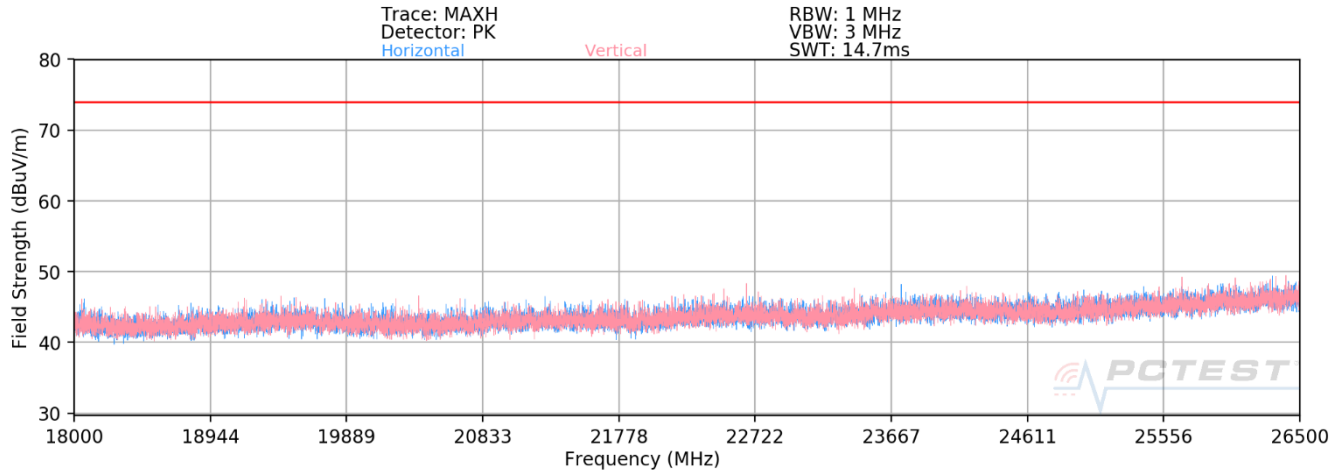
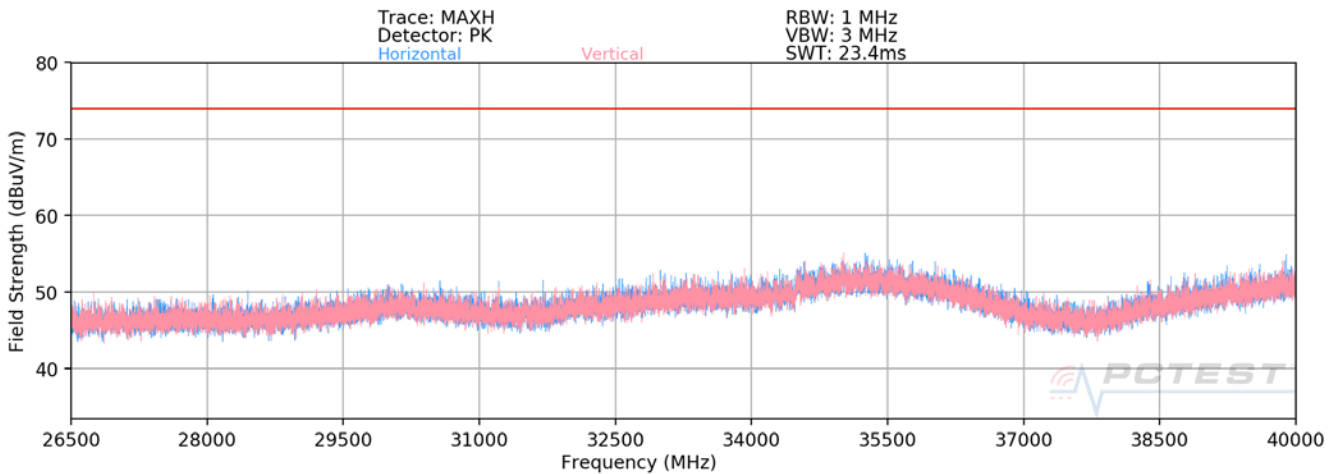


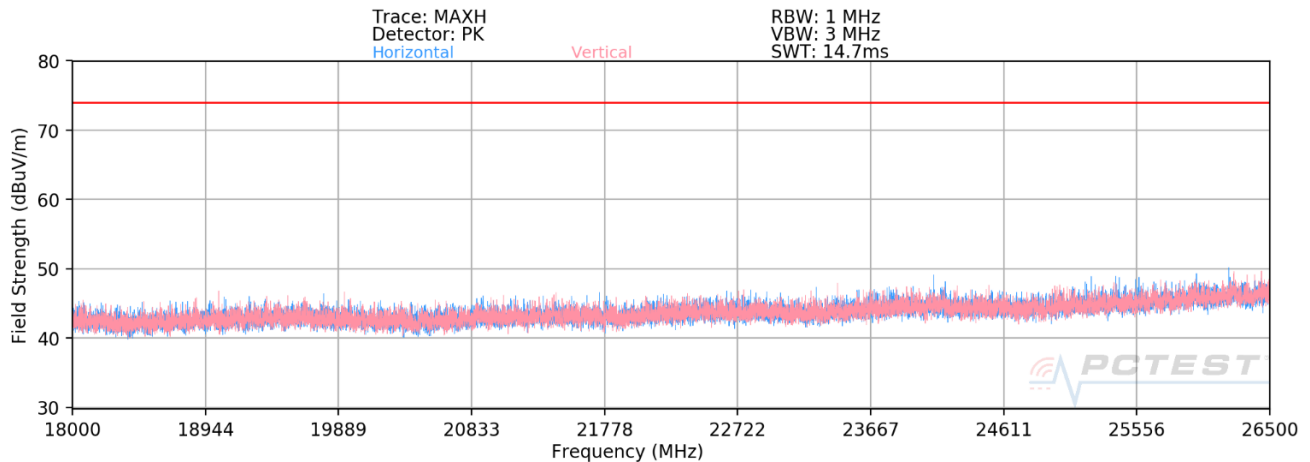
MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-257. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 26 Tones) Open

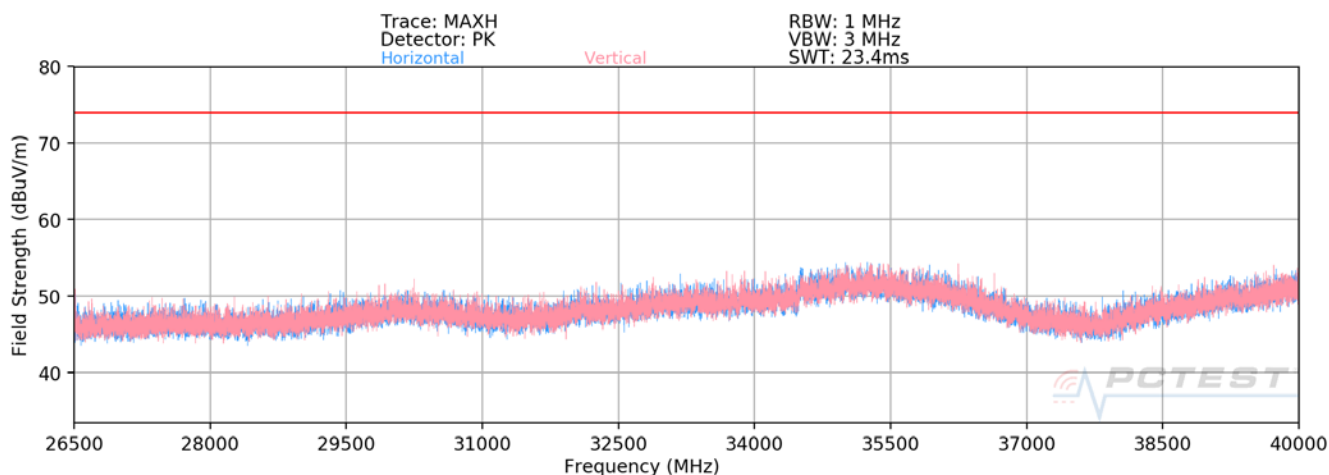


Plot 7-258. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 26 Tones) Open



Plot 7-259. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 26 Tones) Closed

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 168 of 204



Plot 7-260. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 26 Tones) Closed

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 169 of 204

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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	Peak	H	-	-	-73.92	15.49	0.00	48.57	68.20	-19.63
* 15540.00	Average	H	-	-	-83.27	22.68	0.00	46.41	53.98	-7.57
* 15540.00	Peak	H	-	-	-74.28	22.68	0.00	55.40	73.98	-18.58
* 20720.00	Average	H	-	-	-69.20	4.48	-9.54	32.74	53.98	-21.24
* 20720.00	Peak	H	-	-	-56.98	4.48	-9.54	44.95	73.98	-29.03
25900.00	Peak	H	-	-	-56.05	6.92	-9.54	48.32	68.20	-19.88

Table 7-42. 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	Peak	H	-	-	-72.61	15.52	0.00	49.91	68.20	-18.29
* 15600.00	Average	H	-	-	-83.41	22.77	0.00	46.36	53.98	-7.62
* 15600.00	Peak	H	-	-	-74.74	22.77	0.00	55.03	73.98	-18.95
* 20800.00	Average	H	-	-	-66.88	4.88	-9.54	35.46	53.98	-18.52
* 20800.00	Peak	H	-	-	-56.58	4.88	-9.54	45.76	73.98	-28.22
26000.00	Peak	H	-	-	-57.20	7.10	-9.54	47.37	68.20	-20.83

Table 7-43. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 170 of 204

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
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	-	-	-75.06	15.45	0.00	47.39	68.20	-20.81
* 15720.00	Average	H	-	-	-84.06	22.76	0.00	45.70	53.98	-8.28
* 15720.00	Peak	H	-	-	-75.28	22.76	0.00	54.48	73.98	-19.50
* 20960.00	Average	H	-	-	-67.75	5.01	-9.54	34.71	53.98	-19.27
* 20960.00	Peak	H	-	-	-57.05	5.01	-9.54	45.42	73.98	-28.56
26200.00	Peak	H	-	-	-55.84	6.99	-9.54	48.60	68.20	-19.60

