.54	56.74	68.20	-11.46
35310.00	Peak	V	-	-	-55.29	8.04	-9.54	59.74	68.20	-8.46

Table 7-128. Radiated Measurements SISO ANT1 (242 Tones)

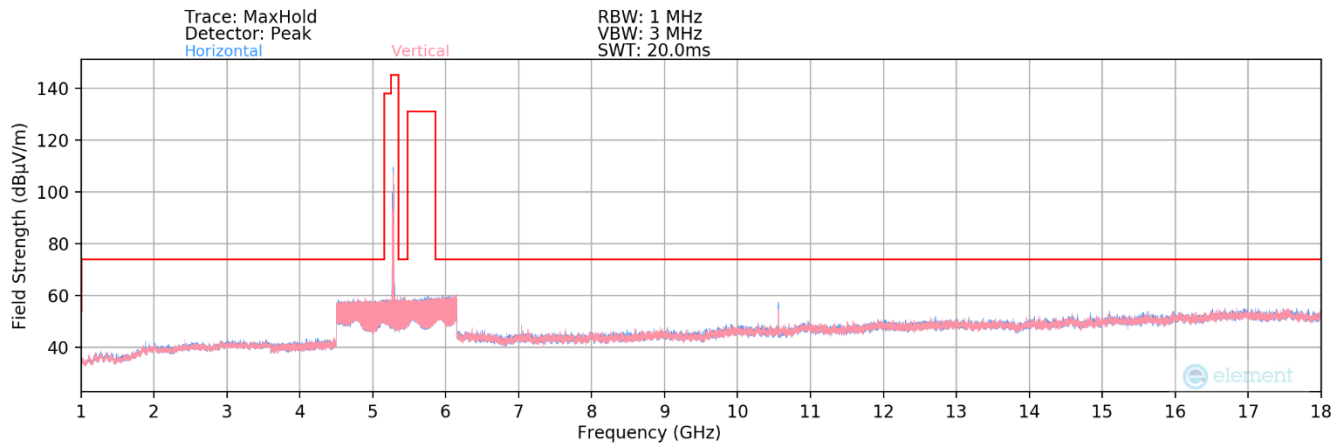
FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.6.2 MIMO Radiated Spurious Emission Measurements

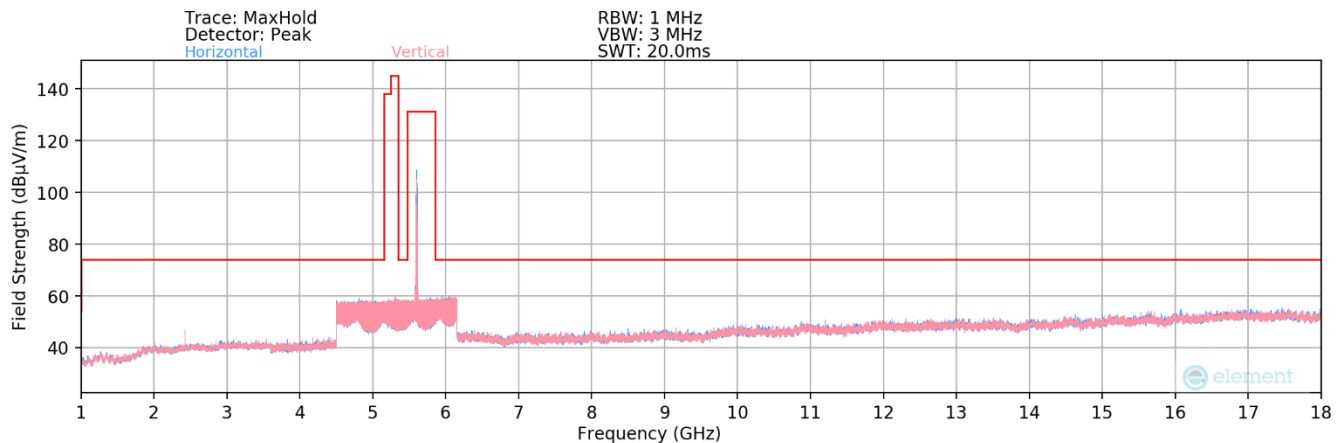
26 Tones



Plot 7-341. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 26 Tones) – Open



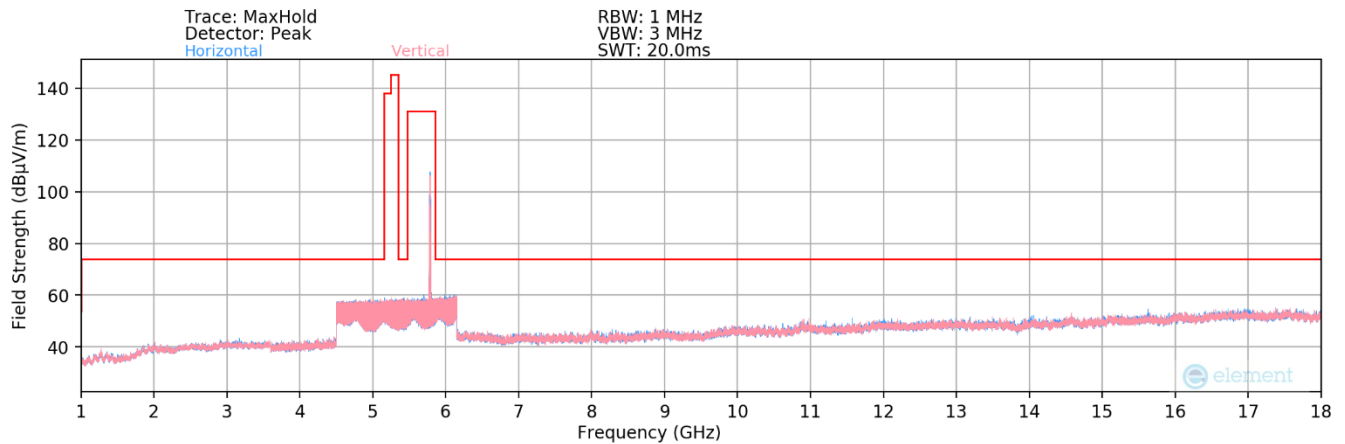
Plot 7-342. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 26 Tones) – Open



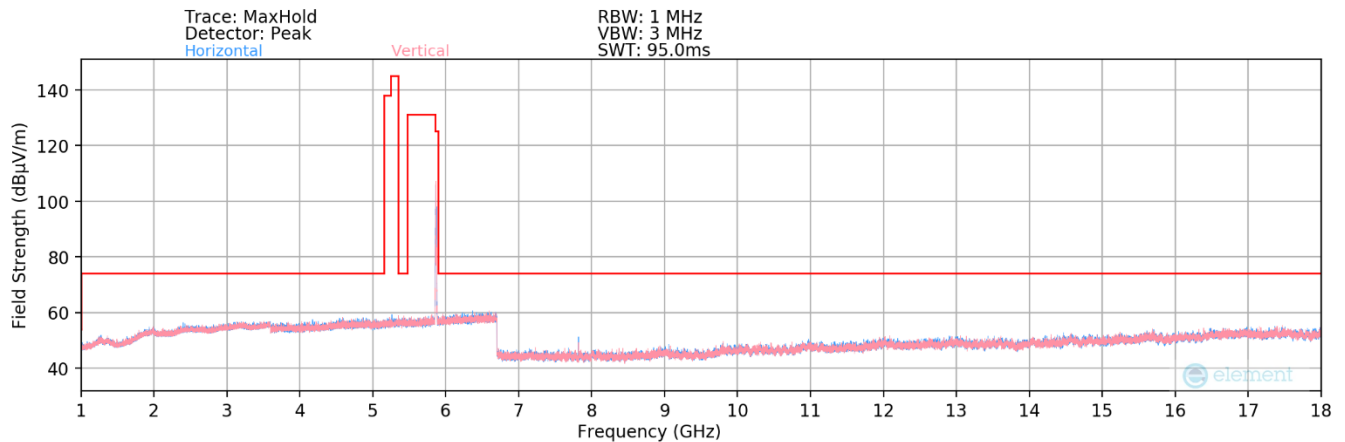
Plot 7-343. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 26 Tones) – Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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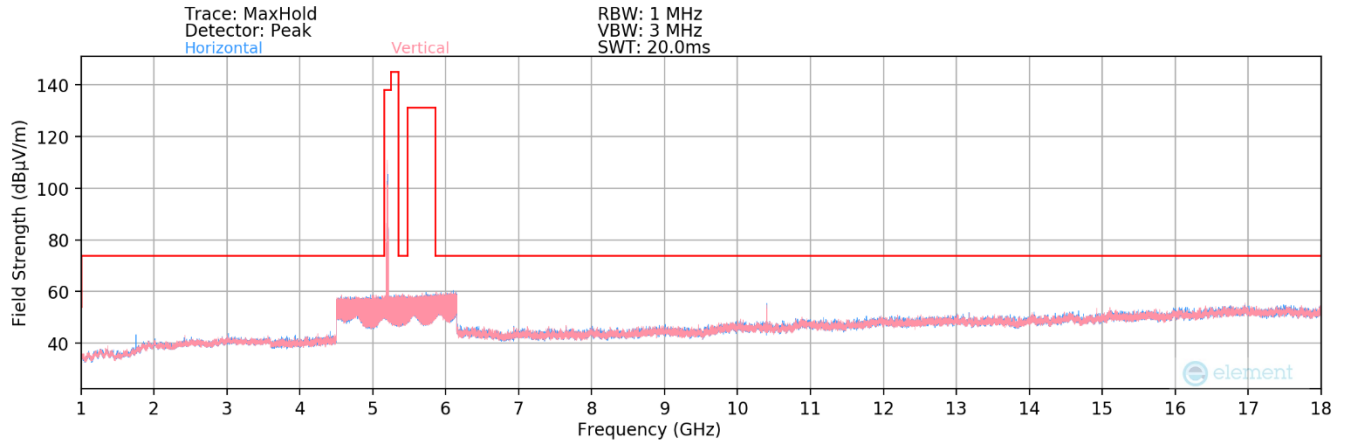


Plot 7-344. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 26 Tones) – Open

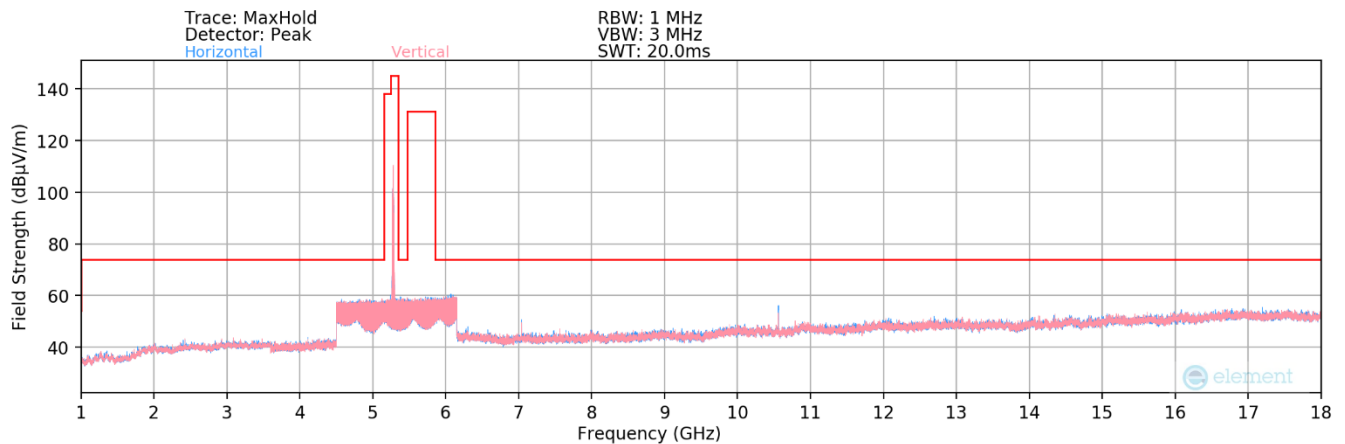


Plot 7-345. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U4 Ch. 173 – 26 Tones) – Open

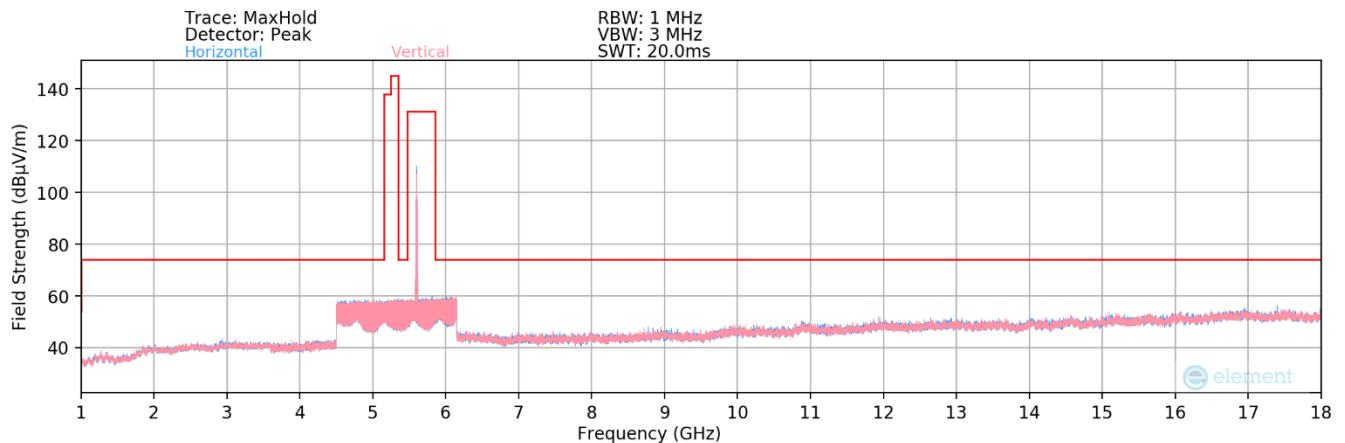
FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 259 of 313



Plot 7-346. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 26 Tones) – Half Open

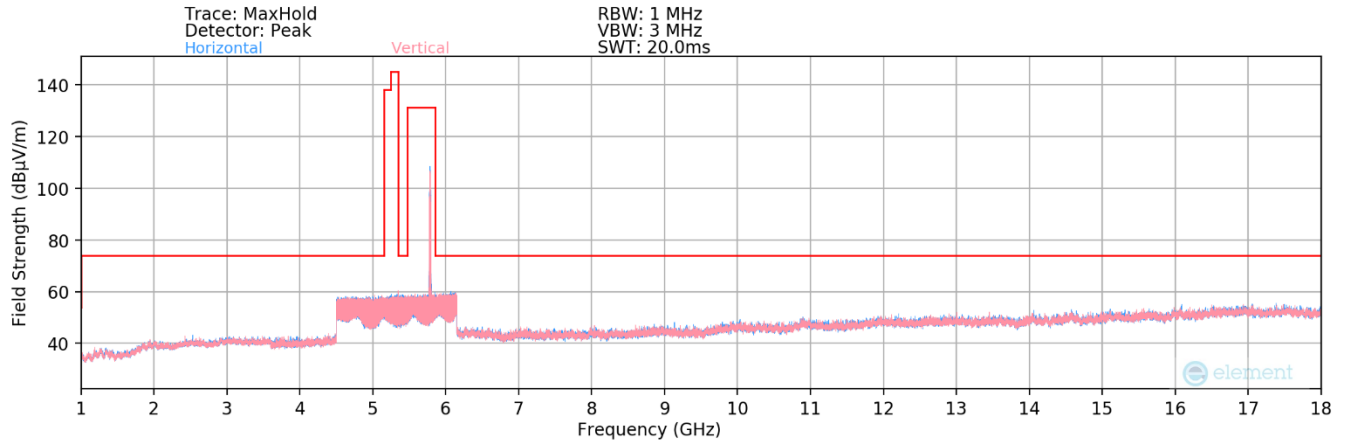


Plot 7-347. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 26 Tones) – Half Open

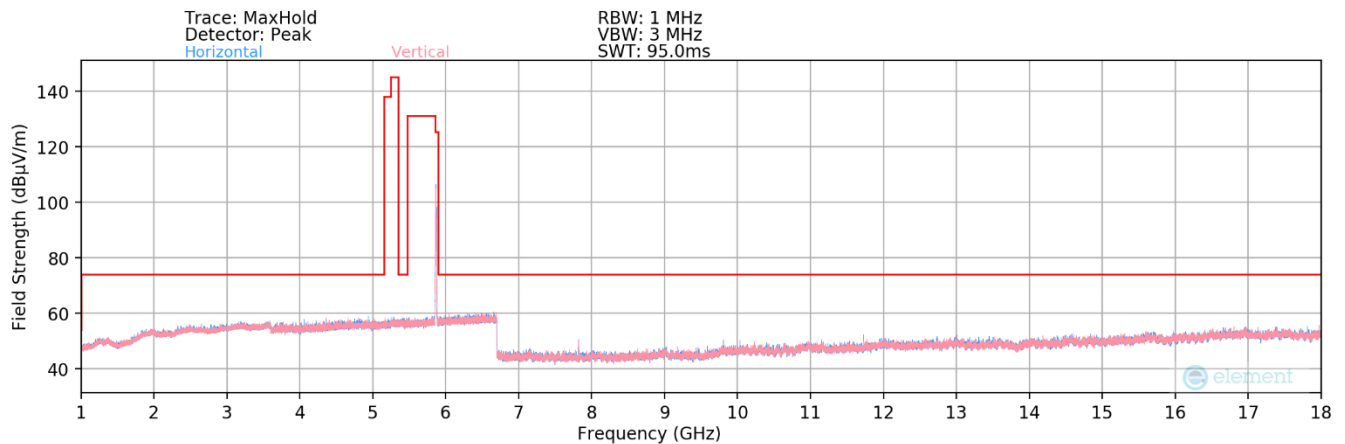


Plot 7-348. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 26 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 260 of 313



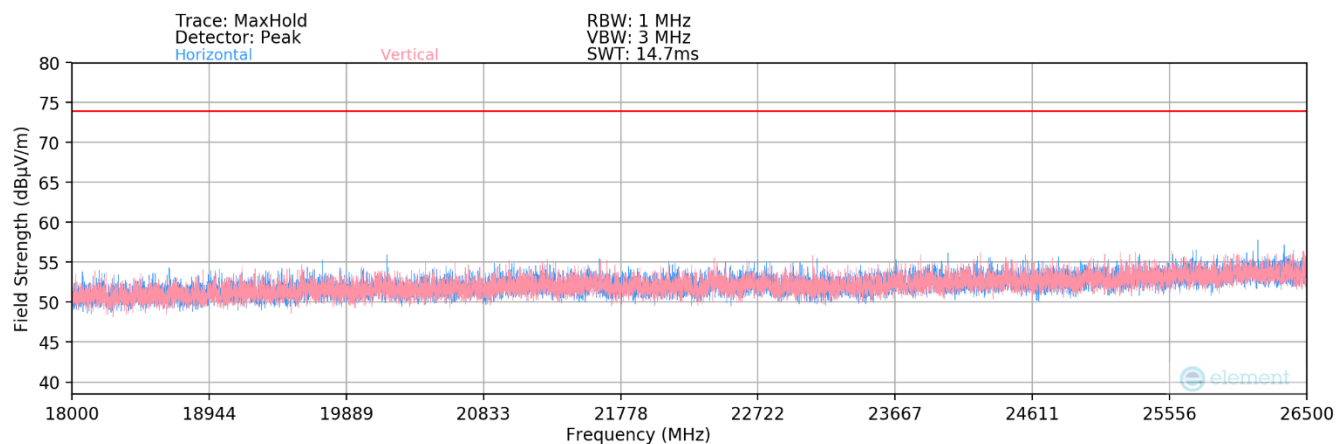
Plot 7-349. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 26 Tones) – Half Open