Table 7-44. 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: 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	-	-	-74.25	15.75	0.00	48.50	68.20	-19.70
* 15780.00	Average	H	-	-	-83.56	22.89	0.00	46.33	53.98	-7.65
* 15780.00	Peak	H	-	-	-75.07	22.89	0.00	54.82	73.98	-19.16
* 21040.00	Average	H	-	-	-67.29	4.89	-9.54	35.05	53.98	-18.92
* 21040.00	Peak	H	-	-	-56.87	4.89	-9.54	45.47	73.98	-28.51
26300.00	Peak	H	-	-	-56.83	7.06	-9.54	47.69	68.20	-20.51

Table 7-45. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 171 of 204

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	H	-	-	-73.43	16.14	0.00	49.71	68.20	-18.49
* 15840.00	Average	H	-	-	-83.10	23.17	0.00	47.07	53.98	-6.91
* 15840.00	Peak	H	-	-	-74.77	23.17	0.00	55.40	73.98	-18.58
* 21120.00	Average	H	-	-	-67.40	5.08	-9.54	35.15	53.98	-18.83
* 21120.00	Peak	H	-	-	-57.40	5.08	-9.54	45.14	73.98	-28.84
26400.00	Peak	H	-	-	-56.51	7.43	-9.54	48.38	68.20	-19.82

Table 7-46. 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: 5320MHz
Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-83.17	16.06	0.00	39.89	53.98	-14.09
* 10640.00	Peak	H	-	-	-75.35	16.06	0.00	47.71	73.98	-26.27
* 15960.00	Average	H	-	-	-83.98	23.29	0.00	46.31	53.98	-7.67
* 15960.00	Peak	H	-	-	-75.07	23.29	0.00	55.22	73.98	-18.76
* 21280.00	Average	H	-	-	-67.36	5.14	-9.54	35.24	53.98	-18.74
* 21280.00	Peak	H	-	-	-57.20	5.14	-9.54	45.40	73.98	-28.58
26600.00	Peak	H	-	-	-56.51	7.21	-9.54	48.16	68.20	-20.04

Table 7-47. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 172 of 204

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
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	-	-	-82.74	16.78	0.00	41.04	53.98	-12.94
* 11000.00	Peak	H	-	-	-74.88	16.78	0.00	48.90	73.98	-25.08
16500.00	Peak	H	-	-	-75.86	24.50	0.00	55.64	68.20	-12.56
22000.00	Peak	H	-	-	-57.31	5.16	-9.54	45.30	68.20	-22.90
27500.00	Peak	H	-	-	-56.30	7.69	-9.54	48.85	68.20	-19.35

Table 7-48. 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: 5600MHz
Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	H	-	-	-82.47	17.10	0.00	41.63	53.98	-12.35
* 11200.00	Peak	H	-	-	-73.50	17.10	0.00	50.60	73.98	-23.38
16800.00	Peak	H	-	-	-76.01	24.48	0.00	55.47	68.20	-12.73
* 22400.00	Average	H	-	-	-67.03	5.45	-9.54	35.87	53.98	-18.11
* 22400.00	Peak	H	-	-	-56.85	5.45	-9.54	46.05	73.98	-27.93
28000.00	Peak	H	-	-	-56.75	7.97	-9.54	48.68	68.20	-19.52

Table 7-49. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 173 of 204

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	H	-	-	-82.99	17.95	0.00	41.96	53.98	-12.02
* 11440.00	Peak	H	-	-	-73.83	17.95	0.00	51.12	73.98	-22.86
17160.00	Peak	H	-	-	-74.86	24.77	0.00	56.91	68.20	-11.29
* 22880.00	Average	H	-	-	-66.93	5.43	-9.54	35.95	53.98	-18.03
* 22880.00	Peak	H	-	-	-56.41	5.43	-9.54	46.47	73.98	-27.51
28600.00	Peak	H	-	-	-57.49	8.29	-9.54	48.26	68.20	-19.94

Table 7-50. 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	148	71	-83.04	17.82	0.00	41.78	53.98	-12.20
* 11490.00	Peak	H	148	71	-74.66	17.82	0.00	50.16	73.98	-23.82
17235.00	Peak	H	-	-	-76.96	25.21	0.00	55.25	68.20	-12.95
* 22980.00	Average	H	-	-	-67.30	5.29	-9.54	35.45	53.98	-18.53
* 22980.00	Peak	H	-	-	-56.79	5.29	-9.54	45.96	73.98	-28.02
28725.00	Peak	H	-	-	-55.99	8.24	-9.54	49.71	68.20	-18.49

Table 7-51. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 174 of 204

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5785MHz
Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-83.27	17.80	0.00	41.53	53.98	-12.45
* 11570.00	Peak	H	-	-	-74.65	17.80	0.00	50.15	73.98	-23.83
17355.00	Peak	H	-	-	-76.65	26.23	0.00	56.58	68.20	-11.62
23140.00	Peak	H	-	-	-56.22	5.34	-9.54	46.58	68.20	-21.62
28925.00	Peak	H	-	-	-56.86	8.48	-9.54	49.07	68.20	-19.13

Table 7-52. 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: 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	-	-	-82.96	18.05	0.00	42.09	53.98	-11.89
* 11650.00	Peak	H	-	-	-74.23	18.05	0.00	50.82	73.98	-23.16
17475.00	Peak	H	-	-	-77.24	25.87	0.00	55.63	68.20	-12.57
23300.00	Peak	H	-	-	-56.32	5.29	-9.54	46.42	68.20	-21.78
29125.00	Peak	H	-	-	-57.27	8.49	-9.54	48.68	68.20	-19.52

Table 7-53. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 175 of 204

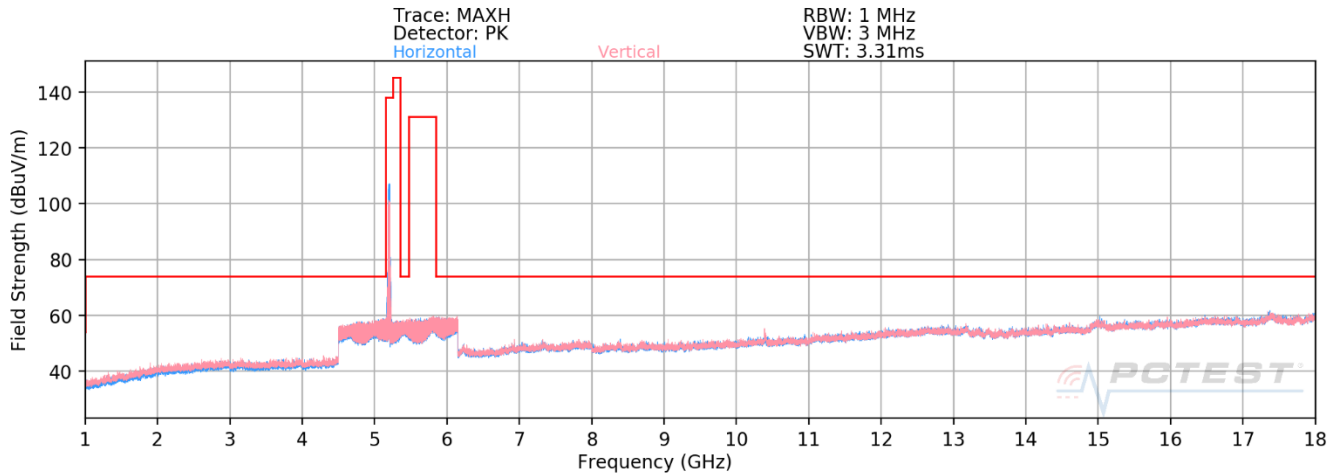
Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
Channel: 149

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	H	-	-	-86.33	22.78	0.00	43.45	53.98	-10.53
* 11490.00	Peak	H	-	-	-74.71	22.78	0.00	54.76	73.98	-19.22
* 17235.00	Peak	H	-	-	-78.67	30.48	0.00	58.29	68.20	-9.91
* 22980.00	Average	H	-	-	-67.05	5.29	-9.54	35.70	53.98	-18.28
* 22980.00	Peak	H	-	-	-56.62	5.29	-9.54	46.13	73.98	-27.85
* 28725.00	Peak	H	-	-	-55.78	8.24	-9.54	49.92	68.20	-18.28

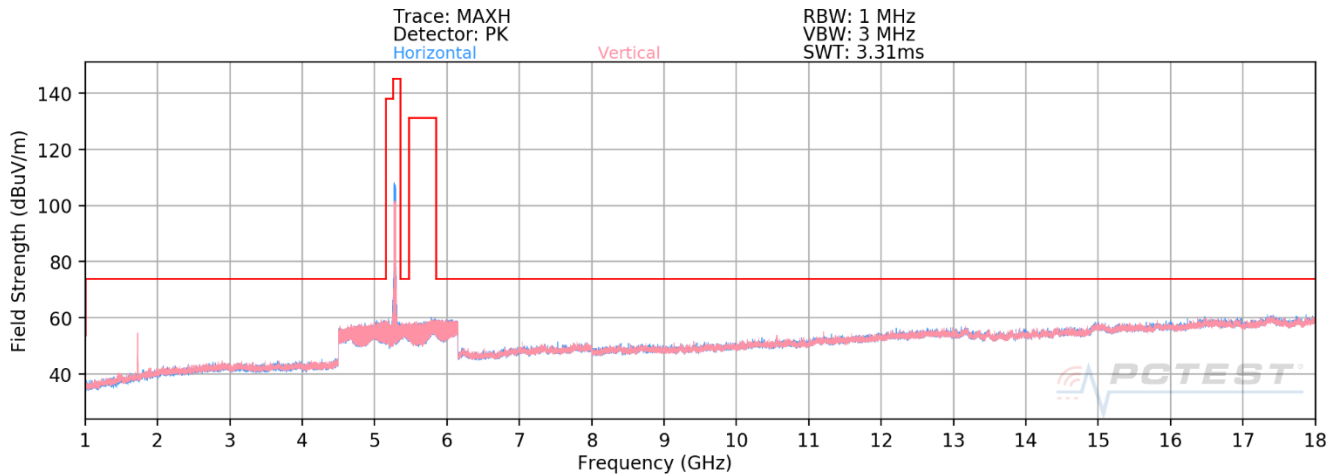
Table 7-54. Radiated Measurements MIMO with WCP (26 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 176 of 204

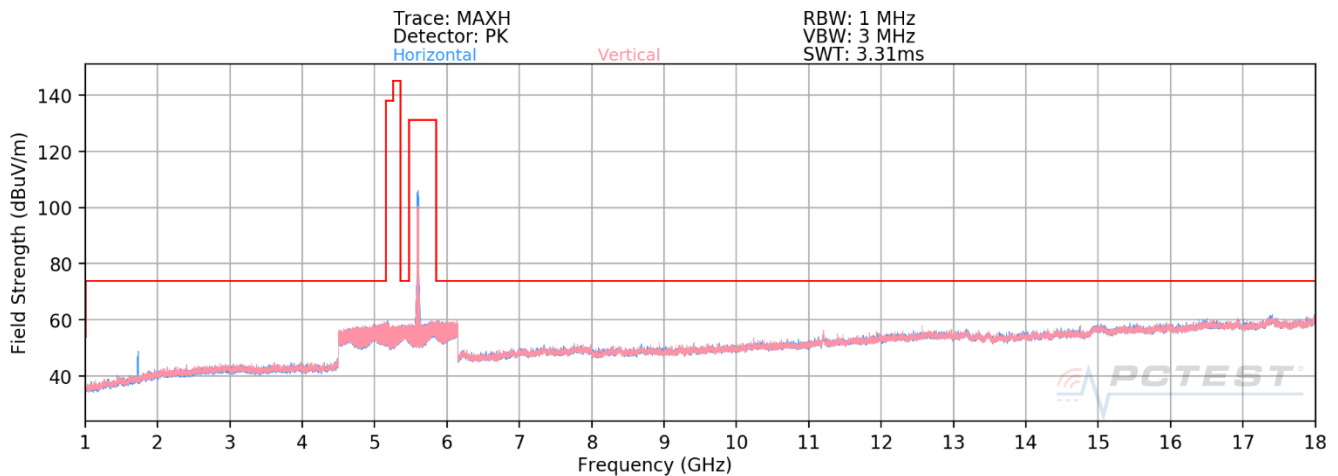
242 Tones



Plot 7-261. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones) Open

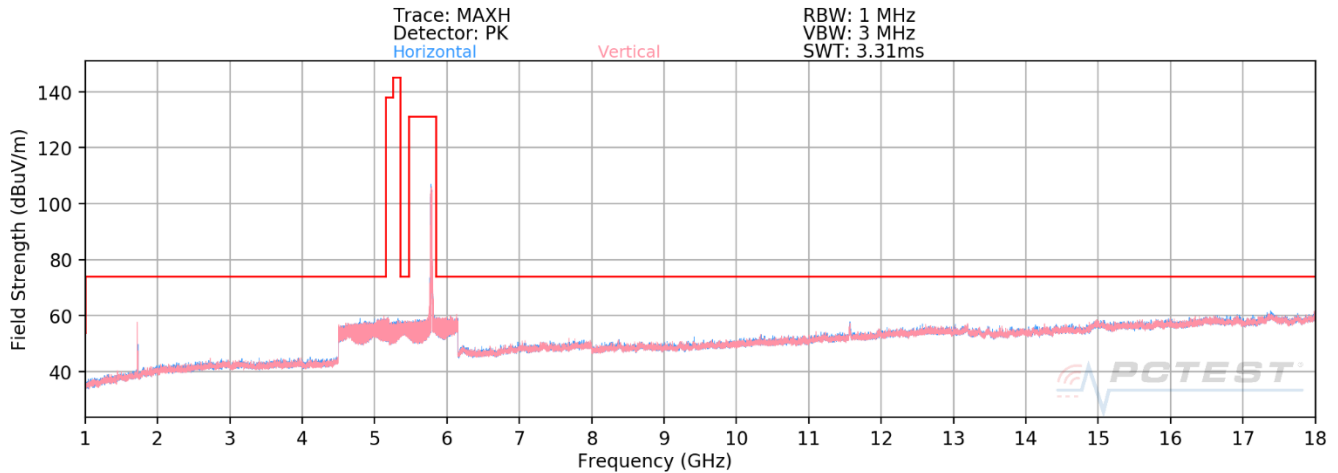


Plot 7-262. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones) Open

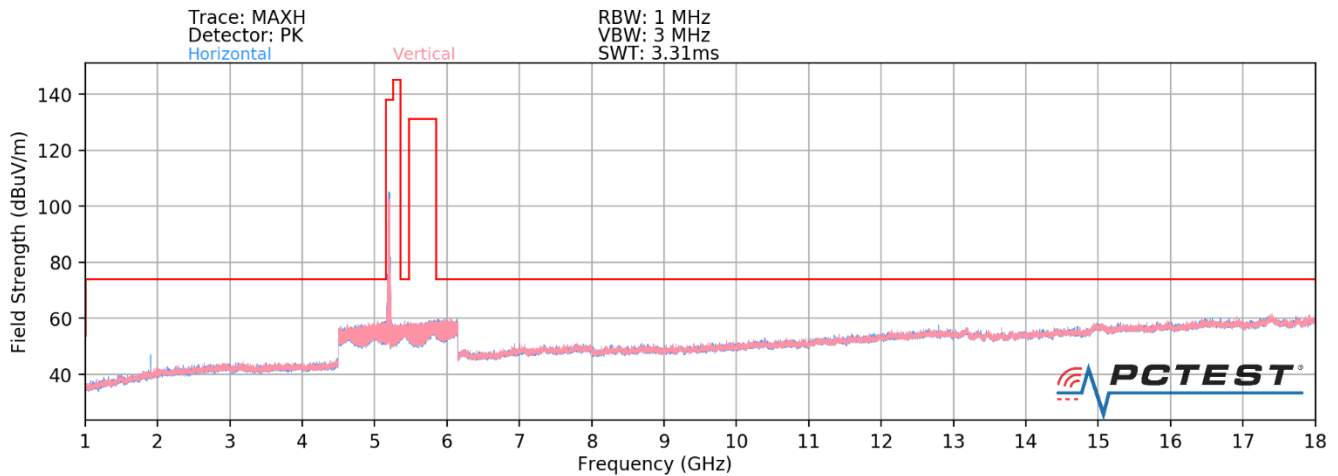


Plot 7-263. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones) Open

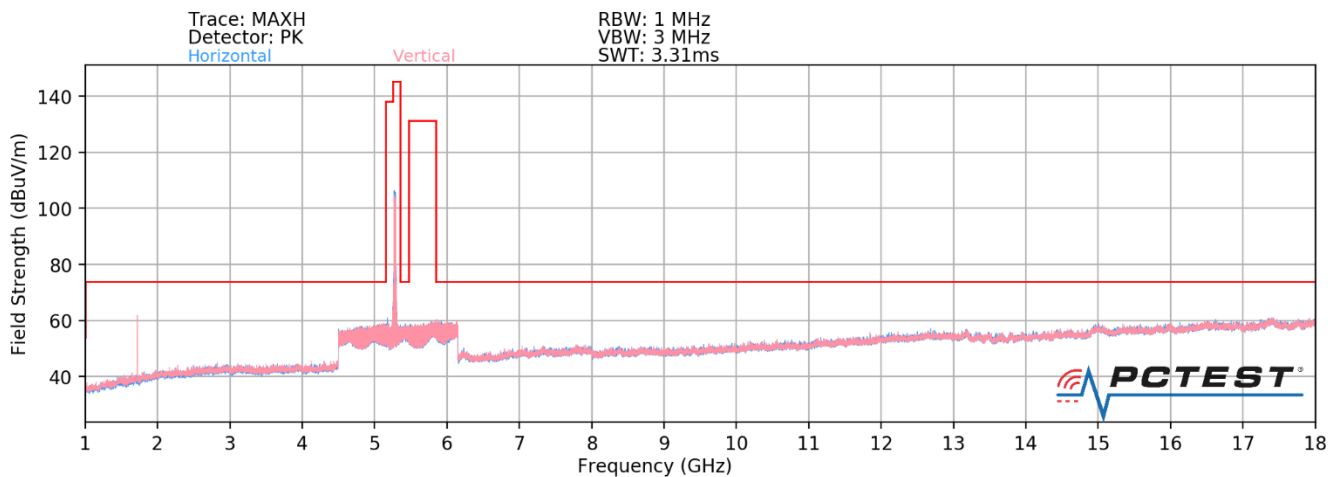
FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 177 of 204