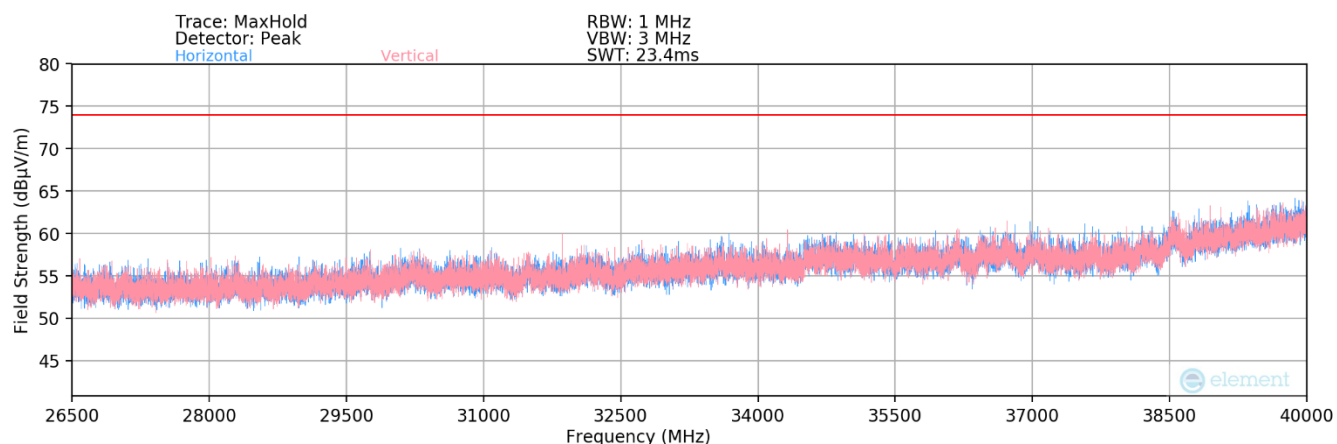
Plot 7-350. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U4 Ch. 173 – 26 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 261 of 313

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



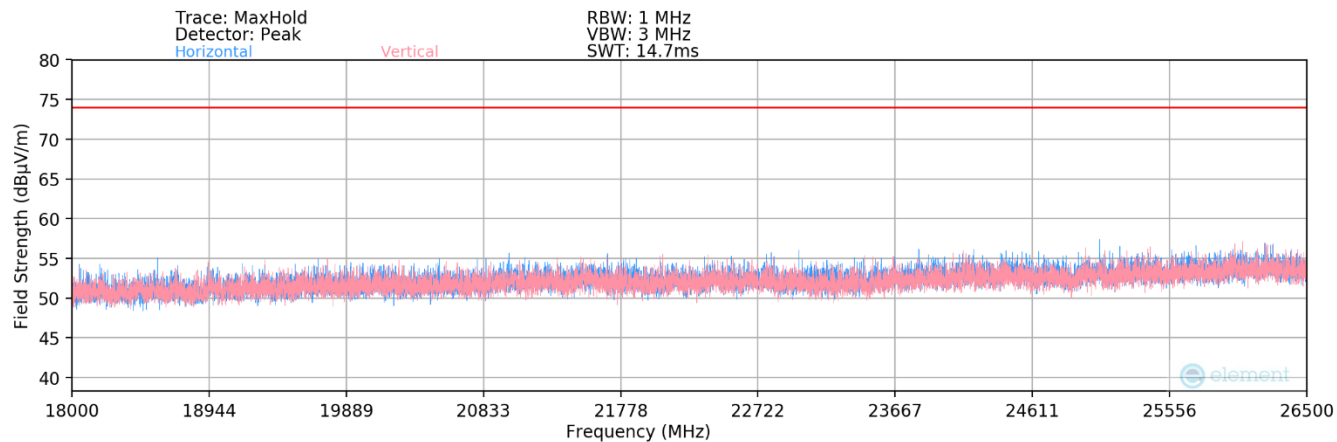
Plot 7-351. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 26 Tones) – Open



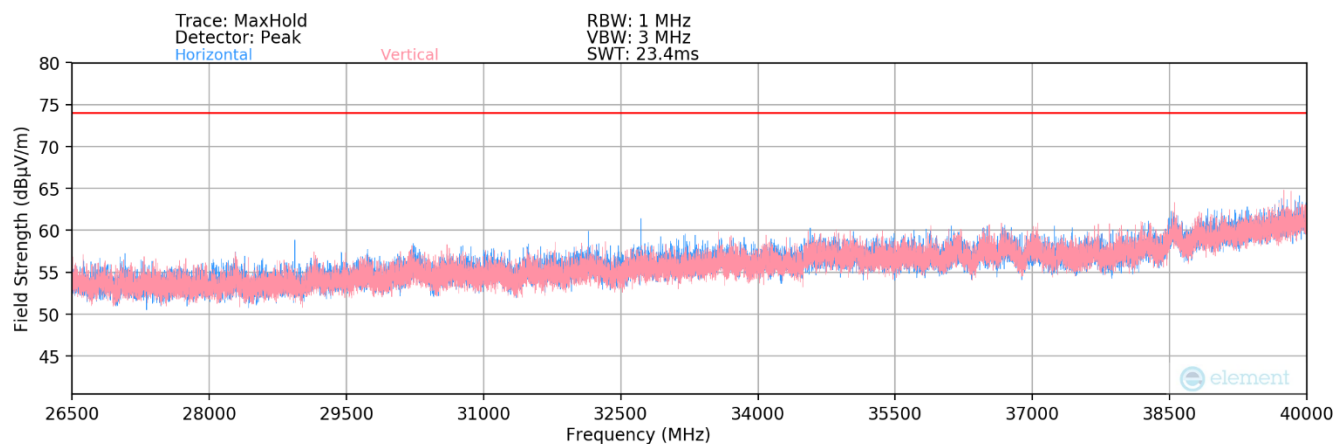
Plot 7-352. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 26 Tones) – Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 262 of 313

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Plot 7-353. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 26 Tones) – Half Open



Plot 7-354. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 26 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 263 of 313

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MIMO 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: 0
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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	Peak	H	215	335	-55.16	11.85	63.69	68.20	-4.51
* 15540.00	Average	H	-	-	-80.38	16.63	43.25	53.98	-10.73
* 15540.00	Peak	H	-	-	-68.96	16.63	54.67	73.98	-19.31
* 20720.00	Average	H	-	-	-66.62	3.15	33.99	53.98	-19.99
* 20720.00	Peak	H	-	-	-58.13	3.15	42.47	73.98	-31.50
25900.00	Peak	H	-	-	-58.33	4.77	43.90	68.20	-24.30

Table 7-129. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 0
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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	Peak	H	208	338	-55.52	11.49	62.97	68.20	-5.23
* 15600.00	Average	H	-	-	-80.13	16.85	43.72	53.98	-10.26
* 15600.00	Peak	H	-	-	-68.39	16.85	55.46	73.98	-18.52
* 20800.00	Average	H	-	-	-66.42	3.48	34.52	53.98	-19.46
* 20800.00	Peak	H	-	-	-57.18	3.48	43.76	73.98	-30.22
26000.00	Peak	H	-	-	-56.03	5.15	46.58	68.20	-21.62

Table 7-130. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	207	330	-56.23	12.01	62.78	68.20	-5.42
* 15720.00	Average	H	-	-	-80.31	17.21	43.90	53.98	-10.08
* 15720.00	Peak	H	-	-	-68.23	17.21	55.98	73.98	-18.00
* 20960.00	Average	H	-	-	-67.75	3.48	33.19	53.98	-20.79
* 20960.00	Peak	H	-	-	-58.09	3.48	42.85	73.98	-31.13
26200.00	Peak	H	-	-	-55.68	4.78	46.56	68.20	-21.64

Table 7-131. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 8
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	202	308	-55.77	12.54	63.77	68.20	-4.43
* 15780.00	Average	H	-	-	-80.45	17.03	43.58	53.98	-10.40
* 15780.00	Peak	H	-	-	-68.55	17.03	55.48	73.98	-18.50
* 21040.00	Average	H	-	-	-67.78	3.53	33.21	53.98	-20.77
* 21040.00	Peak	H	-	-	-59.36	3.53	41.63	73.98	-32.35
26300.00	Peak	H	-	-	-57.39	4.64	44.71	68.20	-23.49

Table 7-132. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 265 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	204	306	-56.84	12.39	62.55	68.20	-5.65
* 15840.00	Average	H	-	-	-80.51	16.71	43.20	53.98	-10.78
* 15840.00	Peak	H	-	-	-68.97	16.71	54.74	73.98	-19.24
* 21120.00	Average	H	-	-	-66.96	3.68	34.18	53.98	-19.80
* 21120.00	Peak	H	-	-	-57.43	3.68	43.71	73.98	-30.27
26400.00	Peak	H	-	-	-57.41	4.78	44.83	68.20	-23.37

Table 7-133. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	334	71	-73.21	12.36	46.15	53.98	-7.83
* 10640.00	Peak	H	334	71	-58.89	12.36	60.47	73.98	-13.51
* 15960.00	Average	H	-	-	-80.82	18.25	44.43	53.98	-9.55
* 15960.00	Peak	H	-	-	-68.93	18.25	56.32	73.98	-17.66
* 21280.00	Average	H	-	-	-67.29	3.72	33.89	53.98	-20.09
* 21280.00	Peak	H	-	-	-57.35	3.72	43.83	73.98	-30.15
26600.00	Peak	H	-	-	-56.99	4.72	45.19	68.20	-23.01

Table 7-134. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 266 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	208	368	-77.61	12.61	42.00	53.98	-11.98
* 11000.00	Peak	H	208	368	-64.36	12.61	55.25	73.98	-18.73
16500.00	Peak	H	-	-	-67.95	18.00	57.05	68.20	-11.15
22000.00	Peak	H	-	-	-56.58	3.83	44.70	68.20	-23.50
27500.00	Peak	H	-	-	-55.93	4.96	46.49	68.20	-21.71

Table 7-135. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	H	178	93	-77.87	12.49	41.62	53.98	-12.36
* 11200.00	Peak	H	178	93	-63.23	12.49	56.26	73.98	-17.72
16800.00	Peak	H	-	-	-68.53	18.32	56.79	68.20	-11.41
* 22400.00	Average	H	-	-	-66.42	3.79	34.83	53.98	-19.15
* 22400.00	Peak	H	-	-	-56.46	3.79	44.79	73.98	-29.19
28000.00	Peak	H	-	-	-58.13	4.94	44.27	68.20	-23.93

Table 7-136. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	190	323	-78.62	12.91	41.29	53.98	-12.68
* 11440.00	Peak	H	190	323	-66.47	12.91	53.44	73.98	-20.53
17160.00	Peak	H	-	-	-68.35	17.87	56.52	68.20	-11.68
* 22880.00	Average	H	-	-	-66.77	3.79	34.47	53.98	-19.51
* 22880.00	Peak	H	-	-	-59.38	3.79	41.87	73.98	-32.11
28600.00	Peak	H	-	-	-57.35	5.27	45.38	68.20	-22.82

Table 7-137. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	202	318	-78.70	13.32	41.62	53.98	-12.35
* 11490.00	Peak	H	202	318	-66.12	13.32	54.20	73.98	-19.77
17235.00	Peak	H	-	-	-68.14	17.85	56.71	68.20	-11.49
* 22980.00	Average	H	-	-	-67.18	3.79	34.07	53.98	-19.91
* 22980.00	Peak	H	-	-	-58.40	3.79	42.85	73.98	-31.13
28725.00	Peak	H	-	-	-58.33	5.41	44.54	68.20	-23.66

Table 7-138. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 268 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	172	310	-78.18	12.93	41.75	53.98	-12.23
* 11570.00	Peak	H	172	310	-65.77	12.93	54.16	73.98	-19.82
17355.00	Peak	H	-	-	-68.57	18.36	56.79	68.20	-11.41
23140.00	Peak	H	-	-	-56.72	3.75	44.49	68.20	-23.71
28925.00	Peak	H	-	-	-57.28	5.46	45.63	68.20	-22.57

Table 7-139. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 0
 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]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	159	316	-78.88	13.82	41.94	53.98	-12.04
* 11650.00	Peak	H	159	316	-66.17	13.82	54.65	73.98	-19.33
17475.00	Peak	H	-	-	-68.42	17.74	56.32	68.20	-11.88
23300.00	Peak	H	-	-	-57.50	3.76	43.72	68.20	-24.48
29125.00	Peak	H	-	-	-56.69	5.54	46.31	68.20	-21.89

Table 7-140. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169

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]
* 11690.00	Average	H	140	318	-78.57	13.65	0.00	42.08	53.98	-11.90
* 11690.00	Peak	H	140	318	-66.14	13.65	0.00	54.51	73.98	-19.47
17535.00	Peak	H	-	-	-67.63	17.82	0.00	57.19	68.20	-11.01
23380.00	Peak	H	-	-	-56.11	3.85	-9.54	54.74	68.20	-13.46
29225.00	Peak	H	-	-	-56.48	5.60	-9.54	56.12	68.20	-12.08
35070.00	Peak	H	-	-	-54.28	8.11	-9.54	60.83	68.20	-7.37

Table 7-141. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5865MHz
 Channel: 173

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]
* 11730.00	Average	H	144	309	-78.77	13.70	0.00	41.93	53.98	-12.05
* 11730.00	Peak	H	144	309	-66.47	13.70	0.00	54.23	73.98	-19.75
17595.00	Peak	H	-	-	-68.02	17.70	0.00	56.68	68.20	-11.52
23460.00	Peak	H	-	-	-55.90	3.85	-9.54	54.96	68.20	-13.24
29325.00	Peak	H	-	-	-55.82	5.85	-9.54	57.03	68.20	-11.17
35190.00	Peak	H	-	-	-54.66	8.16	-9.54	60.50	68.20	-7.70

Table 7-142. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset		Page 270 of 313

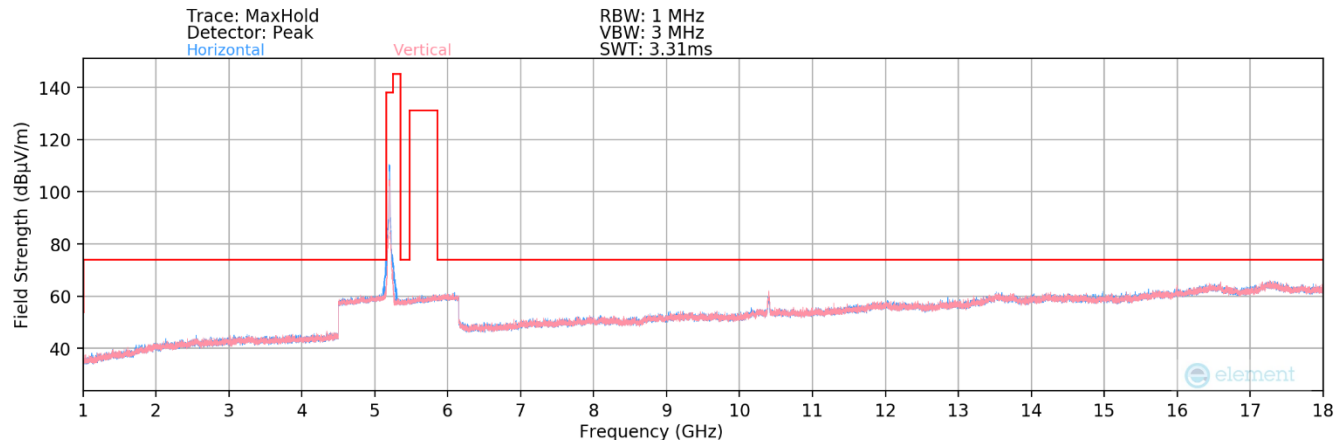
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 4
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

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]
* 11770.00	Average	H	136	315	-78.11	13.81	0.00	42.70	53.98	-11.28
* 11770.00	Peak	H	136	315	-65.30	13.81	0.00	55.51	73.98	-18.47
17655.00	Peak	H	-	-	-68.40	17.52	0.00	56.12	68.20	-12.08
23540.00	Peak	H	-	-	-55.71	3.84	-9.54	55.14	68.20	-13.06
29425.00	Peak	H	-	-	-54.95	5.87	-9.54	57.92	68.20	-10.28
35310.00	Peak	H	-	-	-54.18	8.04	-9.54	60.86	68.20	-7.34

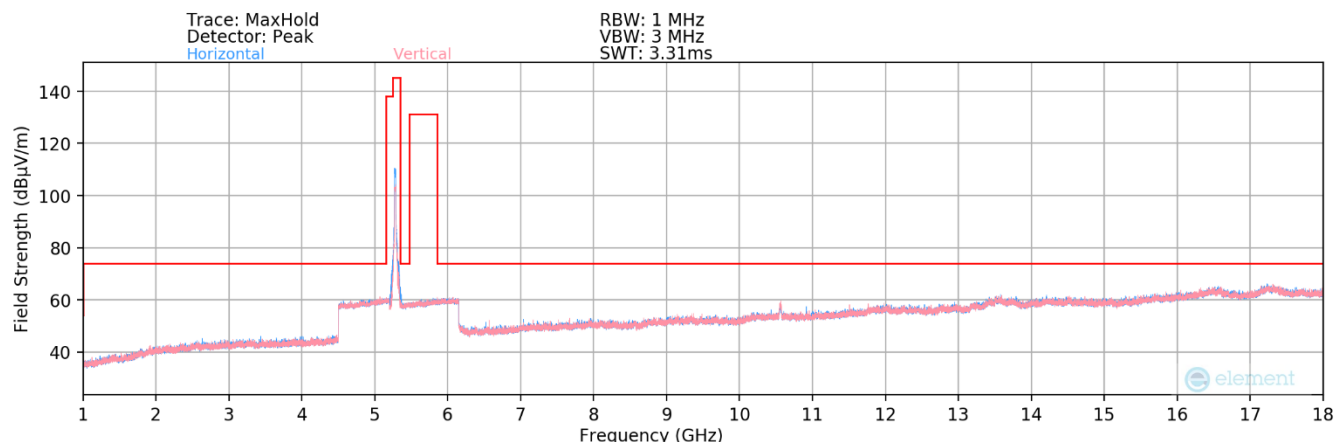
Table 7-143. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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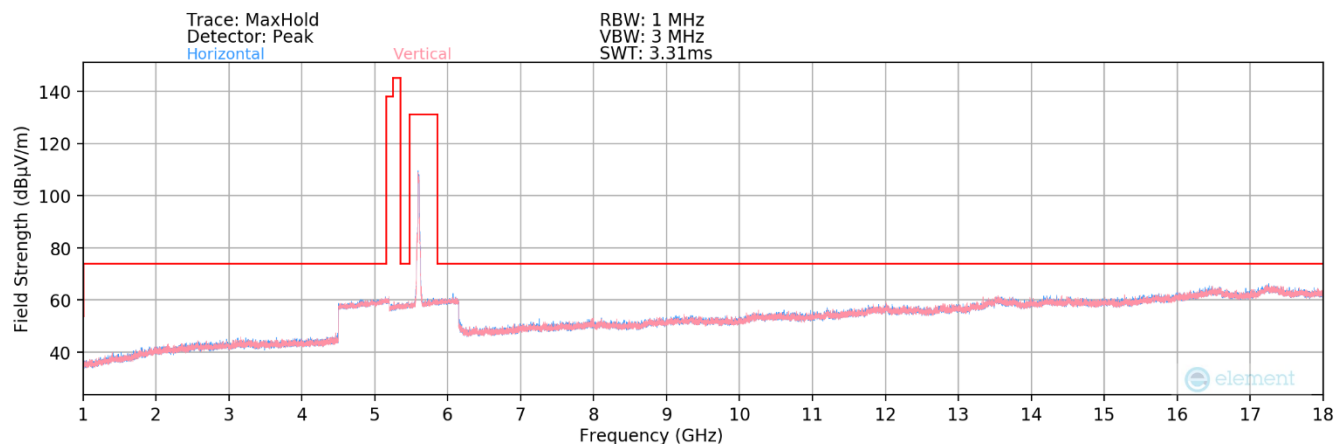
242 Tones