Plot 7-264. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones) Open

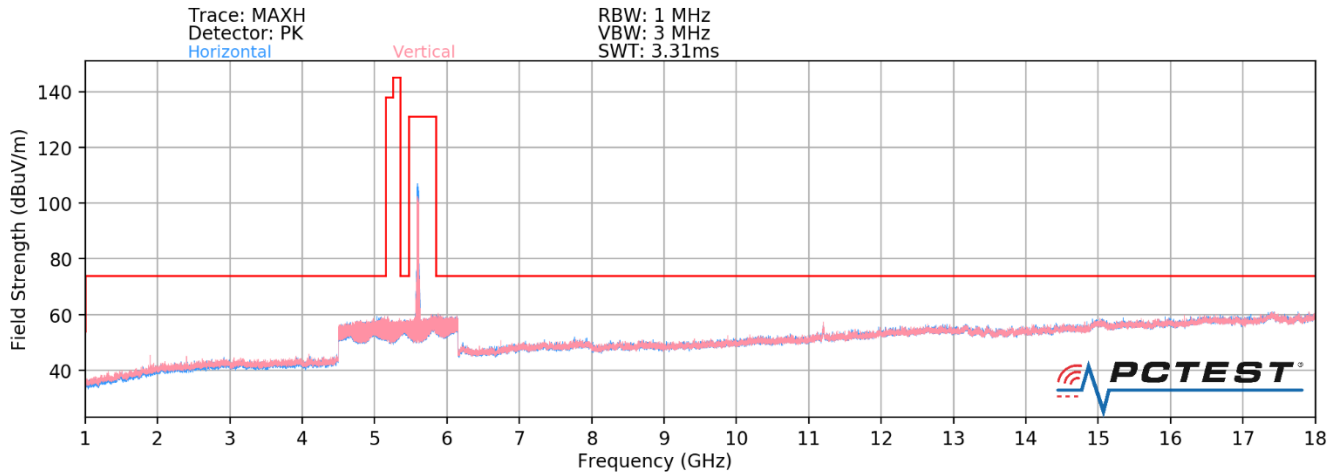


Plot 7-265. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones) Closed

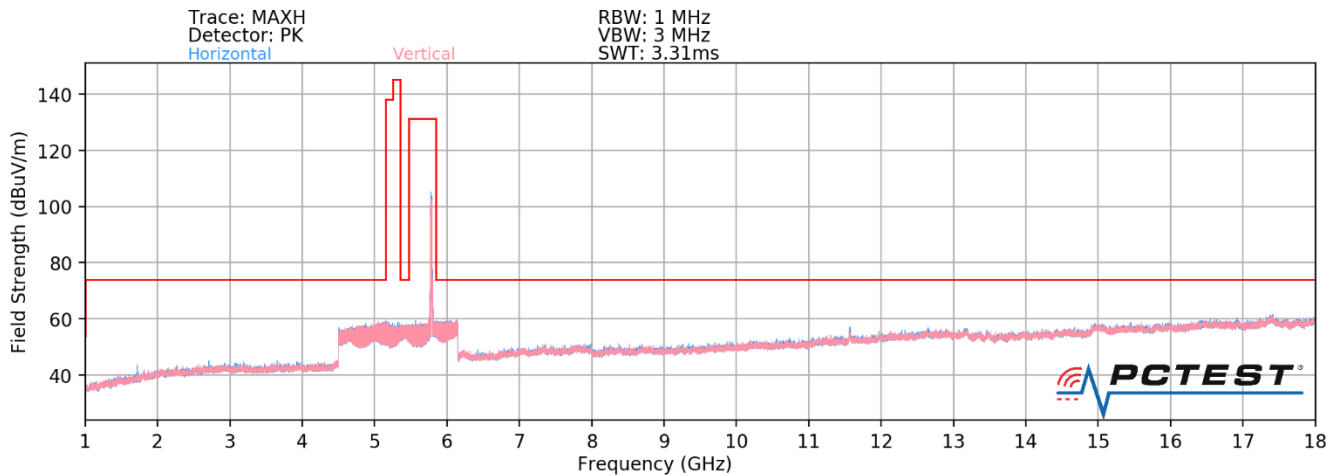


Plot 7-266. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones) Closed

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 178 of 204



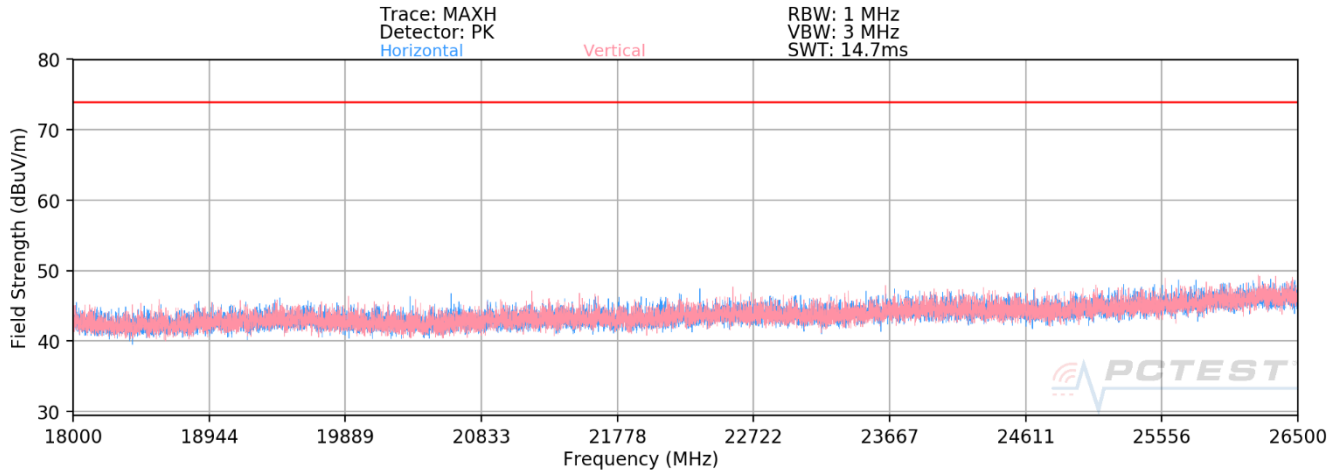
Plot 7-267. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones) Closed



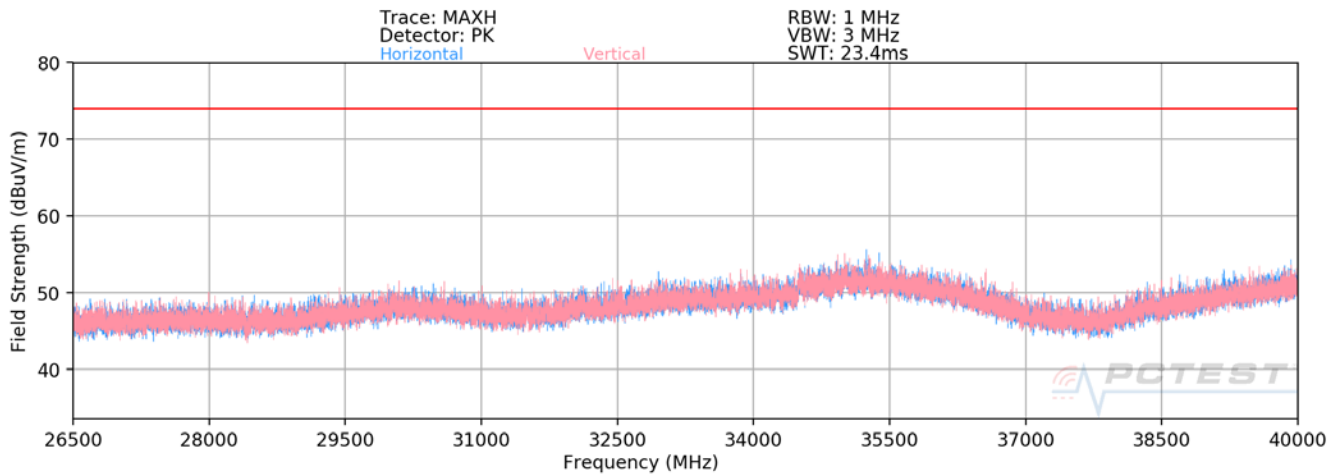
Plot 7-268. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones) Closed

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 179 of 204

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)

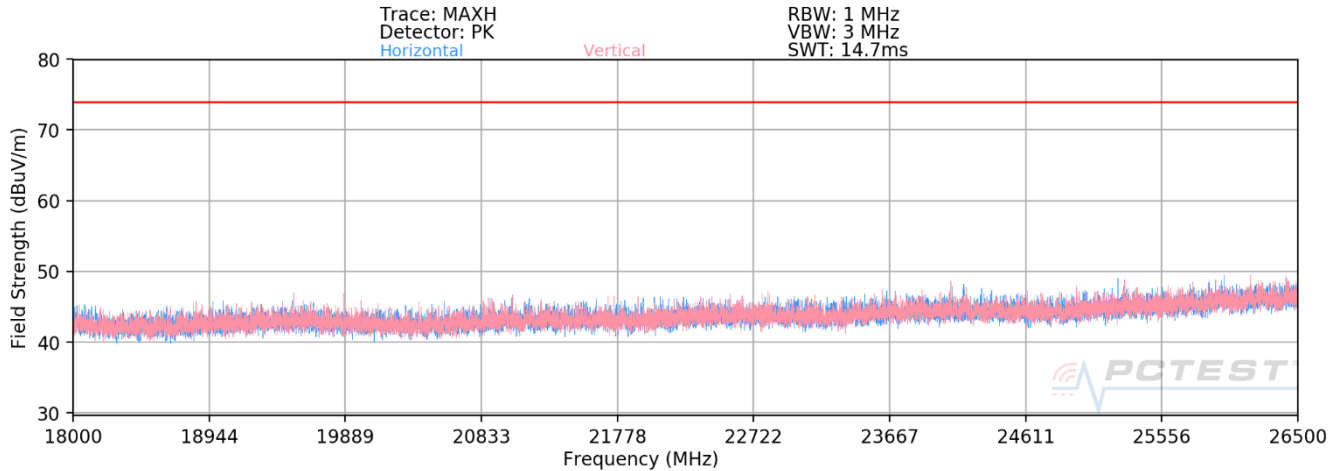


Plot 7-269. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones) Open

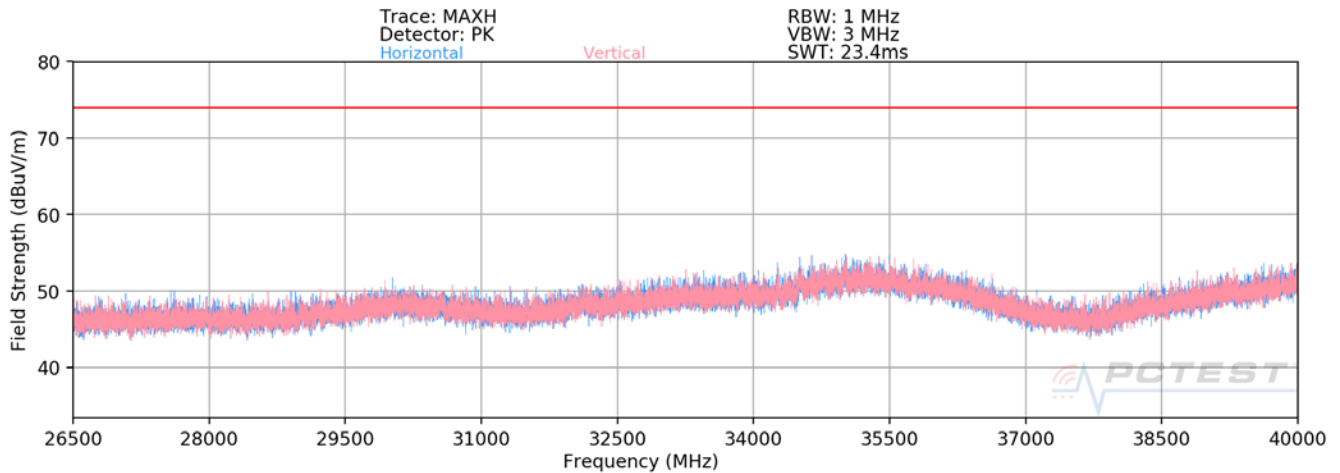


Plot 7-270. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones) Open

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 180 of 204



Plot 7-271. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax - 242 Tones) Closed