Plot 7-355. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones) – Open



Plot 7-356. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones) – Open

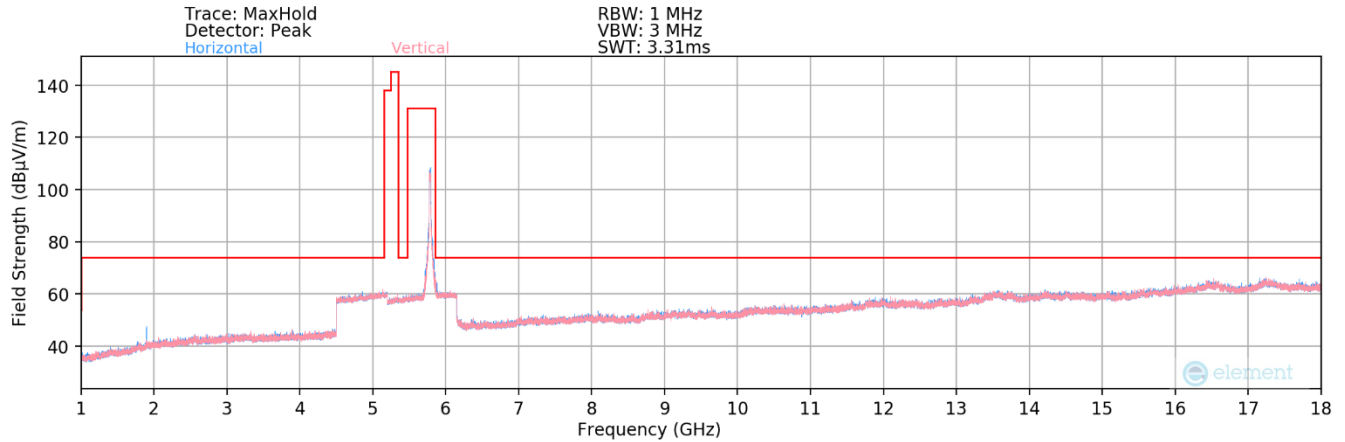


Plot 7-357. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones) – Open

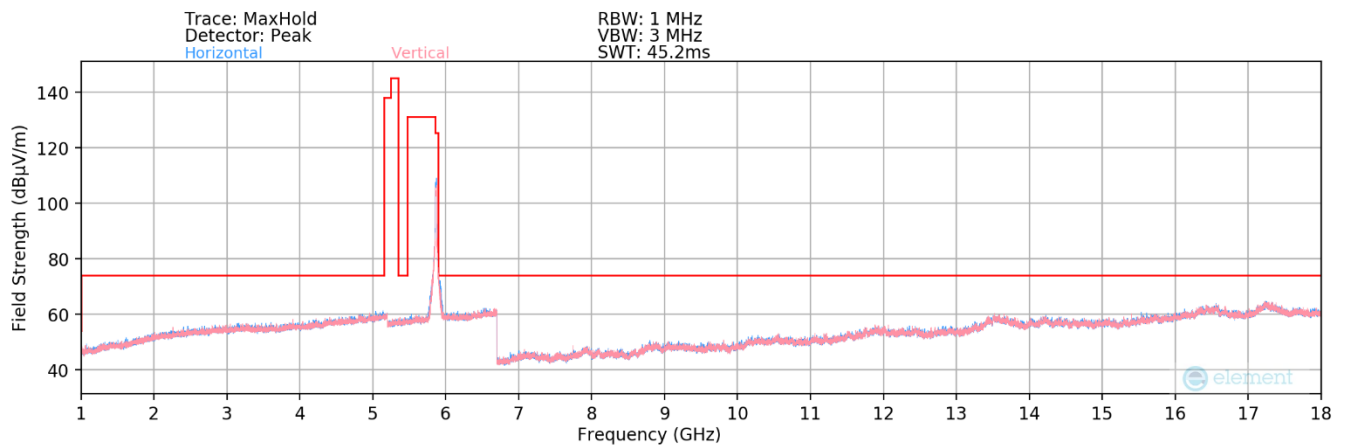
FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 272 of 313

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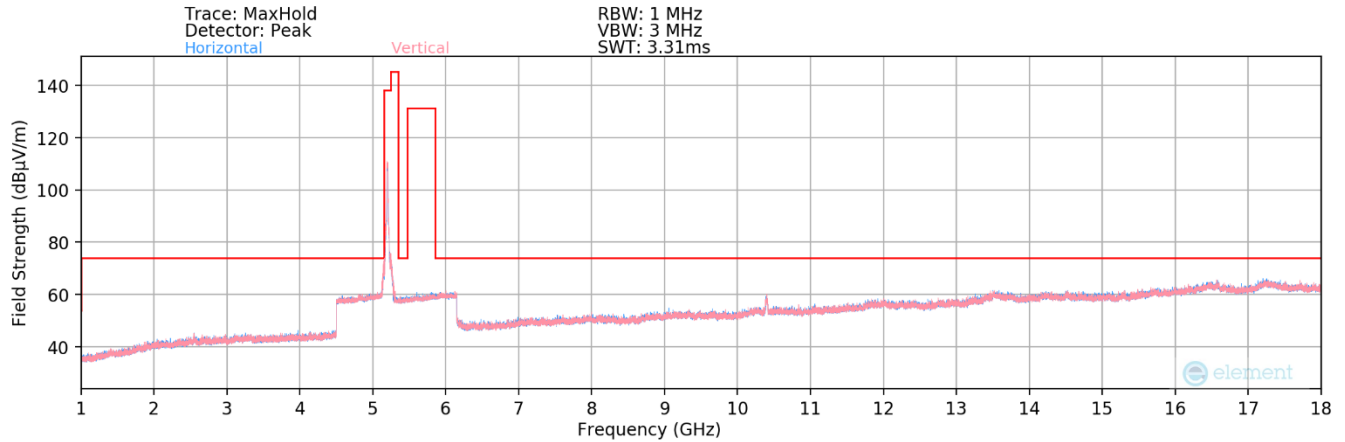
Plot 7-358. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones) – Open



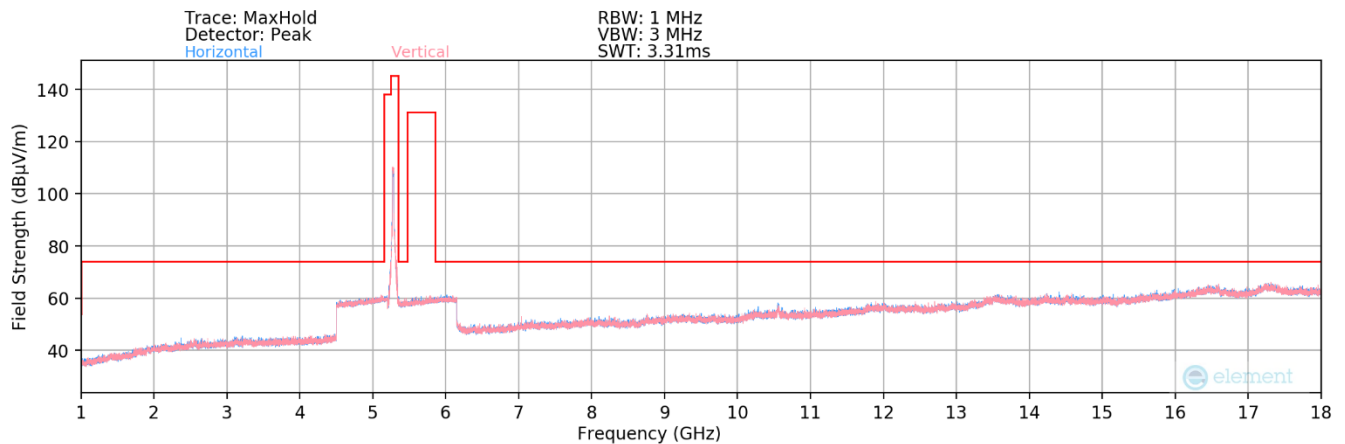
Plot 7-359. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U4 Ch. 173 – 242 Tones) – Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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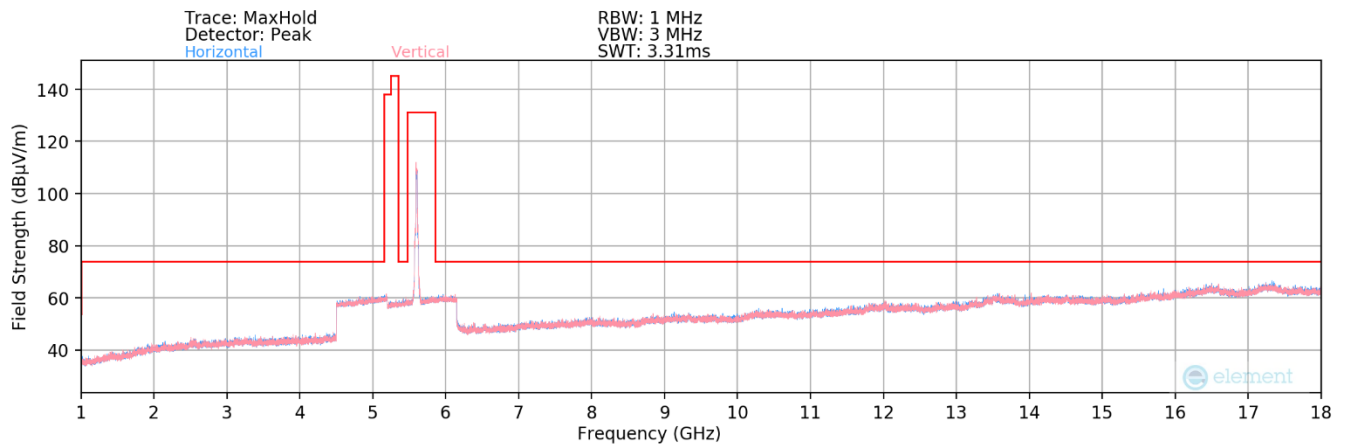
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Plot 7-360. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones) – Half Open

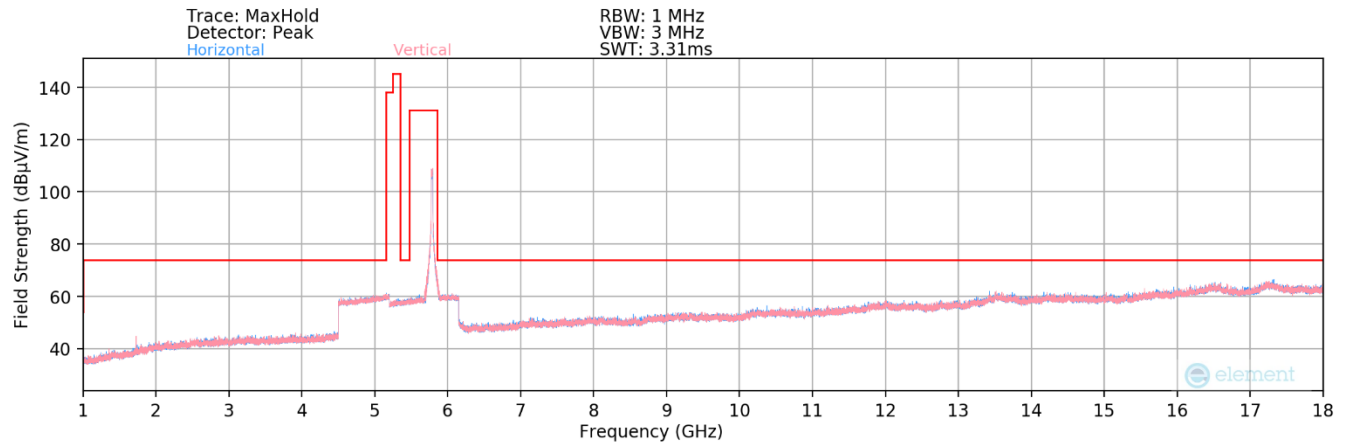


Plot 7-361. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones) – Half Open

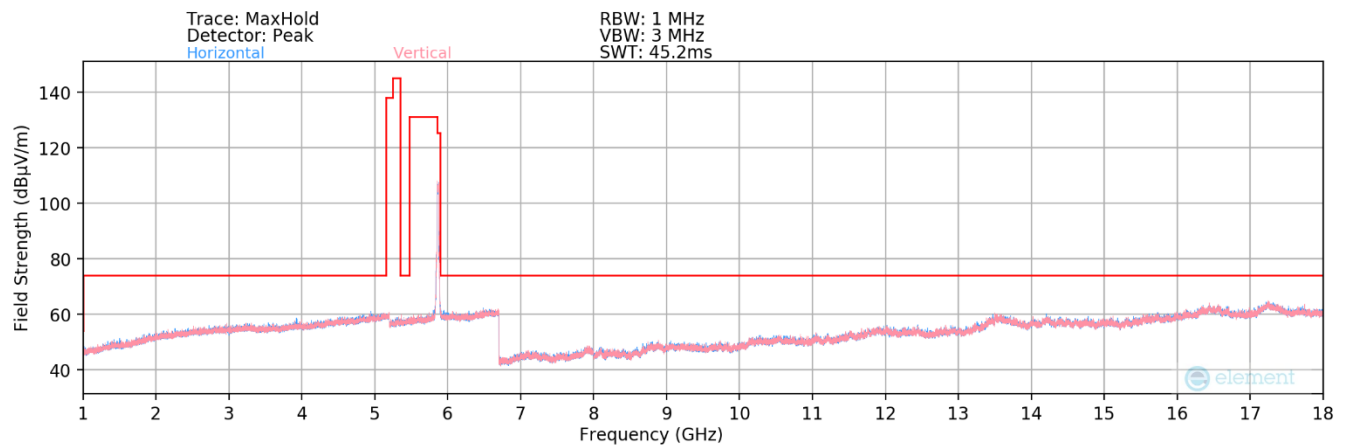


Plot 7-362. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-363. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones) – Half Open

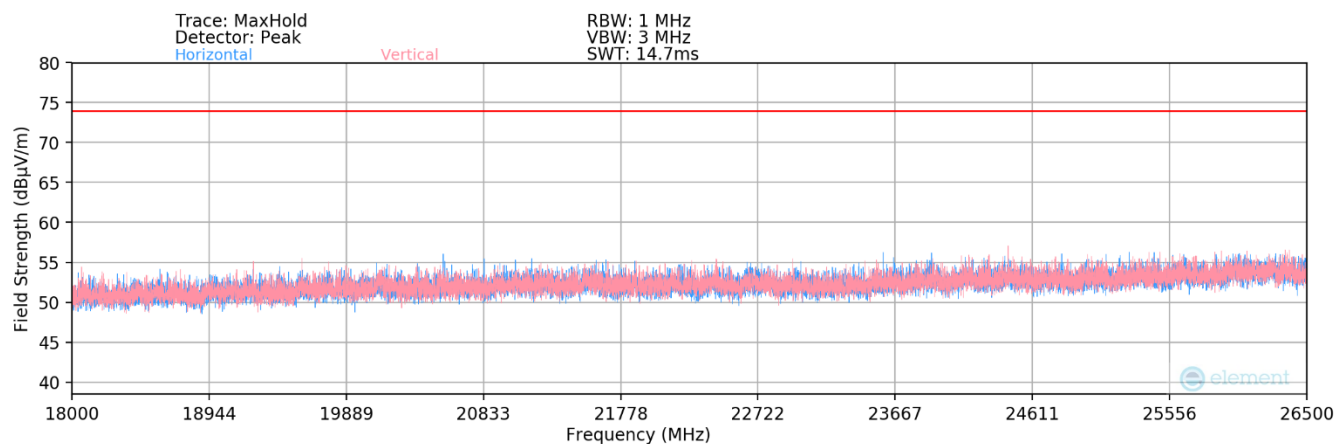


Plot 7-364. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U4 Ch. 173 – 242 Tones) – Half Open

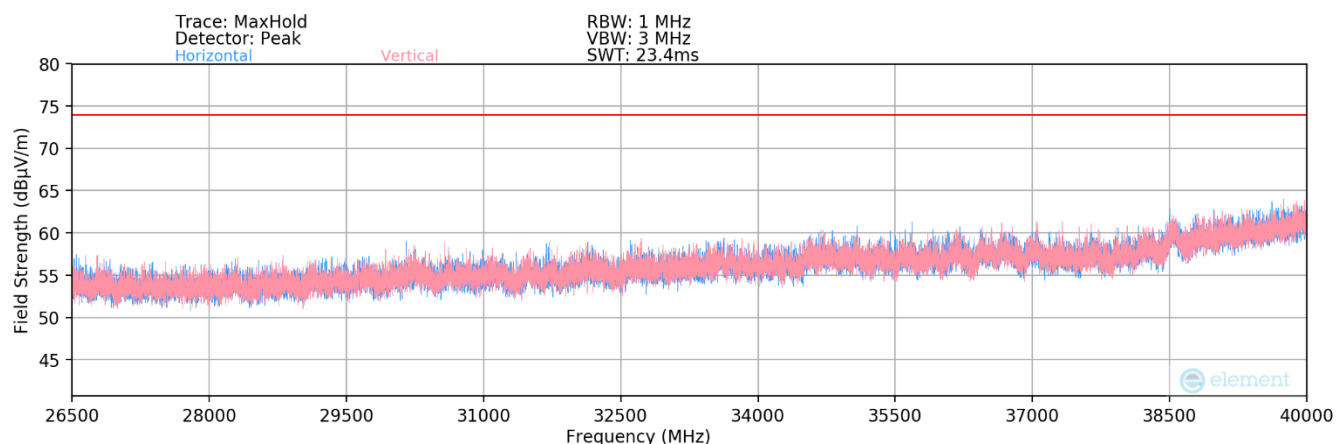
FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 275 of 313

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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



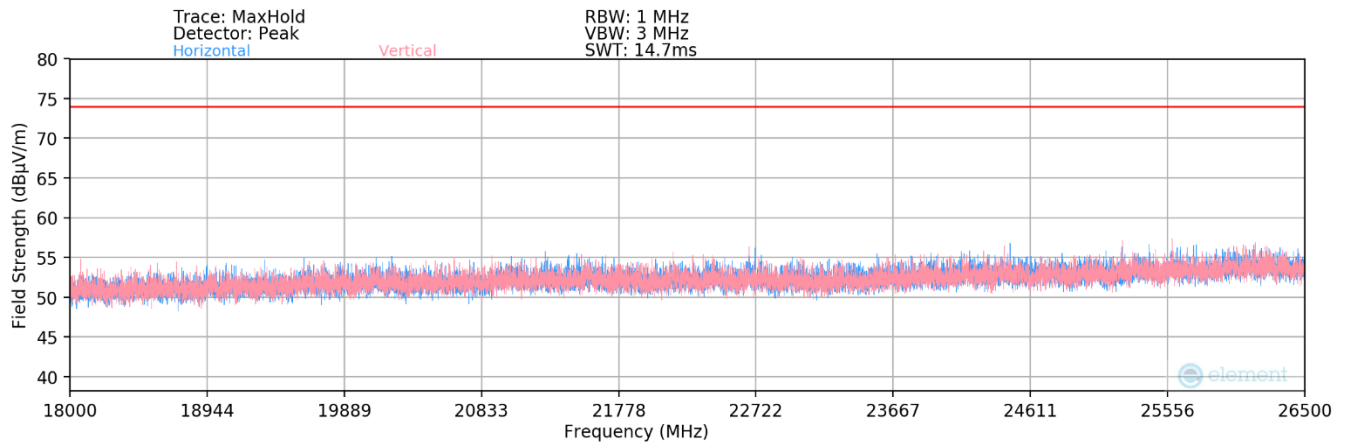
Plot 7-365. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones) – Open