Plot 7-272. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax - 242 Tones) Closed

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 181 of 204

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	104	28	-71.10	15.49	0.00	51.39	68.20	-16.81
* 15540.00	Average	H	-	-	-83.49	22.68	0.00	46.19	53.98	-7.79
* 15540.00	Peak	H	-	-	-75.53	22.68	0.00	54.15	73.98	-19.83
* 20720.00	Average	H	-	-	-67.08	4.48	-9.54	34.86	53.98	-19.12
* 20720.00	Peak	H	-	-	-57.51	4.48	-9.54	44.42	73.98	-29.56
25900.00	Peak	H	-	-	-55.77	6.92	-9.54	48.61	68.20	-19.59

Table 7-55. 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	109	28	-71.66	15.52	0.00	50.86	68.20	-17.34
* 15600.00	Average	H	-	-	-83.38	22.77	0.00	46.39	53.98	-7.59
* 15600.00	Peak	H	-	-	-75.27	22.77	0.00	54.50	73.98	-19.48
* 20800.00	Average	H	-	-	-66.92	4.88	-9.54	35.42	53.98	-18.56
* 20800.00	Peak	H	-	-	-56.74	4.88	-9.54	45.60	73.98	-28.38
26000.00	Peak	H	-	-	-56.34	7.10	-9.54	48.23	68.20	-19.97

Table 7-56. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 182 of 204

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	281	18	-71.96	15.45	0.00	50.49	68.20	-17.71
* 15720.00	Average	H	-	-	-83.67	22.76	0.00	46.09	53.98	-7.89
* 15720.00	Peak	H	-	-	-74.40	22.76	0.00	55.36	73.98	-18.62
* 20960.00	Average	H	-	-	-67.75	5.01	-9.54	34.72	53.98	-19.26
* 20960.00	Peak	H	-	-	-57.01	5.01	-9.54	45.46	73.98	-28.52
* 26200.00	Peak	H	-	-	-55.17	6.99	-9.54	49.28	68.20	-18.92

Table 7-57. 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	112	26	-70.82	15.75	0.00	51.93	68.20	-16.27
* 15780.00	Average	H	-	-	-83.67	22.89	0.00	46.22	53.98	-7.76
* 15780.00	Peak	H	-	-	-75.07	22.89	0.00	54.82	73.98	-19.16
* 21040.00	Average	H	-	-	-67.41	4.89	-9.54	34.94	53.98	-19.04
* 21040.00	Peak	H	-	-	-56.37	4.89	-9.54	45.98	73.98	-28.00
* 26300.00	Peak	H	-	-	-56.82	7.06	-9.54	47.70	68.20	-20.50

Table 7-58. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 183 of 204

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	174	26	-72.49	16.14	0.00	50.65	68.20	-17.55
* 15840.00	Average	H	-	-	-83.61	23.17	0.00	46.56	53.98	-7.42
* 15840.00	Peak	H	-	-	-74.83	23.17	0.00	55.34	73.98	-18.64
* 21120.00	Average	H	-	-	-67.00	5.08	-9.54	35.55	53.98	-18.43
* 21120.00	Peak	H	-	-	-56.98	5.08	-9.54	45.56	73.98	-28.42
26400.00	Peak	H	-	-	-56.05	7.43	-9.54	48.84	68.20	-19.36

Table 7-59. 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	158	25	-81.37	16.06	0.00	41.69	53.98	-12.29
* 10640.00	Peak	H	158	25	-73.27	16.06	0.00	49.79	73.98	-24.19
* 15960.00	Average	H	-	-	-83.61	23.29	0.00	46.68	53.98	-7.30
* 15960.00	Peak	H	-	-	-74.83	23.29	0.00	55.46	73.98	-18.52
* 21280.00	Average	H	-	-	-66.96	5.14	-9.54	35.64	53.98	-18.34
* 21280.00	Peak	H	-	-	-56.72	5.14	-9.54	45.88	73.98	-28.10
26600.00	Peak	H	-	-	-56.26	7.21	-9.54	48.41	68.20	-19.79

Table 7-60. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 184 of 204

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	-	-	-82.86	16.78	0.00	40.92	53.98	-13.06
* 11000.00	Peak	H	-	-	-74.50	16.78	0.00	49.28	73.98	-24.70
16500.00	Peak	H	-	-	-74.79	24.50	0.00	56.71	68.20	-11.49
22000.00	Peak	H	-	-	-66.94	5.16	-9.54	35.67	68.20	-32.53
27500.00	Peak	H	-	-	-56.17	7.69	-9.54	48.98	68.20	-19.22

Table 7-61. 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	180	61	-77.63	17.10	0.00	46.47	53.98	-7.51
* 11200.00	Peak	H	180	61	-69.55	17.10	0.00	54.55	73.98	-19.43
16800.00	Peak	H	-	-	-73.72	24.48	0.00	57.76	68.20	-10.44
* 22400.00	Average	H	-	-	-67.08	5.45	-9.54	35.82	53.98	-18.16
* 22400.00	Peak	H	-	-	-58.23	5.45	-9.54	44.67	73.98	-29.31
28000.00	Peak	H	-	-	-55.50	7.97	-9.54	49.93	68.20	-18.27

Table 7-62. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 185 of 204

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	166	61	-76.06	17.95	0.00	48.89	53.98	-5.09
* 11440.00	Peak	H	166	61	-66.65	17.95	0.00	58.30	73.98	-15.68
17160.00	Peak	H	-	-	-74.87	24.77	0.00	56.90	68.20	-11.30
* 22880.00	Average	H	-	-	-66.99	5.43	-9.54	35.90	53.98	-18.08
* 22880.00	Peak	H	-	-	-56.91	5.43	-9.54	45.97	73.98	-28.00
28600.00	Peak	H	-	-	-57.72	8.29	-9.54	48.03	68.20	-20.17

Table 7-63. 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	155	61	-76.15	17.82	0.00	48.67	53.98	-5.31
* 11490.00	Peak	H	155	61	-67.24	17.82	0.00	57.58	73.98	-16.40
17235.00	Peak	H	-	-	-74.89	25.21	0.00	57.32	68.20	-10.88
* 22980.00	Average	H	-	-	-67.28	5.29	-9.54	35.47	53.98	-18.51
* 22980.00	Peak	H	-	-	-56.26	5.29	-9.54	46.49	73.98	-27.49
28725.00	Peak	H	-	-	-56.55	8.24	-9.54	49.15	68.20	-19.05

Table 7-64. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 186 of 204

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	149	62	-76.86	17.80	0.00	47.94	53.98	-6.04
* 11570.00	Peak	H	149	62	-68.51	17.80	0.00	56.29	73.98	-17.69
17355.00	Peak	H	-	-	-75.90	26.23	0.00	57.33	68.20	-10.87
23140.00	Peak	H	-	-	-56.29	5.34	-9.54	46.50	68.20	-21.70
28925.00	Peak	H	-	-	-57.12	8.48	-9.54	48.81	68.20	-19.39

Table 7-65. 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	153	63	-78.23	18.05	0.00	46.82	53.98	-7.16
* 11650.00	Peak	H	153	63	-70.12	18.05	0.00	54.93	73.98	-19.05
17475.00	Peak	H	-	-	-74.52	25.87	0.00	58.35	68.20	-9.85
23300.00	Peak	H	-	-	-56.67	5.29	-9.54	46.07	68.20	-22.13
29125.00	Peak	H	-	-	-56.85	8.49	-9.54	49.10	68.20	-19.10

Table 7-66. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 187 of 204

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	139	239	-86.23	22.78	0.00	43.55	53.98	-10.43
* 11490.00	Peak	H	139	239	-74.83	22.78	0.00	54.95	73.98	-19.03
17235.00	Peak	H	-	-	-78.86	30.48	0.00	58.62	68.20	-9.58
* 22980.00	Average	H	-	-	-66.87	5.29	-9.54	35.88	53.98	-18.10
* 22980.00	Peak	H	-	-	-55.97	5.29	-9.54	46.78	73.98	-27.20
28725.00	Peak	H	-	-	-56.14	8.24	-9.54	49.56	68.20	-18.64

Table 7-67. Radiated Measurements MIMO (242 Tones)

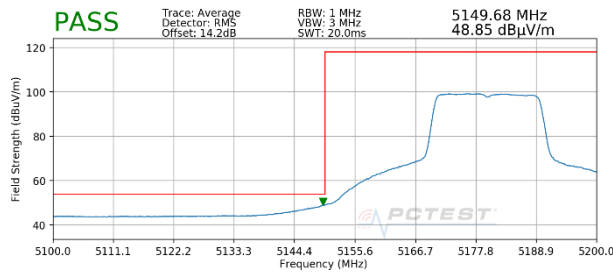
FCC ID: A3LSMF926B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 188 of 204

6.6.1 MIMO Radiated Band Edge Measurements (20MHz BW)

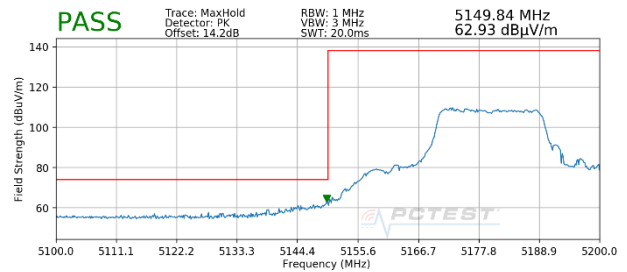
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