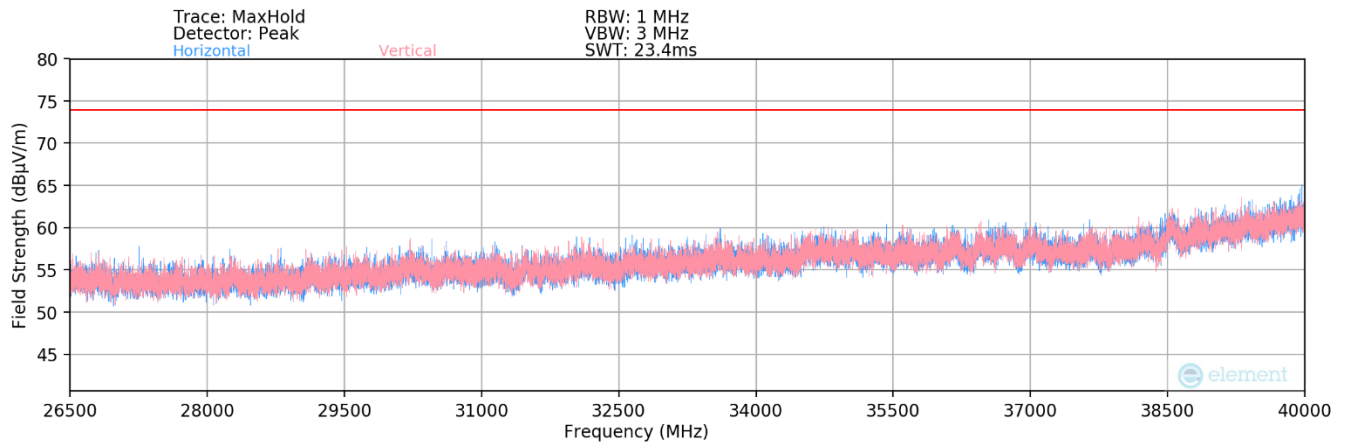
Plot 7-366. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones) – Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-367. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones) – Half Open



Plot 7-368. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones) – Half Open

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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	208	337	-54.75	11.85	0.00	64.10	68.20	-4.10
* 15540.00	Average	H	-	-	-80.37	16.63	0.00	43.26	53.98	-10.72
* 15540.00	Peak	H	-	-	-68.90	16.63	0.00	54.73	73.98	-19.25
* 20720.00	Average	H	-	-	-67.28	3.15	-9.54	33.33	53.98	-20.65
* 20720.00	Peak	H	-	-	-57.13	3.15	-9.54	43.48	73.98	-30.50
25900.00	Peak	H	-	-	-59.05	4.77	-9.54	43.18	68.20	-25.02

Table 7-144. 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	212	336	-54.77	11.49	0.00	63.72	68.20	-4.48
* 15600.00	Average	H	-	-	-80.20	16.85	0.00	43.65	53.98	-10.33
* 15600.00	Peak	H	-	-	-68.04	16.85	0.00	55.81	73.98	-18.17
* 20800.00	Average	H	-	-	-66.40	3.48	-9.54	34.53	53.98	-19.44
* 20800.00	Peak	H	-	-	-56.13	3.48	-9.54	44.81	73.98	-29.17
26000.00	Peak	H	-	-	-58.87	5.15	-9.54	43.74	68.20	-24.46

Table 7-145. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 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	201	335	-56.91	12.01	0.00	62.10	68.20	-6.10
* 15720.00	Average	H	-	-	-80.30	17.21	0.00	43.91	53.98	-10.07
* 15720.00	Peak	H	-	-	-67.79	17.21	0.00	56.42	73.98	-17.56
* 20960.00	Average	H	-	-	-67.41	3.48	-9.54	33.53	53.98	-20.45
* 20960.00	Peak	H	-	-	-57.61	3.48	-9.54	43.32	73.98	-30.65
26200.00	Peak	H	-	-	-59.03	4.78	-9.54	43.21	68.20	-24.99

Table 7-146. 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	H	198	307	-56.37	12.54	0.00	63.17	68.20	-5.03
* 15780.00	Average	H	-	-	-80.48	17.03	0.00	43.55	53.98	-10.43
* 15780.00	Peak	H	-	-	-68.44	17.03	0.00	55.59	73.98	-18.39
* 21040.00	Average	H	-	-	-66.81	3.53	-9.54	34.18	53.98	-19.80
* 21040.00	Peak	H	-	-	-56.89	3.53	-9.54	44.10	73.98	-29.88
26300.00	Peak	H	-	-	-57.89	4.64	-9.54	44.21	68.20	-23.99

Table 7-147. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 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	194	307	-57.24	12.39	0.00	62.15	68.20	-6.05
* 15840.00	Average	H	-	-	-80.60	16.71	0.00	43.11	53.98	-10.87
* 15840.00	Peak	H	-	-	-69.01	16.71	0.00	54.70	73.98	-19.28
* 21120.00	Average	H	-	-	-66.52	3.68	-9.54	34.62	53.98	-19.36
* 21120.00	Peak	H	-	-	-57.60	3.68	-9.54	43.54	73.98	-30.44
* 26400.00	Peak	H	-	-	-57.38	4.78	-9.54	44.86	68.20	-23.34

Table 7-148. 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: 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	257	68	-71.28	12.36	0.00	48.08	53.98	-5.90
* 10640.00	Peak	H	257	68	-58.93	12.36	0.00	60.43	73.98	-13.55
* 15960.00	Average	H	-	-	-80.82	18.25	0.00	44.43	53.98	-9.55
* 15960.00	Peak	H	-	-	-69.09	18.25	0.00	56.16	73.98	-17.82
* 21280.00	Average	H	-	-	-66.82	3.72	-9.54	34.36	53.98	-19.62
* 21280.00	Peak	H	-	-	-57.60	3.72	-9.54	43.57	73.98	-30.41
* 26600.00	Peak	H	-	-	-59.33	4.72	-9.54	42.85	68.20	-25.35

Table 7-149. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 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	210	318	-76.18	12.61	0.00	43.43	53.98	-10.55
* 11000.00	Peak	H	210	318	-63.68	12.61	0.00	55.93	73.98	-18.05
16500.00	Peak	H	-	-	-67.81	18.00	0.00	57.19	68.20	-11.01
22000.00	Peak	H	-	-	-57.66	3.83	-9.54	43.62	68.20	-24.58
27500.00	Peak	H	-	-	-56.85	4.96	-9.54	45.56	68.20	-22.64

Table 7-150. 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	224	98	-76.69	12.49	0.00	42.80	53.98	-11.18
* 11200.00	Peak	H	224	98	-64.26	12.49	0.00	55.23	73.98	-18.75
16800.00	Peak	H	-	-	-68.95	18.32	0.00	56.37	68.20	-11.83
* 22400.00	Average	H	-	-	-67.24	3.79	-9.54	34.01	53.98	-19.97
* 22400.00	Peak	H	-	-	-56.38	3.79	-9.54	44.87	73.98	-29.11
28000.00	Peak	H	-	-	-57.73	4.94	-9.54	44.67	68.20	-23.53

Table 7-151. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 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	194	316	-76.74	12.91	0.00	43.17	53.98	-10.80
* 11440.00	Peak	H	194	316	-63.43	12.91	0.00	56.48	73.98	-17.49
17160.00	Peak	H	-	-	-67.88	17.87	0.00	56.99	68.20	-11.21
* 22880.00	Average	H	-	-	-67.25	3.79	-9.54	34.00	53.98	-19.98
* 22880.00	Peak	H	-	-	-58.80	3.79	-9.54	42.44	73.98	-31.54
28600.00	Peak	H	-	-	-57.36	5.27	-9.54	45.37	68.20	-22.83

Table 7-152. 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: 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	200	315	-77.11	13.32	0.00	43.21	53.98	-10.76
* 11490.00	Peak	H	200	315	-63.83	13.32	0.00	56.49	73.98	-17.48
17235.00	Peak	H	-	-	-68.48	17.85	0.00	56.37	68.20	-11.83
* 22980.00	Average	H	-	-	-67.57	3.79	-9.54	33.68	53.98	-20.30
* 22980.00	Peak	H	-	-	-57.69	3.79	-9.54	43.56	73.98	-30.42
28725.00	Peak	H	-	-	-60.58	5.41	-9.54	42.29	68.20	-25.91

Table 7-153. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical 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: 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	167	316	-76.73	12.93	0.00	43.20	53.98	-10.78
* 11570.00	Peak	H	167	316	-63.81	12.93	0.00	56.12	73.98	-17.86
17355.00	Peak	H	-	-	-68.45	18.36	0.00	56.91	68.20	-11.29
23140.00	Peak	H	-	-	-56.36	3.75	-9.54	44.85	68.20	-23.35
28925.00	Peak	H	-	-	-58.72	5.46	-9.54	44.20	68.20	-24.00

Table 7-154. 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: 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	152	314	-77.12	13.82	0.00	43.70	53.98	-10.28
* 11650.00	Peak	H	152	314	-64.01	13.82	0.00	56.81	73.98	-17.17
17475.00	Peak	H	-	-	-68.25	17.74	0.00	56.49	68.20	-11.71
23300.00	Peak	H	-	-	-57.71	3.76	-9.54	43.51	68.20	-24.69
29125.00	Peak	H	-	-	-56.94	5.54	-9.54	46.06	68.20	-22.14

Table 7-155. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset		Page 283 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169

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]
* 11690.00	Average	H	129	319	-77.06	13.65	0.00	43.59	53.98	-10.39
* 11690.00	Peak	H	129	319	-64.32	13.65	0.00	56.33	73.98	-17.65
17535.00	Peak	H	-	-	-68.34	17.82	0.00	56.48	68.20	-11.72
23380.00	Peak	H	-	-	-55.72	3.85	-9.54	55.13	68.20	-13.07
29225.00	Peak	H	-	-	-55.87	5.60	-9.54	56.73	68.20	-11.47
35070.00	Peak	H	-	-	-55.01	8.11	-9.54	60.11	68.20	-8.09

Table 7-156. 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: 5865MHz
 Channel: 173

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]
* 11730.00	Average	H	205	320	-78.29	13.70	0.00	42.41	53.98	-11.57
* 11730.00	Peak	H	205	320	-66.22	13.70	0.00	54.48	73.98	-19.50
17595.00	Peak	H	-	-	-67.59	17.70	0.00	57.11	68.20	-11.09
23460.00	Peak	H	-	-	-55.68	3.85	-9.54	55.17	68.20	-13.03
29325.00	Peak	H	-	-	-55.49	5.85	-9.54	57.36	68.20	-10.84
35190.00	Peak	H	-	-	-54.68	8.16	-9.54	60.48	68.20	-7.72

Table 7-157. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 284 of 313

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

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]
* 11770.00	Average	H	131	313	-76.56	13.81	0.00	44.25	53.98	-9.73
* 11770.00	Peak	H	131	313	-63.88	13.81	0.00	56.93	73.98	-17.05
17655.00	Peak	H	-	-	-68.23	17.52	0.00	56.29	68.20	-11.91
23540.00	Peak	H	-	-	-55.85	3.84	-9.54	55.00	68.20	-13.20
29425.00	Peak	H	-	-	-56.26	5.87	-9.54	56.61	68.20	-11.59
35310.00	Peak	H	-	-	-54.23	8.04	-9.54	60.81	68.20	-7.39

Table 7-158. Radiated Measurements MIMO (242 Tones)

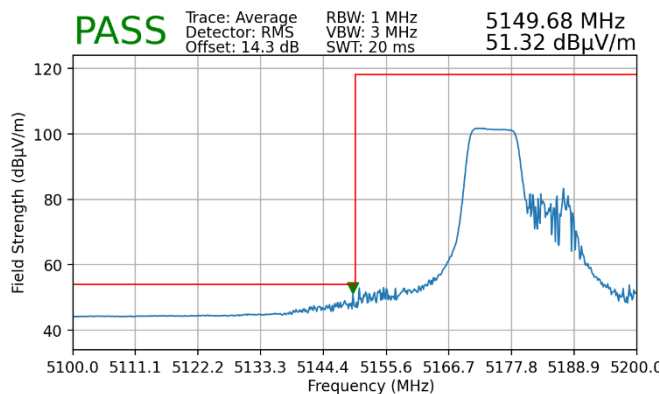
FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 285 of 313

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

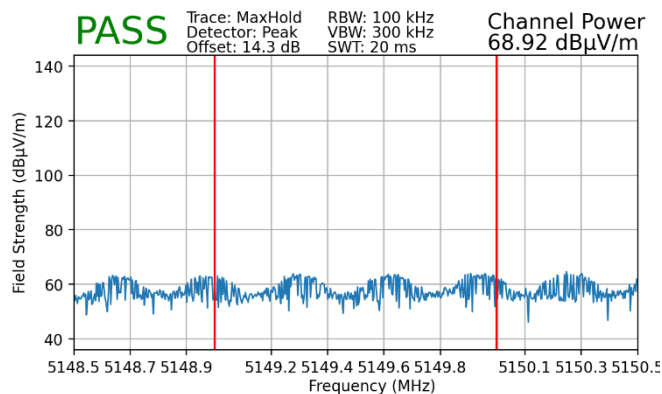
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

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

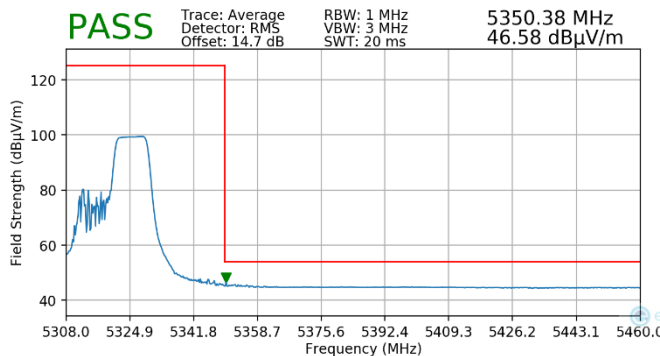


Plot 7-369. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 106 Tones)

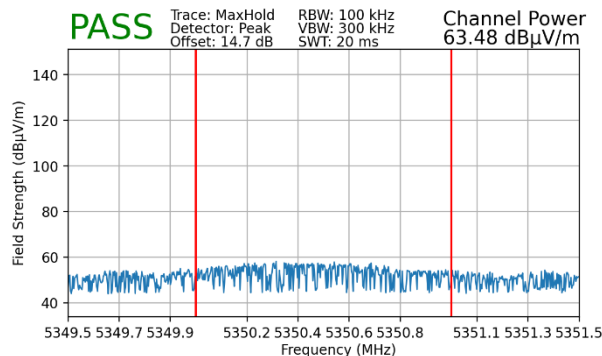


Plot 7-370. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 106 Tones)

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



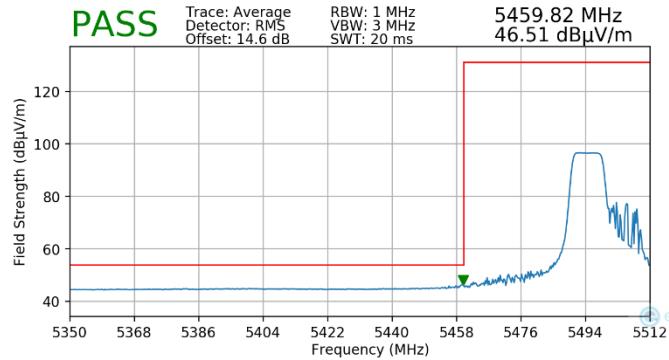
Plot 7-371. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 106 Tones)



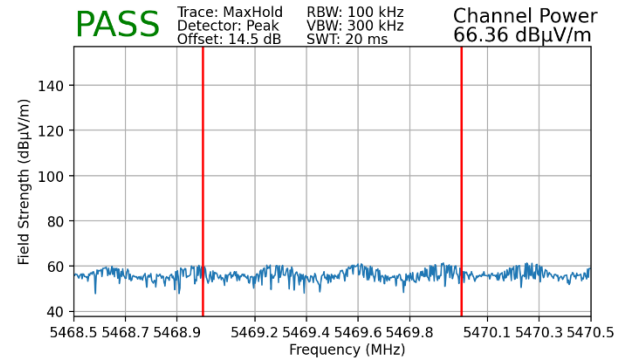
Plot 7-372. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 106 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 286 of 313

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

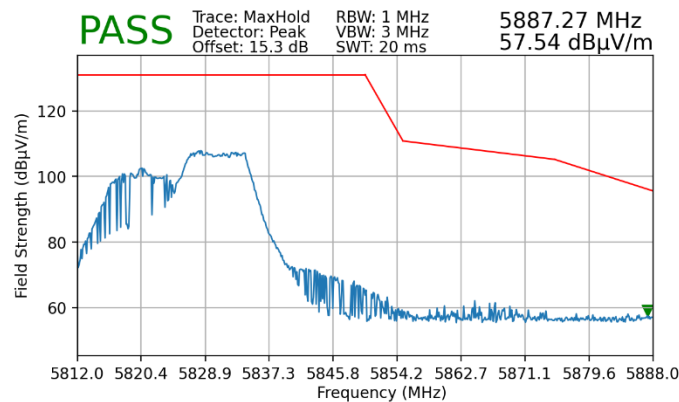


Plot 7-373. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 106 Tones)



Plot 7-374. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 106 Tones)

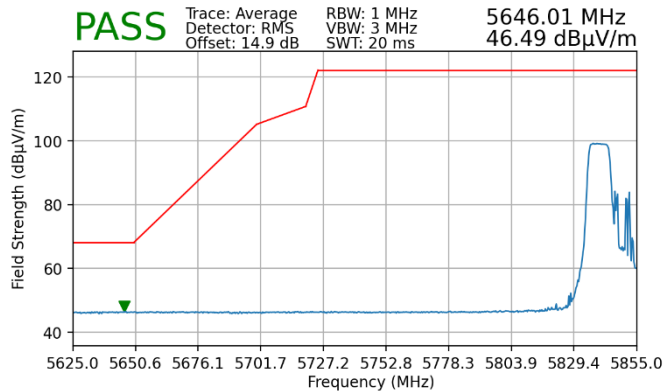
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



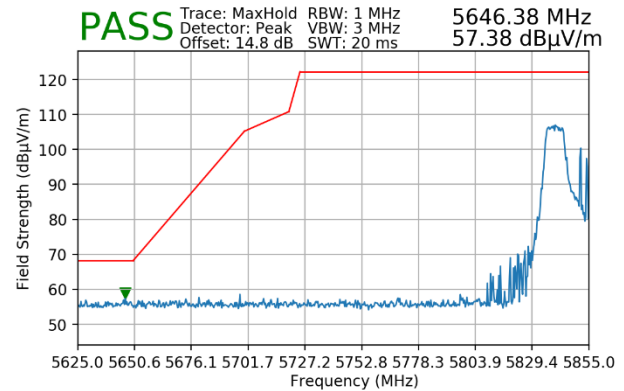
Plot 7-375. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 106 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 287 of 313

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169

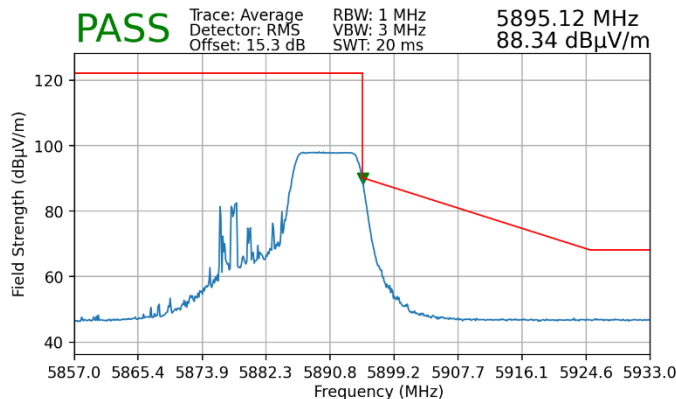


Plot 7-376. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 106 Tones)



Plot 7-377. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 4 – 106 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177



Plot 7-378. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 106 Tones)

FCC ID: A3LSMF721U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204080051-15-R1.A3L	Test Dates: 4/8/2022 – 7/12/2022	EUT Type: Portable Handset	Page 288 of 313