242 Tones

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

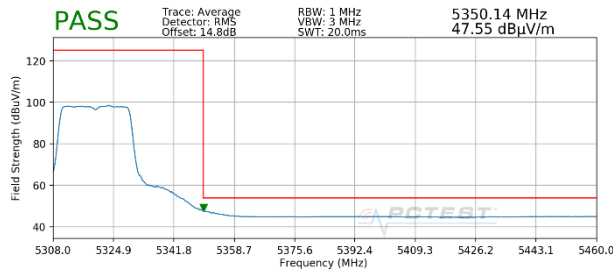


Plot 7-273. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)

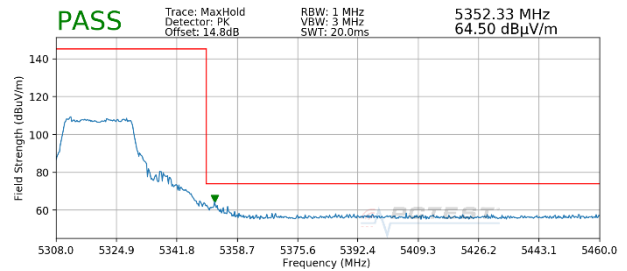


Plot 7-274. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

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



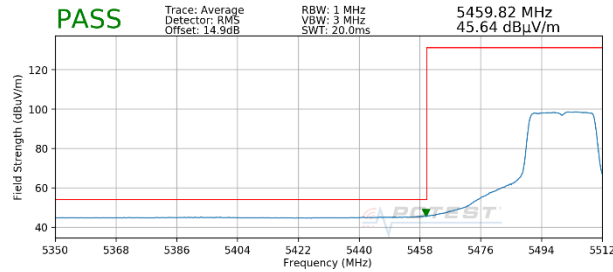
Plot 7-275. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



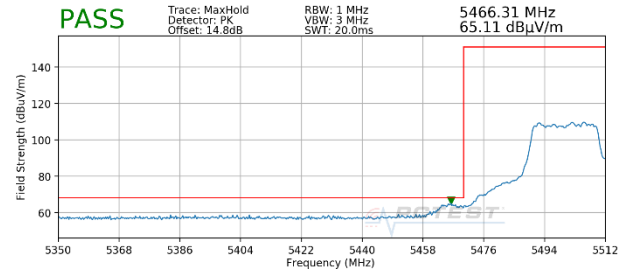
Plot 7-276. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 189 of 204

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

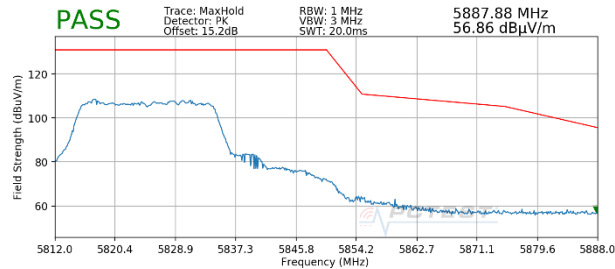


**Plot 7-277. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C – 242 Tones)**



**Plot 7-278. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C – 242 Tones)**

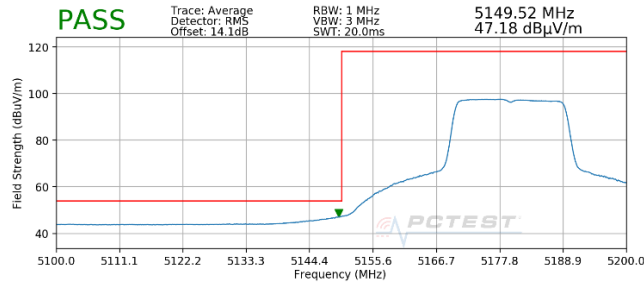
Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 5825MHz
Channel: 165



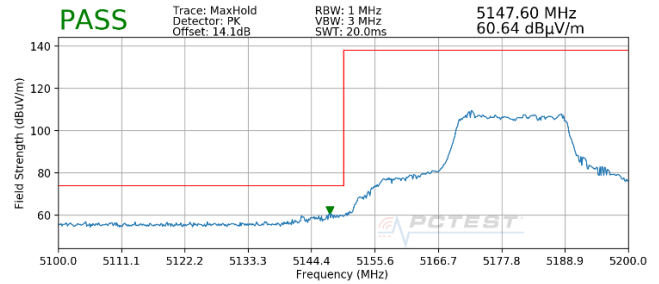
**Plot 7-279. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 3 – 242 Tones)**

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 190 of 204

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



Plot 7-280. Radiated Lower Band Edge Plot MIMO with WCP (Average – UNII Band 1 – 242 Tones)



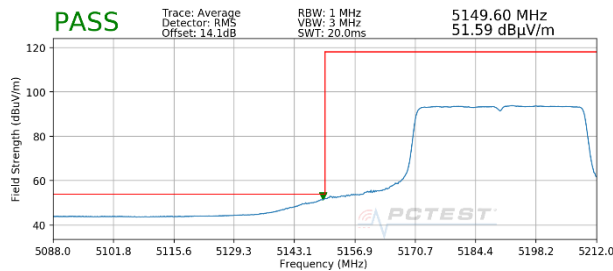
Plot 7-281. Radiated Lower Band Edge Plot MIMO with WCP (Peak – UNII Band 1 – 242 Tones)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 191 of 204

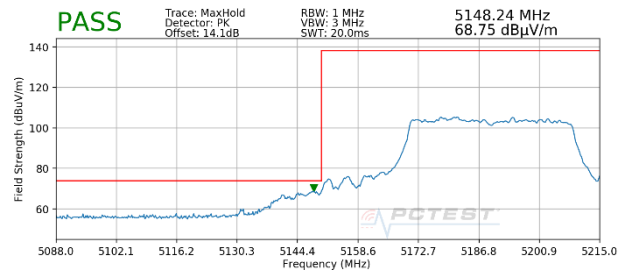
6.6.2 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

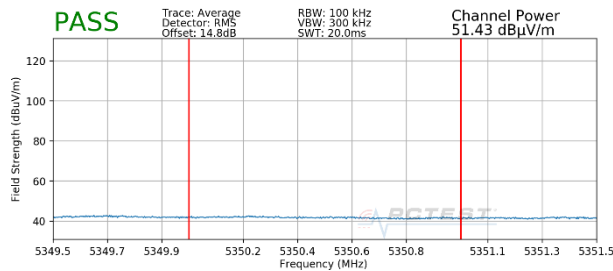


Plot 7-282. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

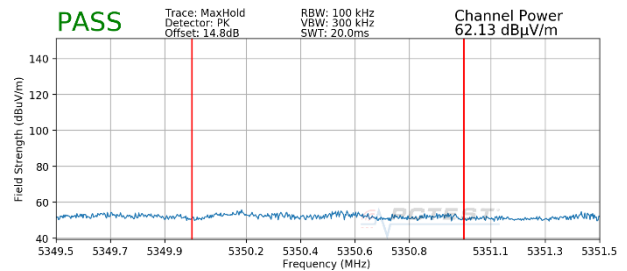


Plot 7-283. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)

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



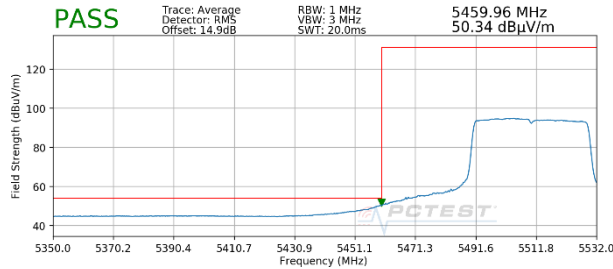
Plot 7-284. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)



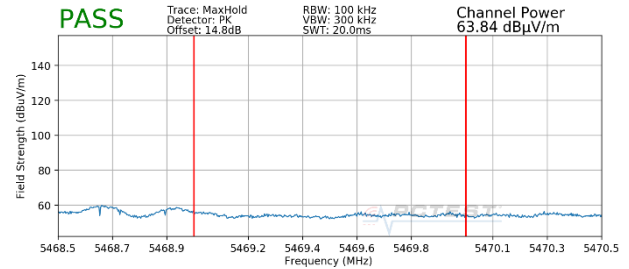
Plot 7-285. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	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

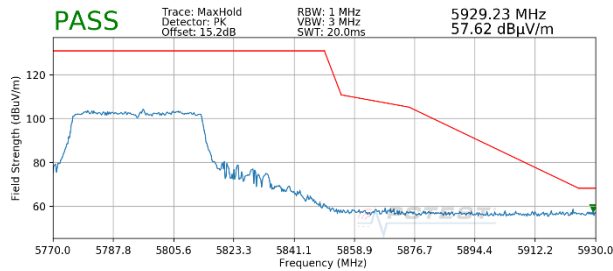


**Plot 7-286. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C – 484 Tones)**



**Plot 7-287. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C – 484 Tones)**

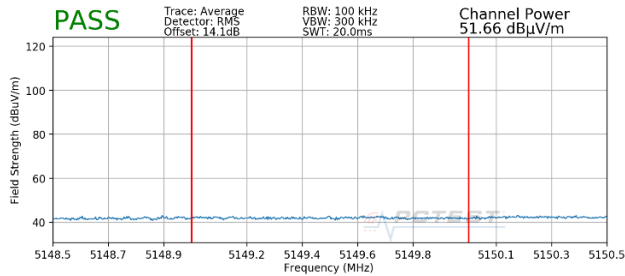
Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
RU Index: 65
Distance of Measurements: 3 Meters
Operating Frequency: 5795MHz
Channel: 159



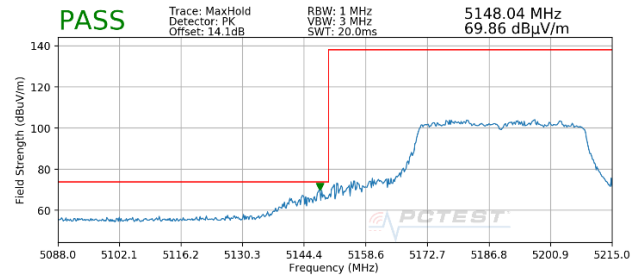
**Plot 7-288. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 3 – 484 Tones)**

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	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:	5190MHz
Channel:	38



Plot 7-289. Radiated Lower Band Edge Plot MIMO with WCP (Average – UNII Band 1 – 484 Tones)



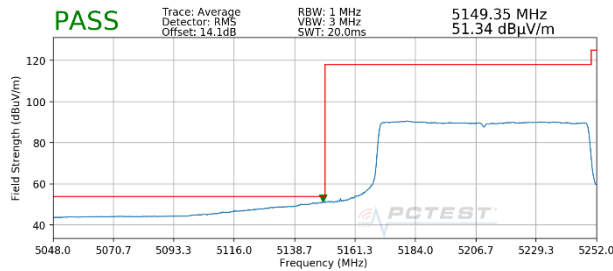
Plot 7-290. Radiated Lower Band Edge Plot MIMO with WCP (Peak – UNII Band 1 – 484 Tones)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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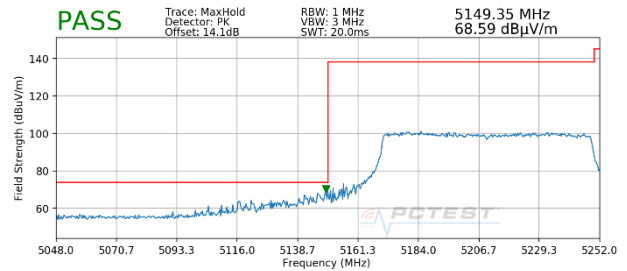
6.6.3 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

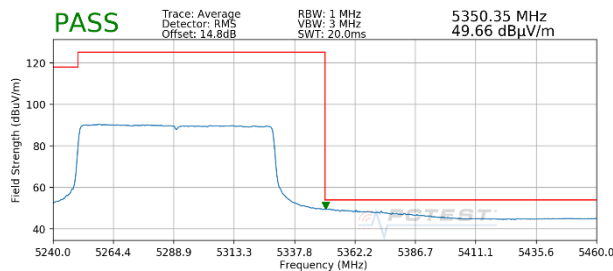


Plot 7-291. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)

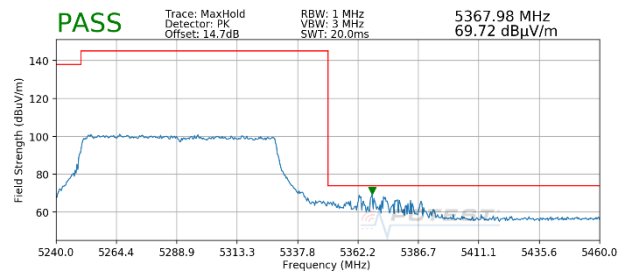


Plot 7-292. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

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



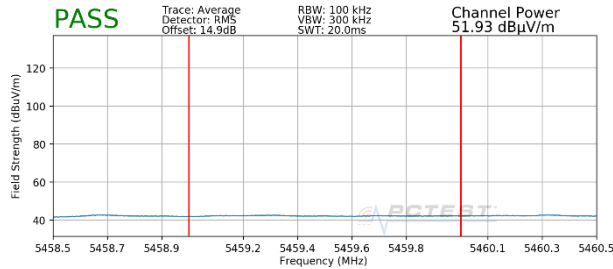
Plot 7-293. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)



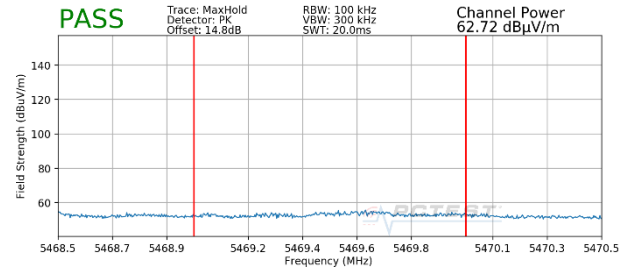
Plot 7-294. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
RU Index: 67
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106

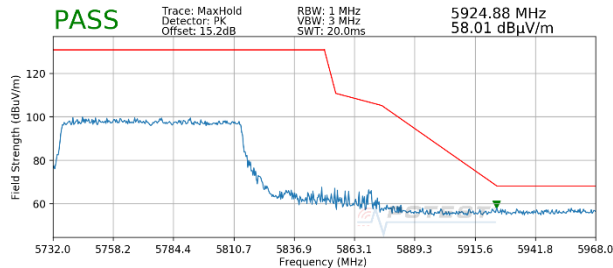


Plot 7-295. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)



Plot 7-296. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

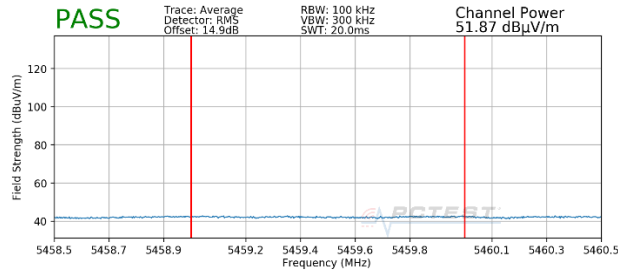
Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
RU Index: 67
Distance of Measurements: 3 Meters
Operating Frequency: 5775MHz
Channel: 155



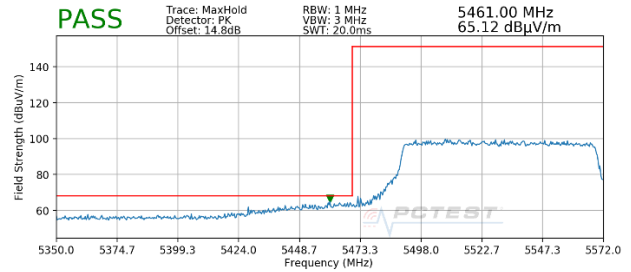
Plot 7-297. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104190044-13.A3L	Test Dates: 04/22/21 - 06/22/21	EUT Type: Portable Handset		Page 196 of 204

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



Plot 7-298. Radiated Lower Band Edge Plot MIMO with WCP (Average – UNII Band 2C – 996 Tones)



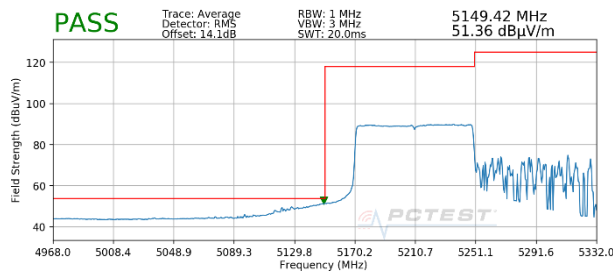
Plot 7-299. Radiated Lower Band Edge Plot MIMO with WCP (Peak – UNII Band 2C – 996 Tones)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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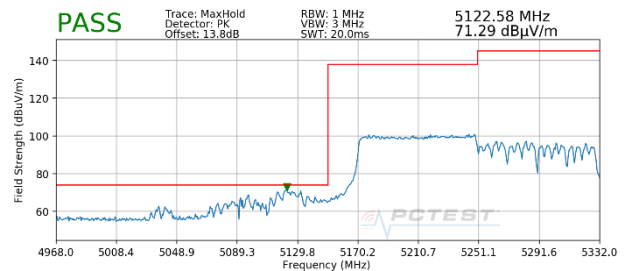
6.6.4 MIMO Radiated Band Edge Measurements (160MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

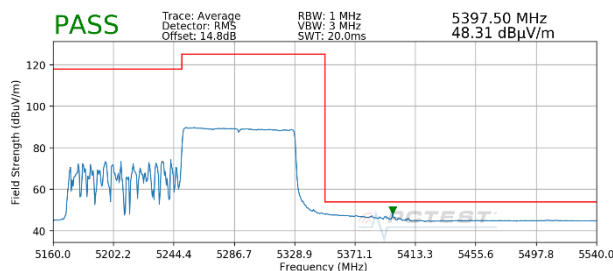


Plot 7-300. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 1 - 996 Tones)

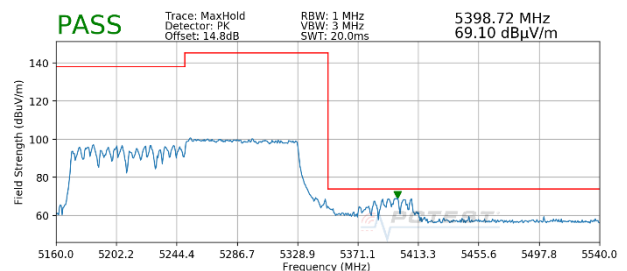


Plot 7-301. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1 - 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



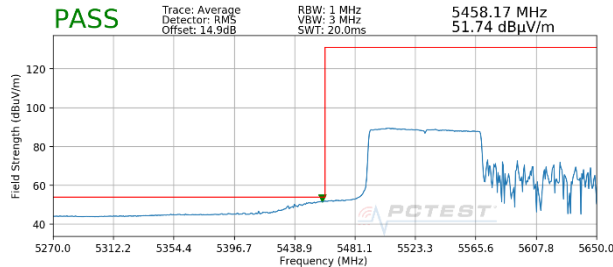
Plot 7-302. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A - 996 Tones)



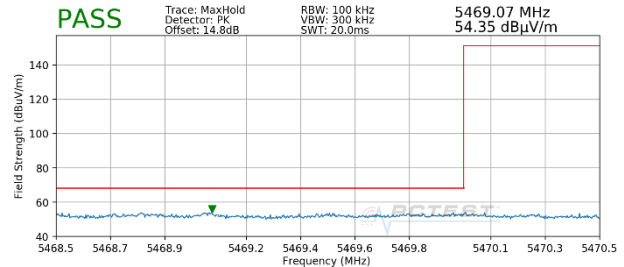
Plot 7-303. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A - 996 Tones)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	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: 5570MHz
Channel: 114

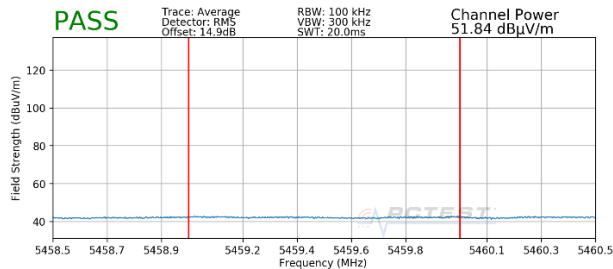


Plot 7-304. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)

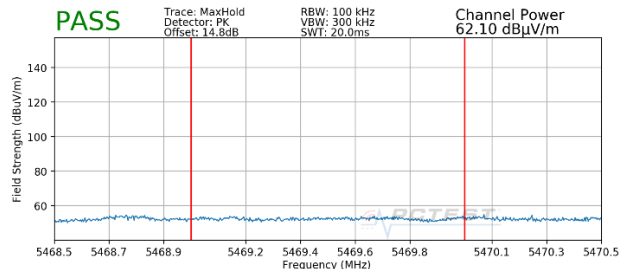


Plot 7-305. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
RU Index: 65
Distance of Measurements: 3 Meters
Operating Frequency: 5570MHz
Channel: 114



Plot 7-306. Radiated Lower Band Edge Plot MIMO with WCP (Average – UNII Band 2C – 996 Tones)



Plot 7-307. Radiated Lower Band Edge Plot MIMO with WCP (Peak – UNII Band 2C – 996 Tones)

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7.7 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-70 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-68. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

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

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Test Setup

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

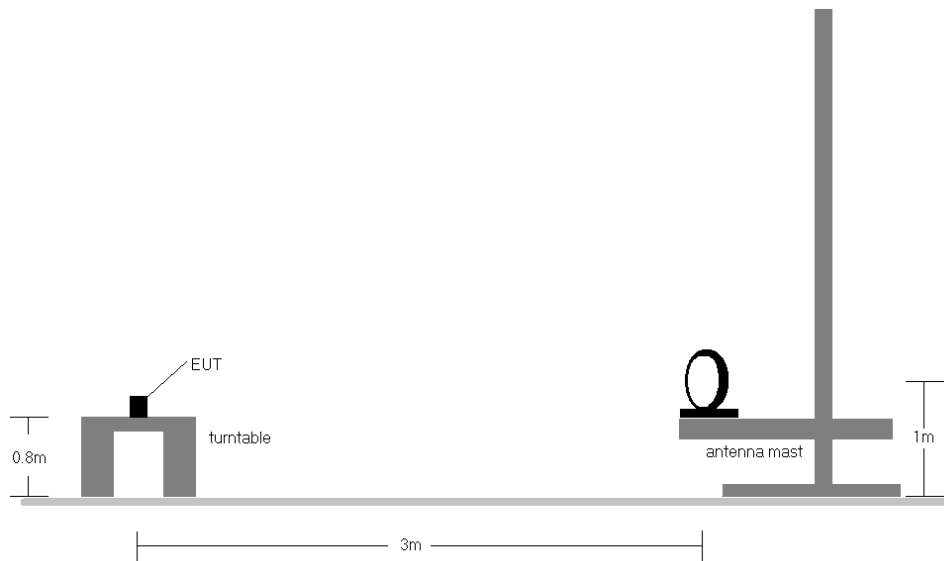


Figure 7-6. Radiated Test Setup < 30MHz

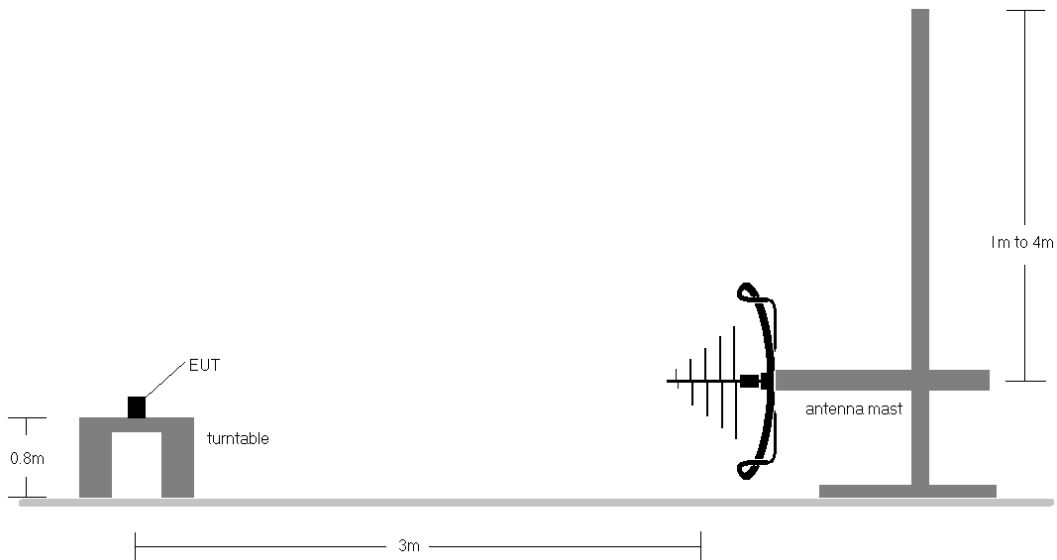


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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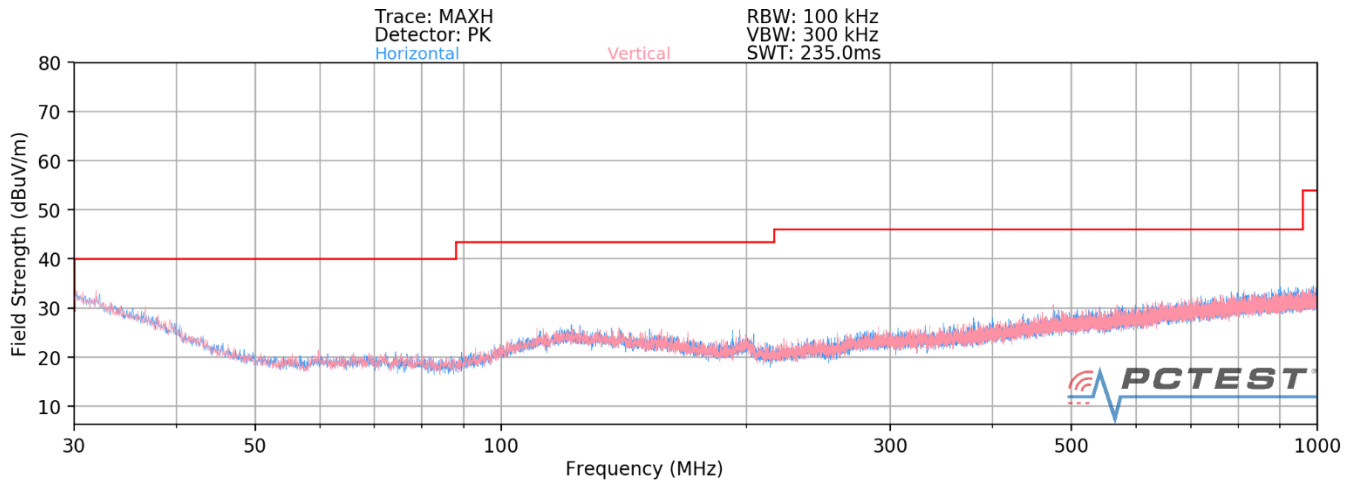
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-70.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

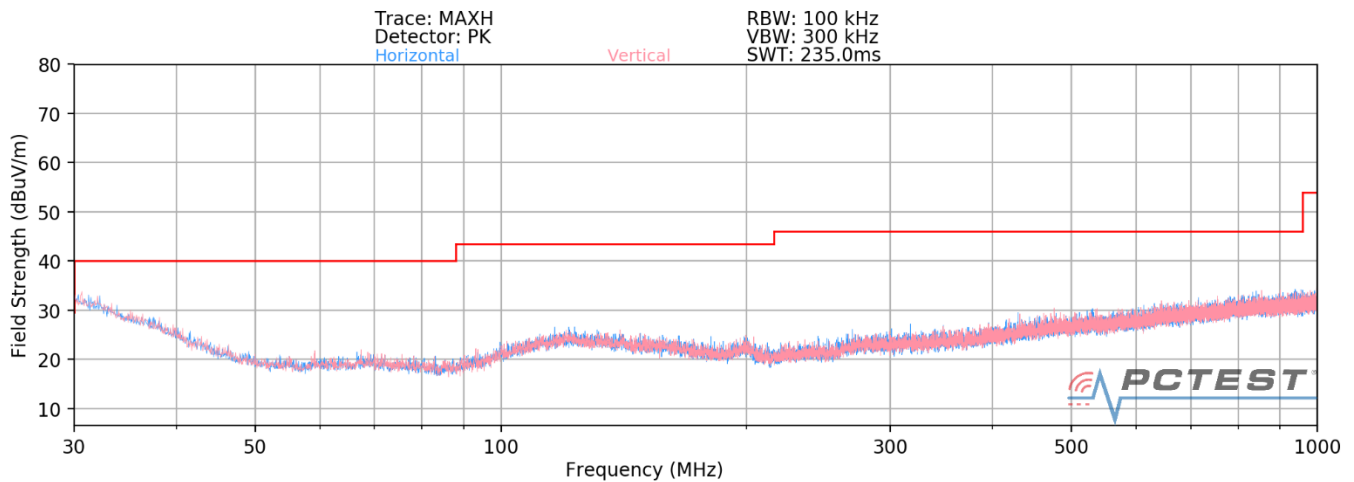
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MIMO Radiated Spurious Emissions Measurements (Below 1GHz)

\$15.209; RSS-Gen [8.9]



Plot 7-308. Radiated Spurious Plot below 1GHz MIMO (802.11ax – 26 Tones – U3 Ch. 157)



Plot 7-309. Radiated Spurious Plot below 1GHz MIMO (802.11ax – 242 Tones – U3 Ch. 157)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF926B** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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